Chiquita Canyon Landfill
Castaic, California

Assessment of Air Emissions from Landfill Surfaces

Test Event 4

Report

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1. Introduction

Background

The Chiquita Canyon Landfill (CCLF or Landfill) is a municipal solid waste (MSW) landfill located in northern Los Angeles County. An area of the Landfill is currently experiencing elevated gas temperatures and surface subsidence, with accompanying elevated gas generation, due to a subsurface reaction. This report is intended to provide an air emissions assessment (Test Event #4) to determine landfill surface air emissions for both the area of the Landfill affected by the reaction and areas not affected by the reaction. Th prior test events at the Landfill were conducted on:

1. August 29-31, 2023
2. March 19-21, 2024
3. November 19-21, 2024

The Fourth Test Event, which is described in this report, was conducted on March 19-21, 2025.

Site Location

The test site is Chiquita Canyon Landfill, which is located at 29201 Henry Mayo Drive, Castaic, California, 91384.

Figure 1.1 Site Location Map.

Facility Description

At the time of the Fourth Test Event, Chiquita Canyon Landfill was an inactive MSW disposal facility and was not receiving waste.

Objective

The objective of this emissions assessment was to quantify, by field measurement, the air emissions of fixed gases (including methane, carbon dioxide, and carbon monoxide), reduced sulfur compounds, and

speciated volatile organic compounds (VOCs) from the area of the Landfill affected by the reaction and areas not affected by the reaction.

Methodology

The Landfill's air emissions were directly measured using the U.S. Environmental Protection Agency (USEPA) Surface Emission Isolation Flux Chamber (flux chamber) following the USEPA User's Guidance document (see Photo 1.1). Whole air samples were collected from the flux chamber using Summa® canister and Tedlar® bags with analysis by the following methods:

- ASTM D-1945/USEPA Method 3C for fixed gases (including methane, carbon dioxide, and carbon monoxide);
- USEPA Method 3C for helium;
- South Coast Air Quality Management District (SCAQMD) Method 307-91 for hydrogen sulfide (H_2S)/organic reduced sulfur (ORS);
- USEPA Method TO-14 for speciated VOCs;
- USEPA Method TO-15 for speciated VOCs (including tentatively identified compounds); and
- USEPA Method TO-12 for total non-methane VOC with functional group/molecular weight distribution.

Flux from soil surfaces can either be diffusive (driven by molecular action), advective (driven by gas movement), or a combination of both. Given that it was expected that the landfill surface would have an advective flow at some or many locations, the flux chamber assessment included the use of a tracer (10% helium) in the chamber sweep air gas as per SCAQMD Rule 1133.3, Attachment A. The dilution of the tracer taken from the evacuated canister samples was used to calculate total flow in the flux chamber for the emissions assessment. Note that TO-12, TO-14, TO-15, USEPA Method 3C, and USEPA Method 3C samples were collected and analyzed from the same sample canister.

Photo 1.1 USEPA Flux Chamber Used in Testing Program.

Landfill Surface Nomenclature

For the purposes of this test, the Landfill surface was divided into the following areas:

Non-Reaction Area

This is the portion of the Landfill that is not affected by the landfill reaction and that did not exceed the SCAQMD Rule 1150.1 integrated data limit of 25 parts per million by volume (ppmv) on February 18-19, 2025, the dates of the site-wide SEM event whose data was used to select the test cells.

Reaction Area

This is the portion of the Landfill designated as being affected by the landfill reaction by SCS Engineers' (SCS) staff, and that did not exceed the SCAQMD Rule 1150.1 integrated data limit on February 18-19, 2025 (Appendix 1).

Membrane Area

This is a subset of the Reaction Area that is covered with a HDPE membrane per Photo 1.2.

Photo 1.2 Flux Chamber on Membrane Covering Portion of Landfill.

Exceedance Area

This is the portion of the Landfill that was designated as being affected by the landfill reaction and that exceeded the SCAQMD Rule 1150.1 integrated data limit on February 18-19, 2025. This portion of the Landfill was considered separately to assess any impact of the grid cells that exceeded the Rule 1150.1 integrated data criteria would have on total site surface emissions. Note that these grid cells are subject to a strict remediation schedule, so elevated emissions from these cells would be a temporary phenomenon.

2. Sampling Scope

This study was focused on the assessment of air emissions from areas of the Landfill affected by the reaction and areas not affected by the reaction. Each Landfill area was tested using the flux chamber technology. Flux chamber measurement data performed at representative locations within grid cells was used to estimate the following constituents from the Landfill: VOCs-, sulfur compound-, toxic air contaminant (TAC)-, and fixed gas- emissions.

The completed scope of work for the emissions assessment is given below in Table 2.1.

Table 2.1 Scope of Work for the Emissions Assessment.

Source	Flux Chamber Tests	TAC/Fixed Gas/VOC Sampling	Comment
Non-Reaction Area Landfill Surfaces			
High Emission Category Grid Cell	4	4	Samples distributed within levels of emission potential within category of grid cell
Medium Emission Category Grid Cell	4	4	Samples distributed within levels of emission potential within category of grid cell
Second Medium Emission Category Grid Cell	4	4	Replicate cell for QA/QC
Low Emission Category Grid Cell	4	4	Samples distributed within levels of emission potential within category of grid cell
Reaction Area Landfill Surfaces (Footprint)			
High Emission Category Grid Cell	4	4	Samples distributed within levels of emission potential within category of grid cell
Medium Emission Category Grid Cell	4	4	Samples distributed within levels of emission potential within category of grid cell
Second Medium Emission Category Grid Cell	4	4	Replicate cell for QA/QC
Low Emission Category Grid Cell	4	4	Samples distributed within levels of emission potential within category of grid cell
Exceedance Area Surfaces			
Intent to quantify difference in grid testing	4	4	Samples taken at same or distributed within levels of emission potential within category of grid cell
Repeat Area Surfaces			
Intent to quantify difference in grid testing	4	4	Samples taken at initial, marked test locations within levels of emission potential within category of grid cell
Retest of grid after gas system remediation	4	4	Samples taken at initial, marked test locations within levels of emission potential within category of grid cell
QC Blank Samples	N/A	4	Minimum of 5% Blank Samples
QC Replicate Samples	N/A	4	Minimum of 5% Blank Samples
Total	44	52	

3. Sampling Strategy

Selection of Sampling Locations

Sampling locations were selected based on SEM data obtained under the SCAQMD Rule 1150.1 SEM program. The SEM program consists of surveying the Landfill surface on a track using a field portable, calibrated instrument sensitive to methane and total non-methane hydrocarbon (TNMHC). The landfill grid pattern is shown in Figure 3.1. The grid cells over the areas of the Landfill affected by the reaction are highlighted. The grid cells that were sampled are enclosed in a geometric figure.

Test Cell Selection Methodology

This emissions assessment was conducted by analyzing Rule 1150.1 SEM data and categorizing the Landfill areas based on surface emissions. At this site, SEM events are conducted as often as every two weeks.

The SEM events are conducted using an instrument fit with a flame ionization detector (FID) along with global positioning system (GPS) location recording to map fugitive surface hydrocarbon concentrations following a pattern in each grid cell for the site. Instantaneous fugitive concentration data is determined by walking a serpentine path across each nominal 50,000 square foot (ft^2) Landfill grid cell. Integrated concentration data is determined by averaging the instrument readings obtained while traversing the serpentine path as illustrated in Figure 3.2.

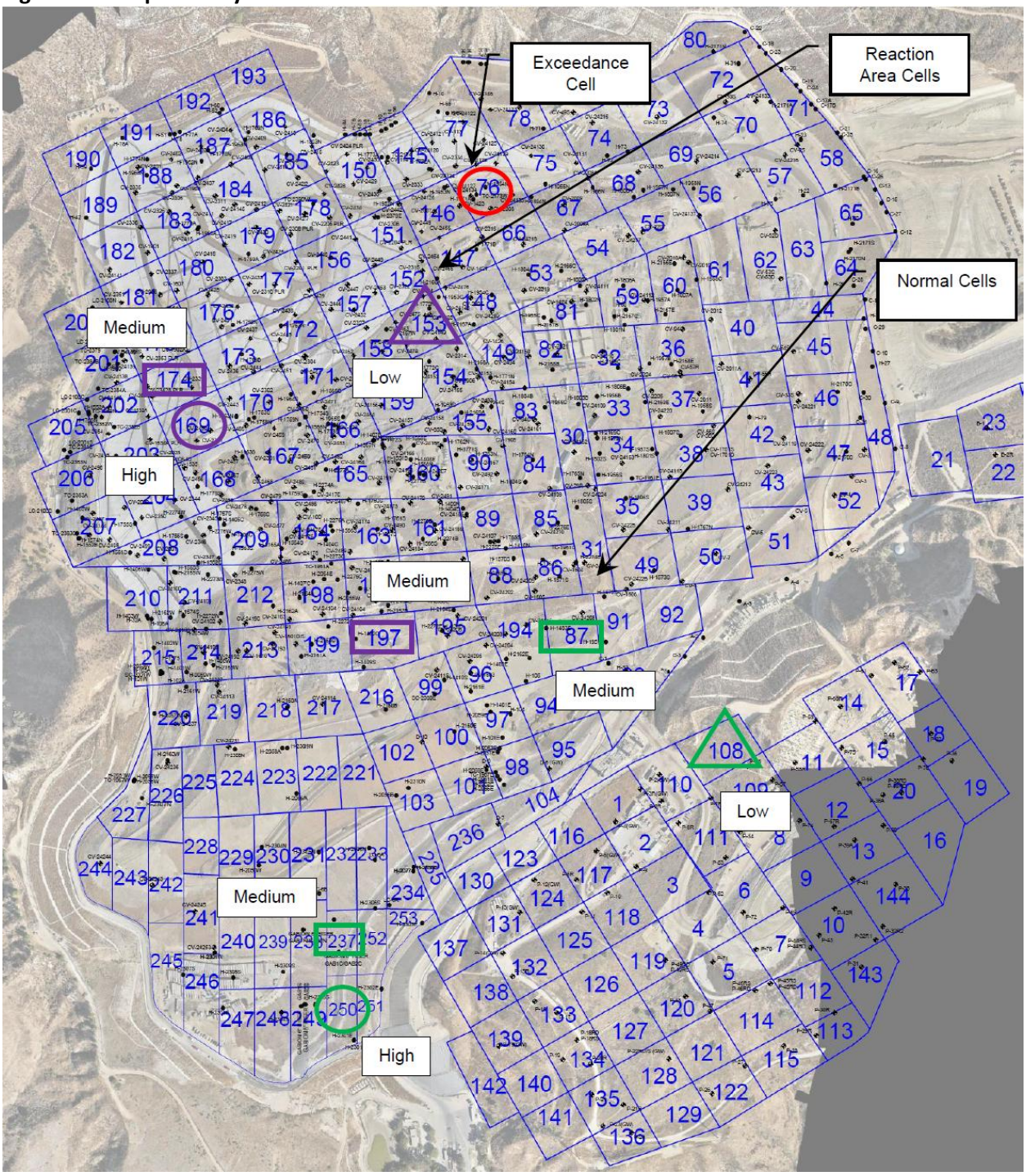
Emissions concentration data and location information are collected and stored for the purpose of ranking grid cells on the Landfill by emissions concentration. The integrated concentration data was used to 'rank' the grid cells into categories of high emissions, medium emissions, and low emissions. The instantaneous fugitive concentration data was used to select representative locations for flux chamber testing where flux data for VOCs, sulfur, and toxic air contaminants was collected. The flux from these representative locations was used to estimate air emissions from the entire surface of these cells.

Tables 3.1 through 3.3 show the sorted integrated SEM data for the non-reaction area cells during the period of February 18-19, 2025. Table 3.4 shows the sorted integrated SEM data for the reaction area cells during the period of February 18-19, 2025. Table 3.5 shows the sorted integrated SEM data for the exceedance area cells during the period of February 18-19, 2025. The actual cell tested on each table is highlighted in yellow in Column 1.

The structure of Tables 3.1 through 3.5 is as follows:

- Column 1 is the grid cell number designation.
- Column 2 is the surface area of each grid cell (each grid cell is nominally 50,000 ft^2, but for this analysis, the exact area of each grid cell is used).
- Columns 3 are the integrated SEM values (FID response as ppmv methane) for the SEM event from February 18-19, 2025.
- Column 4 is the cumulative average of all the grid cells above the grid cell in question.
- Column 5 is the percentage-of-total of grid cell in the grid cell grouping. Targets are: 16.7% for the high group (this is the midpoint of the top 33% of the emissions that the high group represents), 50% for the medium group, and 83.3% for the low group.

Figure 3.1 Chiquita Canyon Landfill Test Grid Cells.



Key: Normal Low, Normal Medium, Normal High, Reaction Low, Reaction Medium, Reaction High, Exceedance

Figure 3.2 Typical Serpentine Landfill Walk Pattern for a 50,000 Square Foot Grid (from Rule 1150.1).

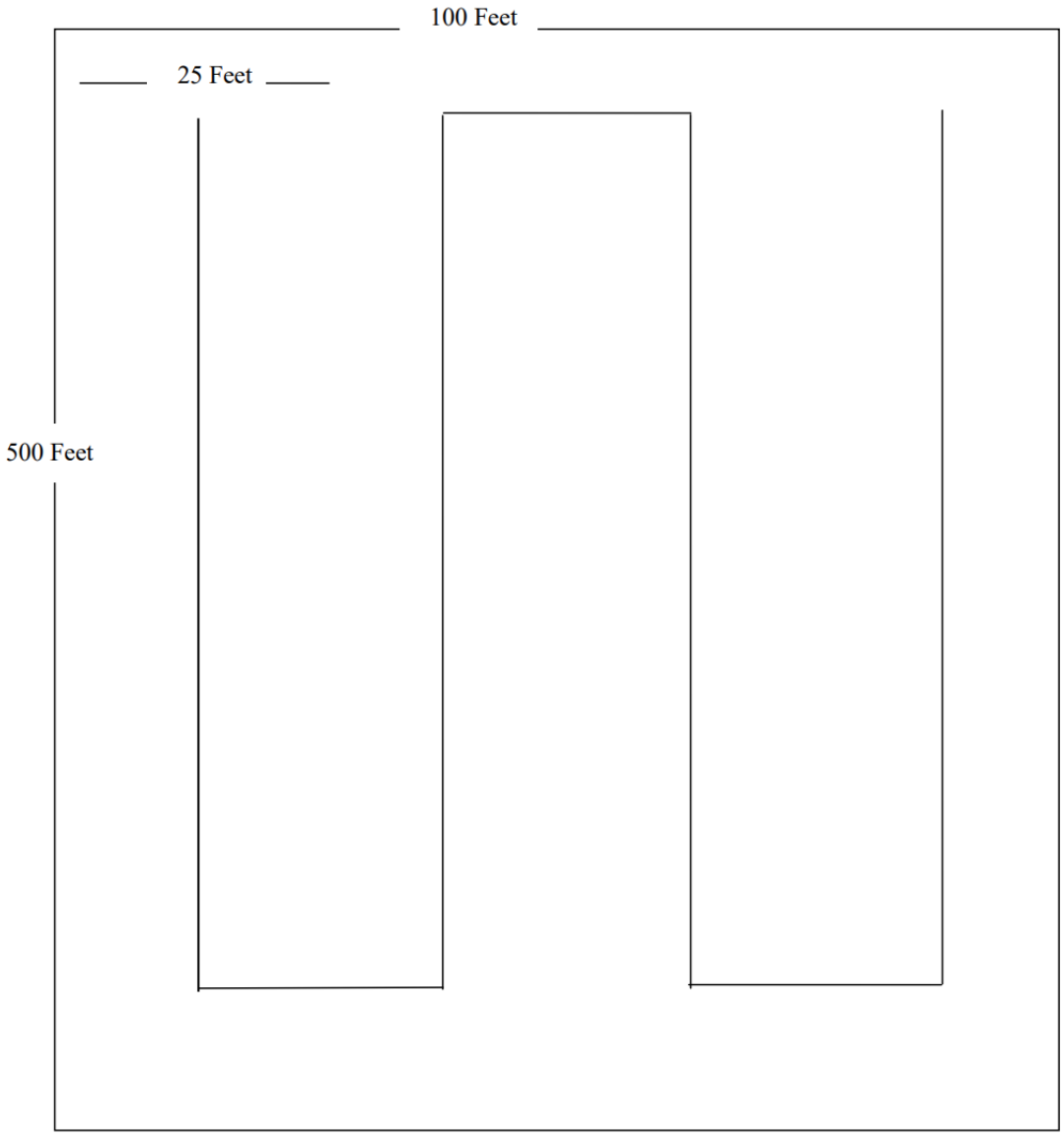


Table 3.1 Summary of Non-Reaction Area Cell Sorted Integrated Grid Data (February 18-19, 2025) (ppmv FID as methane); High Emission Cells.

Grid	Surface Area (ft2)	Int. FID Value (ppmv)	Cumulative	Fraction of Total
102	45,969	24.93	25	2%
100	44,490	24.7	50	3%
232	49,006	24.31	74	5%
239	49,597	24	98	7%
241	49,029	23.35	121	8%
240	48,923	23.1	144	10%
104	42,522	23.04	167	11%
226	48,737	22.86	190	13%
244	45,884	22.35	213	14%
250	47,494	22.3	235	16%
231	50,572	22.21	257	17%
235	19,742	21.62	279	19%
98	41,663	21.43	300	20%
216	50,931	21.3	322	21%
97	42,564	21.1	343	23%
252	23,555	20.76	363	24%
80	46,342	20.38	384	26%
38	60,634	19.48	403	27%
32	55,304	18.5	422	28%
94	57,008	17.64	439	29%
103	44,432	17.32	457	30%
40	56,878	17.2	474	32%
34	55,632	16.72	491	33%

Notes for Tables 3.1 through 3.4:

1. "HE" means that the grid cell was not monitored due to heavy equipment operating in the grid cell.
2. "AT" means that the grid cell was not monitored due to active trash disposal in the grid cell.

Table 3.2 Summary of Non-Reaction Area Cell Sorted Integrated Grid Data (February 18-19, 2025) (ppmv FID as methane); Medium Emission Cells.

Grid	Surface Area (ft2)	Int. FID Value (ppmv)	Cumulative	Fraction of Total
101	42,395	16.59	507	34%
228	32,278	15.84	523	35%
51	62,750	15.75	539	36%
42	57,899	15.52	554	37%
72	59,809	15.52	570	38%
41	58,579	15.5	585	39%
43	55,491	15.46	601	40%
218	52,805	15.3	616	41%
227	45,403	15.23	631	42%
230	49,427	14.91	646	43%
253	45,403	14.91	661	44%
251	36,070	14.5	676	45%
249	52,520	14.45	690	46%
50	61,680	14.19	704	47%
35	56,295	14.18	718	48%
66	45,494	13.7	732	49%
87	58,663	13.7	746	50%
237	30,995	13.7	760	51%
84	48,990	13.51	773	51%
71	43,736	13.32	786	52%
36	60,138	12.9	799	53%
62	60,736	12.8	812	54%
245	39,969	12.73	825	55%
74	50,957	12.1	837	56%
95	49,782	12.03	849	56%
61	58,640	11.82	861	57%
59	53,384	11.5	872	58%
57	58,263	11.32	884	59%
37	57,548	11.13	895	60%
86	43,299	11.04	906	60%
236	41,876	10.94	917	61%
30	53,460	10.87	928	62%
73	55,815	10.8	938	62%
56	61,386	10.72	949	63%
60	58,550	10.6	960	64%
219	49,910	10.5	970	65%
92	47,660	10.42	981	65%
69	52,221	10.32	991	66%

Table 3.3 Summary of Non-Reaction Area Cell Sorted Integrated Grid Data (February 18-19, 2025) (ppmv FID as methane); Low Emission Cells.

Grid	Surface Area (ft2)	Int. FID Value (ppmv)	Cumulative	Fraction of Total
33	50,273	9.8	1,001	67%
63	57,567	9.75	1,010	67%
58	46,507	9.54	1,020	68%
53	60,197	9.42	1,029	68%
91	47,895	9.36	1,039	69%
54	53,298	9.32	1,048	70%
68	47,853	8.86	1,057	70%
117	42,797	8.65	1,066	71%
136	33,845	8.64	1,074	71%
65	58,090	8.35	1,083	72%
55	58,851	8.25	1,091	73%
75	51,225	8.2	1,099	73%
70	55,632	8.02	1,107	74%
118	45,475	7.55	1,115	74%
135	43,154	7.54	1,122	75%
39	62,100	7.51	1,130	75%
49	55,750	7.49	1,137	76%
52	55,676	7.47	1,145	76%
8	57,675	7.45	1,152	77%
47	56,104	7.3	1,159	77%
109	55,703	7.29	1,167	78%
64	51,169	7.25	1,174	78%
116	39,267	7.22	1,181	79%
31	55,775	7.13	1,188	79%
139	46,331	6.98	1,195	79%
134	43,452	6.89	1,202	80%
85	45,482	6.69	1,209	80%
120	46,799	6.67	1,216	81%
112	46,549	6.64	1,222	81%
22	58,442	6.62	1,229	82%
45	58,267	6.55	1,235	82%
126	48,416	6.47	1,242	83%
108	52,575	6.36	1,248	83%
15	55,063	6.24	1,254	83%
119	46,712	6.19	1,261	84%
14	57,525	6.15	1,267	84%
129	46,067	6.14	1,273	85%
48	55,467	6.13	1,279	85%
123	37,280	6.12	1,285	85%
113	31,853	5.92	1,291	86%
17	54,072	5.9	1,297	86%
143	48,041	5.89	1,303	87%
128	48,480	5.79	1,309	87%
28	39,741	5.78	1,314	87%
115	52,538	5.77	1,320	88%
44	35,715	5.59	1,326	88%
133	44,845	5.54	1,331	89%
107	22,162	5.52	1,337	89%
20	53,895	5.5	1,342	89%
29	43,858	5.49	1,348	90%
137	45,071	5.44	1,353	90%
121	46,453	5.33	1,359	90%
122	45,247	5.29	1,364	91%
18	42,901	5.18	1,369	91%
132	43,711	5.15	1,374	91%
144	68,243	5.11	1,379	92%
3	50,019	5.09	1,384	92%
125	46,593	5.08	1,389	92%
142	46,169	5.08	1,395	93%
124	43,289	5.03	1,400	93%
138	46,590	4.9	1,404	93%
5	56,526	4.75	1,409	94%
67	47,130	4.7	1,414	94%
4	53,410	4.66	1,419	94%
12	55,625	4.49	1,423	95%
1	42,205	4.4	1,427	95%
127	48,271	4.28	1,432	95%
111	54,270	4.22	1,436	96%
21	72,168	4.2	1,440	96%
131	41,070	4.2	1,444	96%
105	47,304	4.19	1,449	96%
16	60,337	4.18	1,453	97%
106	50,785	4.18	1,457	97%
46	57,683	4.17	1,461	97%
24	55,473	4.13	1,465	97%
141	41,413	4.09	1,469	98%
27	59,711	4.03	1,473	98%
23	56,405	3.8	1,477	98%
11	55,395	3.6	1,481	98%
26	54,472	3.43	1,484	99%
130	34,533	3.28	1,487	99%
2	45,352	3.21	1,491	99%
114	58,149	3.18	1,494	99%
25	58,414	2.71	1,497	100%
140	42,878	2.63	1,499	100%
19	57,192	2.33	1,502	100%
110	55,586	2.05	1,504	100%

Table 3.4 Summary of Reaction Area Cell Sorted Integrated Grid Data (February 18-19, 2025) (ppmv FID as methane); All Cells.

Grid	Surface Area (ft2)	Int. FID Value (ppmv)	Cumulative	Fraction of Total
164	61,548	24.81	25	3%
199	52,647	24.77	50	5%
162	60,853	24.6	74	8%
173	49,960	24.57	99	11%
198	58,685	24	123	13%
169	54,459	23.62	146	16%
208	70,031	23.4	170	18%
195	44,221	23.25	193	21%
90	53,791	23.12	216	23%
177	47,454	22.77	239	26%
202	45,736	22.45	261	28%
180	51,775	22.35	284	31%
99	46,820	22.33	306	33%
161	60,199	22.03	328	35%
147	45,961	21.9	350	38%
149	56,413	21.5	371	40%
196	52,053	21.4	393	42%
89	47,690	20.94	414	45%
83	38,592	20.5	434	47%
174	48,344	20.28	455	49%
197	56,626	20.22	475	51%
181	49,379	19.88	495	53%
163	50,009	19.79	514	56%
205	42,679	19.27	534	58%
210	62,428	19.25	553	60%
209	60,969	19.24	572	62%
201	47,960	18.75	591	64%
203	51,487	18.27	609	66%
179	48,176	17.47	627	68%
213	46,753	16.45	643	69%
151	43,622	15.5	659	71%
79	87,028	15.22	674	73%
78	82,334	14.35	688	74%
176	52,356	13.63	702	76%
168	59,314	13.19	715	77%
88	47,618	13.06	728	79%
190	44,958	12.81	741	80%
157	45,578	12.5	753	81%
146	45,166	12.4	766	83%
153	45,864	12.37	778	84%
182	52,362	12.15	790	85%
145	60,197	11.49	802	87%
187	47,666	11.25	813	88%
77	99,941	11.16	824	89%
189	49,163	10.55	835	90%
148	50,546	10.35	845	91%
183	54,617	10.3	855	92%
152	42,032	10.2	866	94%
185	50,993	10.09	876	95%
188	50,699	10.05	886	96%
156	47,581	9.45	895	97%
184	51,245	9.45	905	98%
178	50,014	9.42	914	99%
186	46,611	7.5	922	100%
158	49,522	4.15	926	100%

Table 3.5 Summary of Exceedance Area Cell Sorted Integrated Grid Data (10/15/2024 – 11/5/2024) (ppmv FID as methane); All Cells.

Grid	Surface Area (ft2)	Int. FID Value (ppmv)	Cumulative	Fraction of Total
192	40,754	141	141	7%
246	49,934	121	262	13%
191	44,606	107	369	18%
159	56,972	99.21	468	23%
204	54,296	82.34	551	27%
193	38,070	81.16	632	31%
214	40,386	81.11	713	35%
154	54,536	59.55	772	38%
166	56,594	59.4	832	40%
172	44,946	50.56	882	43%
96	45,229	47.15	929	45%
206	61,365	45.29	975	47%
76	48,758	44.3	1,019	50%
248	42,748	41.87	1,061	52%
167	62,172	41.75	1,103	54%
155	44,022	40.34	1,143	56%
217	53,205	40.31	1,183	58%
165	79,844	39.23	1,223	60%
170	55,737	39.17	1,262	61%
194	71,501	36.3	1,298	63%
247	50,770	35.4	1,333	65%
234	42,867	34.37	1,368	67%
220	49,909	33.5	1,401	68%
93	88,479	33.33	1,435	70%
225	38,630	33.13	1,468	71%
160	66,546	32.47	1,500	73%
215	40,916	32.1	1,532	75%
81	48,343	31.8	1,564	76%
175	50,430	31.8	1,596	78%
238	31,614	31.6	1,628	79%
150	70,989	31.56	1,659	81%
171	49,687	31.3	1,690	82%
222	47,335	30.04	1,720	84%
212	58,054	29.36	1,750	85%
82	42,779	29.2	1,779	87%
211	59,725	28.7	1,808	88%
221	45,169	28.69	1,836	89%
224	47,895	28.16	1,865	91%
200	46,964	28.03	1,893	92%
207	62,754	27.95	1,921	93%
233	49,820	27.81	1,948	95%
242	45,188	27.35	1,976	96%
223	48,150	26.37	2,002	97%
243	45,926	26.37	2,028	99%
229	49,011	26.28	2,055	100%

The non-reaction area test cells (see Tables 3.1 through 3.3) were initially selected by organizing the integrated SEM data by average (Column 3) and splitting the resulting data into three categories: high emission, medium emission, and low emission. From there, the mean cell(s) from each group were initially selected for testing. These cells are highlighted in yellow in Tables 3.1 to 3.3 above.

A similar process was used for the reaction area test cells (see Table 3.4). One grid cell was selected to be tested from the exceedance area. This cell, highlighted in red, was just over the mean value of all the exceedance area grid cells. The non-exceedance reaction area test cells were initially selected by splitting the data into high, medium, and low emission groups. The mean cell(s) from each group were initially selected for testing. On Monday, March 18, 2025, the Landfill was evaluated for the final cell selection. This final selection process was necessary to verify whether a selected cell was accessible for testing or is otherwise not representative. For this test event, all the initially selected cells were suitable for testing. Note that while any cell can be tested and pro-rated using this methodology, the mean emissions cells were used because they should result in the most accurate results.

Selecting Test Points in a Cell

Using survey flags, the serpentine route prescribed by Rule 1150.1 was walked in a cell and FID readings were periodically noted on the planted flags and field screening data forms provided in Appendix 2.

Flux chamber samples were taken at the following target locations:

1. Highest Emission - Peak FID reading on serpentine walk.
2. High Emission - Mid-point of highest 10% of readings.
3. Medium Emission - Mid-point of the next 40% of readings.
4. Low Emission - Mid-point of lowest one half of readings.

Table 3.6 shows the selected test grid cells along with their area metrics.

Table 3.6 Selected Test Grid Cell Area Metrics.

		Rep	Cell Area		Area Rep	
Category	**Subset**	**Cell**	**(ft2)**	**(m2)**	**(ft2)**	**(m2)**
Exceedance Area		76	48,758	4,530	2,323,625	215,872
Repeat			48,758	4,530		
Reaction Area	High	169	54,459	5,059	651,160	60,495
Reaction Area	Med	174	48,344	4,491	865,785	80,434
Reaction Area	Med	197	56,626	5,261		
Repeat			56,626	5,261		
Reaction Area	Low	153	45,864	4,261	1,403,780	130,415
Non-Reaction Area	High	250	47,494	4,412	1,076,908	100,048
Non-Reaction Area	Med	87	58,663	5,450	1,950,276	181,187
Non-Reaction Area	Med	237	30,995	2,880		
Non-Reaction Area	Low	108	52,575	4,884	4,347,548	403,900
Non SEM Area					281,615	26,163
Total					12,900,697	1,172,351
			Membrane		2,005,938	186,358

Note: The area represented by the three sets of control cells (Reaction Area Medium, Non-Reaction Area High, and Non-reaction Area Medium) is the same for each set of two control cells.

4. Sampling Results

All sampling for the Fourth Test Event took place on March 19-21, 2025. Table 4.1 presents the sampling data for the key compounds: methane; and VOC (TNMHC). Complete data with quality assurance/quality control (QA/QC) commentary and calculations are provided in Attachment 1 (**Data Validation Technical Memorandum** [DVTM]). Location 1 represents the highest emission grid measurement, location 2 represents the high emission grid measurement, location 3 represents the medium emission grid measurement, and location 4 represents the low grid measurement.

Table 4.2 shows the calculated flux for the TO-15 compounds that were detected at least once in the data set. Non-detects were assumed to be MDL/2. Tables 4.3 and 4.4 show the results for TO-14 and ORS (SCAQMD Method 307-91) respectively. The complete list of all target compounds is provided in the DVTM. Tentatively identified compound (TIC) concentrations are shown in the lab reports.

Table 4.1 Summary of Sampling Results.

Test Site	LOC.	TO-15 ID	SRS ID a,b	Methane (ppmv)		CO2 (%)		H2 (%)		TO-12 TNMHC (ppbv)		TO-12 TNMHC (ug/m3)		He (%)	Total Flow (lpm)	Total Flow (m3/min)	Methane Flux mg/m2,min		TNMHC Flux mg/m2,min	
Grid Cell #76	1	T-101	S-101	0.93	J	0.08		ND	U	189.76		128.90		4.37	11.4	0.011	0.056	J	0.011	
Grid Cell #76	2	T-102	S-102	1.15	J	0.08		ND	U	309.24		211.29		4.08	12.3	0.012	0.074	J	0.020	
Grid Cell #76	3	T-103	S-103	2.69		0.09		ND	U	79.08	J	53.41	J	2.56	19.5	0.020	0.273		0.008	J
Grid Cell #76	4	T-104	S-104	202.40		0.10		ND	U	148.39	J	100.80	J	4.40	11.4	0.011	12.017		0.009	J
Grid Cell #174	1	T-105	S-105	5.57		0.08		ND	U	203.36		134.75		2.71	18.5	0.018	0.524		0.019	
Grid Cell #174	2	T-106	S-106	3.22		0.07		ND	U	ND	U	18.52	U	1.54	32.5	0.032	0.540		0.005	U
Grid Cell #174	3	T-107	S-107	4.45		0.06		ND	U	140.17	J	92.36	J	4.04	12.4	0.012	0.279		0.009	
Grid Cell #174	4	T-108	S-108	174,161		21.8		ND	U	153,481		101,893		2.02	24.8	0.025	22,015		19.401	
Grid Cell #169	1	T-109	S-109	12.11		0.08		ND	U	1,235.48		820.21		1.72	29.1	0.029	1.798		0.183	
Grid Cell #169	2	T-110	S-110	15.15		0.08		ND	U	1,660.92		1,084.20		2.62	19.1	0.019	1.452		0.159	
Grid Cell #169	3	T-111	S-111	7.02		0.04		ND	U	1,059.49		696.79		4.71	10.6	0.011	0.377		0.057	
Grid Cell #169	4	T-112	S-112	12.01		0.03	J	ND	U	1,504.12		976.39		7.10	7.04	0.007	0.422		0.053	
Grid Cell #153	1	T-113	S-113	1.67	J	0.06		ND	U	82.32	J	53.84	J	2.68	18.7	0.019	0.157	J	0.008	J
Grid Cell #153	2	T-114	S-114	1.12	J	0.04		ND	U	941.07		617.75		5.02	10.0	0.010	0.056	J	0.047	
Grid Cell #153	3	T-115	S-115	0.50	U	0.02		ND	U	90.96	J	59.71	J	7.40	6.76	0.007	0.011	U	0.003	J
Grid Cell #153	4	T-116	S-116	0.50	U	0.01	U	ND	U	67.71	J	44.20	J	8.55	5.85	0.006	0.011	U	0.002	J
Grid Cell #153	4	T-117	S-117	0.50	U	0.01	U	ND	U	ND	U	18.29	U	8.23	6.08	0.006	0.009	U	0.001	U
Media Blank	NA	T-118	S-118	0.50	U	0.01	U	ND	U	ND	U	16.81	U	8.91	5.61	0.006	0.008	U	0.001	U
Grid #87	1	T-201	S-201	5.69		0.12		ND	U	110.56	J	75.54	J	2.66	18.8	0.019	0.562		0.011	J
Grid #87	2	T-202	S-202	107.81		0.10		ND	U	134.08	J	90.73	J	3.05	16.4	0.016	9.200		0.011	J
Grid #87	3	T-203	S-203	4,572		0.43		ND	U	7,986		5,425		5.13	9.75	0.010	233		0.407	
Grid #87	4	T-204	S-204	273.20		0.10		ND	U	908.50		615.95		8.40	5.95	0.006	8.482		0.028	
Grid #197	1	T-205	S-205	88.05		0.07		ND	U	238.56		156.31		2.03	24.6	0.025	10.930		0.030	
Grid #197	2	T-206	S-206	1,770		0.74		ND	U	15,855		10,526		2.76	18.1	0.018	164		1.467	
Grid #197	3	T-207	S-207	271.60		0.13		ND	U	953.30		606.49		2.07	24.2	0.024	32.108		0.113	
Grid #197	4	T-208	S-208	322.10		0.18		ND	U	816.41		529.97		1.67	29.9	0.030	48.154		0.122	
Grid #108	1	T-209	S-209	0.50	U	0.03		ND	U	ND	U	18.82	U	6.79	7.36	0.007	0.012	U	0.001	U
Grid #108	2	T-210	S-210	2.43		0.05		ND	U	76.50	J	49.48	J	4.16	12.0	0.012	0.145		0.005	
Grid #108	3	T-211	S-211	0.50	U	0.07		ND	U	140.20	J	89.85	J	7.77	6.44	0.006	0.010	U	0.004	
Grid #108	4	T-212	S-212	0.50	U	0.05		ND	U	158.88	J	102.76	J	7.55	6.62	0.007	0.011	U	0.005	
Grid #108	4	T-213	S-213	0.50	U	0.05		ND	U	153.93	J	99.55	J	7.18	6.96	0.007	0.012	U	0.005	
Media Blank	NA	T-214	S-214	0.50	U	0.01	U	ND	U	ND	U	16.44	U	9.40	5.32	0.005	0.008	U	0.001	U
Grid Cell #250	1	T-215	S-215	2.70		0.11		ND	U	137.26	J	85.47	J	2.55	19.6	0.020	0.254		0.013	
Grid Cell #250	2	T-216	S-216	0.50	U	0.03	J	ND	U	ND	U	19.87	U	7.53	6.64	0.007	0.011	U	0.001	U
Grid Cell #250	3	T-217	S-217	4.41		0.08		ND	U	173.17		111.38		5.97	8.38	0.008	0.183		0.007	
Grid Cell #250	4	T-218	S-218	9,480		2.11		ND	U	15,261		9,469		4.71	10.6	0.011	480		0.773	
Grid Cell #76	1	T-301	S-301	1.40	J	0.04		ND	U	99.58	J	68.71	J	5.53	9.04	0.009	0.067	J	0.005	
Grid Cell #76	2	T-302	S-302	5.00		0.05		ND	U	ND	U	18.37	U	4.13	12.1	0.012	0.320		0.002	U
Grid Cell #76	3	T-303	S-303	12.76		0.07		ND	U	71.07	J	49.04	J	3.83	13.1	0.013	0.884		0.005	J
Grid Cell #76	4	T-304	S-304	1,304		0.18		ND	U	489		336		4.72	10.6	0.011	72.901		0.027	
Grid Cell #237	1	T-305	S-305	1,680		0.33		ND	U	5,109		3,316		2.89	17.3	0.017	145		0.441	
Grid Cell #237	2	T-306	S-306	5.73		0.11		ND	U	150.52	J	98.99	J	3.87	12.9	0.013	0.375		0.010	J
Grid Cell #237	3	T-307	S-307	3.16		0.09		ND	U	145.97	J	96.54	J	3.80	13.2	0.013	0.212		0.010	J
Grid Cell #237	4	T-308	S-308	206.70		0.09		ND	U	312.73		204.90		3.37	14.8	0.015	15.455		0.023	
Grid Cell #237	4	T-309	S-309	134.30		0.07		ND	U	180.40		118.20		3.18	15.7	0.016	10.645		0.014	
Media Blank	NA	T-310	S-310	0.50	U	0.03	J	ND	U	ND	U	19.01	U	9.72	5.14	0.005	0.008	U	0.001	U
Grid Cell #197	1	T-311	S-311	15.20		0.08		ND	U	164.34	J	103.24	J	1.46	34.2	0.034	2.516		0.027	
Grid Cell #197	2	T-312	S-312	139.90		0.12		ND	U	2,617.29		1,674.23		2.13	23.5	0.023	16.160		0.302	
Grid Cell #197	3	T-313	S-313	26.52		0.08		ND	U	ND	U	17.48	U	1.77	28.2	0.028	3.569		0.004	U
Grid Cell #197	4	T-314	T-314	260.80		0.14		ND	U	5,371.10		3,356.27		1.75	28.6	0.029	35.817		0.738	

Table 4.1 Notes: LOC = Location, H2 = Hydrogen, TNMHC = Total Non-Methane Hydrocarbon, He = Helium, CO2 = Carbon Dioxide, mg/m3 = milligram per cubic meter, mg/min = milligram per minute, m3/min = cubic meter per minute, m/min = meters per minute, DT/m2, min = Dilutions to threshold (or Odor Units) per square meter per minute, ug/m2, min = microgram per square meter per minute, J = quantified data near detection limit, Media Blank = QA/QC data (see DVTM), Flux = mg/m2-min or OU/m2-min.

Table 4.2a TO-15 Compounds (Flux in mg/m2-min for only compounds with at least one detect).

Sample Number	Complound	Benzene	Tetrahydrofuran	Acetone	Propylene	Methanol	2-propanol (isopropylalcohol)	Toluene	m,p-Xylenes	Ethylbenzene	2-Butanone (MEK)	n-Heptane	Ethanol	2,2,4-Trimethylpentane	o-Xylene	Nonane	Isopropyltoluene	Acrolein	Tetrachloroethene (PCE)	Cyclohexane
	CAS	71-43-2	109-99-9	67-64-1	115-07-1	67-56-1	67-63-0	108-88-3	1330-20-7	100-41-4	78-93-3	142-82-5	64-17-5	540-84-1	95-47-6	111-84-2	99-87-6	107-02-8	127-18-4	110-82-7
	MW	78.10	72.10	58.10	42.08	32.00	60.10	92.10	106.20	106.20	72.10	100.20	46.10	114.20	106.20	128.30	134.20	56.10	165.80	84.20
T-101		0.00065	<2.69E-05	0.00606	0.00007	<1.20E-04	<8.98E-05	<1.38E-04	<7.94E-05	<7.94E-05	0.00036	<7.49E-05	<1.72E-04	<4.27E-05	<7.94E-05	<9.59E-05	<2.01E-04	0.00027	<3.10E-05	<3.15E-05
T-102		<2.28E-04	<3.05E-05	0.00056	<3.47E-05	<1.33E-04	<1.00E-04	<1.54E-04	<8.76E-05	<8.76E-05	<5.95E-05	<8.27E-05	0.00041	<4.83E-05	<8.76E-05	<1.06E-04	<2.24E-04	<4.63E-05	<3.34E-05	<3.56E-05
T-103		<3.47E-04	<4.57E-05	0.00172	0.00011	<2.03E-04	<1.52E-04	<2.34E-04	<1.35E-04	<1.35E-04	<9.14E-05	<1.27E-04	0.00120	<7.24E-05	<1.35E-04	<1.63E-04	<3.40E-04	0.00037	<5.26E-05	<5.34E-05
T-104		<2.22E-04	0.00022	0.00194	0.00017	<1.29E-04	<9.70E-05	<1.49E-04	0.00090	<8.67E-05	<5.89E-05	<8.18E-05	0.00054	<4.66E-05	0.00038	0.00027	<2.17E-04	<4.58E-05	<3.38E-05	<3.44E-05
T-105		0.00166	<4.45E-05	0.00093	0.00014	<1.93E-04	<1.45E-04	0.00066	0.00071	0.00039	<8.69E-05	<1.21E-04	<2.78E-04	<7.05E-05	<1.28E-04	<1.55E-04	<3.23E-04	<6.76E-05	<4.87E-05	<5.20E-05
T-106		0.00156	0.00040	0.00164	0.00028	<3.44E-04	<2.58E-04	<3.96E-04	<2.28E-04	<2.28E-04	<1.55E-04	<2.15E-04	<4.95E-04	<1.26E-04	<2.28E-04	<2.76E-04	<5.77E-04	<1.21E-04	<8.69E-05	<9.27E-05
T-107		0.00089	<2.97E-05	0.00047	0.00010	<1.29E-04	<9.66E-05	<1.48E-04	0.00025	<8.54E-05	<5.79E-05	<8.05E-05	<1.85E-04	<4.70E-05	<8.54E-05	<1.03E-04	<2.16E-04	<4.51E-05	<3.25E-05	<3.47E-05
T-108		6.23902	2.73500	0.00894	0.03068	0.00073	<1.99E-04	0.12625	0.12243	0.13923	<1.20E-04	0.11586	<3.82E-04	0.06569	0.04082	0.03591	<4.45E-04	<9.31E-05	0.02132	<6.98E-05
T-109		0.01481	0.00399	0.00229	0.00066	<3.22E-04	0.00067	0.00344	0.00379	0.00282	0.00116	<2.00E-04	<4.64E-04	<1.17E-04	0.00121	0.00246	0.00509	<1.12E-04	0.00022	<8.59E-05
T-110		0.01262	0.00262	0.00172	0.00044	<2.03E-04	<1.53E-04	0.00367	0.00405	0.00230	0.00073	0.00037	<2.93E-04	<7.18E-05	0.00099	0.00187	0.00377	<7.06E-05	0.00033	<5.29E-05
T-111		0.00107	0.00302	0.00668	0.00015	0.00058	0.00046	0.00045	0.00054	0.00028	0.00808	<7.06E-05	0.00437	<4.02E-05	<7.49E-05	<9.04E-05	0.00467	0.00038	<2.78E-05	<2.97E-05
T-112		0.00088	<1.66E-05	0.00190	0.00101	0.00022	0.00761	0.00024	<4.78E-05	<4.78E-05	0.00020	<4.51E-05	0.00052	<2.64E-05	<4.78E-05	<5.78E-05	<1.22E-04	<2.53E-05	<1.82E-05	<1.94E-05
T-113		0.00068	<4.44E-05	0.00250	0.00022	0.00084	0.00032	<2.22E-04	<1.28E-04	<1.28E-04	0.00073	<1.20E-04	0.00148	<7.03E-05	<1.28E-04	<1.54E-04	<3.23E-04	<6.75E-05	<4.86E-05	<5.19E-05
T-114		0.00230	0.00087	0.00060	0.00012	<1.07E-04	<8.03E-05	0.00069	0.00087	0.00064	<4.76E-05	<6.61E-05	<1.54E-04	<3.77E-05	0.00029	0.00063	0.00137	0.00018	<2.87E-05	<2.78E-05
T-115		0.00036	0.00027	0.00270	0.00009	0.00017	0.01656	<8.35E-05	<4.76E-05	<4.76E-05	0.00084	<4.49E-05	0.00024	<2.56E-05	<4.76E-05	<5.75E-05	<1.22E-04	0.00030	<1.94E-05	<1.89E-05
T-116		0.00040	<1.65E-05	0.00065	0.00008	<7.25E-05	<5.46E-05	<8.37E-05	<4.78E-05	<4.78E-05	0.00010	<4.51E-05	<1.04E-04	<2.62E-05	<4.78E-05	<5.77E-05	<1.22E-04	0.00027	<1.83E-05	<1.93E-05
T-117		0.00025	<1.44E-05	0.00049	0.00005	<6.35E-05	<4.76E-05	<7.29E-05	<4.25E-05	<4.25E-05	<2.89E-05	<4.01E-05	<9.14E-05	<2.29E-05	<4.25E-05	<5.14E-05	<1.06E-04	0.00019	<1.58E-05	<1.69E-05
T-118		<9.20E-05	<1.21E-05	<9.78E-05	<1.42E-05	<5.38E-05	<4.04E-05	<6.20E-05	<3.57E-05	<3.57E-05	<2.43E-05	<3.37E-05	<7.76E-05	<1.92E-05	<3.57E-05	<4.32E-05	<9.03E-05	<1.89E-05	<1.47E-05	<1.42E-05
T-201		<3.40E-04	<4.45E-05	0.00167	0.00024	0.00045	<1.50E-04	<2.30E-04	<1.31E-04	<1.31E-04	0.00023	<1.24E-04	<2.88E-04	<7.05E-05	<1.31E-04	<1.58E-04	<3.36E-04	0.00035	<5.12E-05	<5.20E-05
T-202		0.00062	<3.85E-05	0.00145	0.00063	<1.68E-04	<1.27E-04	<1.94E-04	<1.10E-04	<1.10E-04	0.00023	<1.04E-04	<2.42E-04	<6.09E-05	<1.10E-04	<1.33E-04	<2.83E-04	0.00064	<4.42E-05	<4.49E-05
T-203		0.00166	0.00056	0.00130	0.01487	<1.02E-04	<7.65E-05	0.00639	0.01116	0.00368	0.00021	0.00063	<1.47E-04	<3.64E-05	0.00575	0.00305	0.00637	<3.57E-05	0.00012	<2.68E-05
T-204		<1.05E-04	0.00015	0.00081	0.00487	<6.12E-05	<4.61E-05	<7.06E-05	0.00012	<4.02E-05	0.00040	<3.79E-05	0.00029	<2.22E-05	0.00008	<4.85E-05	<1.03E-04	<2.12E-05	<1.61E-05	<1.63E-05
T-205		<4.48E-04	<5.87E-05	0.00317	0.00076	0.00240	0.00123	<3.04E-04	<1.73E-04	<1.73E-04	0.00042	<1.63E-04	<3.79E-04	0.00035	<1.73E-04	<2.09E-04	<4.43E-04	0.00082	0.00057	<6.86E-05
T-206		0.00107	0.00095	0.00369	0.01145	0.00210	<1.44E-04	0.00074	0.00126	<1.26E-04	<8.55E-05	<1.19E-04	0.00679	0.00699	0.00197	<1.52E-04	0.00091	<6.65E-05	0.02650	0.01405
T-207		0.00173	0.00029	0.00482	0.00053	0.00493	<1.93E-04	0.00075	0.00074	0.00039	0.00080	<1.63E-04	<3.71E-04	0.00087	<1.73E-04	0.00043	0.00130	0.00240	0.00103	0.00090
T-208		<5.36E-04	<7.07E-05	0.00329	0.00056	0.00299	<2.36E-04	<3.61E-04	<2.08E-04	<2.08E-04	0.00094	<1.97E-04	<4.52E-04	<1.12E-04	<2.08E-04	<2.52E-04	<5.27E-04	0.00148	0.00412	<8.26E-05
T-209		<1.35E-04	<1.81E-05	0.00076	0.00008	0.00143	<5.95E-05	<9.12E-05	<5.20E-05	<5.20E-05	0.00011	<4.91E-05	<1.14E-04	<2.86E-05	<5.20E-05	<6.28E-05	<1.33E-04	0.00022	<2.08E-05	<2.11E-05
T-210		0.00059	<2.83E-05	0.00147	0.00013	<1.27E-04	<9.55E-05	<1.46E-04	<8.33E-05	<8.33E-05	<5.66E-05	<7.86E-05	<1.83E-04	<4.48E-05	<8.33E-05	<1.01E-04	<2.13E-04	0.00026	<3.41E-05	<3.30E-05
T-211		0.00032	<1.57E-05	0.00081	0.00006	0.00079	<5.12E-05	<7.85E-05	<4.53E-05	<4.53E-05	0.00010	<4.27E-05	<9.83E-05	<2.49E-05	<4.53E-05	<5.47E-05	<1.14E-04	0.00015	0.00008	<1.84E-05
T-212		0.00044	0.00009	0.00154	0.00006	0.00110	<5.57E-05	<8.53E-05	<4.92E-05	<4.92E-05	0.00029	<4.64E-05	<1.07E-04	<2.70E-05	<4.92E-05	<5.94E-05	0.00087	0.00024	<1.88E-05	<1.99E-05
T-213		0.00055	0.00010	0.00117	0.00007	0.00108	<5.79E-05	<8.87E-05	<5.06E-05	<5.06E-05	0.00018	<4.77E-05	0.00025	<2.72E-05	<5.06E-05	<6.11E-05	<1.29E-04	0.00030	<1.97E-05	<2.01E-05
T-214		<8.52E-05	<1.15E-05	<9.02E-05	<1.31E-05	<4.97E-05	<3.73E-05	<5.72E-05	<3.30E-05	<3.30E-05	<2.24E-05	<3.11E-05	<7.16E-05	<1.82E-05	<3.30E-05	<3.98E-05	<8.34E-05	<1.74E-05	<1.25E-05	<1.34E-05
T-215		0.00154	<4.66E-05	0.00474	0.00034	0.00826	<1.52E-04	<2.32E-04	<1.34E-04	<1.34E-04	0.00069	<1.26E-04	0.00119	<7.37E-05	<1.34E-04	<1.62E-04	<3.39E-04	0.00120	<5.35E-05	<5.44E-05
T-216		0.00071	0.00023	0.00161	0.00011	<7.50E-05	<5.64E-05	<8.64E-05	<4.98E-05	<4.98E-05	0.00034	<4.70E-05	<1.08E-04	<2.68E-05	<4.98E-05	<6.02E-05	<1.26E-04	0.00024	<2.03E-05	<1.97E-05
T-217		0.00064	<1.96E-05	0.00369	0.00015	0.00028	<6.62E-05	<1.01E-04	<5.78E-05	<5.78E-05	0.00055	<5.45E-05	<1.27E-04	<3.11E-05	<5.78E-05	<6.98E-05	<1.48E-04	0.00029	0.00012	<2.29E-05
T-218		0.00131	<2.40E-05	0.00249	<2.80E-05	0.00166	<8.09E-05	<1.24E-04	<7.06E-05	<7.06E-05	0.00041	<6.66E-05	0.00815	0.00376	<7.06E-05	<8.53E-05	<1.81E-04	0.00030	0.00092	0.00241
T-301		0.00046	<2.16E-05	0.00052	0.00007	0.00025	<7.12E-05	<1.09E-04	<6.37E-05	<6.37E-05	<4.32E-05	<6.01E-05	<1.37E-04	<3.43E-05	<6.37E-05	<7.70E-05	<1.59E-04	0.00013	<2.49E-05	<2.53E-05
T-302		0.00058	<2.88E-05	0.00125	0.00009	0.00032	<9.50E-05	<1.46E-04	<8.50E-05	<8.50E-05	<5.77E-05	<8.02E-05	<1.83E-04	<4.57E-05	<8.50E-05	<1.03E-04	<2.12E-04	0.00014	<3.32E-05	<3.37E-05
T-303		0.00060	<3.12E-05	0.00354	0.00011	0.00030	<1.05E-04	<1.62E-04	<9.20E-05	<9.20E-05	<6.24E-05	<8.68E-05	0.00050	<4.95E-05	<9.20E-05	<1.11E-04	<2.35E-04	<4.86E-05	<3.59E-05	<3.65E-05
T-304		<1.92E-04	<2.52E-05	0.00069	0.00168	<1.13E-04	<8.50E-05	<1.30E-04	<7.42E-05	0.00017	<5.04E-05	<7.00E-05	<1.63E-04	<3.99E-05	<7.42E-05	<8.96E-05	<1.90E-04	0.00013	0.00006	<2.94E-05
T-305		0.00158	0.00141	0.00476	0.01041	0.00138	<1.35E-04	0.00162	0.00225	0.00067	0.00404	0.00288	0.00079	0.00273	0.00072	0.00047	0.00093	0.00061	0.00077	0.00597
T-306		0.00129	<2.95E-05	0.00154	0.00018	0.00069	<9.94E-05	<1.52E-04	<8.68E-05	<8.68E-05	0.00016	<8.19E-05	<1.90E-04	<4.67E-05	<8.68E-05	<1.05E-04	<2.22E-04	0.00025	<3.39E-05	<3.44E-05
T-307		0.00137	<3.02E-05	0.00185	0.00021	0.00261	0.00021	<1.56E-04	<9.11E-05	<9.11E-05	0.00089	<8.59E-05	<1.96E-04	<4.78E-05	<9.11E-05	<1.10E-04	<2.27E-04	0.00025	<3.47E-05	<3.52E-05
T-308		0.00144	<3.37E-05	0.00179	0.00043	0.00076	<1.14E-04	<1.74E-04	<1.02E-04	<1.02E-04	0.00032	<9.60E-05	<2.19E-04	<5.34E-05	<1.02E-04	<1.23E-04	<2.54E-04	0.00021	<3.87E-05	<3.94E-05
T-309		0.00126	<3.57E-05	0.00186	0.00030	0.00102	<1.21E-04	<1.85E-04	<1.05E-04	<1.05E-04	0.00029	<9.93E-05	<2.31E-04	<5.66E-05	<1.05E-04	<1.27E-04	<2.69E-04	0.00035	<4.11E-05	<4.17E-05
T-310		<9.57E-05	<1.29E-05	<1.01E-04	<1.47E-05	<5.58E-05	<4.20E-05	<6.43E-05	<3.71E-05	<3.71E-05	<2.52E-05	<3.50E-05	<8.05E-05	<2.04E-05	<3.71E-05	<4.48E-05	<9.37E-05	<1.96E-05	<1.48E-05	<1.50E-05
T-311		0.00316	<7.83E-05	0.00563	0.00042	0.00302	<2.64E-04	<4.05E-04	<2.36E-04	<2.36E-04	0.00060	<2.23E-04	<5.08E-04	<1.24E-04	<2.36E-04	<2.85E-04	<5.90E-04	0.00103	0.00031	<9.14E-05
T-312		0.00240	0.00138	0.05166	0.00061	0.00487	0.00204	<2.96E-04	0.00054	<1.69E-04	0.04757	<1.59E-04	0.00188	<9.07E-05	0.00041	<2.04E-04	0.00429	0.00119	0.00280	<6.69E-05
T-313		0.00226	<6.37E-05	0.00571	0.00038	0.00416	<2.10E-04	<3.22E-04	<1.88E-04	<1.88E-04	0.00102	<1.77E-04	<4.03E-04	<1.01E-04	<1.88E-04	<2.27E-04	<4.68E-04	0.00184	0.00060	<7.44E-05
T-314		0.00225	<6.50E-05	0.01023	0.00059	0.00552	0.01649	0.00105	0.00166	0.00038	0.00131	0.00074	<4.12E-04	0.00243	0.00094	0.01921	0.01909	0.00156	0.00356	<7.59E-05

Table 4.2b TO-15 Compounds (Flux in mg/m2-min for only compounds with at least one detect) (cont.).

Sample Number	Complound	Hexane	Ethyl acetate	Decane	Carbon disulfide	1,2-Dichloroethane	Octane	4-Ethyltoluene	trans-1,2-Dichloroethene	Trichloroethene (TCE)	1,2,4-Trimethylbenzene	Chloroform	1,3,5-Trimethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene chloride	Styrene	2-Hexanone	Chloromethane	t-Butyl alcohol	cis-1,2-Dichloroethene	1,1-Dichloroethane
	CAS	110-54-3	141-78-6	124-18-5	75-15-0	107-06-2	111-65-9	622-96-8	156-60-5	79-01-6	95-63-6	67-66-3	108-67-8	108-10-1	75-09-2	100-42-5	591-78-6	74-87-3	75-65-0	156-59-2	75-34-3
	MW	86.20	88.10	142.30	76.10	99.00	114.20	120.20	96.90	131.40	120.20	119.40	120.20	100.20	84.90	104.20	100.20	50.50	74.10	96.90	99.00
T-101		<6.44E-05	<6.58E-05	<2.13E-04	<5.69E-05	<3.70E-05	<8.53E-05	<1.80E-04	<3.62E-05	<2.46E-05	<1.80E-04	<4.46E-05	<1.80E-04	<7.49E-05	<3.17E-05	<1.17E-04	<7.49E-05	<5.66E-05	<5.54E-05	<3.62E-05	<3.70E-05
T-102		<7.11E-05	<7.27E-05	<2.38E-04	<6.28E-05	<4.18E-05	<9.42E-05	<2.01E-04	<4.10E-05	<2.64E-05	<2.01E-04	<5.05E-05	<2.01E-04	<8.27E-05	<3.59E-05	<1.30E-04	<8.27E-05	<6.30E-05	<6.12E-05	<4.10E-05	<4.18E-05
T-103		<1.09E-04	<1.12E-04	<3.61E-04	<9.65E-05	<6.28E-05	<1.45E-04	<3.05E-04	<6.15E-05	<4.17E-05	<3.05E-04	<7.57E-05	<3.05E-04	<1.27E-04	<5.38E-05	<1.98E-04	<1.27E-04	<9.61E-05	<9.40E-05	<6.15E-05	<6.28E-05
T-104		<7.04E-05	<7.19E-05	<2.30E-04	<6.21E-05	<4.04E-05	<9.32E-05	<1.94E-04	<3.96E-05	<2.68E-05	<1.94E-04	<4.87E-05	<1.94E-04	<8.18E-05	<3.47E-05	<1.28E-04	<8.18E-05	<6.18E-05	<6.05E-05	<3.96E-05	<4.04E-05
T-105		<1.04E-04	<1.06E-04	<3.43E-04	<9.17E-05	<6.11E-05	<1.38E-04	<2.90E-04	<5.98E-05	<3.86E-05	<2.90E-04	<7.37E-05	<2.90E-04	<1.21E-04	<5.24E-05	<1.90E-04	<1.21E-04	<9.20E-05	<8.93E-05	<5.98E-05	<5.82E-05
T-106		<1.85E-04	<1.89E-04	<6.12E-04	<1.64E-04	<1.09E-04	<2.45E-04	<5.17E-04	<1.07E-04	<6.89E-05	<5.17E-04	<1.31E-04	<5.17E-04	<2.15E-04	<9.34E-05	<3.39E-04	<2.15E-04	<1.64E-04	<1.59E-04	<1.07E-04	<1.04E-04
T-107		<6.93E-05	<7.08E-05	<2.29E-04	<6.12E-05	<4.08E-05	<9.18E-05	<1.93E-04	<3.99E-05	<2.58E-05	<1.93E-04	<4.92E-05	<1.93E-04	<8.05E-05	<3.49E-05	<1.27E-04	<8.05E-05	<6.14E-05	<5.96E-05	<3.99E-05	<3.88E-05
T-108		0.01956	<1.46E-04	<4.72E-04	<1.26E-04	<8.21E-05	0.00343	0.00141	<8.04E-05	<5.71E-05	0.00085	<9.90E-05	<3.99E-04	<1.66E-04	<7.04E-05	0.00071	<1.66E-04	<1.26E-04	<1.23E-04	<8.04E-05	<8.21E-05
T-109		<1.72E-04	<1.76E-04	0.00140	<1.52E-04	<1.01E-04	<2.28E-04	<4.85E-04	<9.89E-05	<6.71E-05	<4.85E-04	<1.22E-04	<4.85E-04	<2.00E-04	<8.67E-05	<3.14E-04	<2.00E-04	<1.52E-04	<1.48E-04	<9.89E-05	<1.01E-04
T-110		<1.08E-04	<1.11E-04	0.00111	<9.57E-05	<6.23E-05	0.00127	<3.06E-04	<6.09E-05	<4.33E-05	<3.06E-04	<7.51E-05	<3.06E-04	<1.26E-04	<5.34E-05	<2.00E-04	<1.26E-04	<9.68E-05	<9.32E-05	<6.09E-05	<6.23E-05
T-111		<6.08E-05	0.00680	<1.98E-04	<5.36E-05	<3.49E-05	<8.05E-05	<1.67E-04	<3.42E-05	<2.21E-05	<1.67E-04	<4.21E-05	<1.67E-04	0.00015	<2.99E-05	<1.10E-04	<7.06E-05	0.00012	<5.22E-05	<3.42E-05	<3.49E-05
T-112		<3.88E-05	0.00008	<1.30E-04	<3.43E-05	<2.28E-05	<5.15E-05	<1.10E-04	<2.24E-05	<1.44E-05	<1.10E-04	<2.76E-05	<1.10E-04	<4.51E-05	<1.96E-05	<7.10E-05	<4.51E-05	<3.44E-05	<3.34E-05	<2.24E-05	<2.28E-05
T-113		<1.04E-04	<1.06E-04	<3.42E-04	<9.15E-05	<6.10E-05	<1.37E-04	<2.89E-04	<5.97E-05	<3.85E-05	<2.89E-04	<7.35E-05	<2.89E-04	<1.20E-04	<5.23E-05	<1.89E-04	<1.20E-04	<9.18E-05	<8.91E-05	<5.97E-05	<5.81E-05
T-114		<5.69E-05	<5.82E-05	<1.90E-04	<5.02E-05	<3.27E-05	<7.54E-05	<1.61E-04	<3.20E-05	<2.27E-05	<1.61E-04	<3.94E-05	<1.61E-04	<6.61E-05	<2.80E-05	<1.05E-04	<6.61E-05	<5.08E-05	<4.89E-05	<3.20E-05	<3.27E-05
T-115		<3.86E-05	<3.95E-05	<1.29E-04	<3.41E-05	<2.22E-05	<5.11E-05	<1.09E-04	<2.17E-05	<1.54E-05	<1.09E-04	<2.67E-05	<1.09E-04	0.00011	<1.90E-05	<7.11E-05	0.00010	<3.45E-05	0.00007	<2.17E-05	<2.22E-05
T-116		<3.88E-05	<3.96E-05	<1.29E-04	0.00012	<2.27E-05	<5.13E-05	<1.09E-04	<2.22E-05	<1.45E-05	<1.09E-04	<2.74E-05	<1.09E-04	<4.51E-05	<1.95E-05	<7.08E-05	<4.51E-05	<3.43E-05	<3.33E-05	<2.22E-05	<2.27E-05
T-117		<3.45E-05	<3.53E-05	<1.13E-04	<3.05E-05	<1.98E-05	<4.57E-05	<9.51E-05	<1.94E-05	<1.25E-05	<9.51E-05	<2.39E-05	<9.51E-05	<4.01E-05	<1.70E-05	<6.26E-05	<4.01E-05	<3.03E-05	<2.97E-05	<1.94E-05	<1.98E-05
T-118		<2.90E-05	<2.96E-05	<9.58E-05	<2.56E-05	<1.67E-05	<3.84E-05	<8.09E-05	<1.63E-05	<1.16E-05	<8.09E-05	<2.01E-05	<8.09E-05	<3.37E-05	<1.43E-05	<5.26E-05	<3.37E-05	<2.55E-05	<2.49E-05	<1.63E-05	<1.67E-05
T-201		<1.06E-04	<1.09E-04	<3.56E-04	<9.40E-05	<6.11E-05	<1.41E-04	<3.01E-04	<5.98E-05	<4.06E-05	<3.01E-04	0.00021	<3.01E-04	<1.24E-04	<5.24E-05	<1.96E-04	<1.24E-04	<9.51E-05	<9.15E-05	<5.98E-05	<6.11E-05
T-202		<8.96E-05	<9.16E-05	<3.00E-04	<7.91E-05	<5.28E-05	<1.19E-04	<2.53E-04	<5.17E-05	<3.50E-05	<2.53E-04	<6.37E-05	<2.53E-04	<1.04E-04	<4.53E-05	<1.64E-04	<1.04E-04	<7.95E-05	<7.71E-05	<5.17E-05	<5.28E-05
T-203		0.00031	<5.61E-05	0.00140	<4.84E-05	0.00010	0.00068	0.00100	<3.08E-05	<2.09E-05	0.00031	<3.80E-05	0.00036	<6.38E-05	<2.70E-05	0.00024	<6.38E-05	<4.82E-05	<4.72E-05	0.00012	<3.15E-05
T-204		<3.26E-05	<3.33E-05	<1.09E-04	0.00006	<1.92E-05	<4.32E-05	<9.21E-05	<1.88E-05	<1.27E-05	<9.21E-05	<2.32E-05	<9.21E-05	<3.79E-05	<1.65E-05	<5.96E-05	<3.79E-05	<2.89E-05	<2.80E-05	<1.88E-05	<1.92E-05
T-205		<1.40E-04	<1.44E-04	<4.69E-04	<1.24E-04	<8.07E-05	<1.86E-04	<3.96E-04	<7.89E-05	<5.61E-05	<3.96E-04	<9.73E-05	<3.96E-04	<1.63E-04	<6.92E-05	<2.59E-04	<1.63E-04	<1.25E-04	<1.21E-04	<7.89E-05	<8.07E-05
T-206		0.00220	<1.04E-04	<3.41E-04	<9.02E-05	0.00554	<1.35E-04	<2.88E-04	0.00370	0.00185	<2.88E-04	<7.25E-05	<2.88E-04	<1.19E-04	0.00135	<1.87E-04	<1.19E-04	<9.05E-05	<8.78E-05	<5.88E-05	<6.01E-05
T-207		<1.40E-04	<1.43E-04	<4.57E-04	<1.24E-04	<8.05E-05	<1.86E-04	<3.86E-04	<7.87E-05	0.00031	<3.86E-04	<9.70E-05	<3.86E-04	0.00036	<6.90E-05	<2.54E-04	<1.63E-04	<1.23E-04	<1.20E-04	<7.87E-05	<8.05E-05
T-208		<1.69E-04	<1.73E-04	<5.58E-04	0.00055	<9.71E-05	<2.24E-04	<4.72E-04	<9.51E-05	0.00018	<4.72E-04	<1.17E-04	<4.72E-04	<1.97E-04	<8.33E-05	<3.07E-04	<1.97E-04	<1.49E-04	<1.45E-04	<9.51E-05	<9.71E-05
T-209		<4.22E-05	<4.31E-05	<1.41E-04	<3.73E-05	<2.48E-05	<5.59E-05	<1.19E-04	<2.43E-05	<1.65E-05	<1.19E-04	<2.99E-05	<1.19E-04	<4.91E-05	<2.13E-05	<7.71E-05	<4.91E-05	<3.74E-05	<3.63E-05	<2.43E-05	<2.48E-05
T-210		<6.77E-05	<6.91E-05	<2.26E-04	<5.97E-05	<3.88E-05	<8.96E-05	<1.91E-04	<3.80E-05	<2.70E-05	<1.91E-04	<4.69E-05	<1.91E-04	<7.86E-05	<3.33E-05	<1.25E-04	<7.86E-05	<6.04E-05	<5.82E-05	<3.80E-05	<3.88E-05
T-211		<3.67E-05	<3.76E-05	<1.21E-04	<3.24E-05	<2.16E-05	<4.87E-05	<1.02E-04	<2.11E-05	<1.43E-05	<1.02E-04	<2.60E-05	<1.02E-04	<4.27E-05	<1.85E-05	<6.71E-05	<4.27E-05	<3.25E-05	<3.16E-05	<2.11E-05	<2.06E-05
T-212		<3.99E-05	<4.08E-05	<1.32E-04	<3.53E-05	<2.34E-05	<5.29E-05	<1.11E-04	<2.29E-05	<1.49E-05	<1.11E-04	<2.83E-05	<1.11E-04	<4.64E-05	<2.01E-05	<7.30E-05	<4.64E-05	<3.54E-05	<3.43E-05	<2.29E-05	<2.24E-05
T-213		<4.11E-05	<4.20E-05	<1.37E-04	0.00132	<2.36E-05	<5.44E-05	<1.16E-04	<2.31E-05	<1.56E-05	<1.16E-04	<2.84E-05	<1.16E-04	<4.77E-05	<2.02E-05	<7.56E-05	<4.77E-05	<3.66E-05	<3.53E-05	<2.31E-05	<2.36E-05
T-214		<2.68E-05	<2.74E-05	<8.84E-05	<2.36E-05	<1.58E-05	<3.55E-05	<7.47E-05	<1.55E-05	<9.93E-06	<7.47E-05	<1.90E-05	<7.47E-05	<3.11E-05	<1.35E-05	<4.90E-05	<3.11E-05	<2.37E-05	<2.30E-05	<1.55E-05	<1.50E-05
T-215		<1.09E-04	<1.11E-04	<3.59E-04	0.00023	<6.39E-05	<1.44E-04	<3.03E-04	<6.26E-05	<4.24E-05	<3.03E-04	0.00143	<3.03E-04	<1.26E-04	<5.48E-05	<1.99E-04	<1.26E-04	<9.63E-05	<9.35E-05	<6.26E-05	<6.10E-05
T-216		<4.04E-05	<4.13E-05	<1.33E-04	<3.57E-05	<2.32E-05	<5.35E-05	<1.13E-04	<2.27E-05	<1.61E-05	<1.13E-04	<2.80E-05	<1.13E-04	<4.70E-05	<1.99E-05	<7.33E-05	<4.70E-05	<3.55E-05	<3.47E-05	<2.27E-05	<2.32E-05
T-217		<4.69E-05	<4.79E-05	<1.57E-04	<4.14E-05	<2.69E-05	<6.21E-05	<1.32E-04	<2.64E-05	<1.87E-05	<1.32E-04	<3.25E-05	<1.32E-04	<5.45E-05	<2.31E-05	<8.64E-05	<5.45E-05	<4.19E-05	<4.03E-05	<2.64E-05	<2.69E-05
T-218		0.00104	<5.86E-05	<1.92E-04	<5.06E-05	0.00011	<7.59E-05	<1.62E-04	<3.22E-05	0.00078	<1.62E-04	0.00049	<1.62E-04	<6.66E-05	<2.82E-05	<1.06E-04	<6.66E-05	<5.12E-05	<4.93E-05	<3.22E-05	0.00008
T-301		<5.17E-05	<5.28E-05	<1.69E-04	<4.56E-05	<2.97E-05	<6.85E-05	<1.42E-04	<2.91E-05	<1.97E-05	<1.42E-04	<3.58E-05	<1.42E-04	<6.01E-05	<2.55E-05	<9.38E-05	<6.01E-05	<4.54E-05	<4.44E-05	<2.91E-05	<2.97E-05
T-302		<6.90E-05	<7.05E-05	<2.25E-04	<6.09E-05	<3.96E-05	<9.14E-05	<1.90E-04	<3.88E-05	<2.63E-05	<1.90E-04	<4.78E-05	<1.90E-04	<8.02E-05	<3.40E-05	<1.25E-04	<8.02E-05	<6.06E-05	<5.93E-05	<3.88E-05	<3.96E-05
T-303		<7.47E-05	<7.63E-05	<2.50E-04	<6.59E-05	<4.29E-05	<9.89E-05	<2.11E-04	<4.20E-05	<2.85E-05	<2.11E-04	<5.17E-05	<2.11E-04	<8.68E-05	<3.68E-05	<1.38E-04	<8.68E-05	<6.67E-05	<6.42E-05	<4.20E-05	<4.29E-05
T-304		<6.02E-05	<6.16E-05	<2.01E-04	<5.32E-05	<3.46E-05	<7.98E-05	<1.70E-04	<3.39E-05	<2.30E-05	<1.70E-04	<4.17E-05	<1.70E-04	<7.00E-05	<2.97E-05	<1.11E-04	<7.00E-05	<5.38E-05	<5.18E-05	<3.39E-05	<3.46E-05
T-305		0.00209	<9.99E-05	<3.19E-04	0.00040	0.00040	0.00055	<2.69E-04	<5.49E-05	0.00020	<2.69E-04	<6.77E-05	<2.69E-04	0.00041	<4.81E-05	<1.77E-04	<1.14E-04	<8.59E-05	<8.40E-05	<5.49E-05	<5.61E-05
T-306		<7.04E-05	<7.20E-05	<2.35E-04	<6.22E-05	<4.04E-05	<9.33E-05	<1.99E-04	<3.96E-05	<2.68E-05	<1.99E-04	0.00014	<1.99E-04	<8.19E-05	<3.47E-05	<1.30E-04	<8.19E-05	<6.29E-05	<6.05E-05	<3.96E-05	<4.04E-05
T-307		<7.39E-05	<7.56E-05	<2.41E-04	<6.53E-05	<4.14E-05	<9.79E-05	<2.04E-04	<4.05E-05	<2.75E-05	<2.04E-04	<5.00E-05	<2.04E-04	<8.59E-05	<3.55E-05	<1.33E-04	<8.59E-05	<6.44E-05	<6.36E-05	<4.05E-05	<4.14E-05
T-308		0.00038	<8.44E-05	<2.69E-04	<7.29E-05	<4.63E-05	<1.09E-04	<2.28E-04	<4.53E-05	<3.07E-05	<2.28E-04	<5.58E-05	<2.28E-04	<9.60E-05	<3.97E-05	<1.49E-04	<9.60E-05	<7.20E-05	<7.10E-05	<4.53E-05	<4.63E-05
T-309		<8.54E-05	<8.73E-05	<2.85E-04	0.00049	<4.90E-05	<1.13E-04	<2.41E-04	<4.80E-05	<3.25E-05	<2.41E-04	<5.91E-05	<2.41E-04	<9.93E-05	<4.20E-05	<1.57E-04	<9.93E-05	<7.63E-05	<7.34E-05	<4.80E-05	<4.90E-05
T-310		<3.01E-05	<3.07E-05	<9.93E-05	<2.66E-05	<1.77E-05	<3.99E-05	<8.39E-05	<1.73E-05	<1.17E-05	<8.39E-05	<2.13E-05	<8.39E-05	<3.50E-05	<1.52E-05	<5.50E-05	<3.50E-05	<2.66E-05	<2.59E-05	<1.73E-05	<1.69E-05
T-311		<1.92E-04	<1.96E-04	<6.26E-04	<1.69E-04	<1.08E-04	<2.54E-04	<5.28E-04	<1.05E-04	<7.48E-05	<5.28E-04	<1.30E-04	<5.28E-04	<2.23E-04	<9.22E-05	<3.45E-04	<2.23E-04	<1.67E-04	<1.65E-04	<1.05E-04	<1.08E-04
T-312		<1.37E-04	0.00659	<4.57E-04	<1.21E-04	0.00054	<1.81E-04	<3.86E-04	<7.69E-05	<5.22E-05	<3.86E-04	<9.48E-05	<3.86E-04	<1.59E-04	<6.74E-05	<2.52E-04	0.00041	<1.22E-04	<1.18E-04	<7.69E-05	<7.86E-05
T-313		<1.52E-04	<1.56E-04	<4.97E-04	<1.34E-04	<8.74E-05	<2.02E-04	<4.20E-04	<8.56E-05	<5.53E-05	<4.20E-04	<1.05E-04	<4.20E-04	0.00051	<7.50E-05	<2.76E-04	<1.77E-04	<1.34E-04	<1.31E-04	<8.56E-05	<8.74E-05
T-314		<1.55E-04	<1.59E-04	0.01496	<1.37E-04	<8.92E-05	<2.06E-04	0.00277	<8.73E-05	<5.64E-05	0.00318	<1.08E-04	0.00231	<1.81E-04	<7.65E-05	<2.82E-04	<1.81E-04	<1.37E-04	<1.34E-04	<8.73E-05	<8.92E-05

Table 4.3a TO-14 Compounds (Flux in mg/m2-min for only compounds with at least one detect).

Sample Number	Complound	Benzene	n-Butane	Propane	i-Pentane	Ethane	Ethene	n-Pentane	Propene	Cyclopentane	c-2-Pentene	1-Pentene	n-Heptane	Acetylene	Toluene	2,2,4-Trimethylpentane	2-Methylpentane	Methylcyclopentane	2,2-Dimethylbutane	Methylcyclohexane	n-Hexane
	CAS	71-43-2	106-97-8	74-98-6	78-78-4	74-84-0	74-85-1	109-66-0	115-07-1	287-92-3	627-20-3	109-67-1	142-82-5	74-86-2	108-88-3	540-84-1	107-83-5	96-37-7	75-83-2	108-87-2	110-54-3
	MW	78.1	58.1	44.1	72.2	30.1	28.1	72.1	42.1	70.1	70.1	70.1	100.2	26	92.1	114.2	86.2	84.2	86.2	98.2	86.2
T-101		0.00022	<6.54E-05	0.00031	<6.50E-05	0.00056	<6.32E-05	<6.49E-05	0.00032	<6.31E-05	<6.31E-05	<6.31E-05	<6.44E-05	<5.85E-05	<5.92E-05	<6.43E-05	<6.47E-05	<6.32E-05	<6.47E-05	<6.32E-05	<6.47E-05
T-102		0.00023	0.00025	0.00049	<7.23E-05	0.00040	0.00043	<7.22E-05	<7.03E-05	<7.02E-05	<7.02E-05	<7.02E-05	<7.17E-05	<6.51E-05	0.00043	<7.15E-05	<7.19E-05	<7.03E-05	<7.19E-05	<7.02E-05	0.00015
T-103		<9.87E-05	<1.10E-04	0.00062	<1.09E-04	0.00036	<1.06E-04	0.00040	<1.06E-04	<1.06E-04	<1.06E-04	<1.06E-04	<1.08E-04	<9.85E-05	<9.97E-05	<1.08E-04	<1.09E-04	<1.06E-04	<1.09E-04	<1.06E-04	0.00023
T-104		<6.33E-05	0.00045	0.00046	<7.02E-05	0.00074	<6.83E-05	<7.01E-05	<6.82E-05	<6.82E-05	<6.82E-05	<6.82E-05	<6.96E-05	<6.32E-05	<6.40E-05	<6.94E-05	<6.98E-05	<6.82E-05	<6.98E-05	<6.82E-05	<6.98E-05
T-105		0.00305	<1.05E-04	0.00051	<1.04E-04	0.00080	<1.01E-04	<1.04E-04	<1.01E-04	<1.01E-04	<1.01E-04	<1.01E-04	0.00055	<9.37E-05	0.00110	<1.03E-04	<1.04E-04	<1.01E-04	<1.04E-04	<1.01E-04	<1.04E-04
T-106		0.00157	<1.87E-04	0.00050	<1.86E-04	0.00126	<1.80E-04	<1.85E-04	<1.80E-04	<1.80E-04	<1.80E-04	<1.80E-04	<1.84E-04	<1.67E-04	<1.69E-04	<1.83E-04	<1.85E-04	<1.80E-04	<1.85E-04	<1.80E-04	<1.85E-04
T-107		0.00129	<7.02E-05	0.00023	<6.98E-05	0.00046	<6.79E-05	<6.97E-05	<6.79E-05	<6.78E-05	<6.78E-05	<6.78E-05	<6.92E-05	<6.29E-05	0.00035	<6.90E-05	<6.95E-05	<6.79E-05	<6.95E-05	<6.78E-05	<6.95E-05
T-108		6.27525	0.44829	0.01338	0.17057	0.13041	0.11096	0.13554	0.03006	0.06245	0.16091	0.12292	0.13648	0.02281	0.03994	0.07571	0.05393	0.06929	0.01611	0.04610	0.05414
T-109		0.01906	0.00146	0.00087	<1.74E-04	0.00080	<1.69E-04	<1.74E-04	<1.69E-04	<1.69E-04	<1.69E-04	0.00042	<1.72E-04	<1.57E-04	0.00530	<1.72E-04	<1.73E-04	0.00255	<1.73E-04	0.00129	<1.73E-04
T-110		0.02686	0.00059	0.00109	<1.10E-04	0.00083	0.00032	<1.10E-04	<1.07E-04	<1.07E-04	<1.07E-04	0.00079	<1.09E-04	<9.92E-05	0.00689	<1.09E-04	<1.10E-04	<1.07E-04	<1.10E-04	0.00084	<1.10E-04
T-111		0.00359	0.00055	0.00033	0.00141	0.00026	<5.89E-05	<6.05E-05	0.00030	<5.88E-05	<5.88E-05	<5.88E-05	0.00024	<5.45E-05	0.00087	<5.99E-05	0.00020	<5.89E-05	<6.03E-05	<5.88E-05	<6.03E-05
T-112		0.00206	<3.94E-05	0.00054	0.00159	0.00020	0.00010	0.00363	0.00172	0.00008	0.00036	<3.81E-05	0.00027	<3.53E-05	0.00041	<3.88E-05	0.00035	0.00022	<3.90E-05	0.00075	0.00009
T-113		0.00230	0.00039	0.00078	<1.05E-04	0.00116	<1.02E-04	0.00026	0.00036	<1.01E-04	<1.01E-04	<1.01E-04	<1.04E-04	<9.41E-05	0.00026	<1.03E-04	<1.04E-04	0.00023	<1.04E-04	<1.02E-04	<1.04E-04
T-114		0.00380	<5.78E-05	0.00017	<5.75E-05	0.00063	<5.59E-05	0.00018	<5.59E-05	<5.58E-05	<5.58E-05	<5.58E-05	<5.70E-05	<5.18E-05	0.00110	<5.68E-05	<5.72E-05	0.00053	<5.72E-05	0.00044	<5.72E-05
T-115		0.00045	<3.92E-05	<3.97E-05	<3.90E-05	0.00015	<3.79E-05	<3.89E-05	0.00009	<3.78E-05	<3.78E-05	<3.78E-05	<3.86E-05	<3.51E-05	<3.55E-05	<3.85E-05	<3.88E-05	<3.79E-05	<3.88E-05	<3.79E-05	<3.88E-05
T-116		0.00009	<3.94E-05	0.00010	<3.92E-05	0.00027	<3.81E-05	<3.91E-05	<3.81E-05	<3.81E-05	<3.81E-05	<3.81E-05	<3.89E-05	<3.53E-05	<3.57E-05	<3.87E-05	<3.90E-05	<3.81E-05	<3.90E-05	<3.81E-05	<3.90E-05
T-117		<3.09E-05	<3.45E-05	<3.49E-05	<3.43E-05	0.00014	<3.34E-05	<3.42E-05	<3.33E-05	<3.33E-05	<3.33E-05	<3.33E-05	<3.40E-05	<3.09E-05	<3.12E-05	<3.39E-05	<3.41E-05	<3.33E-05	<3.41E-05	<3.33E-05	<3.41E-05
T-118		<2.62E-05	<2.93E-05	<2.96E-05	<2.91E-05	<3.03E-05	<2.83E-05	<2.91E-05	<2.83E-05	<2.83E-05	<2.83E-05	<2.83E-05	<2.88E-05	<2.62E-05	<2.65E-05	<2.88E-05	<2.90E-05	<2.83E-05	<2.90E-05	<2.83E-05	<2.90E-05
T-201		0.00033	<1.09E-04	0.00116	0.00038	0.00122	<1.05E-04	0.00026	<1.05E-04	<1.05E-04	<1.05E-04	0.00058	<1.07E-04	<9.73E-05	<9.85E-05	<1.07E-04	<1.08E-04	<1.05E-04	<1.08E-04	<1.05E-04	<1.08E-04
T-202		0.00020	0.00112	0.00193	0.00028	0.00141	0.00022	0.00024	0.00043	<8.83E-05	<8.83E-05	<8.83E-05	<9.02E-05	<8.19E-05	<8.29E-05	<8.99E-05	<9.05E-05	<8.84E-05	<9.05E-05	<8.84E-05	<9.05E-05
T-203		0.00168	0.02431	0.02629	0.00134	0.00678	0.00338	0.00122	0.01984	0.00031	0.00021	0.00127	0.00063	0.00438	0.00933	0.00053	0.00046	0.00011	0.00019	0.00088	0.00061
T-204		<2.97E-05	0.00376	0.00337	0.00019	0.00226	0.00010	0.00011	0.00319	0.00035	<3.20E-05	0.00011	<3.27E-05	<2.97E-05	<3.00E-05	0.00013	0.00025	<3.20E-05	0.00021	0.00015	0.00014
T-205		<1.28E-04	<1.43E-04	0.00117	0.00156	0.00144	0.00038	<1.42E-04	0.00031	0.00031	<1.38E-04	0.00028	<1.41E-04	<1.28E-04	0.00065	0.00035	<1.41E-04	<1.38E-04	0.00047	<1.38E-04	<1.41E-04
T-206		0.00087	0.09090	0.09120	0.16533	0.00450	0.00269	0.03682	0.01369	0.06165	0.00074	<1.01E-04	0.00052	<9.35E-05	0.00198	0.01587	0.01070	0.00104	0.01064	0.01203	0.00416
T-207		0.00153	0.00082	0.00192	0.00700	0.00156	0.00046	0.00040	0.00067	0.00076	<1.35E-04	0.00029	<1.38E-04	<1.25E-04	0.00162	0.00186	<1.39E-04	<1.35E-04	0.00082	0.00052	<1.39E-04
T-208		0.00054	0.00125	0.00179	0.02854	0.00163	0.00040	0.00049	0.00075	0.00487	<1.64E-04	0.00050	<1.68E-04	<1.52E-04	0.00046	<1.67E-04	0.00122	<1.65E-04	0.00242	0.00157	<1.69E-04
T-209		0.00012	<4.30E-05	<4.35E-05	<4.28E-05	0.00013	0.00011	<4.27E-05	<4.16E-05	<4.15E-05	<4.15E-05	<4.15E-05	<4.24E-05	<3.85E-05	<3.90E-05	<4.23E-05	<4.25E-05	<4.16E-05	<4.25E-05	<4.15E-05	<4.25E-05
T-210		0.00032	<6.89E-05	0.00018	<6.85E-05	0.00029	<6.66E-05	<6.84E-05	<6.66E-05	<6.65E-05	<6.65E-05	<6.65E-05	<6.79E-05	<6.17E-05	<6.24E-05	<6.77E-05	<6.81E-05	<6.66E-05	<6.81E-05	<6.65E-05	<6.81E-05
T-211		0.00007	<3.70E-05	<3.75E-05	<3.68E-05	0.00009	<3.58E-05	<3.68E-05	<3.58E-05	<3.57E-05	<3.57E-05	<3.57E-05	<3.65E-05	<3.31E-05	<3.35E-05	<3.64E-05	<3.66E-05	<3.58E-05	<3.66E-05	<3.58E-05	<3.66E-05
T-212		0.00007	<4.05E-05	<4.10E-05	<4.03E-05	<4.20E-05	<3.92E-05	<4.02E-05	<3.91E-05	<3.91E-05	<3.91E-05	<3.91E-05	<3.99E-05	<3.62E-05	<3.67E-05	<3.98E-05	<4.00E-05	<3.91E-05	<4.00E-05	<3.91E-05	<4.00E-05
T-213		0.00011	<4.20E-05	<4.25E-05	<4.17E-05	0.00013	<4.06E-05	<4.17E-05	<4.06E-05	<4.05E-05	<4.05E-05	<4.05E-05	<4.14E-05	<3.76E-05	<3.80E-05	<4.13E-05	<4.15E-05	<4.06E-05	<4.15E-05	<4.05E-05	<4.15E-05
T-214		<2.43E-05	<2.71E-05	<2.75E-05	<2.70E-05	<2.81E-05	<2.63E-05	<2.69E-05	<2.62E-05	<2.62E-05	<2.62E-05	<2.62E-05	<2.67E-05	<2.43E-05	<2.46E-05	<2.67E-05	<2.68E-05	<2.62E-05	<2.68E-05	<2.62E-05	<2.68E-05
T-215		0.00029	<1.10E-04	0.00047	<1.09E-04	0.00053	0.00036	<1.09E-04	<1.06E-04	0.00022	<1.06E-04	<1.06E-04	<1.08E-04	<9.85E-05	<9.97E-05	<1.08E-04	<1.09E-04	<1.06E-04	<1.09E-04	<1.06E-04	<1.09E-04
T-216		<3.67E-05	0.00015	<4.14E-05	<4.07E-05	0.00015	<3.96E-05	<4.06E-05	<3.96E-05	0.00009	<3.95E-05	<3.95E-05	<4.04E-05	<3.66E-05	<3.71E-05	<4.02E-05	<4.05E-05	<3.96E-05	<4.05E-05	<3.95E-05	<4.05E-05
T-217		0.00013	<4.78E-05	0.00018	<4.75E-05	0.00019	<4.63E-05	<4.75E-05	<4.62E-05	<4.62E-05	<4.62E-05	<4.62E-05	<4.71E-05	<4.28E-05	<4.33E-05	<4.70E-05	<4.73E-05	<4.62E-05	<4.73E-05	<4.62E-05	<4.73E-05
T-218		0.00073	0.19319	0.20371	0.07388	0.02495	<5.64E-05	0.01487	<5.63E-05	0.00237	0.00015	<5.63E-05	<5.74E-05	<5.22E-05	<5.28E-05	0.00358	0.00287	<5.63E-05	0.01353	0.00032	0.00101
T-301		<4.65E-05	<5.19E-05	0.00014	<5.16E-05	0.00024	<5.02E-05	<5.15E-05	<5.01E-05	0.00011	<5.01E-05	<5.01E-05	<5.11E-05	<4.64E-05	<4.70E-05	<5.10E-05	<5.13E-05	<5.01E-05	<5.13E-05	<5.01E-05	<5.13E-05
T-302		<6.19E-05	<6.90E-05	0.00029	<6.86E-05	0.00053	<6.68E-05	<6.85E-05	<6.67E-05	<6.66E-05	<6.66E-05	<6.66E-05	<6.80E-05	<6.18E-05	<6.25E-05	<6.78E-05	<6.83E-05	<6.67E-05	<6.83E-05	<6.67E-05	<6.83E-05
T-303		0.00019	<7.59E-05	0.00028	<7.54E-05	0.00066	0.00017	0.00070	<7.33E-05	<7.32E-05	<7.32E-05	<7.32E-05	<7.48E-05	<6.79E-05	<6.87E-05	<7.46E-05	<7.51E-05	<7.33E-05	<7.51E-05	<7.33E-05	<7.51E-05
T-304		0.00019	0.00092	0.00160	0.00049	0.00097	0.00063	0.00035	0.00225	<5.91E-05	<5.91E-05	<5.91E-05	<6.03E-05	<5.48E-05	0.00020	0.00014	<6.05E-05	<5.91E-05	<6.05E-05	0.00027	<6.05E-05
T-305		0.00100	0.03040	0.08561	0.02292	0.00257	0.00239	0.00909	0.00950	0.00181	<9.30E-05	0.00316	0.00475	<8.62E-05	0.00248	0.00496	0.00291	0.00082	0.00272	0.00393	0.00317
T-306		0.00016	<7.18E-05	0.00059	<7.14E-05	0.00074	0.00052	0.00043	0.00026	<6.93E-05	<6.93E-05	<6.93E-05	<7.08E-05	<6.43E-05	<6.51E-05	<7.06E-05	<7.10E-05	<6.94E-05	<7.10E-05	<6.94E-05	<7.10E-05
T-307		0.00233	<7.41E-05	0.00038	<7.37E-05	0.00066	<7.17E-05	<7.36E-05	<7.16E-05	<7.15E-05	<7.15E-05	<7.15E-05	<7.30E-05	<6.63E-05	<6.71E-05	<7.28E-05	<7.33E-05	<7.16E-05	<7.33E-05	<7.16E-05	<7.33E-05
T-308		<7.42E-05	0.00231	0.00239	0.00089	0.00066	0.00021	0.00056	0.00021	0.00117	<8.00E-05	0.00030	<8.16E-05	<7.41E-05	<7.50E-05	<8.14E-05	<8.19E-05	<8.00E-05	<8.19E-05	<8.00E-05	<8.19E-05
T-309		<7.79E-05	0.00122	0.00167	0.00053	0.00075	<8.41E-05	<8.63E-05	<8.40E-05	0.00086	<8.39E-05	<8.39E-05	<8.56E-05	<7.78E-05	<7.87E-05	<8.54E-05	<8.60E-05	<8.40E-05	0.00019	<8.39E-05	<8.60E-05
T-310		<2.72E-05	<3.04E-05	<3.07E-05	<3.02E-05	<3.14E-05	<2.94E-05	<3.01E-05	<2.93E-05	<2.93E-05	<2.93E-05	<2.93E-05	<2.99E-05	<2.72E-05	<2.75E-05	<2.98E-05	<3.00E-05	<2.93E-05	<3.00E-05	<2.93E-05	<3.00E-05
T-311		<1.73E-04	<1.93E-04	<1.95E-04	<1.92E-04	<2.00E-04	<1.87E-04	<1.91E-04	0.00101	0.00058	<1.86E-04	<1.86E-04	<1.90E-04	<1.73E-04	<1.75E-04	<1.90E-04	<1.91E-04	<1.86E-04	<1.91E-04	<1.86E-04	<1.91E-04
T-312		0.00032	0.00168	<1.41E-04	0.00189	<1.44E-04	0.00068	0.00052	0.00180	0.00096	<1.34E-04	<1.34E-04	<1.37E-04	<1.24E-04	0.00132	0.00080	0.00051	0.00050	0.00103	<1.34E-04	0.00059
T-313		0.00055	<1.53E-04	0.00069	<1.52E-04	0.00108	0.00030	0.00048	<1.48E-04	<1.48E-04	<1.48E-04	<1.48E-04	<1.51E-04	<1.37E-04	<1.39E-04	<1.51E-04	<1.52E-04	<1.48E-04	<1.52E-04	<1.48E-04	<1.52E-04
T-314		0.00048	<1.56E-04	0.00100	0.00205	0.00103	<1.51E-04	<1.55E-04	0.00088	0.00144	<1.50E-04	<1.50E-04	<1.54E-04	<1.39E-04	0.00247	0.00358	0.00070	<1.51E-04	0.00150	0.00087	<1.54E-04

Table 4.3b TO-14 Compounds (Flux in mg/m2-min for only compounds with at least one detect).

Sample Number	Complound	3-Methylpentane	3-Methylcyclopentene	m,p-xylene	2,4-Dimethylpentane	t-2-Butene	n-Nonane	Ethylbenzene	o-xylene	Cyclohexane	3-Methylhexane	2-Methylhexane	2,3-Dimethylpentane	t-2-Pentene	2,4-Dimethylhexane	n-Decane	2,3-Dimethylbutane	n-Octane
	CAS	96-14-0	1120-62-3	108-38-3	108-08-7	624-64-6	111-84-2	100-41-4	95-47-6	110-82-7	589-34-4	591-76-4	565-59-3	646-04-8	589-43-5	124-18-5	79-29-8	111-65-9
	MW	86.2	82.1	106.2	100.2	56.1	128.3	106.2	106.2	84.2	100.2	100.2	100.2	70.1	114.2	142.3	86.2	114.2
T-101		<6.47E-05	<6.16E-05	<5.98E-05	<6.44E-05	<6.31E-05	<6.42E-05	<5.98E-05	<5.98E-05	<6.32E-05	<6.44E-05	<6.44E-05	<6.44E-05	<6.31E-05	<6.43E-05	<6.41E-05	<6.47E-05	<6.43E-05
T-102		<7.19E-05	<6.85E-05	0.00028	<7.17E-05	<7.02E-05	<7.14E-05	0.00100	0.00040	0.00142	<7.17E-05	<7.17E-05	<7.17E-05	0.00032	<7.15E-05	0.00026	<7.19E-05	<7.15E-05
T-103		<1.09E-04	<1.04E-04	<1.01E-04	<1.08E-04	0.00030	<1.08E-04	<1.01E-04	<1.01E-04	<1.06E-04	<1.08E-04	<1.08E-04	<1.08E-04	0.00038	<1.08E-04	<1.08E-04	<1.09E-04	<1.08E-04
T-104		<6.98E-05	<6.65E-05	0.00167	0.00019	<6.82E-05	0.00035	0.00030	0.00041	<6.82E-05	<6.96E-05	<6.96E-05	<6.96E-05	<6.82E-05	<6.94E-05	<6.92E-05	<6.98E-05	0.00039
T-105		0.00032	<9.87E-05	0.00135	<1.03E-04	<1.01E-04	0.00031	0.00061	0.00044	<1.01E-04	<1.03E-04	<1.03E-04	<1.03E-04	0.00037	<1.03E-04	0.00082	<1.04E-04	0.00036
T-106		<1.85E-04	<1.76E-04	<1.71E-04	<1.84E-04	<1.80E-04	<1.83E-04	<1.71E-04	<1.71E-04	<1.80E-04	<1.84E-04	<1.84E-04	<1.84E-04	<1.80E-04	<1.83E-04	<1.83E-04	<1.85E-04	<1.83E-04
T-107		<6.95E-05	<6.62E-05	0.00035	<6.92E-05	<6.78E-05	<6.89E-05	0.00015	<6.42E-05	<6.79E-05	<6.92E-05	<6.92E-05	<6.92E-05	<6.78E-05	<6.90E-05	<6.88E-05	<6.95E-05	<6.90E-05
T-108		0.03793	0.06218	0.01134	0.05380	0.02354	0.00894	0.01716	0.00542	<1.40E-04	0.00534	0.01611	0.01096	<1.40E-04	0.01106	<1.42E-04	0.01479	0.00803
T-109		<1.73E-04	<1.65E-04	0.00641	<1.72E-04	<1.69E-04	<1.72E-04	0.00350	0.00371	0.00037	0.00071	<1.72E-04	<1.72E-04	0.00209	0.00042	<1.71E-04	<1.73E-04	<1.72E-04
T-110		0.00050	<1.04E-04	0.00736	<1.09E-04	<1.07E-04	<1.09E-04	0.00366	0.00299	<1.07E-04	0.00066	0.00037	<1.09E-04	0.00318	0.00038	<1.09E-04	<1.10E-04	<1.09E-04
T-111		<6.03E-05	<5.74E-05	0.00077	0.00091	<5.88E-05	0.00019	0.00036	0.00032	<5.89E-05	0.00071	<6.00E-05	0.00044	<5.88E-05	<5.99E-05	<5.97E-05	<6.03E-05	0.00027
T-112		0.00023	<3.71E-05	0.00025	0.00017	<3.81E-05	<3.87E-05	0.00088	0.00027	0.00012	<3.89E-05	0.00013	<3.89E-05	<3.81E-05	0.00064	<3.86E-05	<3.90E-05	<3.88E-05
T-113		<1.04E-04	<9.91E-05	<9.61E-05	<1.04E-04	<1.02E-04	<1.03E-04	<9.61E-05	<9.61E-05	<1.02E-04	<1.04E-04	0.00045	<1.04E-04	<1.01E-04	<1.03E-04	0.00028	<1.04E-04	<1.03E-04
T-114		<5.72E-05	<5.45E-05	0.00160	<5.70E-05	<5.58E-05	0.00122	0.00080	0.00094	0.00012	0.00015	<5.70E-05	<5.70E-05	0.00023	0.00012	<5.67E-05	<5.72E-05	0.00158
T-115		<3.88E-05	<3.69E-05	<3.58E-05	<3.86E-05	<3.79E-05	<3.85E-05	<3.58E-05	<3.58E-05	<3.79E-05	<3.86E-05	<3.86E-05	<3.86E-05	<3.78E-05	<3.85E-05	<3.84E-05	<3.88E-05	0.00009
T-116		<3.90E-05	<3.71E-05	<3.60E-05	<3.89E-05	<3.81E-05	<3.87E-05	<3.60E-05	<3.60E-05	<3.81E-05	<3.89E-05	<3.89E-05	<3.89E-05	<3.81E-05	<3.87E-05	<3.86E-05	<3.90E-05	<3.87E-05
T-117		<3.41E-05	<3.25E-05	<3.15E-05	<3.40E-05	<3.33E-05	<3.39E-05	<3.15E-05	<3.15E-05	<3.33E-05	<3.40E-05	<3.40E-05	<3.40E-05	<3.33E-05	<3.39E-05	<3.38E-05	<3.41E-05	<3.39E-05
T-118		<2.90E-05	<2.76E-05	<2.68E-05	<2.88E-05	<2.83E-05	<2.87E-05	<2.68E-05	<2.68E-05	<2.83E-05	<2.88E-05	<2.88E-05	<2.88E-05	<2.83E-05	<2.88E-05	<2.87E-05	<2.90E-05	<2.88E-05
T-201		<1.08E-04	<1.02E-04	<9.94E-05	<1.07E-04	<1.05E-04	<1.07E-04	<9.94E-05	<9.94E-05	<1.05E-04	<1.07E-04	<1.07E-04	<1.07E-04	<1.05E-04	<1.07E-04	<1.07E-04	<1.08E-04	<1.07E-04
T-202		<9.05E-05	<8.62E-05	<8.36E-05	<9.02E-05	<8.84E-05	<8.98E-05	<8.36E-05	<8.36E-05	<8.84E-05	<9.02E-05	<9.02E-05	<9.02E-05	<8.83E-05	<8.99E-05	<8.97E-05	<9.05E-05	<8.99E-05
T-203		0.00030	0.00029	0.01370	0.00036	0.00021	0.00507	0.00378	0.00761	<5.34E-05	0.00061	0.00038	0.00026	0.00063	0.00033	0.00358	<5.47E-05	0.00120
T-204		0.00014	<3.12E-05	0.00009	0.00011	<3.20E-05	0.00010	<3.03E-05	<3.03E-05	0.00007	0.00014	0.00045	0.00010	0.00014	<3.26E-05	<3.25E-05	0.00024	<3.26E-05
T-205		<1.41E-04	<1.35E-04	<1.30E-04	<1.41E-04	<1.38E-04	<1.40E-04	<1.30E-04	<1.30E-04	<1.38E-04	<1.41E-04	<1.41E-04	<1.41E-04	<1.38E-04	<1.40E-04	<1.40E-04	<1.41E-04	<1.40E-04
T-206		0.00761	0.00135	0.00095	0.00818	0.00081	<1.03E-04	<9.55E-05	0.00218	0.01192	0.01130	0.00651	0.00785	0.00311	0.00361	<1.02E-04	<1.03E-04	<1.03E-04
T-207		<1.39E-04	<1.32E-04	<1.28E-04	<1.38E-04	<1.35E-04	0.00057	<1.28E-04	0.00027	0.00085	<1.38E-04	<1.38E-04	0.00044	<1.35E-04	<1.38E-04	<1.37E-04	<1.39E-04	<1.38E-04
T-208		0.00100	<1.60E-04	<1.56E-04	<1.68E-04	0.00045	<1.67E-04	<1.56E-04	<1.56E-04	<1.65E-04	0.00095	<1.68E-04	0.00304	<1.64E-04	0.00104	<1.67E-04	<1.69E-04	<1.67E-04
T-209		<4.25E-05	<4.05E-05	<3.93E-05	<4.24E-05	<4.15E-05	<4.22E-05	<3.93E-05	<3.93E-05	<4.16E-05	<4.24E-05	<4.24E-05	<4.24E-05	<4.15E-05	<4.23E-05	<4.21E-05	<4.25E-05	<4.23E-05
T-210		<6.81E-05	<6.49E-05	<6.30E-05	<6.79E-05	<6.65E-05	<6.76E-05	<6.30E-05	<6.30E-05	<6.66E-05	<6.79E-05	<6.79E-05	<6.79E-05	<6.65E-05	<6.77E-05	<6.75E-05	<6.81E-05	<6.77E-05
T-211		<3.66E-05	<3.49E-05	<3.39E-05	<3.65E-05	<3.58E-05	<3.64E-05	<3.39E-05	<3.39E-05	<3.58E-05	<3.65E-05	<3.65E-05	<3.65E-05	<3.57E-05	<3.64E-05	<3.63E-05	<3.66E-05	<3.64E-05
T-212		<4.00E-05	<3.81E-05	<3.70E-05	<3.99E-05	0.00021	<3.97E-05	<3.70E-05	<3.70E-05	<3.91E-05	<3.99E-05	<3.99E-05	<3.99E-05	<3.91E-05	<3.98E-05	<3.97E-05	<4.00E-05	<3.98E-05
T-213		<4.15E-05	<3.95E-05	<3.84E-05	<4.14E-05	<4.05E-05	<4.12E-05	<3.84E-05	<3.84E-05	<4.06E-05	<4.14E-05	<4.14E-05	<4.14E-05	<4.05E-05	<4.13E-05	<4.11E-05	<4.15E-05	<4.13E-05
T-214		<2.68E-05	<2.56E-05	<2.48E-05	<2.67E-05	<2.62E-05	<2.66E-05	<2.48E-05	<2.48E-05	<2.62E-05	<2.67E-05	<2.67E-05	<2.67E-05	<2.62E-05	<2.67E-05	<2.66E-05	<2.68E-05	<2.67E-05
T-215		0.00123	<1.04E-04	<1.01E-04	<1.08E-04	<1.06E-04	<1.08E-04	<1.01E-04	<1.01E-04	<1.06E-04	<1.08E-04	<1.08E-04	<1.08E-04	<1.06E-04	<1.08E-04	<1.08E-04	<1.09E-04	<1.08E-04
T-216		<4.05E-05	<3.86E-05	<3.74E-05	<4.04E-05	<3.95E-05	<4.02E-05	<3.74E-05	<3.74E-05	<3.96E-05	<4.04E-05	<4.04E-05	<4.04E-05	<3.95E-05	<4.02E-05	<4.01E-05	<4.05E-05	<4.02E-05
T-217		0.00028	<4.51E-05	<4.37E-05	<4.71E-05	<4.62E-05	<4.69E-05	<4.37E-05	<4.37E-05	<4.62E-05	<4.71E-05	<4.71E-05	<4.71E-05	<4.62E-05	<4.70E-05	<4.69E-05	<4.73E-05	<4.70E-05
T-218		0.00144	<5.49E-05	<5.33E-05	0.00064	0.00034	<5.72E-05	<5.33E-05	<5.33E-05	0.00139	0.00082	0.00055	0.00114	0.00079	0.00040	<5.71E-05	<5.77E-05	<5.73E-05
T-301		<5.13E-05	<4.89E-05	<4.74E-05	<5.11E-05	<5.01E-05	<5.09E-05	<4.74E-05	<4.74E-05	<5.01E-05	<5.11E-05	<5.11E-05	<5.11E-05	<5.01E-05	<5.10E-05	<5.08E-05	<5.13E-05	<5.10E-05
T-302		0.00019	<6.50E-05	<6.31E-05	<6.80E-05	<6.67E-05	<6.77E-05	<6.31E-05	<6.31E-05	<6.67E-05	<6.80E-05	<6.80E-05	<6.80E-05	<6.66E-05	<6.78E-05	<6.76E-05	<6.83E-05	<6.78E-05
T-303		0.00029	<7.15E-05	<6.93E-05	<7.48E-05	<7.33E-05	<7.45E-05	<6.93E-05	<6.93E-05	<7.33E-05	<7.48E-05	<7.48E-05	<7.48E-05	<7.32E-05	<7.46E-05	<7.43E-05	<7.51E-05	<7.46E-05
T-304		<6.05E-05	<5.77E-05	<5.59E-05	<6.03E-05	<5.91E-05	<6.01E-05	<5.59E-05	0.00016	0.00017	0.00023	0.00012	<6.03E-05	<5.91E-05	<6.02E-05	<6.00E-05	<6.05E-05	0.00014
T-305		0.00552	0.00059	0.00296	0.00248	<9.30E-05	<9.46E-05	0.00067	0.00065	0.00546	0.00593	0.00347	0.00324	0.00113	0.00186	<9.44E-05	<9.53E-05	0.00104
T-306		0.00023	<6.77E-05	<6.56E-05	<7.08E-05	<6.94E-05	<7.05E-05	<6.56E-05	<6.56E-05	<6.94E-05	<7.08E-05	<7.08E-05	<7.08E-05	<6.93E-05	<7.06E-05	<7.04E-05	<7.10E-05	<7.06E-05
T-307		<7.33E-05	<6.98E-05	<6.77E-05	<7.30E-05	<7.16E-05	<7.27E-05	<6.77E-05	<6.77E-05	<7.16E-05	<7.30E-05	<7.30E-05	<7.30E-05	<7.15E-05	<7.28E-05	<7.26E-05	<7.33E-05	<7.28E-05
T-308		<8.19E-05	<7.80E-05	<7.57E-05	<8.16E-05	<8.00E-05	<8.13E-05	<7.57E-05	<7.57E-05	<8.00E-05	<8.16E-05	<8.16E-05	<8.16E-05	<8.00E-05	<8.14E-05	<8.12E-05	<8.19E-05	<8.14E-05
T-309		<8.60E-05	<8.19E-05	<7.94E-05	<8.56E-05	<8.39E-05	<8.53E-05	<7.94E-05	<7.94E-05	<8.40E-05	<8.56E-05	<8.56E-05	<8.56E-05	<8.39E-05	<8.54E-05	<8.51E-05	<8.60E-05	<8.54E-05
T-310		<3.00E-05	<2.86E-05	<2.77E-05	<2.99E-05	<2.93E-05	<2.98E-05	<2.77E-05	<2.77E-05	<2.93E-05	<2.99E-05	<2.99E-05	<2.99E-05	<2.93E-05	<2.98E-05	<2.97E-05	<3.00E-05	<2.98E-05
T-311		<1.91E-04	<1.82E-04	<1.76E-04	<1.90E-04	<1.86E-04	<1.89E-04	<1.76E-04	<1.76E-04	<1.86E-04	<1.90E-04	<1.90E-04	<1.90E-04	<1.86E-04	<1.90E-04	<1.89E-04	<1.91E-04	<1.90E-04
T-312		<1.37E-04	<1.31E-04	0.00133	<1.37E-04	<1.34E-04	<1.36E-04	<1.27E-04	0.00099	<1.34E-04	0.00068	<1.37E-04	<1.37E-04	<1.34E-04	<1.37E-04	<1.36E-04	<1.37E-04	<1.37E-04
T-313		<1.52E-04	<1.44E-04	<1.40E-04	<1.51E-04	<1.48E-04	<1.50E-04	<1.40E-04	<1.40E-04	<1.48E-04	0.00031	<1.51E-04	<1.51E-04	<1.48E-04	<1.51E-04	<1.50E-04	<1.52E-04	<1.51E-04
T-314		0.00132	<1.47E-04	0.00251	<1.54E-04	<1.50E-04	0.03280	0.00121	0.00234	0.00146	0.00047	0.00187	<1.54E-04	<1.50E-04	0.00121	0.01755	<1.54E-04	<1.53E-04

Table 4.3c TO-14 Compounds (Flux in ug/m2-min for only compounds with at least one detect).

Sample Number	Complound	2,3,4-Trimethylpentane	2-Methylheptane	3-Methylheptane	1-Butene	4-Methylheptane	2,3-Dimethylhexane	i-Butane	c-2-Butene	2,5-Dimethylhexane	i-Propylbenzene	4-Ethyltoluene	Styrene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3-Diethylbenzene	n-propylbenzene	1,4-Diethylbenzene
	CAS	565-75-3	592-27-8	589-81-1	106-98-9	589-53-7	584-94-1	75-28-5	590-18-1	592-13-2	98-82-8	622-96-8	100-42-5	108-67-8	95-63-6	141-93-5	103-65-1	105-05-5
	MW	114.2	114.2	114.2	56.1	114.2	114.2	58.1	56.1	114.2	120.2	120.2	104.2	120.2	120.2	134.2	120.2	134.2
T-101		<6.43E-05	<6.43E-05	<6.43E-05	<6.31E-05	<6.43E-05	<6.43E-05	<6.54E-05	<6.31E-05	<6.43E-05	<6.01E-05	<6.01E-05	<5.86E-05	<6.01E-05	<6.01E-05	<6.04E-05	<6.01E-05	<6.04E-05
T-102		<7.15E-05	<7.15E-05	<7.15E-05	0.00054	<7.15E-05	<7.15E-05	<7.27E-05	<7.02E-05	<7.15E-05	<6.69E-05	<6.69E-05	<6.52E-05	<6.69E-05	0.00022	<6.72E-05	0.00022	<6.72E-05
T-103		<1.08E-04	<1.08E-04	<1.08E-04	0.00033	<1.08E-04	<1.08E-04	<1.10E-04	<1.06E-04	<1.08E-04	<1.01E-04	<1.01E-04	<9.87E-05	<1.01E-04	<1.01E-04	<1.02E-04	<1.01E-04	<1.02E-04
T-104		<6.94E-05	<6.94E-05	<6.94E-05	0.00056	<6.94E-05	<6.94E-05	<7.06E-05	<6.82E-05	<6.94E-05	<6.49E-05	<6.49E-05	<6.33E-05	<6.49E-05	<6.49E-05	<6.52E-05	<6.49E-05	<6.52E-05
T-105		0.00023	<1.03E-04	<1.03E-04	0.00087	<1.03E-04	<1.03E-04	<1.05E-04	<1.01E-04	<1.03E-04	<9.63E-05	<9.63E-05	<9.39E-05	0.00032	0.00055	<9.68E-05	0.00023	<9.68E-05
T-106		<1.83E-04	<1.83E-04	<1.83E-04	<1.80E-04	<1.83E-04	<1.83E-04	<1.87E-04	<1.80E-04	<1.83E-04	<1.72E-04	<1.72E-04	<1.67E-04	<1.72E-04	<1.72E-04	<1.72E-04	<1.72E-04	<1.72E-04
T-107		<6.90E-05	<6.90E-05	<6.90E-05	<6.78E-05	<6.90E-05	<6.90E-05	<7.02E-05	<6.78E-05	<6.90E-05	<6.46E-05	<6.46E-05	<6.30E-05	<6.46E-05	<6.46E-05	0.00062	<6.46E-05	<6.49E-05
T-108		<1.42E-04	0.00870	0.00809	<1.40E-04	0.00726	0.00565	<1.45E-04	<1.40E-04	<1.42E-04	<1.33E-04	0.00070	<1.30E-04	<1.33E-04	<1.33E-04	<1.34E-04	<1.33E-04	<1.34E-04
T-109		<1.72E-04	0.00127	0.00135	<1.69E-04	0.00120	<1.72E-04	<1.75E-04	<1.69E-04	<1.72E-04	0.00098	<1.61E-04	0.00127	<1.61E-04	<1.61E-04	<1.62E-04	<1.61E-04	<1.62E-04
T-110		0.00050	0.00090	0.00075	0.00055	0.00085	<1.09E-04	<1.11E-04	<1.07E-04	<1.09E-04	<1.02E-04	<1.02E-04	<9.94E-05	<1.02E-04	<1.02E-04	<1.02E-04	<1.02E-04	<1.02E-04
T-111		0.00036	0.00033	<5.99E-05	0.00019	<5.99E-05	<5.99E-05	<6.09E-05	<5.88E-05	0.00014	<5.60E-05	<5.60E-05	<5.46E-05	<5.60E-05	<5.60E-05	<5.63E-05	<5.60E-05	<5.63E-05
T-112		<3.88E-05	<3.88E-05	<3.88E-05	<3.81E-05	0.00021	<3.88E-05	<3.94E-05	<3.81E-05	0.00050	<3.63E-05	<3.63E-05	<3.54E-05	<3.63E-05	<3.63E-05	<3.64E-05	<3.63E-05	<3.64E-05
T-113		<1.03E-04	<1.03E-04	<1.03E-04	<1.02E-04	<1.03E-04	<1.03E-04	<1.05E-04	<1.02E-04	0.00107	<9.67E-05	0.00021	<9.43E-05	<9.67E-05	<9.67E-05	<9.71E-05	<9.67E-05	0.00028
T-114		0.00021	0.00033	0.00036	<5.58E-05	<5.68E-05	<5.68E-05	<5.78E-05	<5.58E-05	<5.68E-05	<5.32E-05	<5.32E-05	<5.19E-05	0.00034	<5.32E-05	<5.34E-05	<5.32E-05	<5.34E-05
T-115		<3.85E-05	<3.85E-05	<3.85E-05	<3.79E-05	<3.85E-05	<3.85E-05	<3.92E-05	<3.79E-05	<3.85E-05	<3.60E-05	<3.60E-05	<3.52E-05	<3.60E-05	<3.60E-05	<3.62E-05	<3.60E-05	<3.62E-05
T-116		<3.87E-05	<3.87E-05	<3.87E-05	<3.81E-05	<3.87E-05	<3.87E-05	<3.94E-05	<3.81E-05	<3.87E-05	<3.63E-05	<3.63E-05	<3.54E-05	<3.63E-05	<3.63E-05	<3.64E-05	<3.63E-05	<3.64E-05
T-117		<3.39E-05	<3.39E-05	<3.39E-05	<3.33E-05	<3.39E-05	<3.39E-05	<3.45E-05	<3.33E-05	<3.39E-05	<3.17E-05	<3.17E-05	<3.09E-05	<3.17E-05	<3.17E-05	<3.19E-05	<3.17E-05	<3.19E-05
T-118		<2.88E-05	<2.88E-05	<2.88E-05	<2.83E-05	<2.88E-05	<2.88E-05	<2.93E-05	<2.83E-05	<2.88E-05	<2.69E-05	<2.69E-05	<2.62E-05	<2.69E-05	<2.69E-05	<2.70E-05	<2.69E-05	<2.70E-05
T-201		<1.07E-04	<1.07E-04	<1.07E-04	<1.05E-04	<1.07E-04	<1.07E-04	<1.09E-04	<1.05E-04	<1.07E-04	<1.00E-04	<1.00E-04	<9.75E-05	<1.00E-04	<1.00E-04	<1.00E-04	<1.00E-04	<1.00E-04
T-202		<8.99E-05	<8.99E-05	<8.99E-05	<8.84E-05	<8.99E-05	<8.99E-05	<9.15E-05	<8.84E-05	<8.99E-05	<8.41E-05	<8.41E-05	<8.21E-05	<8.41E-05	<8.41E-05	<8.45E-05	<8.41E-05	<8.45E-05
T-203		0.00025	0.00057	0.00061	<5.34E-05	0.00092	<5.43E-05	<5.53E-05	<5.34E-05	<5.43E-05	0.00141	0.00124	<4.96E-05	<5.08E-05	<5.08E-05	<5.11E-05	<5.08E-05	<5.11E-05
T-204		0.00011	<3.26E-05	<3.26E-05	<3.20E-05	<3.26E-05	<3.26E-05	<3.32E-05	<3.20E-05	<3.26E-05	<3.05E-05	<3.05E-05	<2.97E-05	<3.05E-05	<3.05E-05	<3.06E-05	<3.05E-05	<3.06E-05
T-205		0.00043	<1.40E-04	<1.40E-04	<1.38E-04	<1.40E-04	<1.40E-04	<1.43E-04	<1.38E-04	<1.40E-04	<1.31E-04	<1.31E-04	<1.28E-04	<1.31E-04	<1.31E-04	<1.32E-04	<1.31E-04	<1.32E-04
T-206		0.00736	0.00141	0.00129	0.00036	0.00048	0.00215	<1.04E-04	<1.01E-04	0.00098	<9.60E-05	<9.60E-05	<9.37E-05	<9.60E-05	<9.60E-05	<9.65E-05	<9.60E-05	<9.65E-05
T-207		0.00115	<1.38E-04	<1.38E-04	<1.35E-04	<1.38E-04	<1.38E-04	<1.40E-04	0.00098	<1.38E-04	<1.29E-04	<1.29E-04	<1.26E-04	<1.29E-04	<1.29E-04	<1.30E-04	<1.29E-04	<1.30E-04
T-208		<1.67E-04	<1.67E-04	<1.67E-04	<1.65E-04	<1.67E-04	<1.67E-04	<1.70E-04	<1.65E-04	<1.67E-04	<1.57E-04	<1.57E-04	<1.53E-04	<1.57E-04	<1.57E-04	<1.57E-04	<1.57E-04	<1.57E-04
T-209		<4.23E-05	<4.23E-05	<4.23E-05	0.00022	<4.23E-05	<4.23E-05	<4.30E-05	<4.15E-05	<4.23E-05	<3.96E-05	<3.96E-05	<3.86E-05	<3.96E-05	<3.96E-05	<3.97E-05	<3.96E-05	<3.97E-05
T-210		<6.77E-05	<6.77E-05	<6.77E-05	0.00035	<6.77E-05	<6.77E-05	<6.89E-05	<6.65E-05	<6.77E-05	<6.33E-05	<6.33E-05	<6.18E-05	<6.33E-05	<6.33E-05	<6.36E-05	<6.33E-05	<6.36E-05
T-211		<3.64E-05	<3.64E-05	<3.64E-05	<3.58E-05	<3.64E-05	<3.64E-05	<3.70E-05	<3.58E-05	<3.64E-05	<3.41E-05	<3.41E-05	<3.32E-05	<3.41E-05	<3.41E-05	<3.42E-05	<3.41E-05	<3.42E-05
T-212		<3.98E-05	<3.98E-05	<3.98E-05	<3.91E-05	<3.98E-05	<3.98E-05	<4.05E-05	<3.91E-05	<3.98E-05	<3.72E-05	<3.72E-05	<3.63E-05	<3.72E-05	<3.72E-05	<3.74E-05	<3.72E-05	<3.74E-05
T-213		<4.13E-05	<4.13E-05	<4.13E-05	0.00019	<4.13E-05	<4.13E-05	<4.20E-05	<4.05E-05	<4.13E-05	<3.86E-05	<3.86E-05	<3.76E-05	<3.86E-05	<3.86E-05	<3.88E-05	<3.86E-05	<3.88E-05
T-214		<2.67E-05	<2.67E-05	<2.67E-05	<2.62E-05	<2.67E-05	<2.67E-05	<2.71E-05	<2.62E-05	<2.67E-05	<2.50E-05	<2.50E-05	<2.43E-05	<2.50E-05	<2.50E-05	<2.51E-05	<2.50E-05	<2.51E-05
T-215		<1.08E-04	<1.08E-04	<1.08E-04	<1.06E-04	<1.08E-04	<1.08E-04	<1.10E-04	<1.06E-04	<1.08E-04	<1.01E-04	<1.01E-04	<9.87E-05	<1.01E-04	<1.01E-04	<1.02E-04	<1.01E-04	<1.02E-04
T-216		<4.02E-05	<4.02E-05	<4.02E-05	0.00009	<4.02E-05	<4.02E-05	<4.09E-05	<3.95E-05	<4.02E-05	<3.76E-05	<3.76E-05	<3.67E-05	<3.76E-05	<3.76E-05	<3.78E-05	<3.76E-05	<3.78E-05
T-217		<4.70E-05	<4.70E-05	<4.70E-05	<4.62E-05	<4.70E-05	<4.70E-05	<4.78E-05	<4.62E-05	<4.70E-05	<4.40E-05	<4.40E-05	<4.29E-05	<4.40E-05	<4.40E-05	<4.42E-05	<4.40E-05	<4.42E-05
T-218		<5.73E-05	<5.73E-05	<5.73E-05	<5.63E-05	<5.73E-05	<5.73E-05	0.00092	0.00109	<5.73E-05	<5.36E-05	<5.36E-05	<5.23E-05	<5.36E-05	<5.36E-05	<5.39E-05	<5.36E-05	<5.39E-05
T-301		<5.10E-05	<5.10E-05	<5.10E-05	0.00012	<5.10E-05	<5.10E-05	<5.19E-05	<5.01E-05	<5.10E-05	<4.77E-05	<4.77E-05	<4.65E-05	<4.77E-05	<4.77E-05	<4.79E-05	<4.77E-05	<4.79E-05
T-302		<6.78E-05	<6.78E-05	<6.78E-05	<6.67E-05	<6.78E-05	<6.78E-05	<6.90E-05	<6.67E-05	<6.78E-05	<6.35E-05	<6.35E-05	<6.19E-05	<6.35E-05	<6.35E-05	<6.38E-05	<6.35E-05	<6.38E-05
T-303		<7.46E-05	<7.46E-05	<7.46E-05	<7.33E-05	<7.46E-05	<7.46E-05	<7.59E-05	<7.33E-05	<7.46E-05	<6.98E-05	<6.98E-05	<6.80E-05	<6.98E-05	<6.98E-05	<7.01E-05	<6.98E-05	<7.01E-05
T-304		0.00017	<6.02E-05	<6.02E-05	<5.91E-05	<6.02E-05	<6.02E-05	<6.12E-05	<5.91E-05	<6.02E-05	<5.63E-05	<5.63E-05	0.00028	<5.63E-05	<5.63E-05	<5.66E-05	<5.63E-05	<5.66E-05
T-305		<9.47E-05	0.00099	0.00130	<9.30E-05	0.00205	0.00123	0.00028	<9.30E-05	0.00095	<8.86E-05	<8.86E-05	0.00041	<8.86E-05	<8.86E-05	<8.90E-05	<8.86E-05	<8.90E-05
T-306		<7.06E-05	<7.06E-05	<7.06E-05	<6.94E-05	<7.06E-05	<7.06E-05	<7.18E-05	<6.94E-05	<7.06E-05	<6.60E-05	<6.60E-05	<6.44E-05	<6.60E-05	<6.60E-05	<6.64E-05	<6.60E-05	<6.64E-05
T-307		<7.28E-05	<7.28E-05	<7.28E-05	<7.16E-05	<7.28E-05	<7.28E-05	<7.41E-05	<7.16E-05	<7.28E-05	<6.81E-05	<6.81E-05	<6.65E-05	<6.81E-05	<6.81E-05	<6.85E-05	<6.81E-05	<6.85E-05
T-308		<8.14E-05	<8.14E-05	<8.14E-05	<8.00E-05	<8.14E-05	<8.14E-05	<8.28E-05	<8.00E-05	<8.14E-05	<7.62E-05	<7.62E-05	<7.43E-05	<7.62E-05	<7.62E-05	<7.65E-05	<7.62E-05	<7.65E-05
T-309		<8.54E-05	<8.54E-05	<8.54E-05	<8.39E-05	<8.54E-05	<8.54E-05	<8.69E-05	<8.39E-05	<8.54E-05	<7.99E-05	<7.99E-05	<7.79E-05	<7.99E-05	<7.99E-05	<8.03E-05	<7.99E-05	<8.03E-05
T-310		<2.98E-05	<2.98E-05	<2.98E-05	<2.93E-05	<2.98E-05	<2.98E-05	<3.04E-05	<2.93E-05	<2.98E-05	<2.79E-05	<2.79E-05	<2.72E-05	<2.79E-05	<2.79E-05	<2.80E-05	<2.79E-05	<2.80E-05
T-311		<1.90E-04	<1.90E-04	<1.90E-04	<1.86E-04	<1.90E-04	<1.90E-04	0.00291	<1.86E-04	<1.90E-04	<1.77E-04	<1.77E-04	<1.73E-04	<1.77E-04	<1.77E-04	<1.78E-04	<1.77E-04	<1.78E-04
T-312		0.00082	<1.37E-04	<1.37E-04	<1.34E-04	<1.37E-04	<1.37E-04	<1.39E-04	<1.34E-04	<1.37E-04	<1.28E-04	<1.28E-04	<1.25E-04	<1.28E-04	<1.28E-04	<1.28E-04	<1.28E-04	<1.28E-04
T-313		<1.51E-04	<1.51E-04	<1.51E-04	<1.48E-04	<1.51E-04	<1.51E-04	<1.53E-04	<1.48E-04	<1.51E-04	<1.41E-04	<1.41E-04	<1.37E-04	<1.41E-04	<1.41E-04	<1.42E-04	<1.41E-04	<1.42E-04
T-314		0.00224	0.00096	0.00095	<1.50E-04	0.00042	0.00157	<1.56E-04	<1.50E-04	0.00055	<1.43E-04	<1.43E-04	<1.40E-04	<1.43E-04	<1.43E-04	<1.44E-04	<1.43E-04	<1.44E-04

Table 4.4 ORS Compounds Flux (mg/m2-min). (Only compounds with at least one detect)

Sample Number	Compound	Total Reduced Sulfurs	Dimethyl Sulfide	sec-Butyl Mercaptan / Thiophene	Total Unidentified Sulfur	Isopropyl Mercaptan	3-Methylthiophene	iso-Butyl Mercaptan	Dimethyl Disulfide	Methylethylsulfide	Tetrahydrothiophene	Hydrogen Sulfide	Ethyl Mercaptan	tert-Butyl Mercaptan	Methyl Mercaptan	n-Propyl Mercaptan	Diethyl Sulfide	Diethyl Disulfide	2-Methylthiophene
	CAS		75-18-3	513-53-1		75-33-2	616-44-4	513-44-0	624-92-0	624-89-5	110-01-0	7783-06-4	75-08-1	75-66-1	74-93-1	107-03-9	352-93-2	110-81-6	554-14-3
	MW	34.08	62.134	90.186	34.08	76.16	98.17	90.186	94.19	76.16	88.17	34.08	62.134	90.186	48.11	76.16	90.19	122.252	98.16
T-101		<3.18E-04	<5.80E-04	<8.42E-04	<3.18E-04	<7.11E-04	<9.17E-04	<8.42E-04	<8.80E-04	<7.11E-04	<8.24E-04	<3.18E-04	<5.80E-04	<8.42E-04	<4.49E-04	<7.11E-04	<8.43E-04	<1.14E-03	<9.17E-04
T-102		<3.43E-04	<6.25E-04	<9.08E-04	<3.43E-04	<7.66E-04	<9.88E-04	<9.08E-04	<9.48E-04	<7.66E-04	<8.87E-04	<3.43E-04	<6.25E-04	<9.08E-04	<4.84E-04	<7.66E-04	<9.08E-04	<1.23E-03	<9.88E-04
T-103		<5.40E-04	<9.85E-04	<1.43E-03	<5.40E-04	<1.21E-03	<1.56E-03	<1.43E-03	<1.49E-03	<1.21E-03	<1.40E-03	<5.40E-04	<9.85E-04	<1.43E-03	<7.63E-04	<1.21E-03	<1.43E-03	<1.94E-03	<1.56E-03
T-104		<3.16E-04	<5.76E-04	<8.37E-04	<3.16E-04	<7.07E-04	<9.11E-04	<8.37E-04	<8.74E-04	<7.07E-04	<8.18E-04	<3.16E-04	<5.76E-04	<8.37E-04	<4.46E-04	<7.07E-04	<8.37E-04	<1.13E-03	<9.11E-04
T-105		<5.01E-04	<9.13E-04	<1.33E-03	<5.01E-04	<1.12E-03	<1.44E-03	<1.33E-03	<1.38E-03	<1.12E-03	<1.30E-03	<5.01E-04	<9.13E-04	<1.33E-03	<7.07E-04	<1.12E-03	<1.33E-03	<1.80E-03	<1.44E-03
T-106		<8.93E-04	<1.63E-03	<2.36E-03	<8.93E-04	<2.00E-03	<2.57E-03	<2.36E-03	<2.47E-03	<2.00E-03	<2.31E-03	<8.93E-04	<1.63E-03	<2.36E-03	<1.26E-03	<2.00E-03	<2.36E-03	<3.20E-03	<2.57E-03
T-107		<3.34E-04	<6.09E-04	<8.84E-04	<3.34E-04	<7.46E-04	<9.62E-04	<8.84E-04	<9.23E-04	<7.46E-04	<8.64E-04	<3.34E-04	<6.09E-04	<8.84E-04	<4.72E-04	<7.46E-04	<8.84E-04	<1.20E-03	<9.62E-04
T-108		7.48497	9.08127	2.50800	0.46310	0.87847	0.56617	0.46027	0.35272	0.16727	0.13722	0.02612	0.02700	0.03847	0.01596	0.01504	<1.78E-03	0.00676	<1.94E-03
T-109		0.01834	0.02133	0.00920	0.00158	<1.77E-03	<2.28E-03	<2.09E-03	<2.18E-03	<1.77E-03	<2.05E-03	<7.91E-04	<1.44E-03	<2.09E-03	<1.12E-03	<1.77E-03	<2.09E-03	<2.84E-03	0.00455
T-110		0.00653	0.00595	0.00432	<5.10E-04	<1.14E-03	<1.47E-03	<1.35E-03	<1.41E-03	<1.14E-03	<1.32E-03	0.00163	<9.30E-04	<1.35E-03	<7.20E-04	<1.14E-03	<1.35E-03	<1.83E-03	<1.47E-03
T-111		0.00343	0.00188	<7.57E-04	0.00229	<6.39E-04	<8.24E-04	<7.57E-04	<7.90E-04	<6.39E-04	<7.40E-04	<2.86E-04	<5.21E-04	<7.57E-04	<4.04E-04	<6.39E-04	<7.57E-04	<1.03E-03	<8.24E-04
T-112		0.00105	0.00123	<4.96E-04	0.00037	<4.18E-04	<5.39E-04	<4.96E-04	<5.18E-04	<4.18E-04	<4.84E-04	<1.87E-04	<3.41E-04	<4.96E-04	<2.64E-04	<4.18E-04	<4.96E-04	<6.72E-04	<5.39E-04
T-113		0.00160	<9.11E-04	<1.32E-03	0.00160	<1.12E-03	<1.44E-03	<1.32E-03	<1.38E-03	<1.12E-03	<1.29E-03	<5.00E-04	<9.11E-04	<1.32E-03	<7.06E-04	<1.12E-03	<1.32E-03	<1.79E-03	<1.44E-03
T-114		<2.68E-04	<4.88E-04	<7.09E-04	<2.68E-04	<5.98E-04	<7.71E-04	<7.09E-04	<7.40E-04	<5.98E-04	<6.93E-04	<2.68E-04	<4.88E-04	<7.09E-04	<3.78E-04	<5.98E-04	<7.09E-04	<9.61E-04	<7.71E-04
T-115		<1.82E-04	<3.31E-04	<4.81E-04	<1.82E-04	<4.06E-04	<5.23E-04	<4.81E-04	<5.02E-04	<4.06E-04	<4.70E-04	<1.82E-04	<3.31E-04	<4.81E-04	<2.56E-04	<4.06E-04	<4.81E-04	<6.52E-04	<5.23E-04
T-116		<1.56E-04	<2.85E-04	<4.14E-04	<1.56E-04	<3.49E-04	<4.50E-04	<4.14E-04	<4.32E-04	<3.49E-04	<4.05E-04	<1.56E-04	<2.85E-04	<4.14E-04	<2.21E-04	<3.49E-04	<4.14E-04	<5.61E-04	<4.50E-04
T-117		<1.62E-04	<2.96E-04	<4.30E-04	<1.62E-04	<3.63E-04	<4.68E-04	<4.30E-04	<4.49E-04	<3.63E-04	<4.20E-04	<1.62E-04	<2.96E-04	<4.30E-04	<2.29E-04	<3.63E-04	<4.30E-04	<5.83E-04	<4.68E-04
T-118		<1.51E-04	<2.75E-04	<3.99E-04	<1.51E-04	<3.37E-04	<4.35E-04	<3.99E-04	<4.17E-04	<3.37E-04	<3.90E-04	<1.51E-04	<2.75E-04	<3.99E-04	<2.13E-04	<3.37E-04	<3.99E-04	<5.41E-04	<4.35E-04
T-201		0.00358	0.00230	0.00278	0.00126	<1.18E-03	<1.52E-03	<1.39E-03	<1.45E-03	<1.18E-03	<1.36E-03	<5.26E-04	<9.59E-04	<1.39E-03	<7.43E-04	<1.18E-03	<1.39E-03	<1.89E-03	<1.52E-03
T-202		<4.54E-04	<8.28E-04	<1.20E-03	<4.54E-04	<1.02E-03	<1.31E-03	<1.20E-03	<1.26E-03	<1.02E-03	<1.18E-03	<4.54E-04	<8.28E-04	<1.20E-03	<6.41E-04	<1.02E-03	<1.20E-03	<1.63E-03	<1.31E-03
T-203		0.00521	<4.94E-04	0.00287	0.00282	0.00170	<7.81E-04	0.00144	<7.50E-04	<6.06E-04	<7.02E-04	<2.71E-04	<4.94E-04	<7.18E-04	<3.83E-04	<6.06E-04	<7.18E-04	<9.73E-04	<7.81E-04
T-204		<1.65E-04	<3.01E-04	<4.37E-04	<1.65E-04	<3.69E-04	<4.76E-04	<4.37E-04	<4.57E-04	<3.69E-04	<4.28E-04	<1.65E-04	<3.01E-04	<4.37E-04	<2.33E-04	<3.69E-04	<4.37E-04	<5.93E-04	<4.76E-04
T-205		<6.61E-04	<1.21E-03	<1.75E-03	<6.61E-04	<1.48E-03	<1.90E-03	<1.75E-03	<1.83E-03	<1.48E-03	<1.71E-03	<6.61E-04	<1.21E-03	<1.75E-03	<9.33E-04	<1.48E-03	<1.75E-03	<2.37E-03	<1.90E-03
T-206		0.00138	<8.98E-04	<1.30E-03	0.00138	<1.10E-03	<1.42E-03	<1.30E-03	<1.36E-03	<1.10E-03	<1.27E-03	<4.93E-04	<8.98E-04	<1.30E-03	<6.95E-04	<1.10E-03	<1.30E-03	<1.77E-03	<1.42E-03
T-207		0.00176	<1.15E-03	<1.67E-03	<6.29E-04	<1.41E-03	<1.81E-03	<1.67E-03	<1.74E-03	<1.41E-03	<1.63E-03	<6.29E-04	<1.15E-03	<1.67E-03	<8.89E-04	<1.41E-03	0.00466	<2.26E-03	<1.81E-03
T-208		<7.96E-04	<1.45E-03	<2.11E-03	<7.96E-04	<1.78E-03	<2.29E-03	<2.11E-03	<2.20E-03	<1.78E-03	<2.06E-03	<7.96E-04	<1.45E-03	<2.11E-03	<1.12E-03	<1.78E-03	<2.11E-03	<2.86E-03	<2.29E-03
T-209		<1.94E-04	<3.54E-04	<5.13E-04	<1.94E-04	<4.34E-04	<5.59E-04	<5.13E-04	<5.36E-04	<4.34E-04	<5.02E-04	<1.94E-04	<3.54E-04	<5.13E-04	<2.74E-04	<4.34E-04	<5.13E-04	<6.96E-04	<5.59E-04
T-210		<3.18E-04	<5.81E-04	<8.43E-04	<3.18E-04	<7.12E-04	<9.17E-04	<8.43E-04	<8.80E-04	<7.12E-04	<8.24E-04	<3.18E-04	<5.81E-04	<8.43E-04	<4.49E-04	<7.12E-04	<8.43E-04	<1.14E-03	<9.17E-04
T-211		<1.69E-04	<3.08E-04	<4.47E-04	<1.69E-04	<3.77E-04	<4.87E-04	<4.47E-04	<4.67E-04	<3.77E-04	<4.37E-04	<1.69E-04	<3.08E-04	<4.47E-04	<2.38E-04	<3.77E-04	<4.47E-04	<6.06E-04	<4.87E-04
T-212		<1.75E-04	<3.20E-04	<4.64E-04	<1.75E-04	<3.92E-04	<5.05E-04	<4.64E-04	<4.85E-04	<3.92E-04	<4.54E-04	<1.75E-04	<3.20E-04	<4.64E-04	<2.48E-04	<3.92E-04	<4.64E-04	<6.29E-04	<5.05E-04
T-213		<1.84E-04	<3.36E-04	<4.88E-04	<1.84E-04	<4.12E-04	<5.31E-04	<4.88E-04	<5.10E-04	<4.12E-04	<4.77E-04	<1.84E-04	<3.36E-04	<4.88E-04	<2.60E-04	<4.12E-04	<4.88E-04	<6.62E-04	<5.31E-04
T-214		<1.43E-04	<2.61E-04	<3.78E-04	<1.43E-04	<3.20E-04	<4.12E-04	<3.78E-04	<3.95E-04	<3.20E-04	<3.70E-04	<1.43E-04	<2.61E-04	<3.78E-04	<2.02E-04	<3.20E-04	<3.79E-04	<5.13E-04	<4.12E-04
T-215		<5.00E-04	<9.12E-04	<1.32E-03	<5.00E-04	<1.12E-03	<1.44E-03	<1.32E-03	<1.38E-03	<1.12E-03	<1.29E-03	<5.00E-04	<9.12E-04	<1.32E-03	<7.06E-04	<1.12E-03	<1.32E-03	<1.79E-03	<1.44E-03
T-216		<1.74E-04	<3.17E-04	<4.60E-04	<1.74E-04	<3.88E-04	<5.00E-04	<4.60E-04	<4.80E-04	<3.88E-04	<4.49E-04	<1.74E-04	<3.17E-04	<4.60E-04	<2.45E-04	<3.88E-04	<4.60E-04	<6.23E-04	<5.00E-04
T-217		<2.21E-04	<4.02E-04	<5.84E-04	<2.21E-04	<4.93E-04	<6.36E-04	<5.84E-04	<6.10E-04	<4.93E-04	<5.71E-04	<2.21E-04	<4.02E-04	<5.84E-04	<3.11E-04	<4.93E-04	<5.84E-04	<7.92E-04	<6.36E-04
T-218		<2.70E-04	<4.92E-04	<7.14E-04	<2.70E-04	<6.03E-04	<7.77E-04	<7.14E-04	<7.46E-04	<6.03E-04	<6.98E-04	<2.70E-04	<4.92E-04	<7.14E-04	<3.81E-04	<6.03E-04	<7.14E-04	<9.68E-04	<7.77E-04
T-301		<2.56E-04	<4.66E-04	<6.76E-04	<2.56E-04	<5.71E-04	<7.36E-04	<6.76E-04	<7.06E-04	<5.71E-04	<6.61E-04	<2.56E-04	<4.66E-04	<6.76E-04	<3.61E-04	<5.71E-04	<6.76E-04	<9.17E-04	<7.36E-04
T-302		<3.41E-04	<6.21E-04	<9.02E-04	<3.41E-04	<7.62E-04	<9.82E-04	<9.02E-04	<9.42E-04	<7.62E-04	<8.82E-04	<3.41E-04	<6.21E-04	<9.02E-04	<4.81E-04	<7.62E-04	<9.02E-04	<1.22E-03	<9.82E-04
T-303		<3.69E-04	<6.73E-04	<9.76E-04	<3.69E-04	<8.25E-04	<1.06E-03	<9.76E-04	<1.02E-03	<8.25E-04	<9.55E-04	<3.69E-04	<6.73E-04	<9.76E-04	<5.21E-04	<8.25E-04	<9.76E-04	<1.32E-03	<1.06E-03
T-304		<2.98E-04	<5.43E-04	<7.88E-04	<2.98E-04	<6.65E-04	<8.57E-04	<7.88E-04	<8.23E-04	<6.65E-04	<7.70E-04	<2.98E-04	<5.43E-04	<7.88E-04	<4.20E-04	<6.65E-04	<7.88E-04	<1.07E-03	<8.57E-04
T-305		<4.60E-04	<8.39E-04	<1.22E-03	<4.60E-04	<1.03E-03	<1.33E-03	<1.22E-03	<1.27E-03	<1.03E-03	<1.19E-03	<4.60E-04	<8.39E-04	<1.22E-03	<6.49E-04	<1.03E-03	<1.22E-03	<1.65E-03	<1.33E-03
T-306		<3.48E-04	<6.35E-04	<9.21E-04	<3.48E-04	<7.78E-04	<1.00E-03	<9.21E-04	<9.62E-04	<7.78E-04	<9.00E-04	<3.48E-04	<6.35E-04	<9.21E-04	<4.91E-04	<7.78E-04	<9.21E-04	<1.25E-03	<1.00E-03
T-307		<3.56E-04	<6.50E-04	<9.43E-04	<3.56E-04	<7.97E-04	<1.03E-03	<9.43E-04	<9.85E-04	<7.97E-04	<9.22E-04	<3.56E-04	<6.50E-04	<9.43E-04	<5.03E-04	<7.97E-04	<9.43E-04	<1.28E-03	<1.03E-03
T-308		<3.98E-04	<7.26E-04	<1.05E-03	<3.98E-04	<8.90E-04	<1.15E-03	<1.05E-03	<1.10E-03	<8.90E-04	<1.03E-03	<3.98E-04	<7.26E-04	<1.05E-03	<5.62E-04	<8.90E-04	<1.05E-03	<1.43E-03	<1.15E-03
T-309		<4.22E-04	<7.69E-04	<1.12E-03	<4.22E-04	<9.43E-04	<1.22E-03	<1.12E-03	<1.17E-03	<9.43E-04	<1.09E-03	<4.22E-04	<7.69E-04	<1.12E-03	<5.96E-04	<9.43E-04	<1.12E-03	<1.51E-03	<1.22E-03
T-310		<1.38E-04	<2.52E-04	<3.66E-04	<1.38E-04	<3.09E-04	<3.98E-04	<3.66E-04	<3.82E-04	<3.09E-04	<3.58E-04	<1.38E-04	<2.52E-04	<3.66E-04	<1.95E-04	<3.09E-04	<3.66E-04	<4.96E-04	<3.98E-04
T-311		<8.81E-04	<1.61E-03	<2.33E-03	<8.81E-04	<1.97E-03	<2.54E-03	<2.33E-03	<2.44E-03	<1.97E-03	<2.28E-03	<8.81E-04	<1.61E-03	<2.33E-03	<1.24E-03	<1.97E-03	<2.33E-03	<3.16E-03	<2.54E-03
T-312		<6.15E-04	<1.12E-03	<1.63E-03	<6.15E-04	<1.37E-03	<1.77E-03	<1.63E-03	<1.70E-03	<1.37E-03	<1.59E-03	<6.15E-04	<1.12E-03	<1.63E-03	<8.68E-04	<1.37E-03	<1.63E-03	<2.21E-03	<1.77E-03
T-313		<7.17E-04	<1.31E-03	<1.90E-03	<7.17E-04	<1.60E-03	<2.06E-03	<1.90E-03	<1.98E-03	<1.60E-03	<1.85E-03	<7.17E-04	<1.31E-03	<1.90E-03	<1.01E-03	<1.60E-03	<1.90E-03	<2.57E-03	<2.06E-03
T-313		<7.31E-04	<1.33E-03	<1.94E-03	<7.31E-04	<1.63E-03	<2.11E-03	<1.94E-03	<2.02E-03	<1.63E-03	<1.89E-03	<7.31E-04	<1.33E-03	<1.94E-03	<1.03E-03	<1.63E-03	<1.94E-03	<2.62E-03	<2.11E-03

5. Data Analysis

Cell Area Apportionment

Table 5.1 shows how the individual flux chamber data points were apportioned to calculate the average flux value for the test grid cell. Four measurements were made in each test cell. The four measurements were targeted to represent the low emission (bottom half), medium emission (between the bottom half and the top 10%), high emission (top 10%), and maximum screened concentration in the test cell. Therefore, the target low measurement represented 50% of the cell area, the medium measurement represented 40% of the cell area, the high measurement represented 10% of the cell area, and the maximum measurement represented the area of the flux chamber, 0.13 m^2. However, the actual values were substantially different than the target values. Table 5.1 shows the calculated apportionment values based on the analysis of interior cell screening. The calculation basis is provided in Appendix 2.

Table 5.1 Grid Cell Area Apportionment by Interior Grid Cell Zone.

		Rep	Sample Approtionment			
Category	**Subset**	**Cell**	**Low**	**Med**	**High**	**Max**
Exceedance Area		76	88%	8%	4%	0.003%
Reaction Area	High	169	62%	17%	21%	0.003%
Reaction Area	Med	174	50%	27%	23%	0.003%
Reaction Area	Med	197	78%	14%	8%	0.003%
Reaction Area	Low	153	5%	64%	32%	0.003%
Non-Reaction Area	High	250	63%	19%	19%	0.003%
Non-Reaction Area	Med	87	67%	21%	13%	0.003%
Non-Reaction Area	Med	237	27%	31%	42%	0.003%
Non-Reaction Area	Low	108	62%	17%	21%	0.003%

The average flux value of the cell was calculated by multiplying the appropriate apportionment factor (see Table 5.1) by the measured flux value for each position. The maximum reading was assumed to be valid only under the flux chamber, an area of 0.13 m^2, because the maximum reading is only represented at one point of the grid. No other portion of the grid is represented by the maximum reading.

Emissions Calculations

All emissions calculations are provided in Appendix 3. As an example, the methane emissions calculation is provided below in Table 5.2. The flux values shown in Section 5 (for the four internal cell categories [low, medium, high, and max]) are averaged based on the area apportionment described above. That average cell flux value (column "W. Avg") is then multiplied by the area represented by that grid cell to arrive at the total emissions. Emissions were calculated and presented using the calculation methodology as stated in the test protocol. The highlighted data are flux values for test locations over the polymer membrane cover.

Carbon monoxide and hydrogen were not detected in any of the samples and were not otherwise quantified.

Table 5.2 Methane Emissions Calculations.

Methane																			
74-82-8						Flux (mg/m2-min)													
		Rep		Cell Area						Weighted Avg.		Used		Area Rep		Emissions			
Category	Subset	Cell	M?	(ft2)	(m2)	Low	Med	High	Max	Target	Actual	Target	Actual	(ft2)	(m2)	(mg/min)	(lbs/yr)	(TPY)	
Exceedance Area		76		48,758	4,530	0.056	0.074	0.27	12.0	0.085	0.07	0.17	0.093	2,323,625	215,872	20,097	23,287	12	
Repeat		76		48,758	4,530	0.067	0.32	0.88	72.9	0.25	0.12								
Reaction Area	High	169	Y	54,459	5,059	1.80	1.45	0.38	0.42	1.52	1.44	1.517	1.444	651,160	60,495	87,365	101,232	50.62	
Reaction Area	Med	174	Y	48,344	4,491	0.52	0.54	0.28	22,015	1.22	1.19	37.7	17.6	865,785	80,434	1,411,843	1,635,945	817.97	
Reaction Area	Med	197		56,626	5,261	10.9	163.7	32.1	48.2	74.17	33.92								
Repeat		197		56,626	5,261	2.52	16.2	3.57	35.8	8.08	4.50								
Reaction Area	Low	153	M	45,864	4,261	0.157	0.056	<1.07E-02	<1.09E-02	<1.02E-01	<4.64E-02	<1.02E-01	<4.64E-02	1,403,780	<1.30E+05	<6.05E+03	<7.01E+03	<3.51E+00	
Non-Reaction Area	High	250		47,494	4,412	0.25	<1.13E-02	0.18	480	<1.65E-01	<2.11E-01	<1.65E-01	<2.11E-01	1,076,908	<1.00E+05	<2.11E+04	<2.45E+04	<1.22E+01	
Non-Reaction Area	Med	87		58,663	5,450	0.56	9.20	233	8.48	27.25	32.12	14.5	19.4	1,950,276	181,187	3,516,944	4,075,189	2,038	
Non-Reaction Area	Med	237		30,995	2,880	0.37	0.21	15.46	10.65	1.82	6.70								
Non-Reaction Area	Low	108		52,575	4,884	<1.18E-02	0.15	<1.02E-02	<1.12E-02	<6.51E-02	<3.45E-02	0.085	0.085	4,347,548	<4.04E+05	<1.39E+04	<1.61E+04	<8.07E+00	
Non SEM Area													<4.33E+00	281,615	26,163	<1.13E+05	<1.31E+05	<6.56E+01	
Total														12,900,697	1,198,514	<5.08E+06	**<5.88E+06**	**<3.01E+03**	
									Membrane				0.623	2,005,938	186,358	116,058	134,480	67.2	
																Average Flux =		<4.33E+03	ug/m2-min
																		<4.33E+00	mg/m2-min
																Avg Mem. Flux =		0.62	mg/m2-min

Tentatively identified compounds (TICs) are provided in the lab reports. Their detections were sparse, so we did not complete emission calculations for site-wide flux for these chemicals. However, upon request, TIC calculations could be provided.

Emissions Summary

Table 5.3 and 5.4 summarize the total site surface emissions in tons per year. Although the emissions data is presented in tons per year, it should be noted that these emission rates are only valid for the time-period during the sampling event and are not intended to imply that the emissions over the next 365 days would be equal to these values. All laboratory data that were reported as “not detected” were quantified at one-half the method detection limit (MDL) for the emissions calculations. The “Membrane Flux” is part of the total emissions and represents that part of the Total Emissions that come from the membrane – it is not additive.

In addition, the average flux rate for each compound is provided in mg/m2-min in each of the tables.

Table 5.3 Site Surface Emissions Summary, Methane, VOC, TO-14 and 307-91 Compounds.

		Emissions (tons/yr)													
					TO-14				307-91						
Category	Subset	Carbon Dioxide	Methane	VOC	Benzene TO-14	m,p-xylene TO-14	Toluene TO-14	Propene TO-14	Dimethyl Sulfide	sec-Butyl Mercaptan / Thiophene	Total Reduced Sulfurs	Isopropyl Mercaptan	Methyl Mercaptan	Hydrogen Sulfide
Exceedance Area		12,021	12	1.0	<1.71E-02	<7.98E-03	<8.65E-03	<2.18E-02	<6.79E-02	<9.85E-02	<3.72E-02	<8.32E-02	<5.26E-02	<3.72E-02
Reaction Area	High	8,957	51	5.4	0.603	0.190	0.163	<6.53E-03	0.514	<2.32E-01	0.463	<5.00E-02	<3.16E-02	<2.91E-02
Reaction Area	Med	16,111	818	<5.82E+00	0.065	<2.43E-02	<3.71E-02	<5.39E-02	<5.81E-02	<7.62E-02	<3.88E-02	<6.34E-02	<3.96E-02	<2.81E-02
Reaction Area	Low	<3.37E+03	<3.51E+00	2.4	0.201	<7.82E-02	<5.46E-02	<5.98E-03	<3.46E-02	<5.02E-02	<2.27E-02	<4.24E-02	<2.68E-02	<1.90E-02
Non-Reaction Area	High	11,179	<1.22E+01	<5.60E-01	<1.25E-02	<4.54E-03	<4.50E-03	<4.80E-03	<4.10E-02	<5.95E-02	<2.25E-02	<5.02E-02	<3.17E-02	<2.25E-02
Non-Reaction Area	Med	27,738	2,038	4.1	<6.64E-02	<1.00E-01	<7.08E-02	<1.51E-01	<1.28E-01	<1.81E-01	<1.85E-01	<1.07E-01	<6.30E-02	<4.46E-02
Non-Reaction Area	Low	10,931	<8.07E+00	<5.55E-01	0.034	<9.89E-03	<9.80E-03	<1.05E-02	<8.97E-02	<1.30E-01	<4.92E-02	<1.10E-01	<6.95E-02	<4.92E-02
Non SEM Area		2,015	<6.56E+01	<4.41E-01	0.022	<9.26E-03	<7.78E-03	<5.69E-03	<2.08E-02	<1.85E-02	<1.83E-02	<1.13E-02	<7.02E-03	<5.13E-03
Total		**<9.23E+04**	**<3.01E+03**	**<2.02E+01**	**<1.02E+00**	**<4.24E-01**	**<3.57E-01**	**<2.61E-01**	**<9.54E-01**	**<8.46E-01**	**<8.37E-01**	**<5.18E-01**	**<3.22E-01**	**<2.35E-01**
Membrane emissions		17,608	67	<6.48E+00	0.76	<2.20E-01	<1.97E-01	<3.67E-02	<4.19E-01	<2.57E-01	<3.95E-01	<1.14E-01	<7.23E-02	<6.47E-02
Average Flux (mg/m2-min)		133	10	<2.91E-02	0.0015	<6.11E-04	<5.14E-04	<3.75E-04	<1.37E-03	<1.22E-03	<1.20E-03	<7.45E-04	<4.63E-04	<3.38E-04
Membrane Flux (mg/m2-m)		163	0.62	<6.00E-02	0.0071	<2.04E-03	<1.83E-03	<3.40E-04	<3.88E-03	<2.38E-03	<3.66E-03	<1.06E-03	<6.70E-04	<5.99E-04

Table 5.4 Site Surface Emissions Summary, TO-15 Compounds.

		Emissions (tons/yr)																	
		TO-15																	
Category	Subset	Acetone	Benzene	Methanol	2-propanol (isopropylalcohol)	Isopropyltoluene	m,p-Xylenes	Toluene	Propylene	2-Butanone (MEK)	Ethanol	Tetrahydrofuran	Acrolein	Ethylbenzene	o-Xylene	Tetrachloroethene (PCE)	Cyclohexane	n-Heptane	Carbon disulfide
Exceedance Area		0.386	<6.73E-02	<2.37E-02	<1.05E-02	<2.34E-02	<9.29E-03	<1.60E-02	<9.31E-03	<2.30E-02	<2.41E-02	<3.16E-03	<2.43E-02	<9.29E-03	<9.29E-03	<3.62E-03	<3.69E-03	<8.77E-03	<6.66E-03
Reaction Area	High	0.109	0.406	<1.25E-02	<1.90E-02	<1.67E-01	<1.11E-01	0.100	0.018	0.088	<4.35E-02	<1.24E-01	<5.62E-03	<7.72E-02	<3.29E-02	<6.87E-03	<2.40E-03	<7.07E-03	<4.27E-03
Reaction Area	Med	0.103	0.054	<6.50E-02	<2.69E-02	<2.21E-02	<1.97E-02	<2.04E-02	0.056	<1.17E-02	<3.69E-02	<9.99E-03	<2.16E-02	<1.09E-02	<1.33E-02	<9.93E-02	<4.98E-02	<6.95E-03	<5.21E-03
Reaction Area	Low	0.102	0.121	<1.21E-02	<4.03E-01	<6.97E-02	<4.35E-02	<3.62E-02	0.009	<2.50E-02	<1.82E-02	<4.85E-02	<1.61E-02	<3.26E-02	<1.54E-02	<2.01E-03	<1.97E-03	<4.67E-03	<3.55E-03
Non-Reaction Area	High	0.230	0.071	<3.05E-01	<6.85E-03	<1.53E-02	<6.05E-03	<1.05E-02	<1.53E-02	0.035	<4.60E-02	<4.35E-03	0.049	<6.05E-03	<6.05E-03	<3.46E-03	<2.45E-03	<5.70E-03	<9.14E-03
Non-Reaction Area	Med	0.174	<1.02E-01	<8.69E-02	<1.44E-02	<7.01E-02	<8.58E-02	<6.17E-02	0.131	0.036	<2.44E-02	<7.36E-03	<3.15E-02	<3.55E-02	<4.95E-02	<4.95E-03	<4.41E-03	<1.44E-02	<8.02E-03
Non-Reaction Area	Low	0.209	<5.90E-02	<2.51E-01	<1.50E-02	<3.35E-02	<1.31E-02	<2.30E-02	0.020	<2.32E-02	<2.87E-02	<4.53E-03	0.050	<1.31E-02	<1.31E-02	<8.05E-03	<5.29E-03	<1.24E-02	<9.39E-03
Non SEM Area		0.029	<1.97E-02	<1.69E-02	<1.11E-02	<8.96E-03	<6.43E-03	<5.98E-03	0.006	<5.39E-03	<4.95E-03	<4.52E-03	0.004	<4.12E-03	<3.11E-03	<2.86E-03	<1.56E-03	<1.34E-03	<1.03E-03
Total		**1.342**	**<9.00E-01**	**<7.73E-01**	**<5.07E-01**	**<4.10E-01**	**<2.95E-01**	**<2.74E-01**	**<2.64E-01**	**<2.47E-01**	**<2.27E-01**	**<2.07E-01**	**<2.03E-01**	**<1.89E-01**	**<1.43E-01**	**<1.31E-01**	**<7.16E-02**	**<6.13E-02**	**<4.73E-02**
Membrane emissions		0.22	0.44	<3.53E-02	<1.18E-01	<1.97E-01	<1.27E-01	<1.19E-01	0.037	<1.35E-01	<9.88E-02	<1.32E-01	<1.28E-02	<8.31E-02	<3.82E-02	<1.00E-02	<5.36E-03	<1.54E-02	<9.52E-03
Average Flux (mg/m2-min)		0.0019	<1.30E-03	<1.11E-03	<7.30E-04	<5.91E-04	<4.24E-04	<3.95E-04	0.0004	<3.56E-04	<3.26E-04	<2.98E-04	0.0003	<2.72E-04	<2.05E-04	<1.89E-04	<1.03E-04	<8.82E-05	<6.81E-05
Membrane Flux (mg/m2-m)		0.0021	0.0041	<3.27E-04	<1.09E-03	<1.83E-03	<1.18E-03	<1.10E-03	0.0003	<1.25E-03	<9.15E-04	<1.23E-03	<1.19E-04	<7.69E-04	<3.54E-04	<9.27E-05	<4.97E-05	<1.43E-04	<8.82E-05

Data Based Observations

Overall Data Trend

Table 5.5 provides a comparison of site-wide emission rates (in tons/yr) for selected chemicals from the August 2023, March 2024, November 2024 and March 2025 flux chamber testing events. These data demonstrate that although there was a significant increase in emissions from the first to the second test, resulting from major upset conditions that occurred during the second test, the results of the third event, and even more for the Fourth Event, show a substantial decrease in emissions compared to the earlier events, for most of the species analyzed. This trend is likely a result of improvements in gas recovery and cover systems at the Landfill. Note that for most of the speciated compounds, the laboratory results were near or below the method detection limit. Therefore, there will likely be limited further reductions in quantifiable emissions for those compounds in future events due to the limitations of the performance of the chemical analysis for the gas samples.

Table 5.5 Comparison of Site-wide Surface Emissions (tons/yr) for the Four Test Events.

	Event			
Compound	**1 (8/23)**	**2 (3/24)**	**3 (11/24)**	**4 (3/25)**
Carbon dioxide	41,312	327,049	216,177	92,326
Methane	3,357	11,456	6,880	3,007
Total VOC	207	853	61	20
Ethanol	18.3	NQ	0.42	0.2
Acetone	17.6	51	1.30	1.3
Dimethyl sulfide	15.2	57.9	0.93	1.0
Tetrahydrofuran	13.6	107	0.06	0.2
Benzene	9.33	104	0.27	0.90
Methanol	9.09	NQ	0.51	0.77
Methyl ethyl ketone (MEK)	9.06	51.2	0.24	0.25
Propylene	6.62	29.8	0.69	0.26
Isopropyl alcohol (IPA)	3.72	15.2	0.18	0.51
Isopropyl toluene	3.25	13.7	0.25	0.41
Toluene	2.00	18.6	0.22	0.27
Total Xylenes	1.52	9.79	0.30	0.44
Ethylbenzene	1.14	10.1	0.16	0.19
Hydrogen sulfide	0.13	3.81	0.72	0.23
Note: NQ = Not Quantified				

Gas System Mitigation

One of the test cells (Grid Cell 197) was tested twice due to unfortunate suboptimal gas system operation whereby gas wells were taken offline in the grid cell after grid selection had already occurred, so the conditions were not the same as when the grid was selected for testing. Table 5.6 shows the before and after overall test results calculated using the as found condition (Normal Analysis or before) and mitigated gas system condition (Repeat Cell or after). The only species that seemed to be significantly impacted were methane and total VOC as highlighted in Table 5.6 below.

Table 5.6 Comparison of Before and After Gas System Mitigation.

	Emissions (tpy)	
Compound	**Normal Analysis**	**Repeat Cell**
Carbon Dioxide	92,326	89,180
Methane	3,007	2,307
VOC	20.2	16.1
Acetone	1.342	1.548
Dimethyl Sulfide	0.954	0.963
Benzene	0.900	0.956
sec-Butyl Mercaptan / Thiophene	0.846	0.859
Methanol	0.773	0.792
Isopropyl Mercaptan	0.518	0.528
2-propanol (isopropylalcohol)	0.507	0.495
Isopropyltoluene	0.410	0.423
Methyl Mercaptan	0.322	0.328
m,p-Xylenes	0.295	0.292
Toluene	0.274	0.274
Propylene	0.264	0.222
2-Butanone (MEK)	0.247	0.408
Hydrogen Sulfide	0.235	0.240
Ethanol	0.227	0.213
Tetrahydrofuran	0.207	0.208
Acrolein	0.203	0.209
Ethylbenzene	0.189	0.190
o-Xylene	0.143	0.139
Tetrachloroethene (PCE)	0.131	0.047
Cyclohexane	0.072	0.024
n-Heptane	0.061	0.063
Carbon disulfide	0.047	0.048

Method Detection Limit Calculation Assumptions

All officially reported emissions are calculated based on using one half of the method detection limit (MDL) for the concentration when a compound is not detected (ND = MDL/2). Table 5.7 shows the impact of this assumption by comparing the ½ MDL data to a calculation where a "Not Detected" compound is assumed to be a zero value (ND = 0). The emissions of the blue highlighted compounds are the most impacted by this assumption. Note that methyl mercaptan was never detected for this event. The emissions of almost all of the compounds are now being impacted by this ½ MDL assumption.

Table 5.7 Comparison of Method Detection Limit Calculation Assumptions.

	Emissions (tpy)	
Compound	**ND = MDL/2**	**ND = 0**
Carbon Dioxide	92,326	92,326
Methane	3,007	3,005
VOC	20.2	20.0
Acetone	1.342	1.342
Dimethyl Sulfide	0.954	0.614
Benzene	0.900	0.858
sec-Butyl Mercaptan / Thiophene	0.846	0.353
Methanol	0.773	0.738
Isopropyl Mercaptan	0.518	0.012
2-propanol (isopropylalcohol)	0.507	0.453
Isopropyltoluene	0.410	0.288
Methyl Mercaptan	0.322	0.000
m,p-Xylenes	0.295	0.248
Toluene	0.274	0.192
Propylene	0.264	0.264
2-Butanone (MEK)	0.247	0.236
Hydrogen Sulfide	0.235	0.010
Ethanol	0.227	0.117
Tetrahydrofuran	0.207	0.191
Acrolein	0.203	0.197
Ethylbenzene	0.189	0.142
o-Xylene	0.143	0.093
Tetrachloroethene (PCE)	0.131	0.113
Cyclohexane	0.072	0.048
n-Heptane	0.061	0.007
Carbon disulfide	0.047	0.009

Membrane Emissions

Table 5.6 shows the membrane emissions as compared to the total emissions. As of this test event, the membrane covered area was 2,005,938 ft2 out of a total area of 12,900,697 ft2 or 15.5% of the total area. The compounds with the high percent membrane emissions may be permeable through the membrane. However, no hard conclusions can be made from this data since the sampling methodology as defined in the test protocol targets high accuracy on high emitting sources at the expense of accuracy for low emitting sources. This is due to the use of a buoyant tracer (helium) in the flux chamber. This issue can be resolved by using a neutrally buoyant tracer in the flux chamber which will provide high accuracy for all sources.

Table 5.6 Comparison of Total Emissions to Membrane Emissions.

	Emissions (tpy)		
Compound	**Total Emissions**	**Membrane**	**% Membrane**
Carbon Dioxide	92,326	17,608	19%
Methane	3,007	67	2%
VOC	20.2	6.5	32%
Acetone	1.342	0.225	17%
Dimethyl Sulfide	0.954	0.419	44%
Benzene	0.900	0.437	49%
sec-Butyl Mercaptan / Thiophene	0.846	0.257	30%
Methanol	0.773	0.035	5%
Isopropyl Mercaptan	0.518	0.114	22%
2-propanol (isopropylalcohol)	0.507	0.118	23%
Isopropyltoluene	0.410	0.197	48%
Methyl Mercaptan	0.322	0.072	22%
m,p-Xylenes	0.295	0.127	43%
Toluene	0.274	0.119	43%
Propylene	0.264	0.037	14%
2-Butanone (MEK)	0.247	0.135	55%
Hydrogen Sulfide	0.235	0.065	28%
Ethanol	0.227	0.099	44%
Tetrahydrofuran	0.207	0.132	64%
Acrolein	0.203	0.013	6%
Ethylbenzene	0.189	0.083	44%
o-Xylene	0.143	0.038	27%
Tetrachloroethene (PCE)	0.131	0.010	8%
Cyclohexane	0.072	0.005	7%
n-Heptane	0.061	0.015	25%
Carbon disulfide	0.047	0.010	20%

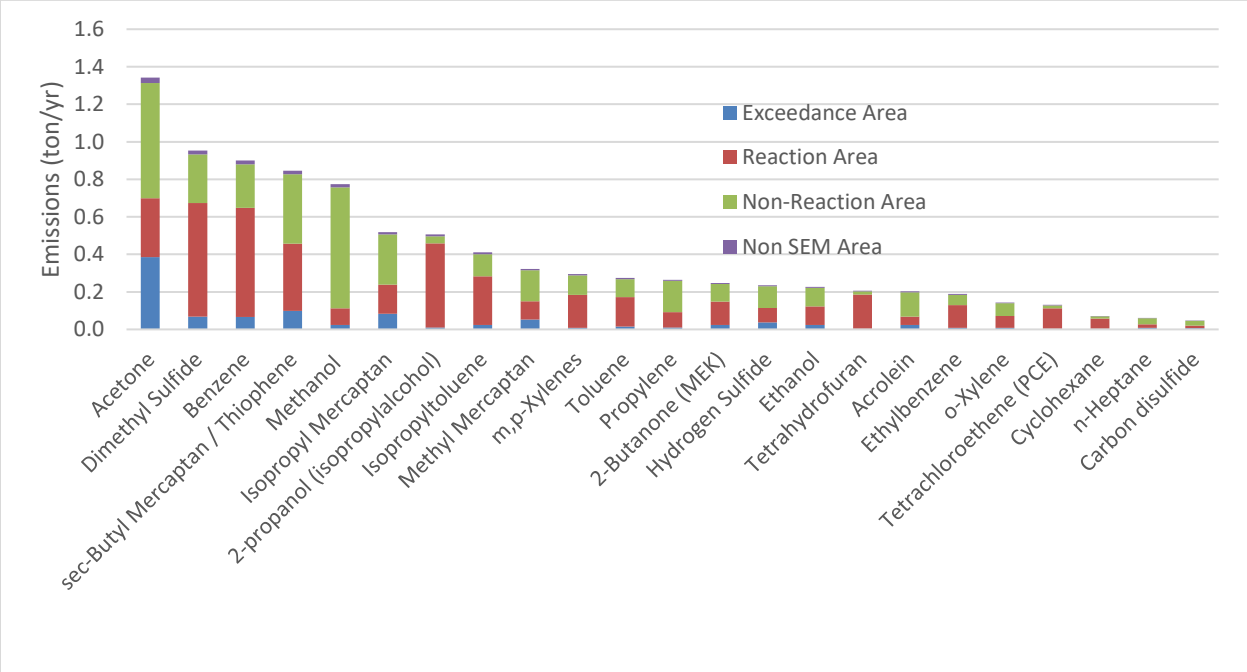
Emissions Distribution by Source Category

The emissions are computed by category, with the four categories being:

1. Exceedance Area
2. Reaction Area
3. Non-reaction Area
4. Non-SEM Area

Figure 5.1 shows distribution of emissions for the top speciated TO-15/307-91 compounds. This graph shows that emissions for dimethyl sulfide, benzene, and isopropanol are dominated by the emissions from the reaction area. Conversely, emissions for methanol, isopropyl mercaptan and propylene are dominated by the non-reaction area.

Figure 5.1 Emissions Distribution by Source Category



Trend Analysis of Individual Compounds and Compound Groups

Figure 5.2 shows the trend for total VOC by TO-12. It is gradually bottoming out after the steep decline between the Second and Third Events.

Figure 5.2 Total VOC for all Sampling Events.

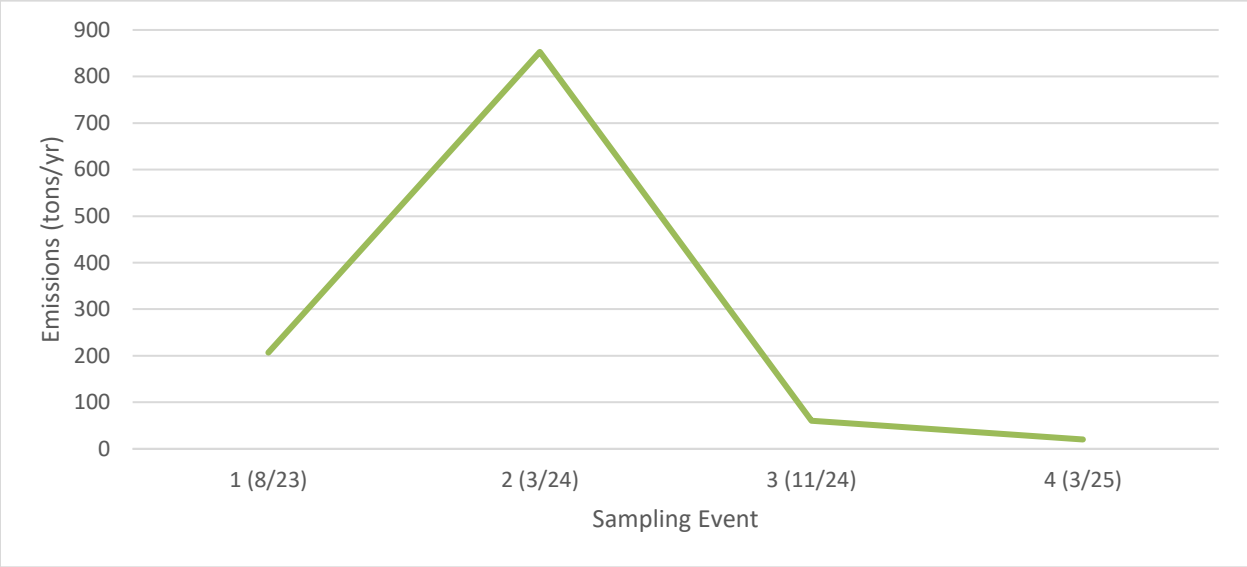
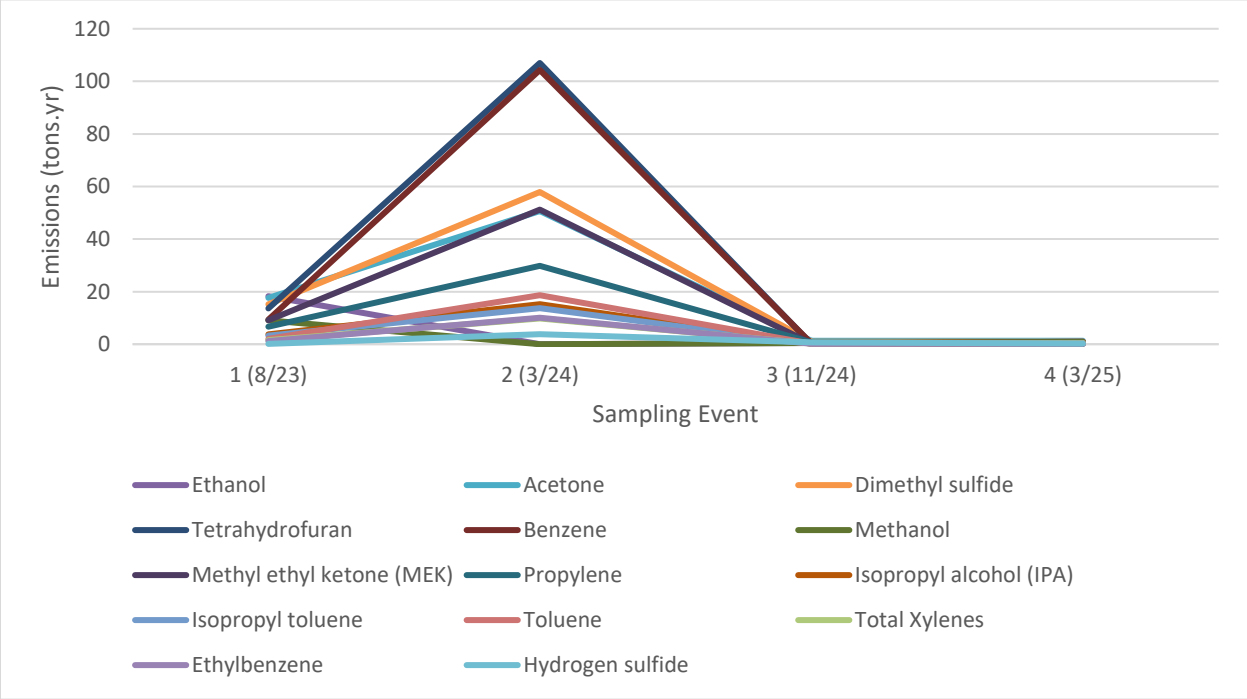


Figure 5.3 shows the trend for speciated toxic compounds. This figure shows that the toxic emissions are holding steady at a fairly low level between the Third and Fourth Events. The future toxic emissions will likely not deviate from the levels found during the Third and Fourth Events.

Figure 5.3 Speciated Toxic Compounds for all Sampling Events.

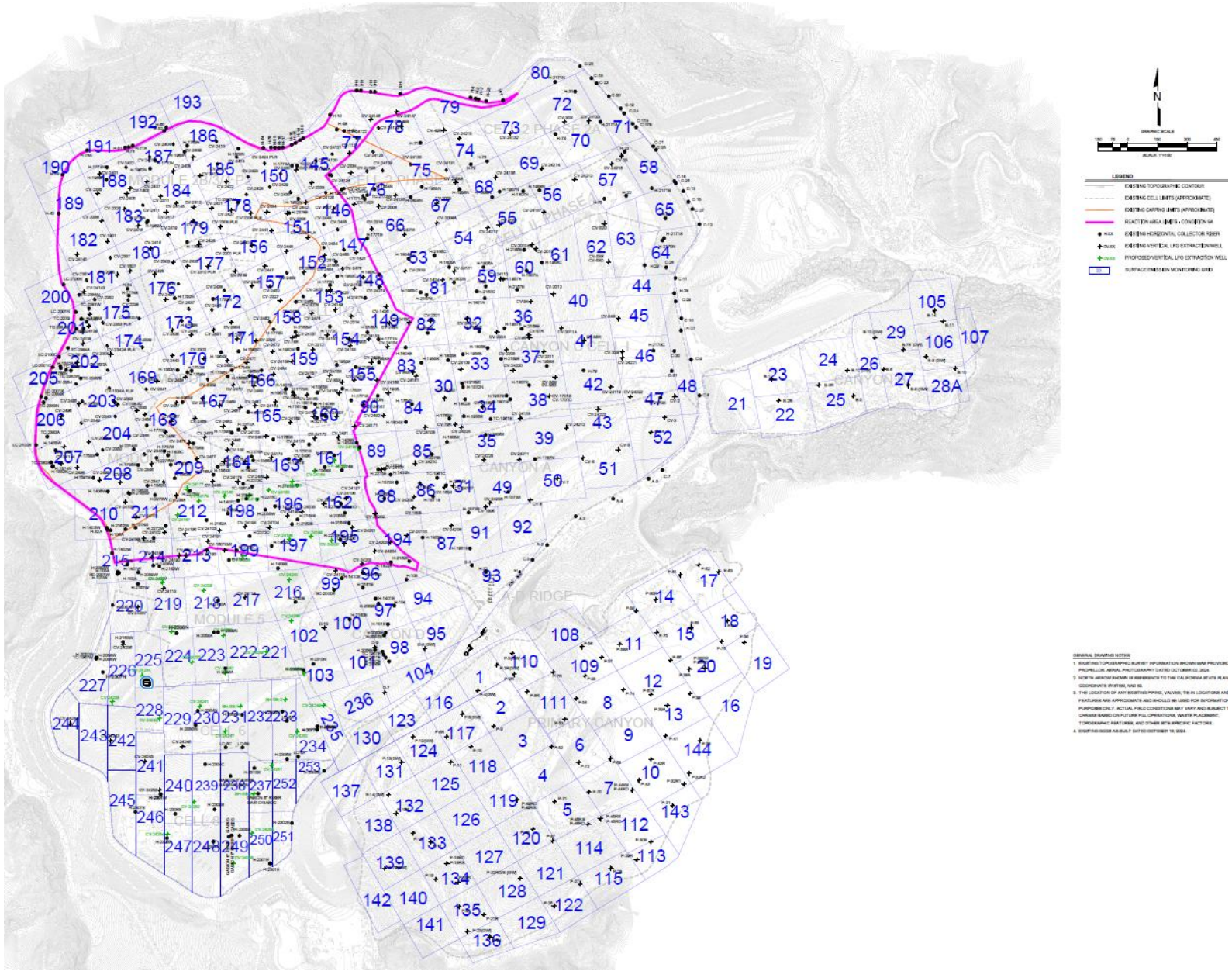


6. Works Cited

Card and Schmidt. *Chiquita Canyon Landfill, Castaic, California, Post Remediation Assessment of Air Emissions from Landfill Surfaces, Sampling Protocol*. December 2023

U.S. Environmental Protection Agency (USEPA). 1986. *Measurement of Gaseous Emission Rates from Land Surfaces Using an Emission Isolation Flux Chamber- User's Guide*, EPA 600/8-86-008 (NTIS PB86-223161).

Appendix 1
Reaction Area Designation Map


N
LEGEND
EXISTING TOPOGRAPHIC CONTOUR
EXISTING CELL LIMITS (APPROXIMATE)
EXISTING CAPPING LIMITS (APPROXIMATE)
REACTION AREA LIMITS (CONDITION IA)
EXISTING HORIZONTAL COLLECTOR WELL
EXISTING VERTICAL LFG EXTRACTION WELL
PROPOSED VERTICAL LFG EXTRACTION WELL
SURFACE EMISSION MONITORING GRID
GENERAL DRAWING NOTES
1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS PROVIDE
PROPELLOR, AERIAL PHOTOGRAPHY DATED OCTOBER 03, 2024.
2. NORTH ARROW SHOWN IS REFERENCE TO THE CALIFORNIA STATE PLAN
COORDINATE SYSTEM, NAD 83.
3. THE LOCATION OF ANY EXISTING PIPING, VALVES, TIE-IN LOCATIONS AN
FEATURES ARE APPROXIMATE AND SHOULD BE USED FOR INFORMATIO
PURPOSES ONLY. ACTUAL FIELD CONDITIONS MAY VARY AND SUBJECT
CHANGE BASED ON FUTURE FILL OPERATIONS, WASTE PLACEMENT,
TOPOGRAPHIC FEATURES, AND OTHER SITE-SPECIFIC FACTORS.
4. EXISTING SCCR AS-BUILT DATED OCTOBER 16, 2024.

Appendix 2
Grid Cell Field Screening Data

Chiquita Canyon Landfill
Cell Screening Form

Grid ID 76

Instrument _____

Baseline _____

Exceedances

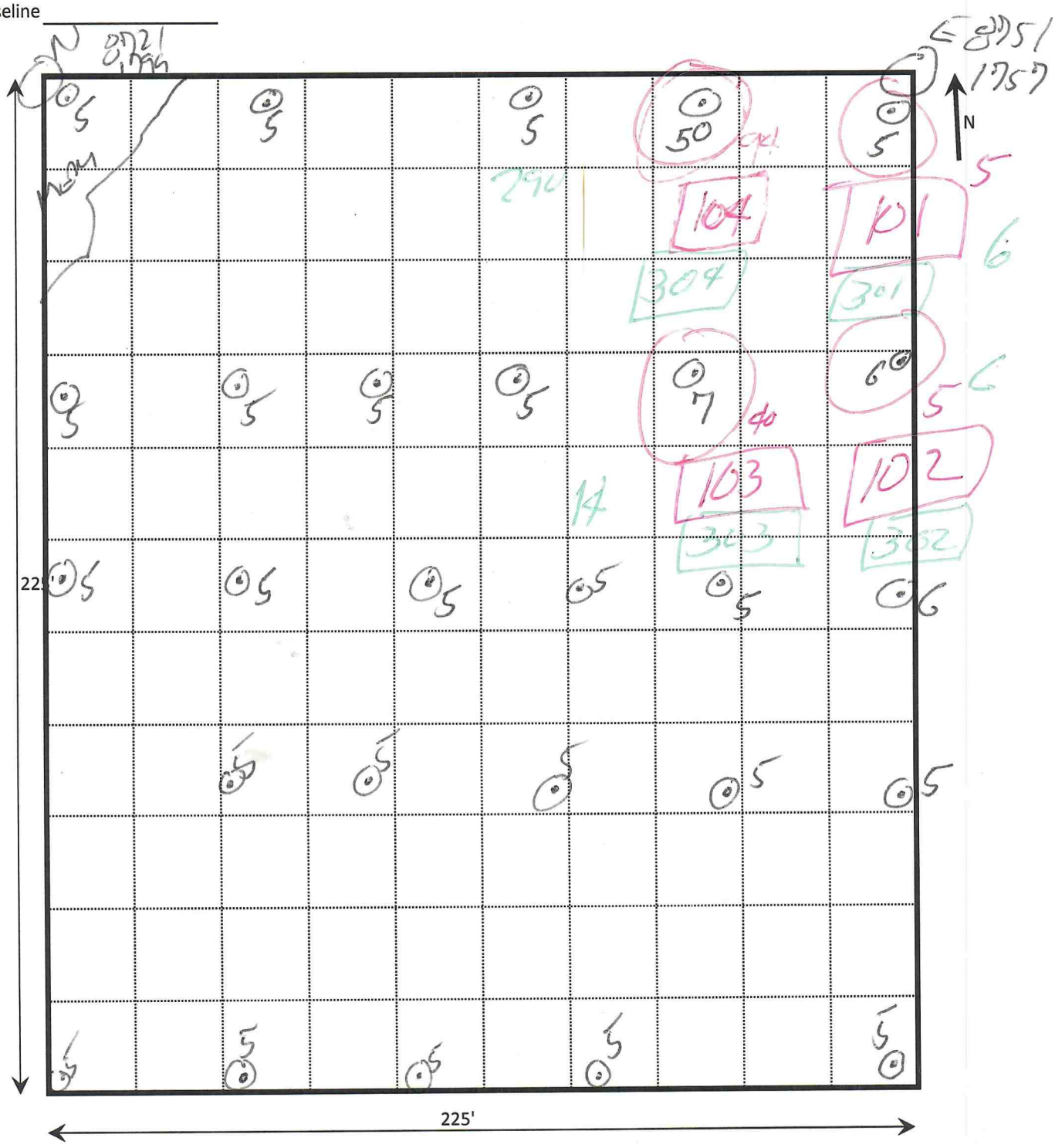
Coordinates are: **11S 34_,_ _ _**
3,81_,_ _ _

Date 3/18 3/19 3/21

Time 9:16

Windpeed/Dir _____

Samplers _____



Chiquita Canyon Landfill
Cell Screening Form

Grid ID 174

Instrument _____

Baseline _____

Reading Mec

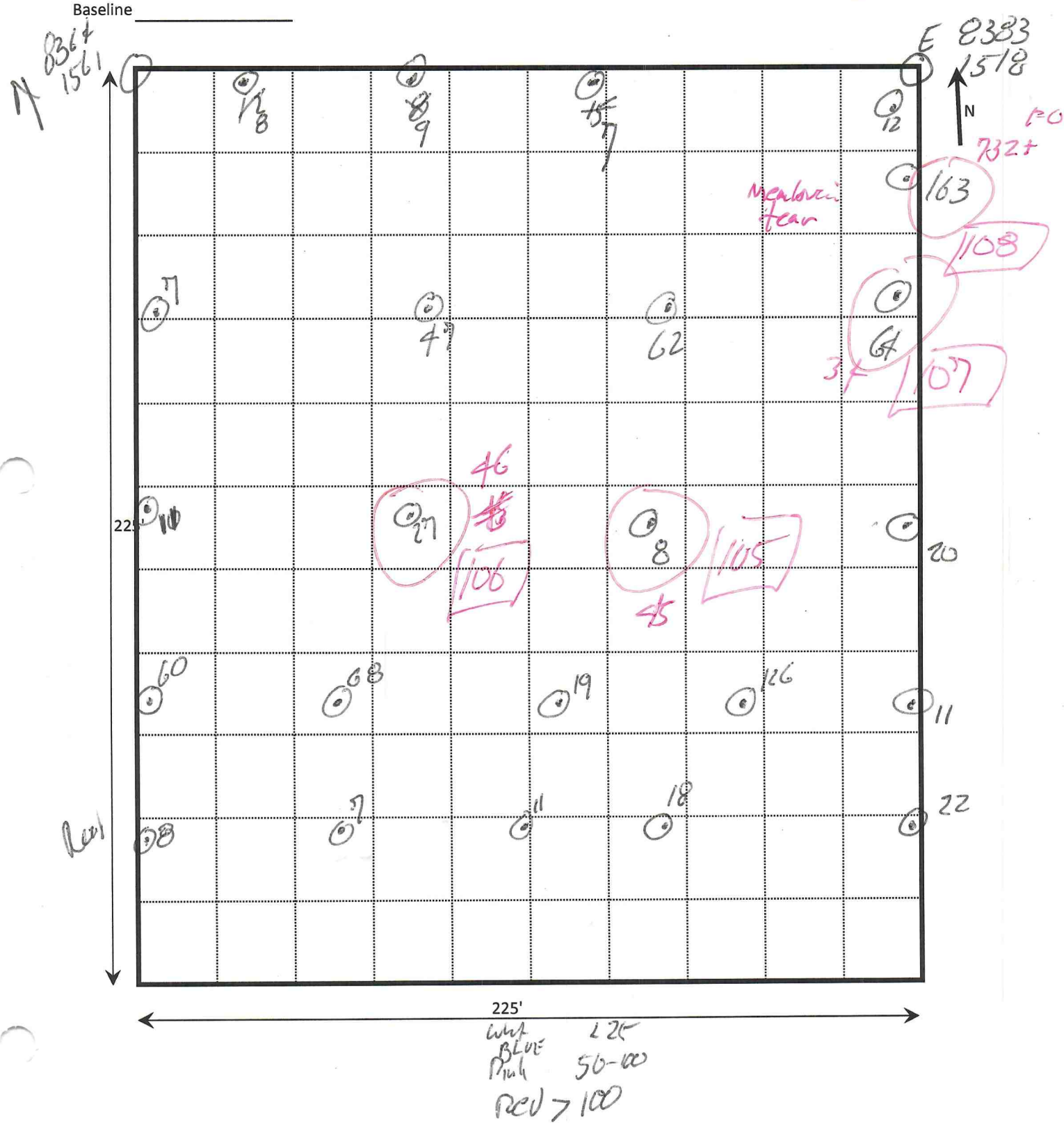
Coordinates are: 11S 34_,___
3,81_,___

Date 3/18 3/19

Time 7:47

Windpeed/Dir 5+

Samplers _____



Chiquita Canyon Landfill
Cell Screening Form

Reactor High

Date 3/18 3/19

Time 8:15

Grid ID 169

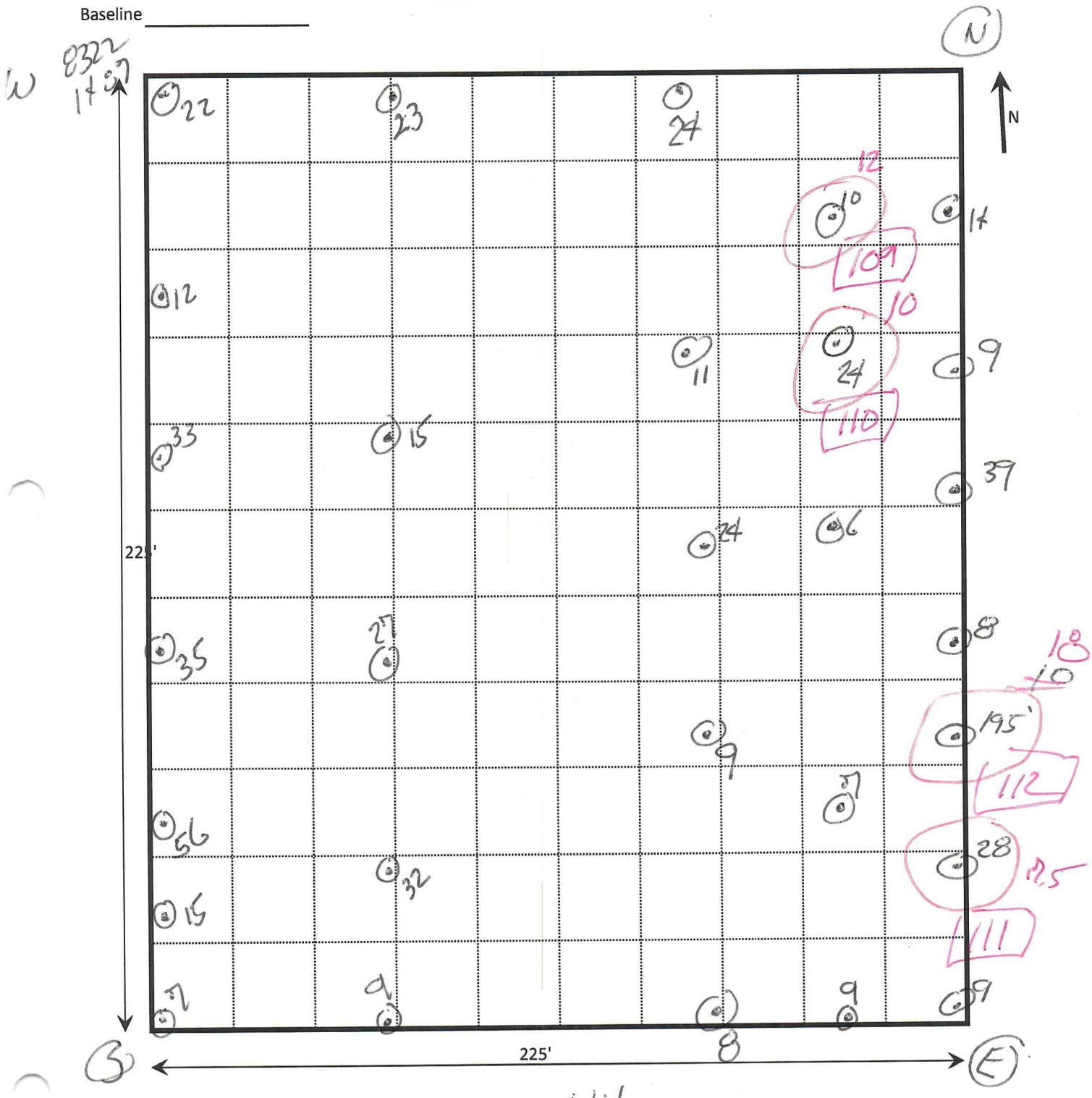
Instrument _____

Baseline _____

Coordinates are: 11S 34_,___
3,81_,___

Windpeed/Dir _____

Samplers _____



which
Blue
Red
Red

Chiquita Canyon Landfill
Cell Screening Form

Grid ID 153

Instrument _____

Baseline _____

Reaction Low

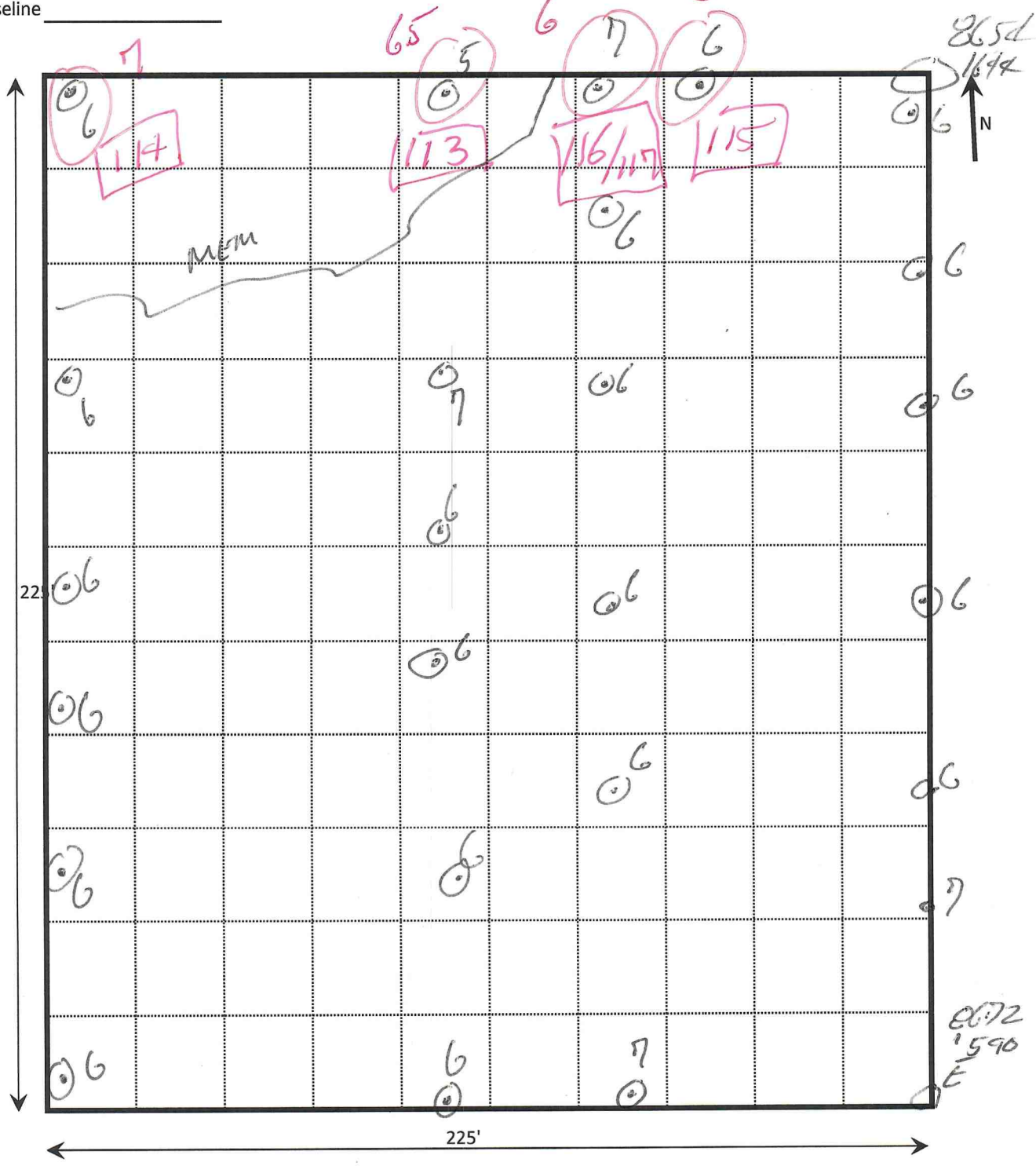
Coordinates are: **11S 34_,___**
3,81_,___

Date 3/6 3/19

Time 8:54

Windpeed/Dir _____

Samplers _____



Chiquita Canyon Landfill
Cell Screening Form

Grid ID 87

Instrument _____

Baseline _____

Normal
STEEP MeJ

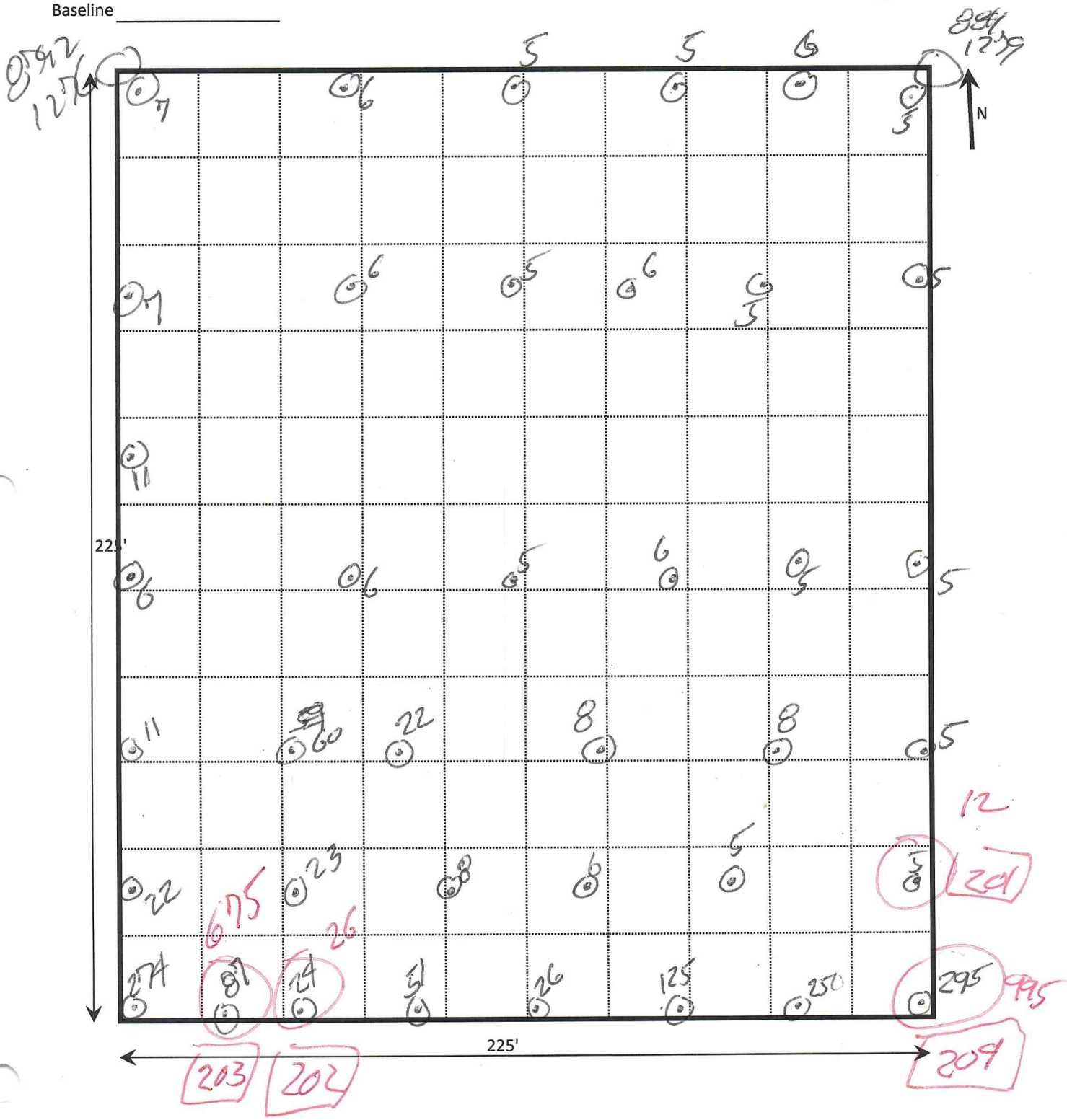
Coordinates are: 11S 34_,___
3,81_,___

Date 3/18 3/20

Time 10:06

Windpeed/Dir _____

Samplers _____



Chiquita Canyon Landfill
Cell Screening Form

Grid ID 197

Instrument _____

Baseline _____

Reach M-J

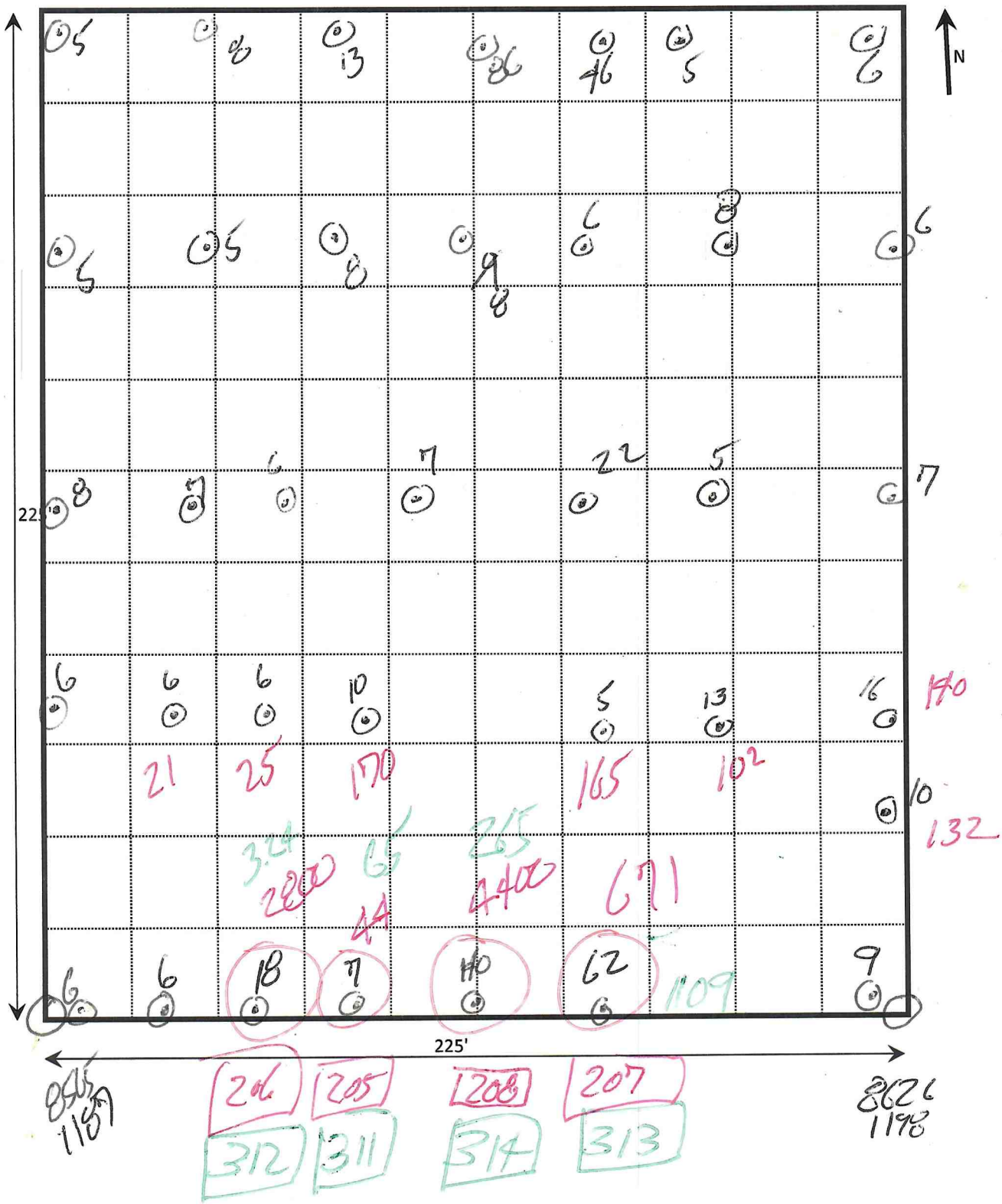
Coordinates are: 11S 34_,___
3,81_,___

Date 3/18 3/20 3/21

Time 10:48

Windpeed/Dir _____

Samplers _____



Normal

Low

Chiquita Canyon Landfill
Cell Screening Form

Date 3/18 3/20

Time 1231

Grid ID 108

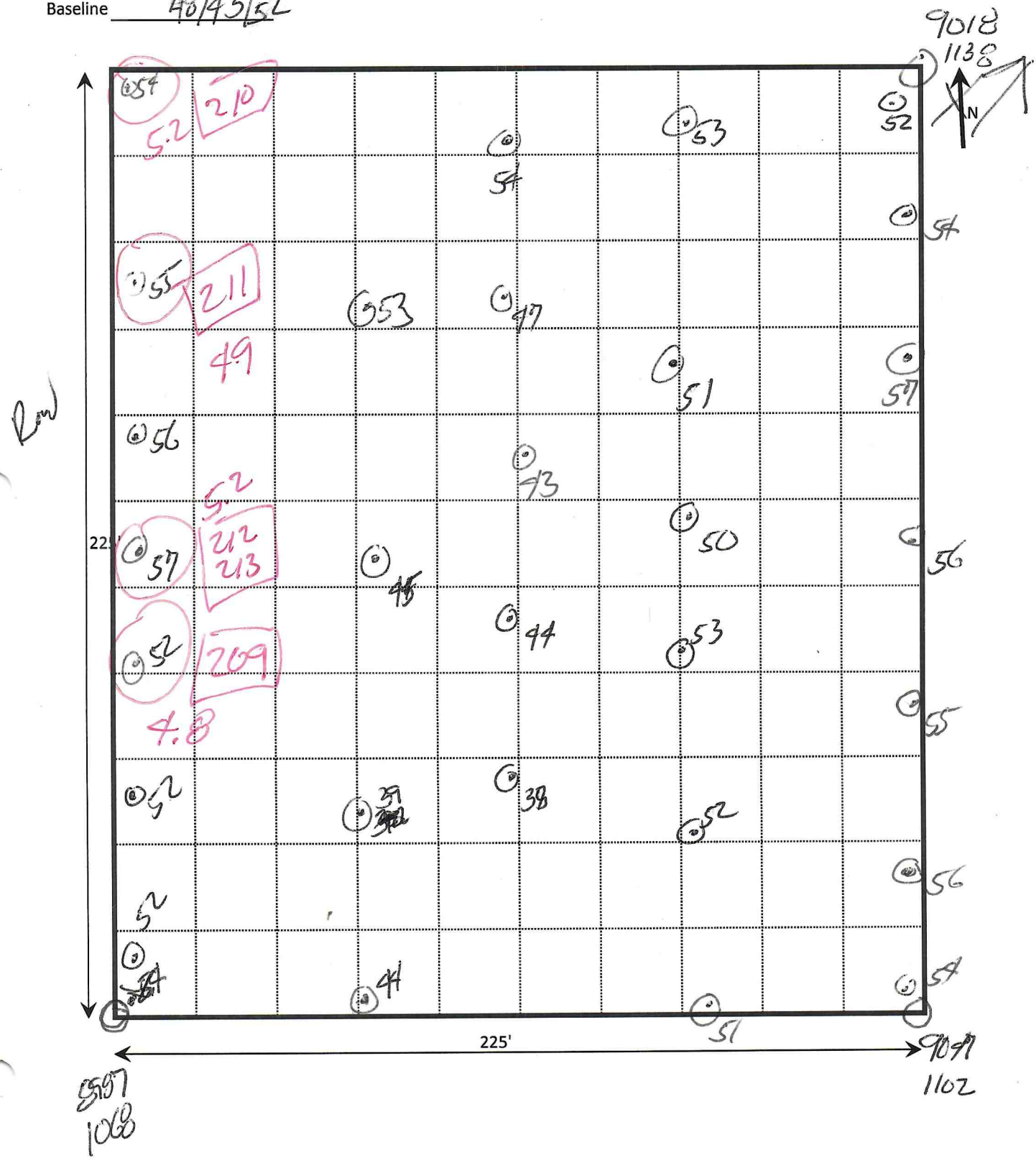
Instrument _____

Baseline 48/43/52

Coordinates are: 11S 34_,___
3,81_,___

Windpeed/Dir _____

Samplers _____



Normal
Mish

Chiquita Canyon Landfill
Cell Screening Form

Date 3/18 3/20

Time 11:24

Grid ID 250

Windpeed/Dir _____

Instrument _____

Coordinates are: 11S 34_,___
3,81_,___

Samplers _____

Baseline _____

8344 0894

8548 0736

N

225'

237'

225'

8344 0894

8548 0736

Normal
MoJ

Chiquita Canyon Landfill
Cell Screening Form

Grid ID 237

Instrument _____

Baseline _____

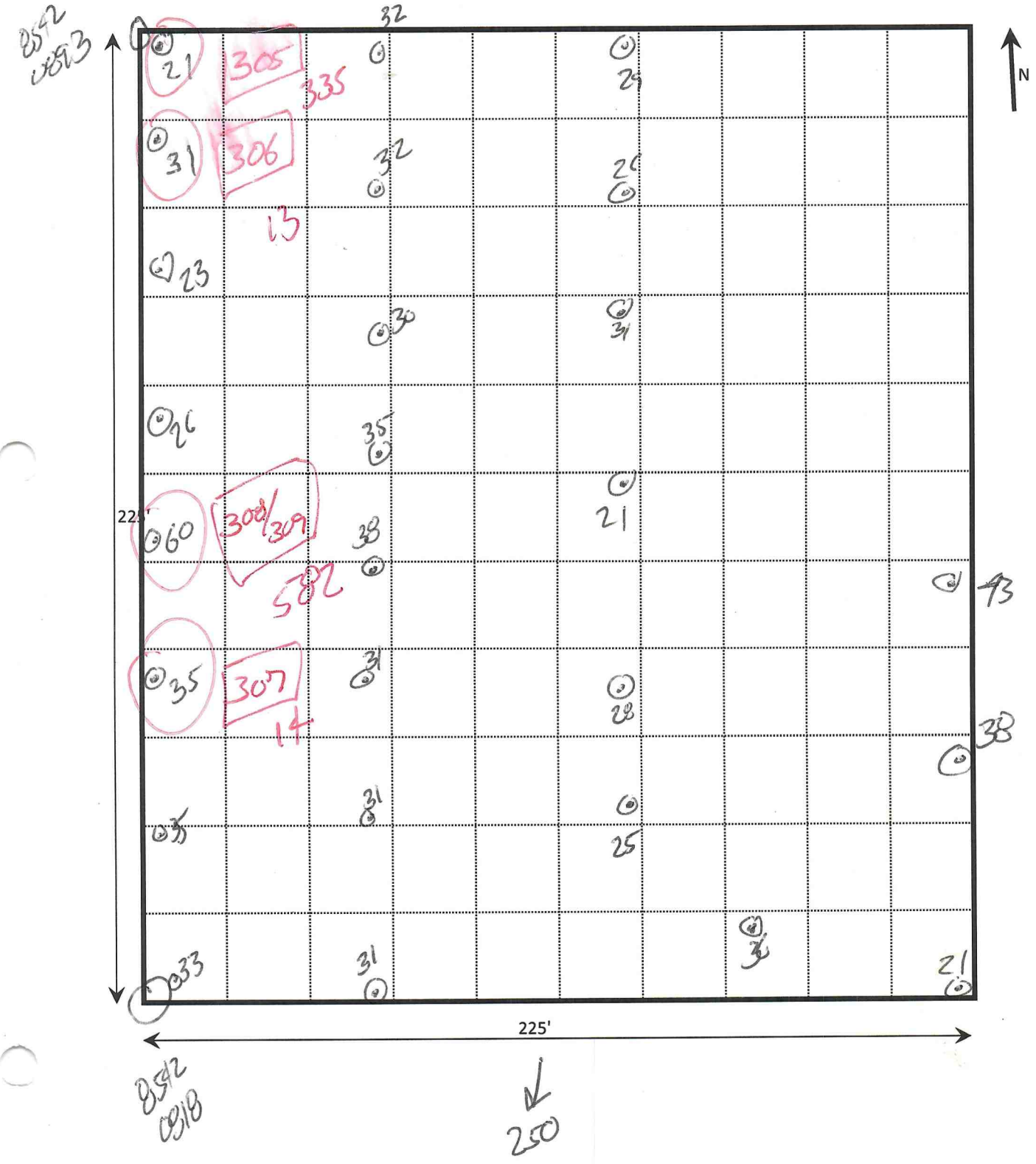
Coordinates are: 11S 34_,___
3,81_,___

Date 3/18 3/21

Time 11:55

Windpeed/Dir _____

Samplers _____



Appendix 3

Emissions Calculations for Each Compound

Methane

74-82-8

				Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Rep Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	0.056	0.074	0.27	12.0	0.085	0.07	0.17	0.093	2,323,625	215,872	20,097	23,287	12
Repeat		76		48,758	4,530	0.067	0.32	0.88	72.9	0.25	0.12							
Reaction Area	High	169	Y	54,459	5,059	1.80	1.45	0.38	0.42	1.52	1.44	1.517	1.444	651,160	60,495	87,365	101,232	50.62
Reaction Area	Med	174	Y	48,344	4,491	0.52	0.54	0.28	22,015	1.22	1.19	37.7	17.6	865,785	80,434	1,411,843	1,635,945	817.97
Reaction Area	Med	197		56,626	5,261	10.9	163.7	32.1	48.2	74.17	33.92							
Repeat		197		56,626	5,261	2.52	16.2	3.57	35.8	8.08	4.50							
Reaction Area	Low	153	M	45,864	4,261	0.157	0.056	<1.07E-02	<1.09E-02	<1.02E-01	<4.64E-02	<1.02E-01	<4.64E-02	1,403,780	<1.30E+05	<6.05E+03	<7.01E+03	<3.51E+00
Non-Reaction Area	High	250		47,494	4,412	0.25	<1.13E-02	0.18	480	<1.65E-01	<2.11E-01	<1.65E-01	<2.11E-01	1,076,908	<1.00E+05	<2.11E+04	<2.45E+04	<1.22E+01
Non-Reaction Area	Med	87		58,663	5,450	0.56	9.20	233	8.48	27.25	32.12	14.5	19.4	1,950,276	181,187	3,516,944	4,075,189	2,038
Non-Reaction Area	Med	237		30,995	2,880	0.37	0.21	15.46	10.65	1.82	6.70							
Non-Reaction Area	Low	108		52,575	4,884	<1.18E-02	0.15	<1.02E-02	<1.12E-02	<6.51E-02	<3.45E-02	0.085	0.085	4,347,548	<4.04E+05	<1.39E+04	<1.61E+04	<8.07E+00
Non SEM Area													<4.33E+00	281,615	26,163	<1.13E+05	<1.31E+05	<6.56E+01
Total														12,900,697	1,198,514	<5.08E+06	**<5.88E+06**	**<3.01E+03**
									Membrane				0.623	2,005,938	186,358	116,058	134,480	67.2

Average Flux = <4.33E+03 ug/m2-min
<4.33E+00 mg/m2-min
Avg Mem. Flux = 0.62 mg/m2-min

CO2

124-38-9

				Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Rep Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	125	146	242	168	145	131	110	96	2,323,625	215,872	20,748,601	24,042,030	12,021
Repeat		76		48,758	4,530	56	86	133	273	75	61							
Reaction Area	High	169	Y	54,459	5,059	336	205	55	33	256	256	256	256	651,160	60,495	15,460,861	17,914,965	8,957
Reaction Area	Med	174	Y	48,344	4,491	201	327	100	75,863	244	215	580	346	865,785	80,434	27,807,943	32,221,902	16,111
Reaction Area	Med	197		56,626	5,261	228	1,895	432	756	915	477							
Repeat		197		56,626	5,261	343	393	281	547	357	345							
Reaction Area	Low	153	M	45,864	4,261	161	49	19	<5.98E+00	<1.02E+02	<4.46E+01	<1.02E+02	<4.46E+01	1,403,780	<1.30E+05	<5.82E+06	<6.74E+06	<3.37E+03
Non-Reaction Area	High	250		47,494	4,412	272	28	88	2,940	156	193	156	193	1,076,908	100,048	19,295,860	22,358,694	11,179
Non-Reaction Area	Med	87		58,663	5,450	330	227	598	84	316	343	249	264	1,950,276	181,187	47,877,058	55,476,591	27,738
Non-Reaction Area	Med	237		30,995	2,880	192	166	194	158	182	185							
Non-Reaction Area	Low	108		52,575	4,884	34	80	57	44	55	47	0	0	4,347,548	403,900	18,867,292	21,862,100	10,931
Non SEM Area													133.0	281,615	26,163	3,478,661	4,030,829	2,015
Total														12,900,697	1,198,514	<1.56E+08	**<1.81E+08**	**<9.23E+04**
									Membrane				163.084	2,005,938	186,358	30,391,963	35,216,084	17,608.0

Average Flux =	<1.33E+05	ug/m2-min
	133	mg/m2-min
Avg Mem. Flux =	163.08	mg/m2-min

VOC (TNMHC)

0						Flux (mg/m2-min)												
		Rep		Cell Area						Weighted Avg.		Used		Area Rep		Emissions		
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	0.011	0.020	0.0080	0.0088	0.014	0.012	0.0090	0.0082	2,323,625	215,872	1,773	2,054	1.03
Repeat		76		48,758	4,530	0.0048	<1.71E-03	0.0049	0.027	<3.57E-03	<4.55E-03							
Reaction Area	High	169	Y	54,459	5,059	0.183	0.159	0.057	0.053	0.161	0.153	0.161	0.153	651,160	60,495	9,259	10,729	5.36
Reaction Area	Med	174	Y	48,344	4,491	0.019	<4.62E-03	0.009	19.4	<1.29E-02	<1.35E-02	<3.13E-01	<1.25E-01	865,785	80,434	<1.00E+04	<1.16E+04	<5.82E+00
Reaction Area	Med	197		56,626	5,261	0.030	1.467	0.113	0.122	0.613	0.236							
Repeat		197		56,626	5,261	0.027	0.302	<3.80E-03	0.738	<1.35E-01	<6.35E-02							
Reaction Area	Low	153	M	45,864	4,261	0.008	0.047	0.0031	0.002	0.023	0.031	0.023	0.031	1,403,780	130,415	4,103	4,754	2.38
Non-Reaction Area	High	250		47,494	4,412	0.013	<1.01E-03	0.0072	0.773	<7.59E-03	<9.66E-03	<7.59E-03	<9.66E-03	1,076,908	<1.00E+05	<9.66E+02	<1.12E+03	<5.60E-01
Non-Reaction Area	Med	87		58,663	5,450	0.011	0.011	0.407	0.028	0.051	0.062	0.031	0.039	1,950,276	181,187	7,005	8,117	4.06
Non-Reaction Area	Med	237		30,995	2,880	0.010	0.010	0.023	0.014	0.011	0.016							
Non-Reaction Area	Low	108		52,575	4,884	<1.07E-03	0.0046	0.0044	0.0052	<2.81E-03	<2.37E-03	0.0851	0.0851	4,347,548	<4.04E+05	<9.58E+02	<1.11E+03	<5.55E-01
Non SEM Area													<2.91E-02	281,615	26,163	<7.61E+02	<8.82E+02	<4.41E-01
Total														12,900,697	1,198,514	**<3.41E+04**	**<3.95E+04**	**<2.02E+01**
									Membrane				<6.00E-02	2,005,938	186,358	<1.12E+04	<1.30E+04	<6.48E+00

Average Flux = <2.91E+01 ug/m2-min
<2.91E-02 mg/m2-min
Avg Mem. Flux = <6.00E-02 mg/m2-min

Benzene
71-43-2

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	0.0006	<2.28E-04	<3.47E-04	<2.22E-04	<4.50E-04	<6.04E-04	<4.85E-04	<5.38E-04	2,323,625	215,872	<1.16E+02	<1.35E+02	<6.73E-02
Repeat		76		48,758	4,530	0.0005	0.0006	0.0006	<1.92E-04	<5.21E-04	<4.72E-04							
Reaction Area	High	169	Y	54,459	5,059	0.0148	0.0126	0.0011	0.0009	0.0126	0.0116	0.0126	0.0116	651,160	60,495	701	812	0.406
Reaction Area	Med	174	Y	48,344	4,491	0.0017	0.0016	0.0009	6.2390	0.0017	0.0017	0.0013	0.0012	865,785	80,434	93	107	0.054
Reaction Area	Med	197		56,626	5,261	<4.48E-04	0.0011	0.0017	<5.36E-04	<8.24E-04	<6.41E-04							
Repeat		197		56,626	5,261	0.0032	0.0024	0.0023	0.0022	0.0028	0.0030							
Reaction Area	Low	153	M	45,864	4,261	0.0007	0.0023	0.0004	0.0004	0.0013	0.0016	0.0013	0.0016	1,403,780	130,415	210	243	0.121
Non-Reaction Area	High	250		47,494	4,412	0.0015	0.0007	0.0006	0.0013	0.0011	0.0012	0.0011	0.0012	1,076,908	100,048	122	142	0.071
Non-Reaction Area	Med	87		58,663	5,450	<3.40E-04	0.0006	0.0017	<1.05E-04	<5.84E-04	<5.67E-04	<9.60E-04	<9.72E-04	1,950,276	<1.81E+05	<1.76E+02	<2.04E+02	<1.02E-01
Non-Reaction Area	Med	237		30,995	2,880	0.0013	0.0014	0.0014	0.0013	0.0013	0.0014							
Non-Reaction Area	Low	108		52,575	4,884	<1.35E-04	0.0006	0.0003	0.0004	<3.36E-04	<2.52E-04	0.0851	0.0851	4,347,548	<4.04E+05	<1.02E+02	<1.18E+02	<5.90E-02
Non SEM Area													<1.30E-03	281,615	26,163	<3.39E+01	<3.93E+01	<1.97E-02
Total														12,900,697	1,198,514	**<1.52E+03**	**<1.76E+03**	**<9.00E-01**
									Membrane				0.0041	2,005,938	186,358	755	875	0.437

Average Flux = <1.30E+00 ug/m2-min
<1.30E-03 mg/m2-min
Avg Mem. Flux = 0.0041 mg/m2-min

Tetrahydrofuran
109-99-9

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<2.69E-05	<3.05E-05	<4.57E-05	0.00022	<3.02E-05	<2.79E-05	<2.79E-05	<2.52E-05	2,323,625	215,872	<5.45E+00	<6.32E+00	<3.16E-03
Repeat		76		48,758	4,530	<2.16E-05	<2.88E-05	<3.12E-05	<2.52E-05	<2.55E-05	<2.26E-05							
Reaction Area	High	169	Y	54,459	5,059	0.00399	0.00262	0.00302	<1.66E-05	<3.34E-03	<3.55E-03	<3.34E-03	<3.55E-03	651,160	60,495	<2.15E+02	<2.49E+02	<1.24E-01
Reaction Area	Med	174	Y	48,344	4,491	<4.45E-05	0.00040	<2.97E-05	2.73500	<2.74E-04	<2.27E-04	<3.56E-04	<2.14E-04	865,785	80,434	<1.72E+01	<2.00E+01	<9.99E-03
Reaction Area	Med	197		56,626	5,261	<5.87E-05	0.00095	0.00029	<7.07E-05	<4.38E-04	<2.02E-04							
Repeat		197		56,626	5,261	<7.83E-05	0.00138	<6.37E-05	<6.50E-05	<5.97E-04	<2.58E-04							
Reaction Area	Low	153	M	45,864	4,261	<4.44E-05	0.00087	0.00027	<1.65E-05	<3.97E-04	<6.41E-04	<3.97E-04	<6.41E-04	1,403,780	<1.30E+05	<8.37E+01	<9.69E+01	<4.85E-02
Non-Reaction Area	High	250		47,494	4,412	<4.66E-05	0.00023	<1.96E-05	<2.40E-05	<1.16E-04	<7.51E-05	<1.16E-04	<7.51E-05	1,076,908	<1.00E+05	<7.52E+00	<8.71E+00	<4.35E-03
Non-Reaction Area	Med	87		58,663	5,450	<4.45E-05	<3.85E-05	0.00056	0.00015	<9.32E-05	<1.09E-04	<6.17E-05	<7.01E-05	1,950,276	<1.81E+05	<1.27E+01	<1.47E+01	<7.36E-03
Non-Reaction Area	Med	237		30,995	2,880	0.00003	<3.02E-05	<3.37E-05	<3.57E-05	<3.02E-05	<3.15E-05							
Non-Reaction Area	Low	108		52,575	4,884	<1.81E-05	<2.83E-05	<1.57E-05	0.00009	<2.19E-05	<1.93E-05	0.08512	0.08512	4,347,548	<4.04E+05	<7.81E+00	<9.05E+00	<4.53E-03
Non SEM Area													<2.98E-04	281,615	26,163	<7.79E+00	<9.03E+00	<4.52E-03
Total														12,900,697	1,198,514	**<3.49E+02**	**<4.05E+02**	**<2.07E-01**
									Membrane				<1.23E-03	2,005,938	186,358	<2.28E+02	<2.65E+02	<1.32E-01

Average Flux =	<2.98E-01	ug/m2-min
	<2.98E-04	mg/m2-min
Avg Mem. Flux =	<1.23E-03	mg/m2-min

Acetone
67-64-1

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	0.00606	0.00056	0.00172	0.00194	0.00343	0.00547	0.00227	0.00308	2,323,625	215,872	666	771	0.3856
Repeat		76		48,758	4,530	0.00052	0.00125	0.00354	0.00069	0.00111	0.00069							
Reaction Area	High	169	Y	54,459	5,059	0.00229	0.00172	0.00668	0.00190	0.00250	0.00310	0.00250	0.00310	651,160	60,495	187	217	0.1086
Reaction Area	Med	174	Y	48,344	4,491	0.00093	0.00164	0.00047	0.00894	0.00117	0.00102	0.00236	0.00220	865,785	80,434	177	205	0.1026
Reaction Area	Med	197		56,626	5,261	0.00317	0.00369	0.00482	0.00329	0.00355	0.00338							
Repeat		197		56,626	5,261	0.00563	0.05166	0.00571	0.01023	0.02405	0.01203							
Reaction Area	Low	153	M	45,864	4,261	0.00250	0.00060	0.00270	0.00065	0.00176	0.00135	0.00176	0.00135	1,403,780	130,415	176	204	0.1021
Non-Reaction Area	High	250		47,494	4,412	0.00474	0.00161	0.00369	0.00249	0.00339	0.00397	0.00339	0.00397	1,076,908	100,048	397	460	0.2300
Non-Reaction Area	Med	87		58,663	5,450	0.00167	0.00145	0.00130	0.00081	0.00155	0.00158	0.00162	0.00166	1,950,276	181,187	301	349	0.1743
Non-Reaction Area	Med	237		30,995	2,880	0.00154	0.00185	0.00179	0.00186	0.00169	0.00174							
Non-Reaction Area	Low	108		52,575	4,884	0.00076	0.00147	0.00081	0.00154	0.00105	0.00090	0.08512	0.08512	4,347,548	403,900	362	419	0.2095
Non SEM Area													0.00193	281,615	26,163	51	59	0.0293
Total														12,900,697	1,198,514	**2,266**	**2,625**	**1.342**
								Membrane					0.0021	2,005,938	186,358	388	449	0.225

Average Flux = 1.932 ug/m2-min
0.00193 mg/m2-min
Avg Mem. Flux = 0.0021 mg/m2-min

Propylene

115-07-1

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	0.00007	<3.47E-05	0.00011	0.00017	<6.21E-05	<7.24E-05	<7.39E-05	<7.44E-05	2,323,625	215,872	<1.61E+01	<1.86E+01	<9.31E-03
Repeat		76		48,758	4,530	0.00007	0.00009	0.00011	0.00168	0.00009	0.00008							
Reaction Area	High	169	Y	54,459	5,059	0.00066	0.00044	0.00015	0.00101	0.00052	0.00052	0.00052	0.00052	651,160	60,495	31	36	0.0182
Reaction Area	Med	174	Y	48,344	4,491	0.00014	0.00028	0.00010	0.03068	0.00019	0.00017	0.00260	0.00120	865,785	80,434	96	112	0.0558
Reaction Area	Med	197		56,626	5,261	0.00076	0.01145	0.00053	0.00056	0.00501	0.00223							
Repeat		197		56,626	5,261	0.00042	0.00061	0.00038	0.00059	0.00049	0.00044							
Reaction Area	Low	153	M	45,864	4,261	0.00022	0.00012	0.00009	0.00008	0.00017	0.00012	0.00017	0.00012	1,403,780	130,415	15	17	0.0087
Non-Reaction Area	High	250		47,494	4,412	0.00034	0.00011	0.00015	<2.80E-05	<2.32E-04	<2.64E-04	<2.32E-04	<2.64E-04	1,076,908	<1.00E+05	<2.64E+01	<3.06E+01	<1.53E-02
Non-Reaction Area	Med	87		58,663	5,450	0.00024	0.00063	0.01487	0.00487	0.00186	0.00220	0.00104	0.00125	1,950,276	181,187	226	262	0.1309
Non-Reaction Area	Med	237		30,995	2,880	0.00018	0.00021	0.00043	0.00030	0.00022	0.00030							
Non-Reaction Area	Low	108		52,575	4,884	0.00008	0.00013	0.00006	0.00006	0.00010	0.00009	0.08512	0.08512	4,347,548	403,900	35	40	0.0202
Non SEM Area													0.00038	281,615	26,163	10	12	0.0058
Total														12,900,697	1,198,514	**<4.46E+02**	**<5.17E+02**	**<2.64E-01**
									Membrane				0.0003	2,005,938	186,358	64	75	0.037

Average Flux = <3.80E-01 ug/m2-min

0.00038 mg/m2-min

Avg Mem. Flux = 0.0003 mg/m2-min

Methanol
67-56-1

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<1.20E-04	<1.33E-04	<2.03E-04	<1.29E-04	<1.33E-04	<1.24E-04	<2.08E-04	<1.89E-04	2,323,625	215,872	<4.09E+01	<4.73E+01	<2.37E-02
Repeat		76		48,758	4,530	0.00025	0.00032	0.00030	<1.13E-04	<2.83E-04	<2.55E-04							
Reaction Area	High	169	Y	54,459	5,059	<3.22E-04	<2.03E-04	0.00058	0.00022	<3.01E-04	<3.56E-04	<3.01E-04	<3.56E-04	651,160	60,495	<2.15E+01	<2.49E+01	<1.25E-02
Reaction Area	Med	174	Y	48,344	4,491	<1.93E-04	<3.44E-04	<1.29E-04	0.00073	<2.47E-04	<2.19E-04	<1.39E-03	<1.39E-03	865,785	80,434	<1.12E+02	<1.30E+02	<6.50E-02
Reaction Area	Med	197		56,626	5,261	0.00240	0.00210	0.00493	0.00299	0.00253	0.00257							
Repeat		197		56,626	5,261	0.00302	0.00487	0.00416	0.00552	0.00387	0.00337							
Reaction Area	Low	153	M	45,864	4,261	0.00084	<1.07E-04	0.00017	<7.25E-05	<4.81E-04	<1.60E-04	<4.81E-04	<1.60E-04	1,403,780	<1.30E+05	<2.09E+01	<2.42E+01	<1.21E-02
Non-Reaction Area	High	250		47,494	4,412	0.00826	<7.50E-05	0.00028	0.00166	<4.19E-03	<5.27E-03	<4.19E-03	<5.27E-03	1,076,908	<1.00E+05	<5.27E+02	<6.11E+02	<3.05E-01
Non-Reaction Area	Med	87		58,663	5,450	0.00045	<1.68E-04	<1.02E-04	<6.12E-05	<3.02E-04	<3.47E-04	<8.83E-04	<8.28E-04	1,950,276	<1.81E+05	<1.50E+02	<1.74E+02	<8.69E-02
Non-Reaction Area	Med	237		30,995	2,880	0.00069	0.00261	0.00076	0.00102	0.00147	0.00131							
Non-Reaction Area	Low	108		52,575	4,884	0.00143	<1.27E-04	0.00079	0.00110	<8.44E-04	<1.07E-03	0.08512	0.08512	4,347,548	<4.04E+05	<4.33E+02	<5.02E+02	<2.51E-01
Non SEM Area													<1.11E-03	281,615	26,163	<2.91E+01	<3.38E+01	<1.69E-02
Total														12,900,697	1,198,514	**<1.31E+03**	**<1.51E+03**	**<7.73E-01**
									Membrane				<3.27E-04	2,005,938	186,358	<6.09E+01	<7.06E+01	<3.53E-02

Average Flux =	<1.11E+00	ug/m2-min
	<1.11E-03	mg/m2-min
Avg Mem. Flux =	<3.27E-04	mg/m2-min

2-propanol (isopropylalcohol)
67-63-0

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<8.98E-05	<1.00E-04	<1.52E-04	<9.70E-05	<1.00E-04	<9.31E-05	<9.22E-05	<8.37E-05	2,323,625	215,872	<1.81E+01	<2.09E+01	<1.05E-02
Repeat		76		48,758	4,530	<7.12E-05	<9.50E-05	<1.05E-04	<8.50E-05	<8.41E-05	<7.43E-05							
Reaction Area	High	169	Y	54,459	5,059	0.00067	<1.53E-04	0.00046	0.00761	<4.45E-04	<5.41E-04	<4.45E-04	<5.41E-04	651,160	60,495	<3.27E+01	<3.79E+01	<1.90E-02
Reaction Area	Med	174	Y	48,344	4,491	<1.45E-04	<2.58E-04	<9.66E-05	<1.99E-04	<1.85E-04	<1.65E-04	<4.38E-04	<5.77E-04	865,785	80,434	<4.64E+01	<5.38E+01	<2.69E-02
Reaction Area	Med	197		56,626	5,261	0.00123	<1.44E-04	<1.93E-04	<2.36E-04	<6.90E-04	<9.90E-04							
Repeat		197		56,626	5,261	<2.64E-04	0.00204	<2.10E-04	0.01649	<9.71E-04	<5.07E-04							
Reaction Area	Low	153	M	45,864	4,261	0.00032	<8.03E-05	0.01656	<5.46E-05	<1.85E-03	<5.33E-03	<1.85E-03	<5.33E-03	1,403,780	<1.30E+05	<6.96E+02	<8.06E+02	<4.03E-01
Non-Reaction Area	High	250		47,494	4,412	<1.52E-04	<5.64E-05	<6.62E-05	<8.09E-05	<1.05E-04	<1.18E-04	<1.05E-04	<1.18E-04	1,076,908	<1.00E+05	<1.18E+01	<1.37E+01	<6.85E-03
Non-Reaction Area	Med	87		58,663	5,450	<1.50E-04	<1.27E-04	<7.65E-05	<4.61E-05	<1.33E-04	<1.36E-04	<1.39E-04	<1.38E-04	1,950,276	<1.81E+05	<2.49E+01	<2.89E+01	<1.44E-02
Non-Reaction Area	Med	237		30,995	2,880	<9.94E-05	<2.09E-04	0.00011	<1.21E-04	<1.45E-04	<1.39E-04							
Non-Reaction Area	Low	108		52,575	4,884	<5.95E-05	<9.55E-05	<5.12E-05	<5.57E-05	<7.31E-05	<6.40E-05	0.08512	0.08512	4,347,548	<4.04E+05	<2.59E+01	<3.00E+01	<1.50E-02
Non SEM Area													<7.30E-04	281,615	26,163	<1.91E+01	<2.21E+01	<1.11E-02
Total														12,900,697	1,198,514	**<8.56E+02**	**<9.91E+02**	**<5.07E-01**
									Membrane				<1.09E-03	2,005,938	186,358	<2.03E+02	<2.35E+02	<1.18E-01

Average Flux =	<7.30E-01	ug/m2-min
	<7.30E-04	mg/m2-min
Avg Mem. Flux =	<1.09E-03	mg/m2-min

Toluene
108-88-3

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<1.38E-04	<1.54E-04	<2.34E-04	<1.49E-04	<1.54E-04	<1.43E-04	<1.41E-04	<1.28E-04	2,323,625	215,872	<2.77E+01	<3.21E+01	<1.60E-02
Repeat		76		48,758	4,530	<1.09E-04	<1.46E-04	<1.62E-04	<1.30E-04	<1.29E-04	<1.14E-04							
Reaction Area	High	169	Y	54,459	5,059	0.00344	0.00367	0.00045	0.00024	0.00323	0.00286	0.00323	0.00286	651,160	60,495	173	200	0.1002
Reaction Area	Med	174	Y	48,344	4,491	0.00066	<3.96E-04	<1.48E-04	0.12625	<5.07E-04	<4.76E-04	<5.15E-04	<4.39E-04	865,785	80,434	<3.53E+01	<4.09E+01	<2.04E-02
Reaction Area	Med	197		56,626	5,261	<3.04E-04	0.00074	0.00075	<3.61E-04	<5.23E-04	<4.01E-04							
Repeat		197		56,626	5,261	<4.05E-04	<2.96E-04	<3.22E-04	0.00105	<3.53E-04	<3.83E-04							
Reaction Area	Low	153	M	45,864	4,261	<2.22E-04	0.00069	<8.35E-05	<8.37E-05	<3.97E-04	<4.79E-04	<3.97E-04	<4.79E-04	1,403,780	<1.30E+05	<6.24E+01	<7.24E+01	<3.62E-02
Non-Reaction Area	High	250		47,494	4,412	<2.32E-04	<8.64E-05	<1.01E-04	<1.24E-04	<1.61E-04	<1.81E-04	<1.61E-04	<1.81E-04	1,076,908	<1.00E+05	<1.81E+01	<2.10E+01	<1.05E-02
Non-Reaction Area	Med	87		58,663	5,450	<2.30E-04	<1.94E-04	0.00639	<7.06E-05	<8.32E-04	<1.01E-03	<4.94E-04	<5.88E-04	1,950,276	<1.81E+05	<1.06E+02	<1.23E+02	<6.17E-02
Non-Reaction Area	Med	237		30,995	2,880	0.00015	<1.56E-04	<1.74E-04	<1.85E-04	<1.56E-04	<1.63E-04							
Non-Reaction Area	Low	108		52,575	4,884	<9.12E-05	<1.46E-04	<7.85E-05	<8.53E-05	<1.12E-04	<9.81E-05	0.08512	0.08512	4,347,548	<4.04E+05	<3.96E+01	<4.59E+01	<2.30E-02
Non SEM Area													<3.95E-04	281,615	26,163	<1.03E+01	<1.20E+01	<5.98E-03
Total														12,900,697	1,198,514	**<4.63E+02**	**<5.36E+02**	**<2.74E-01**
									Membrane				<1.10E-03	2,005,938	186,358	<2.05E+02	<2.38E+02	<1.19E-01

Average Flux =	<3.95E-01	ug/m2-min
	<3.95E-04	mg/m2-min
Avg Mem. Flux =	<1.10E-03	mg/m2-min

m,p-Xylenes
1330-20-7

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<7.94E-05	<8.76E-05	<1.35E-04	0.00090	<8.82E-05	<8.22E-05	<8.16E-05	<7.43E-05	2,323,625	215,872	<1.60E+01	<1.86E+01	<9.29E-03
Repeat		76		48,758	4,530	<6.37E-05	<8.50E-05	<9.20E-05	<7.42E-05	<7.50E-05	<6.64E-05							
Reaction Area	High	169	Y	54,459	5,059	0.00379	0.00405	0.00054	<4.78E-05	<3.57E-03	<3.16E-03	<3.57E-03	<3.16E-03	651,160	60,495	<1.91E+02	<2.22E+02	<1.11E-01
Reaction Area	Med	174	Y	48,344	4,491	0.00071	<2.28E-04	0.00025	0.12243	<4.73E-04	<4.75E-04	<5.68E-04	<4.23E-04	865,785	80,434	<3.40E+01	<3.94E+01	<1.97E-02
Reaction Area	Med	197		56,626	5,261	<1.73E-04	0.00126	0.00074	<2.08E-04	<6.64E-04	<3.71E-04							
Repeat		197		56,626	5,261	<2.36E-04	0.00054	<1.88E-04	0.00166	<3.52E-04	<2.74E-04							
Reaction Area	Low	153	M	45,864	4,261	<1.28E-04	0.00087	<4.76E-05	<4.78E-05	<4.17E-04	<5.75E-04	<4.17E-04	<5.75E-04	1,403,780	<1.30E+05	<7.50E+01	<8.70E+01	<4.35E-02
Non-Reaction Area	High	250		47,494	4,412	<1.34E-04	<4.98E-05	<5.78E-05	<7.06E-05	<9.27E-05	<1.04E-04	<9.27E-05	<1.04E-04	1,076,908	<1.00E+05	<1.04E+01	<1.21E+01	<6.05E-03
Non-Reaction Area	Med	87		58,663	5,450	<1.31E-04	<1.10E-04	0.01116	0.00012	<1.23E-03	<1.54E-03	<6.58E-04	<8.17E-04	1,950,276	<1.81E+05	<1.48E+02	<1.72E+02	<8.58E-02
Non-Reaction Area	Med	237		30,995	2,880	0.00009	<9.11E-05	<1.02E-04	<1.05E-04	<9.00E-05	<9.44E-05							
Non-Reaction Area	Low	108		52,575	4,884	<5.20E-05	<8.33E-05	<4.53E-05	<4.92E-05	<6.39E-05	<5.60E-05	0.08512	0.08512	4,347,548	<4.04E+05	<2.26E+01	<2.62E+01	<1.31E-02
Non SEM Area													<4.24E-04	281,615	26,163	<1.11E+01	<1.29E+01	<6.43E-03
Total														12,900,697	1,198,514	**<4.98E+02**	**<5.77E+02**	**<2.95E-01**
									Membrane				<1.18E-03	2,005,938	186,358	<2.20E+02	<2.54E+02	<1.27E-01

Average Flux =	<4.24E-01	ug/m2-min
	<4.24E-04	mg/m2-min
Avg Mem. Flux =	<1.18E-03	mg/m2-min

Ethylbenzene
100-41-4

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<7.94E-05	<8.76E-05	<1.35E-04	<8.67E-05	<8.82E-05	<8.21E-05	<8.16E-05	<7.43E-05	2,323,625	215,872	<1.60E+01	<1.86E+01	<9.29E-03
Repeat		76		48,758	4,530	<6.37E-05	<8.50E-05	<9.20E-05	0.00017	<7.50E-05	<6.64E-05							
Reaction Area	High	169	Y	54,459	5,059	0.00282	0.00230	0.00028	<4.78E-05	<2.36E-03	<2.20E-03	<2.36E-03	<2.20E-03	651,160	60,495	<1.33E+02	<1.54E+02	<7.72E-02
Reaction Area	Med	174	Y	48,344	4,491	0.00039	<2.28E-04	<8.54E-05	0.13923	<3.01E-04	<2.83E-04	<2.39E-04	<2.34E-04	865,785	80,434	<1.88E+01	<2.18E+01	<1.09E-02
Reaction Area	Med	197		56,626	5,261	<1.73E-04	<1.26E-04	0.00039	<2.08E-04	<1.76E-04	<1.85E-04							
Repeat		197		56,626	5,261	<2.36E-04	<1.69E-04	<1.88E-04	0.00038	<2.04E-04	<2.23E-04							
Reaction Area	Low	153	M	45,864	4,261	<1.28E-04	0.00064	<4.76E-05	<4.78E-05	<3.26E-04	<4.31E-04	<3.26E-04	<4.31E-04	1,403,780	<1.30E+05	<5.62E+01	<6.51E+01	<3.26E-02
Non-Reaction Area	High	250		47,494	4,412	<1.34E-04	<4.98E-05	<5.78E-05	<7.06E-05	<9.27E-05	<1.04E-04	<9.27E-05	<1.04E-04	1,076,908	<1.00E+05	<1.04E+01	<1.21E+01	<6.05E-03
Non-Reaction Area	Med	87		58,663	5,450	<1.31E-04	<1.10E-04	0.00368	<4.02E-05	<4.78E-04	<5.82E-04	<2.84E-04	<3.38E-04	1,950,276	<1.81E+05	<6.13E+01	<7.10E+01	<3.55E-02
Non-Reaction Area	Med	237		30,995	2,880	0.00009	<9.11E-05	<1.02E-04	<1.05E-04	<9.00E-05	<9.44E-05							
Non-Reaction Area	Low	108		52,575	4,884	<5.20E-05	<8.33E-05	<4.53E-05	<4.92E-05	<6.39E-05	<5.60E-05	0.08512	0.08512	4,347,548	<4.04E+05	<2.26E+01	<2.62E+01	<1.31E-02
Non SEM Area													<2.72E-04	281,615	26,163	<7.11E+00	<8.24E+00	<4.12E-03
Total														12,900,697	1,198,514	**<3.19E+02**	**<3.69E+02**	**<1.89E-01**
									Membrane				<7.69E-04	2,005,938	186,358	<1.43E+02	<1.66E+02	<8.31E-02

Average Flux = <2.72E-01 ug/m2-min
<2.72E-04 mg/m2-min
Avg Mem. Flux = <7.69E-04 mg/m2-min

2-Butanone (MEK)
78-93-3

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	0.00036	<5.95E-05	<9.14E-05	<5.89E-05	<2.11E-04	<3.23E-04	<1.31E-04	<1.84E-04	2,323,625	215,872	<3.97E+01	<4.60E+01	<2.30E-02
Repeat		76		48,758	4,530	<4.32E-05	<5.77E-05	<6.24E-05	<5.04E-05	<5.09E-05	<4.51E-05							
Reaction Area	High	169	Y	54,459	5,059	0.00116	0.00073	0.00808	0.00020	0.00168	0.00252	0.00168	0.00252	651,160	60,495	152	176	0.0882
Reaction Area	Med	174	Y	48,344	4,491	<8.69E-05	<1.55E-04	<5.79E-05	<1.20E-04	<1.11E-04	<9.89E-05	<2.18E-04	<2.52E-04	865,785	80,434	<2.03E+01	<2.35E+01	<1.17E-02
Reaction Area	Med	197		56,626	5,261	0.00042	<8.55E-05	0.00080	0.00094	<3.24E-04	<4.05E-04							
Repeat		197		56,626	5,261	0.00060	0.04757	0.00102	0.00131	0.01943	0.00716							
Reaction Area	Low	153	M	45,864	4,261	0.00073	<4.76E-05	0.00084	0.00010	<4.69E-04	<3.31E-04	<4.69E-04	<3.31E-04	1,403,780	<1.30E+05	<4.32E+01	<5.00E+01	<2.50E-02
Non-Reaction Area	High	250		47,494	4,412	0.00069	0.00034	0.00055	0.00041	0.00053	0.00060	0.00053	0.00060	1,076,908	100,048	60	69	0.0347
Non-Reaction Area	Med	87		58,663	5,450	0.00023	0.00023	0.00021	0.00040	0.00023	0.00023	0.00035	0.00034	1,950,276	181,187	62	72	0.0358
Non-Reaction Area	Med	237		30,995	2,880	0.00016	0.00089	0.00032	0.00029	0.00047	0.00045							
Non-Reaction Area	Low	108		52,575	4,884	0.00011	<5.66E-05	0.00010	0.00029	<8.82E-05	<9.92E-05	0.08512	0.08512	4,347,548	<4.04E+05	<4.01E+01	<4.64E+01	<2.32E-02
Non SEM Area													<3.56E-04	281,615	26,163	<9.31E+00	<1.08E+01	<5.39E-03
Total														12,900,697	1,198,514	**<4.17E+02**	**<4.83E+02**	**<2.47E-01**
									Membrane				<1.25E-03	2,005,938	186,358	<2.33E+02	<2.70E+02	<1.35E-01

Average Flux =	<3.56E-01	ug/m2-min
	<3.56E-04	mg/m2-min
Avg Mem. Flux =	<1.25E-03	mg/m2-min

n-Heptane
142-82-5

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<7.49E-05	<8.27E-05	<1.27E-04	<8.18E-05	<8.32E-05	<7.75E-05	<7.70E-05	<7.01E-05	2,323,625	215,872	<1.51E+01	<1.75E+01	<8.77E-03
Repeat		76		48,758	4,530	<6.01E-05	<8.02E-05	<8.68E-05	<7.00E-05	<7.08E-05	<6.27E-05							
Reaction Area	High	169	Y	54,459	5,059	<2.00E-04	0.00037	<7.06E-05	<4.51E-05	<2.53E-04	<2.02E-04	<2.53E-04	<2.02E-04	651,160	60,495	<1.22E+01	<1.41E+01	<7.07E-03
Reaction Area	Med	174	Y	48,344	4,491	<1.21E-04	<2.15E-04	<8.05E-05	0.11586	<1.58E-04	<1.41E-04	<1.52E-04	<1.49E-04	865,785	80,434	<1.20E+01	<1.39E+01	<6.95E-03
Reaction Area	Med	197		56,626	5,261	<1.63E-04	<1.19E-04	<1.63E-04	<1.97E-04	<1.45E-04	<1.57E-04							
Repeat		197		56,626	5,261	<2.23E-04	<1.59E-04	<1.77E-04	0.00074	<1.93E-04	<2.10E-04							
Reaction Area	Low	153	M	45,864	4,261	<1.20E-04	<6.61E-05	<4.49E-05	<4.51E-05	<9.12E-05	<6.18E-05	<9.12E-05	<6.18E-05	1,403,780	<1.30E+05	<8.07E+00	<9.35E+00	<4.67E-03
Non-Reaction Area	High	250		47,494	4,412	<1.26E-04	<4.70E-05	<5.45E-05	<6.66E-05	<8.75E-05	<9.84E-05	<8.75E-05	<9.84E-05	1,076,908	<1.00E+05	<9.85E+00	<1.14E+01	<5.70E-03
Non-Reaction Area	Med	87		58,663	5,450	<1.24E-04	<1.04E-04	0.00063	<3.79E-05	<1.67E-04	<1.85E-04	<1.26E-04	<1.37E-04	1,950,276	<1.81E+05	<2.49E+01	<2.88E+01	<1.44E-02
Non-Reaction Area	Med	237		30,995	2,880	0.00008	<8.59E-05	<9.60E-05	<9.93E-05	<8.49E-05	<8.91E-05							
Non-Reaction Area	Low	108		52,575	4,884	<4.91E-05	<7.86E-05	<4.27E-05	<4.64E-05	<6.03E-05	<5.28E-05	0.08512	0.08512	4,347,548	<4.04E+05	<2.13E+01	<2.47E+01	<1.24E-02
Non SEM Area													<8.82E-05	281,615	26,163	<2.31E+00	<2.67E+00	<1.34E-03
Total														12,900,697	1,198,514	**<1.03E+02**	**<1.20E+02**	**<6.13E-02**
									Membrane				<1.43E-04	2,005,938	186,358	<2.66E+01	<3.08E+01	<1.54E-02

Average Flux = <8.82E-02 ug/m2-min
<8.82E-05 mg/m2-min
Avg Mem. Flux = <1.43E-04 mg/m2-min

Ethanol
64-17-5

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<1.72E-04	0.00041	0.00120	0.00054	<3.70E-04	<2.30E-04	<2.81E-04	<1.92E-04	2,323,625	215,872	<4.15E+01	<4.81E+01	<2.41E-02
Repeat		76		48,758	4,530	<1.37E-04	<1.83E-04	0.00050	<1.63E-04	<1.92E-04	<1.54E-04							
Reaction Area	High	169	Y	54,459	5,059	<4.64E-04	<2.93E-04	0.00437	0.00052	<7.86E-04	<1.24E-03	<7.86E-04	<1.24E-03	651,160	60,495	<7.52E+01	<8.71E+01	<4.35E-02
Reaction Area	Med	174	Y	48,344	4,491	<2.78E-04	<4.95E-04	<1.85E-04	<3.82E-04	<3.56E-04	<3.16E-04	<1.65E-03	<7.92E-04	865,785	80,434	<6.37E+01	<7.39E+01	<3.69E-02
Reaction Area	Med	197		56,626	5,261	<3.79E-04	0.00679	<3.71E-04	<4.52E-04	<2.94E-03	<1.27E-03							
Repeat		197		56,626	5,261	<5.08E-04	0.00188	<4.03E-04	<4.12E-04	<1.05E-03	<6.90E-04							
Reaction Area	Low	153	M	45,864	4,261	0.00148	<1.54E-04	0.00024	<1.04E-04	<8.25E-04	<2.40E-04	<8.25E-04	<2.40E-04	1,403,780	<1.30E+05	<3.13E+01	<3.63E+01	<1.82E-02
Non-Reaction Area	High	250		47,494	4,412	0.00119	<1.08E-04	<1.27E-04	0.00815	<6.51E-04	<7.93E-04	<6.51E-04	<7.93E-04	1,076,908	<1.00E+05	<7.94E+01	<9.20E+01	<4.60E-02
Non-Reaction Area	Med	87		58,663	5,450	<2.88E-04	<2.42E-04	<1.47E-04	0.00029	<2.55E-04	<2.60E-04	<2.25E-04	<2.32E-04	1,950,276	<1.81E+05	<4.20E+01	<4.87E+01	<2.44E-02
Non-Reaction Area	Med	237		30,995	2,880	0.00019	<1.96E-04	<2.19E-04	<2.31E-04	<1.95E-04	<2.04E-04							
Non-Reaction Area	Low	108		52,575	4,884	<1.14E-04	<1.83E-04	<9.83E-05	<1.07E-04	<1.40E-04	<1.23E-04	0.08512	0.08512	4,347,548	<4.04E+05	<4.95E+01	<5.73E+01	<2.87E-02
Non SEM Area													<3.26E-04	281,615	26,163	<8.54E+00	<9.90E+00	<4.95E-03
Total														12,900,697	1,198,514	**<3.83E+02**	**<4.43E+02**	**<2.27E-01**
									Membrane				<9.15E-04	2,005,938	186,358	<1.71E+02	<1.98E+02	<9.88E-02

Average Flux =	<3.26E-01	ug/m2-min
	<3.26E-04	mg/m2-min
Avg Mem. Flux =	<9.15E-04	mg/m2-min

o-Xylene
95-47-6

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<7.94E-05	<8.76E-05	<1.35E-04	0.00038	<8.82E-05	<8.21E-05	<8.16E-05	<7.43E-05	2,323,625	215,872	<1.60E+01	<1.86E+01	<9.29E-03
Repeat		76		48,758	4,530	<6.37E-05	<8.50E-05	<9.20E-05	<7.42E-05	<7.50E-05	<6.64E-05							
Reaction Area	High	169	Y	54,459	5,059	0.00121	0.00099	<7.49E-05	<4.78E-05	<1.01E-03	<9.39E-04	<1.01E-03	<9.39E-04	651,160	60,495	<5.68E+01	<6.58E+01	<3.29E-02
Reaction Area	Med	174	Y	48,344	4,491	<1.28E-04	<2.28E-04	<8.54E-05	0.04082	<1.65E-04	<1.47E-04	<5.29E-04	<2.85E-04	865,785	80,434	<2.29E+01	<2.65E+01	<1.33E-02
Reaction Area	Med	197		56,626	5,261	<1.73E-04	0.00197	<1.73E-04	<2.08E-04	<8.92E-04	<4.23E-04							
Repeat		197		56,626	5,261	<2.36E-04	0.00041	<1.88E-04	0.00094	<2.99E-04	<2.56E-04							
Reaction Area	Low	153	M	45,864	4,261	<1.28E-04	0.00029	<4.76E-05	<4.78E-05	<1.83E-04	<2.04E-04	<1.83E-04	<2.04E-04	1,403,780	<1.30E+05	<2.66E+01	<3.08E+01	<1.54E-02
Non-Reaction Area	High	250		47,494	4,412	<1.34E-04	<4.98E-05	<5.78E-05	<7.06E-05	<9.27E-05	<1.04E-04	<9.27E-05	<1.04E-04	1,076,908	<1.00E+05	<1.04E+01	<1.21E+01	<6.05E-03
Non-Reaction Area	Med	87		58,663	5,450	<1.31E-04	<1.10E-04	0.00575	0.00008	<6.85E-04	<8.48E-04	<3.88E-04	<4.71E-04	1,950,276	<1.81E+05	<8.54E+01	<9.89E+01	<4.95E-02
Non-Reaction Area	Med	237		30,995	2,880	0.00009	<9.11E-05	<1.02E-04	<1.05E-04	<9.00E-05	<9.44E-05							
Non-Reaction Area	Low	108		52,575	4,884	<5.20E-05	<8.33E-05	<4.53E-05	<4.92E-05	<6.39E-05	<5.60E-05	0.08512	0.08512	4,347,548	<4.04E+05	<2.26E+01	<2.62E+01	<1.31E-02
Non SEM Area													<2.05E-04	281,615	26,163	<5.37E+00	<6.22E+00	<3.11E-03
Total														12,900,697	1,198,514	**<2.41E+02**	**<2.79E+02**	**<1.43E-01**
									Membrane				<3.54E-04	2,005,938	186,358	<6.59E+01	<7.64E+01	<3.82E-02

Average Flux =	<2.05E-01	ug/m2-min
	<2.05E-04	mg/m2-min
Avg Mem. Flux =	<3.54E-04	mg/m2-min

Isopropyltoluene
99-87-6

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<2.01E-04	<2.24E-04	<3.40E-04	<2.17E-04	<2.24E-04	<2.08E-04	<2.06E-04	<1.87E-04	2,323,625	215,872	<4.03E+01	<4.68E+01	<2.34E-02
Repeat		76		48,758	4,530	<1.59E-04	<2.12E-04	<2.35E-04	<1.90E-04	<1.88E-04	<1.66E-04							
Reaction Area	High	169	Y	54,459	5,059	0.00509	0.00377	0.00467	<1.22E-04	<4.52E-03	<4.78E-03	<4.52E-03	<4.78E-03	651,160	60,495	<2.89E+02	<3.35E+02	<1.67E-01
Reaction Area	Med	174	Y	48,344	4,491	<3.23E-04	<5.77E-04	<2.16E-04	<4.45E-04	<4.14E-04	<3.68E-04	<5.64E-04	<4.73E-04	865,785	80,434	<3.81E+01	<4.41E+01	<2.21E-02
Reaction Area	Med	197		56,626	5,261	<4.43E-04	0.00091	0.00130	<5.27E-04	<7.14E-04	<5.79E-04							
Repeat		197		56,626	5,261	<5.90E-04	0.00429	<4.68E-04	0.01909	<2.06E-03	<1.09E-03							
Reaction Area	Low	153	M	45,864	4,261	<3.23E-04	0.00137	<1.22E-04	<1.22E-04	<7.20E-04	<9.23E-04	<7.20E-04	<9.23E-04	1,403,780	<1.30E+05	<1.20E+02	<1.39E+02	<6.97E-02
Non-Reaction Area	High	250		47,494	4,412	<3.39E-04	<1.26E-04	<1.48E-04	<1.81E-04	<2.34E-04	<2.64E-04	<2.34E-04	<2.64E-04	1,076,908	<1.00E+05	<2.64E+01	<3.06E+01	<1.53E-02
Non-Reaction Area	Med	87		58,663	5,450	<3.36E-04	<2.83E-04	0.00637	<1.03E-04	<9.18E-04	<1.10E-03	<5.73E-04	<6.68E-04	1,950,276	<1.81E+05	<1.21E+02	<1.40E+02	<7.01E-02
Non-Reaction Area	Med	237		30,995	2,880	0.00022	<2.27E-04	<2.54E-04	<2.69E-04	<2.27E-04	<2.37E-04							
Non-Reaction Area	Low	108		52,575	4,884	<1.33E-04	<2.13E-04	<1.14E-04	0.00087	<1.63E-04	<1.43E-04	0.08512	0.08512	4,347,548	<4.04E+05	<5.77E+01	<6.69E+01	<3.35E-02
Non SEM Area													<5.91E-04	281,615	26,163	<1.55E+01	<1.79E+01	<8.96E-03
Total														12,900,697	1,198,514	**<6.93E+02**	**<8.03E+02**	**<4.10E-01**
									Membrane				<1.83E-03	2,005,938	186,358	<3.41E+02	<3.95E+02	<1.97E-01

Average Flux =	<5.91E-01	ug/m2-min
	<5.91E-04	mg/m2-min
Avg Mem. Flux =	<1.83E-03	mg/m2-min

Acrolein
107-02-8

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	0.00027	<4.63E-05	0.00037	<4.58E-05	<1.92E-04	<2.59E-04	<1.60E-04	<1.95E-04	2,323,625	215,872	<4.20E+01	<4.87E+01	<2.43E-02
Repeat		76		48,758	4,530	0.00013	0.00014	<4.86E-05	0.00013	<1.29E-04	<1.31E-04							
Reaction Area	High	169	Y	54,459	5,059	<1.12E-04	<7.06E-05	0.00038	<2.53E-05	<1.22E-04	<1.60E-04	<1.22E-04	<1.60E-04	651,160	60,495	<9.70E+00	<1.12E+01	<5.62E-03
Reaction Area	Med	174	Y	48,344	4,491	<6.76E-05	<1.21E-04	<4.51E-05	<9.31E-05	<8.65E-05	<7.69E-05	<3.82E-04	<4.63E-04	865,785	80,434	<3.72E+01	<4.31E+01	<2.16E-02
Reaction Area	Med	197		56,626	5,261	0.00082	<6.65E-05	0.00240	0.00148	<6.78E-04	<8.49E-04							
Repeat		197		56,626	5,261	0.00103	0.00119	0.00184	0.00156	0.00118	0.00112							
Reaction Area	Low	153	M	45,864	4,261	<6.75E-05	0.00018	0.00030	0.00027	<1.36E-04	<2.13E-04	<1.36E-04	<2.13E-04	1,403,780	<1.30E+05	<2.78E+01	<3.22E+01	<1.61E-02
Non-Reaction Area	High	250		47,494	4,412	0.00120	0.00024	0.00029	0.00030	0.00073	0.00085	0.00073	0.00085	1,076,908	100,048	85	99	0.0495
Non-Reaction Area	Med	87		58,663	5,450	0.00035	0.00064	<3.57E-05	<2.12E-05	<4.33E-04	<3.67E-04	<3.40E-04	<3.00E-04	1,950,276	<1.81E+05	<5.43E+01	<6.29E+01	<3.15E-02
Non-Reaction Area	Med	237		30,995	2,880	0.00025	0.00025	0.00021	0.00035	0.00025	0.00023							
Non-Reaction Area	Low	108		52,575	4,884	0.00022	0.00026	0.00015	0.00024	0.00023	0.00021	0.08512	0.08512	4,347,548	403,900	86	100	0.0500
Non SEM Area													0.00029	281,615	26,163	8	9	0.0044
Total														12,900,697	1,198,514	**<3.43E+02**	**<3.97E+02**	**<2.03E-01**
									Membrane				<1.19E-04	2,005,938	186,358	<2.21E+01	<2.56E+01	<1.28E-02

Average Flux =	<2.92E-01	ug/m2-min
	0.00029	mg/m2-min
Avg Mem. Flux =	<1.19E-04	mg/m2-min

Tetrachloroethene (PCE)

127-18-4

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<3.10E-05	<3.34E-05	<5.26E-05	<3.38E-05	<3.41E-05	<3.20E-05	<3.17E-05	<2.90E-05	2,323,625	215,872	<6.25E+00	<7.24E+00	<3.62E-03
Repeat		76		48,758	4,530	<2.49E-05	<3.32E-05	<3.59E-05	0.00006	<2.93E-05	<2.59E-05							
Reaction Area	High	169	Y	54,459	5,059	0.00022	0.00033	<2.78E-05	<1.82E-05	<2.42E-04	<1.96E-04	<2.42E-04	<1.96E-04	651,160	60,495	<1.19E+01	<1.37E+01	<6.87E-03
Reaction Area	Med	174	Y	48,344	4,491	<4.87E-05	<8.69E-05	<3.25E-05	0.02132	<6.31E-05	<5.61E-05	<5.52E-03	<2.13E-03	865,785	80,434	<1.71E+02	<1.99E+02	<9.93E-02
Reaction Area	Med	197		56,626	5,261	0.00057	0.02650	0.00103	0.00412	0.01099	0.00421							
Repeat		197		56,626	5,261	0.00031	0.00280	0.00060	0.00356	0.00133	0.00068							
Reaction Area	Low	153	M	45,864	4,261	<4.86E-05	<2.87E-05	<1.94E-05	<1.83E-05	<3.77E-05	<2.66E-05	<3.77E-05	<2.66E-05	1,403,780	<1.30E+05	<3.47E+00	<4.03E+00	<2.01E-03
Non-Reaction Area	High	250		47,494	4,412	<5.35E-05	<2.03E-05	0.00012	0.00092	<4.69E-05	<5.98E-05	<4.69E-05	<5.98E-05	1,076,908	<1.00E+05	<5.98E+00	<6.93E+00	<3.46E-03
Non-Reaction Area	Med	87		58,663	5,450	<5.12E-05	<4.42E-05	0.00012	<1.61E-05	<5.49E-05	<5.81E-05	<4.48E-05	<4.71E-05	1,950,276	<1.81E+05	<8.54E+00	<9.90E+00	<4.95E-03
Non-Reaction Area	Med	237		30,995	2,880	0.00003	<3.47E-05	<3.87E-05	<4.11E-05	<3.47E-05	<3.62E-05							
Non-Reaction Area	Low	108		52,575	4,884	<2.08E-05	<3.41E-05	0.00008	<1.88E-05	<3.16E-05	<3.44E-05	0.08512	0.08512	4,347,548	<4.04E+05	<1.39E+01	<1.61E+01	<8.05E-03
Non SEM Area													<1.89E-04	281,615	26,163	<4.94E+00	<5.73E+00	<2.86E-03
Total														12,900,697	1,198,514	**<2.21E+02**	**<2.57E+02**	**<1.31E-01**
									Membrane				<9.27E-05	2,005,938	186,358	<1.73E+01	<2.00E+01	<1.00E-02

Average Flux = <1.89E-01 ug/m2-min

<1.89E-04 mg/m2-min

Avg Mem. Flux = <9.27E-05 mg/m2-min

Cyclohexane
110-82-7

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<3.15E-05	<3.56E-05	<5.34E-05	<3.44E-05	<3.53E-05	<3.26E-05	<3.25E-05	<2.95E-05	2,323,625	215,872	<6.36E+00	<7.37E+00	<3.69E-03
Repeat		76		48,758	4,530	<2.53E-05	<3.37E-05	<3.65E-05	<2.94E-05	<2.97E-05	<2.63E-05							
Reaction Area	High	169	Y	54,459	5,059	<8.59E-05	<5.29E-05	<2.97E-05	<1.94E-05	<6.71E-05	<6.86E-05	<6.71E-05	<6.86E-05	651,160	60,495	<4.15E+00	<4.81E+00	<2.40E-03
Reaction Area	Med	174	Y	48,344	4,491	<5.20E-05	<9.27E-05	<3.47E-05	<6.98E-05	<6.65E-05	<5.91E-05	<2.91E-03	<1.07E-03	865,785	80,434	<8.60E+01	<9.97E+01	<4.98E-02
Reaction Area	Med	197		56,626	5,261	<6.86E-05	0.01405	0.00090	<8.26E-05	<5.74E-03	<2.08E-03							
Repeat		197		56,626	5,261	<9.14E-05	<6.69E-05	<7.44E-05	<7.59E-05	<7.99E-05	<8.66E-05							
Reaction Area	Low	153	M	45,864	4,261	<5.19E-05	<2.78E-05	<1.89E-05	<1.93E-05	<3.89E-05	<2.60E-05	<3.89E-05	<2.60E-05	1,403,780	<1.30E+05	<3.40E+00	<3.94E+00	<1.97E-03
Non-Reaction Area	High	250		47,494	4,412	<5.44E-05	<1.97E-05	<2.29E-05	0.00241	<3.74E-05	<4.22E-05	<3.74E-05	<4.22E-05	1,076,908	<1.00E+05	<4.22E+00	<4.89E+00	<2.45E-03
Non-Reaction Area	Med	87		58,663	5,450	<5.20E-05	<4.49E-05	<2.68E-05	<1.63E-05	<4.66E-05	<4.73E-05	<4.09E-05	<4.20E-05	1,950,276	<1.81E+05	<7.62E+00	<8.82E+00	<4.41E-03
Non-Reaction Area	Med	237		30,995	2,880	0.00003	<3.52E-05	<3.94E-05	<4.17E-05	<3.52E-05	<3.68E-05							
Non-Reaction Area	Low	108		52,575	4,884	<2.11E-05	<3.30E-05	<1.84E-05	<1.99E-05	<2.56E-05	<2.26E-05	0.08512	0.08512	4,347,548	<4.04E+05	<9.12E+00	<1.06E+01	<5.29E-03
Non SEM Area													<1.03E-04	281,615	26,163	<2.70E+00	<3.13E+00	<1.56E-03
Total														12,900,697	1,198,514	**<1.21E+02**	**<1.40E+02**	**<7.16E-02**
									Membrane				<4.97E-05	2,005,938	186,358	<9.25E+00	<1.07E+01	<5.36E-03

Average Flux = <1.03E-01 ug/m2-min
<1.03E-04 mg/m2-min
Avg Mem. Flux = <4.97E-05 mg/m2-min

Carbon disulfide

75-15-0

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<5.69E-05	<6.28E-05	<9.65E-05	<6.21E-05	<6.32E-05	<5.89E-05	<5.85E-05	<5.32E-05	2,323,625	215,872	<1.15E+01	<1.33E+01	<6.66E-03
Repeat		76		48,758	4,530	<4.56E-05	<6.09E-05	<6.59E-05	<5.32E-05	<5.38E-05	<4.76E-05							
Reaction Area	High	169	Y	54,459	5,059	<1.52E-04	<9.57E-05	<5.36E-05	<3.43E-05	<1.20E-04	<1.22E-04	<1.20E-04	<1.22E-04	651,160	60,495	<7.37E+00	<8.54E+00	<4.27E-03
Reaction Area	Med	174	Y	48,344	4,491	<9.17E-05	<1.64E-04	<6.12E-05	<1.26E-04	<1.17E-04	<1.04E-04	<1.14E-04	<1.12E-04	865,785	80,434	<8.99E+00	<1.04E+01	<5.21E-03
Reaction Area	Med	197		56,626	5,261	<1.24E-04	<9.02E-05	<1.24E-04	0.00055	<1.10E-04	<1.19E-04							
Repeat		197		56,626	5,261	<1.69E-04	<1.21E-04	<1.34E-04	<1.37E-04	<1.46E-04	<1.60E-04							
Reaction Area	Low	153	M	45,864	4,261	<9.15E-05	<5.02E-05	<3.41E-05	0.00012	<6.93E-05	<4.70E-05	<6.93E-05	<4.70E-05	1,403,780	<1.30E+05	<6.13E+00	<7.10E+00	<3.55E-03
Non-Reaction Area	High	250		47,494	4,412	0.00023	<3.57E-05	<4.14E-05	<5.06E-05	<1.32E-04	<1.58E-04	<1.32E-04	<1.58E-04	1,076,908	<1.00E+05	<1.58E+01	<1.83E+01	<9.14E-03
Non-Reaction Area	Med	87		58,663	5,450	<9.40E-05	<7.91E-05	<4.84E-05	0.00006	<8.35E-05	<8.51E-05	<7.40E-05	<7.64E-05	1,950,276	<1.81E+05	<1.38E+01	<1.60E+01	<8.02E-03
Non-Reaction Area	Med	237		30,995	2,880	0.00006	<6.53E-05	<7.29E-05	<4.90E-04	<6.45E-05	<6.77E-05							
Non-Reaction Area	Low	108		52,575	4,884	<3.73E-05	<5.97E-05	<3.24E-05	<3.53E-05	<4.58E-05	<4.01E-05	0.08512	0.08512	4,347,548	<4.04E+05	<1.62E+01	<1.88E+01	<9.39E-03
Non SEM Area													<6.81E-05	281,615	26,163	<1.78E+00	<2.06E+00	<1.03E-03
Total														12,900,697	1,198,514	**<7.98E+01**	**<9.25E+01**	**<4.73E-02**
									Membrane				<8.82E-05	2,005,938	186,358	<1.64E+01	<1.90E+01	<9.52E-03

Average Flux =	<6.81E-02	ug/m2-min
	<6.81E-05	mg/m2-min
Avg Mem. Flux =	<8.82E-05	mg/m2-min

Benzene TO-14

71-43-2

				Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
		Rep								Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	0.0002	0.0002	<9.87E-05	<6.33E-05	<2.13E-04	<2.20E-04	<1.40E-04	<1.37E-04	2,323,625	215,872	<2.95E+01	<3.42E+01	<1.71E-02
Repeat		76		48,758	4,530	<4.65E-05	<6.19E-05	0.0002	0.0002	<6.69E-05	<5.32E-05							
Reaction Area	High	169	Y	54,459	5,059	0.0191	0.0269	0.0036	0.0021	0.0206	0.0172	0.0206	0.0172	651,160	60,495	1,041	1,206	0.603
Reaction Area	Med	174	Y	48,344	4,491	0.0030	0.0016	0.0013	6.2752	0.0025	0.0024	0.0015	0.0014	865,785	80,434	112	130	0.065
Reaction Area	Med	197		56,626	5,261	<1.28E-04	0.0009	0.0015	0.0005	<5.64E-04	<3.47E-04							
Repeat		197		56,626	5,261	<1.73E-04	0.0003	0.0006	0.0005	<2.70E-04	<2.25E-04							
Reaction Area	Low	153	M	45,864	4,261	0.0023	0.0038	0.0005	0.0001	0.0027	0.0027	0.0027	0.0027	1,403,780	130,415	347	402	0.201
Non-Reaction Area	High	250		47,494	4,412	0.0003	<3.67E-05	0.0001	0.0007	<1.75E-04	<2.16E-04	<1.75E-04	<2.16E-04	1,076,908	<1.00E+05	<2.16E+01	<2.51E+01	<1.25E-02
Non-Reaction Area	Med	87		58,663	5,450	0.0003	0.0002	0.0017	<2.97E-05	<4.12E-04	<4.75E-04	<7.15E-04	<6.33E-04	1,950,276	<1.81E+05	<1.15E+02	<1.33E+02	<6.64E-02
Non-Reaction Area	Med	237		30,995	2,880	0.0002	0.0023	0.0001	<7.79E-05	<1.02E-03	<7.90E-04							
Non-Reaction Area	Low	108		52,575	4,884	0.0001	0.0003	0.0001	0.0001	0.0002	0.0001	0.0851	0.0851	4,347,548	403,900	59	68	0.034
Non SEM Area													0.0015	281,615	26,163	39	45	0.022
Total														12,900,697	1,198,514	**<1.73E+03**	**<2.00E+03**	**<1.02E+00**
									Membrane				0.0071	2,005,938	186,358	1,316	1,525	0.763

Average Flux = <1.47E+00 ug/m2-min

0.0015 mg/m2-min

Avg Mem. Flux = 0.0071 mg/m2-min

Propene TO-14

115-07-1

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	0.0003	<7.03E-05	<1.06E-04	<6.82E-05	<2.01E-04	<2.96E-04	<1.30E-04	<1.74E-04	2,323,625	215,872	<3.76E+01	<4.36E+01	<2.18E-02
Repeat		76		48,758	4,530	<5.01E-05	<6.67E-05	<7.33E-05	0.0022	<5.91E-05	<5.24E-05							
Reaction Area	High	169	Y	54,459	5,059	<1.69E-04	<1.07E-04	0.0003	0.0017	<1.58E-04	<1.86E-04	<1.58E-04	<1.86E-04	651,160	60,495	<1.13E+01	<1.31E+01	<6.53E-03
Reaction Area	Med	174	Y	48,344	4,491	<1.01E-04	<1.80E-04	<6.79E-05	0.0301	<1.30E-04	<1.16E-04	<2.91E-03	<1.16E-03	865,785	80,434	<9.31E+01	<1.08E+02	<5.39E-02
Reaction Area	Med	197		56,626	5,261	0.0003	0.0137	0.0007	0.0008	0.0057	0.0022							
Repeat		197		56,626	5,261	0.0010	0.0018	<1.48E-04	0.0009	<1.24E-03	<1.05E-03							
Reaction Area	Low	153	M	45,864	4,261	0.0004	<5.59E-05	0.0001	<3.81E-05	<2.09E-04	<7.91E-05	<2.09E-04	<7.91E-05	1,403,780	<1.30E+05	<1.03E+01	<1.20E+01	<5.98E-03
Non-Reaction Area	High	250		47,494	4,412	<1.06E-04	<3.96E-05	<4.62E-05	<5.63E-05	<7.36E-05	<8.28E-05	<7.36E-05	<8.28E-05	1,076,908	<1.00E+05	<8.29E+00	<9.60E+00	<4.80E-03
Non-Reaction Area	Med	87		58,663	5,450	<1.05E-04	0.0004	0.0198	0.0032	<2.21E-03	<2.70E-03	<1.19E-03	<1.44E-03	1,950,276	<1.81E+05	<2.61E+02	<3.03E+02	<1.51E-01
Non-Reaction Area	Med	237		30,995	2,880	0.0003	0.0001	<2.14E-04	0.0001	<1.82E-04	<1.84E-04							
Non-Reaction Area	Low	108		52,575	4,884	<4.16E-05	<6.66E-05	<3.58E-05	<3.91E-05	<5.10E-05	<4.47E-05	0.0851	0.0851	4,347,548	<4.04E+05	<1.80E+01	<2.09E+01	<1.05E-02
Non SEM Area													<3.75E-04	281,615	26,163	<9.82E+00	<1.14E+01	<5.69E-03
Total														12,900,697	1,198,514	**<4.40E+02**	**<5.10E+02**	**<2.61E-01**
									Membrane				<3.40E-04	2,005,938	186,358	<6.33E+01	<7.33E+01	<3.67E-02

Average Flux =	<3.75E-01	ug/m2-min
	<3.75E-04	mg/m2-min
Avg Mem. Flux =	<3.40E-04	mg/m2-min

Toluene TO-14
108-88-3

				Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
		Rep								Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<5.92E-05	0.0004	<9.97E-05	<6.40E-05	<2.12E-04	<8.93E-05	<1.34E-04	<6.92E-05	2,323,625	215,872	<1.49E+01	<1.73E+01	<8.65E-03
Repeat		76		48,758	4,530	<4.70E-05	<6.25E-05	<6.87E-05	0.0002	<5.54E-05	<4.90E-05							
Reaction Area	High	169	Y	54,459	5,059	0.0053	0.0069	0.0009	0.0004	0.0055	0.0047	0.0055	0.0047	651,160	60,495	282	327	0.163
Reaction Area	Med	174	Y	48,344	4,491	0.0011	<1.69E-04	0.0003	0.0399	<6.56E-04	<6.78E-04	<9.68E-04	<7.97E-04	865,785	80,434	<6.41E+01	<7.43E+01	<3.71E-02
Reaction Area	Med	197		56,626	5,261	0.0007	0.0020	0.0016	0.0005	0.0013	0.0009							
Repeat		197		56,626	5,261	<1.75E-04	0.0013	<1.39E-04	0.0025	<6.31E-04	<3.31E-04							
Reaction Area	Low	153	M	45,864	4,261	0.0003	0.0011	<3.55E-05	<3.57E-05	<5.73E-04	<7.23E-04	<5.73E-04	<7.23E-04	1,403,780	<1.30E+05	<9.43E+01	<1.09E+02	<5.46E-02
Non-Reaction Area	High	250		47,494	4,412	<9.97E-05	<3.71E-05	<4.33E-05	<5.28E-05	<6.90E-05	<7.77E-05	<6.90E-05	<7.77E-05	1,076,908	<1.00E+05	<7.77E+00	<9.00E+00	<4.50E-03
Non-Reaction Area	Med	87		58,663	5,450	<9.85E-05	<8.29E-05	0.0093	<3.00E-05	<1.02E-03	<1.28E-03	<5.41E-04	<6.75E-04	1,950,276	<1.81E+05	<1.22E+02	<1.42E+02	<7.08E-02
Non-Reaction Area	Med	237		30,995	2,880	0.0001	<6.71E-05	<7.50E-05	<7.87E-05	<6.69E-05	<6.99E-05							
Non-Reaction Area	Low	108		52,575	4,884	<3.90E-05	<6.24E-05	<3.35E-05	<3.67E-05	<4.78E-05	<4.19E-05	0.0851	0.0851	4,347,548	<4.04E+05	<1.69E+01	<1.96E+01	<9.80E-03
Non SEM Area													<5.14E-04	281,615	26,163	<1.34E+01	<1.56E+01	<7.78E-03
Total														12,900,697	1,198,514	**<6.02E+02**	**<6.98E+02**	**<3.57E-01**
									Membrane				<1.83E-03	2,005,938	186,358	<3.41E+02	<3.95E+02	<1.97E-01

Average Flux =	<5.14E-01	ug/m2-min
	<5.14E-04	mg/m2-min
Avg Mem. Flux =	<1.83E-03	mg/m2-min

m,p-xylene TO-14
108-38-3

				Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
		Rep								Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<5.98E-05	0.0003	<1.01E-04	0.0017	<1.51E-04	<7.82E-05	<1.04E-04	<6.38E-05	2,323,625	215,872	<1.38E+01	<1.60E+01	<7.98E-03
Repeat		76		48,758	4,530	<4.74E-05	<6.31E-05	<6.93E-05	<5.59E-05	<5.59E-05	<4.95E-05							
Reaction Area	High	169	Y	54,459	5,059	0.0064	0.0074	0.0008	0.0003	0.0062	0.0054	0.0062	0.0054	651,160	60,495	327	379	0.190
Reaction Area	Med	174	Y	48,344	4,491	0.0013	<1.71E-04	0.0003	0.0113	<7.77E-04	<8.00E-04	<6.18E-04	<5.22E-04	865,785	80,434	<4.20E+01	<4.86E+01	<2.43E-02
Reaction Area	Med	197		56,626	5,261	<1.30E-04	0.0010	<1.28E-04	<1.56E-04	<4.59E-04	<2.44E-04							
Repeat		197		56,626	5,261	<1.76E-04	0.0013	<1.40E-04	0.0025	<6.33E-04	<3.33E-04							
Reaction Area	Low	153	M	45,864	4,261	<9.61E-05	0.0016	<3.58E-05	<3.60E-05	<6.93E-04	<1.04E-03	<6.93E-04	<1.04E-03	1,403,780	<1.30E+05	<1.35E+02	<1.56E+02	<7.82E-02
Non-Reaction Area	High	250		47,494	4,412	<1.01E-04	<3.74E-05	<4.37E-05	<5.33E-05	<6.96E-05	<7.84E-05	<6.96E-05	<7.84E-05	1,076,908	<1.00E+05	<7.84E+00	<9.08E+00	<4.54E-03
Non-Reaction Area	Med	87		58,663	5,450	<9.94E-05	<8.36E-05	0.0137	0.0001	<1.45E-03	<1.84E-03	<7.60E-04	<9.55E-04	1,950,276	<1.81E+05	<1.73E+02	<2.01E+02	<1.00E-01
Non-Reaction Area	Med	237		30,995	2,880	0.0001	<6.77E-05	<7.57E-05	<7.94E-05	<6.75E-05	<7.05E-05							
Non-Reaction Area	Low	108		52,575	4,884	<3.93E-05	<6.30E-05	<3.39E-05	<3.70E-05	<4.82E-05	<4.23E-05	0.0851	0.0851	4,347,548	<4.04E+05	<1.71E+01	<1.98E+01	<9.89E-03
Non SEM Area													<6.11E-04	281,615	26,163	<1.60E+01	<1.85E+01	<9.26E-03
Total														12,900,697	1,198,514	**<7.16E+02**	**<8.30E+02**	**<4.24E-01**
									Membrane				<2.04E-03	2,005,938	186,358	<3.80E+02	<4.41E+02	<2.20E-01

Average Flux = <6.11E-01 ug/m2-min
<6.11E-04 mg/m2-min
Avg Mem. Flux = <2.04E-03 mg/m2-min

Total Reduced Sulfurs

0

				Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Rep Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<3.18E-04	<3.43E-04	<5.40E-04	<3.16E-04	<3.50E-04	<3.29E-04	<3.26E-04	<2.98E-04	2,323,625	215,872	<6.43E+01	<7.45E+01	<3.72E-02
Repeat		76		48,758	4,530	<2.56E-04	<3.41E-04	<3.69E-04	<2.98E-04	<3.01E-04	<2.66E-04							
Reaction Area	High	169	Y	54,459	5,059	0.0183	0.0065	0.0034	0.0010	0.0121	0.0132	0.0121	0.0132	651,160	60,495	800	927	0.463
Reaction Area	Med	174	Y	48,344	4,491	<5.01E-04	<8.93E-04	<3.34E-04	7.4850	<8.84E-04	<8.13E-04	<9.71E-04	<8.33E-04	865,785	80,434	<6.70E+01	<7.76E+01	<3.88E-02
Reaction Area	Med	197		56,626	5,261	<6.61E-04	0.0014	0.0018	<7.96E-04	<1.06E-03	<8.53E-04							
Repeat		197		56,626	5,261	<8.81E-04	<6.15E-04	<7.17E-04	<7.31E-04	<7.58E-04	<8.31E-04							
Reaction Area	Low	153	M	45,864	4,261	0.0016	<2.68E-04	<1.82E-04	<1.56E-04	<9.25E-04	<3.01E-04	<9.25E-04	<3.01E-04	1,403,780	<1.30E+05	<3.92E+01	<4.55E+01	<2.27E-02
Non-Reaction Area	High	250		47,494	4,412	<5.00E-04	<1.74E-04	<2.21E-04	<2.70E-04	<3.42E-04	<3.88E-04	<3.42E-04	<3.88E-04	1,076,908	<1.00E+05	<3.88E+01	<4.50E+01	<2.25E-02
Non-Reaction Area	Med	87		58,663	5,450	0.0036	<4.54E-04	0.0052	<1.65E-04	<2.49E-03	<3.15E-03	<1.42E-03	<1.76E-03	1,950,276	<1.81E+05	<3.19E+02	<3.69E+02	<1.85E-01
Non-Reaction Area	Med	237		30,995	2,880	<3.48E-04	<3.56E-04	<3.98E-04	<4.22E-04	<3.56E-04	<3.72E-04							
Non-Reaction Area	Low	108		52,575	4,884	<1.94E-04	<3.18E-04	<1.69E-04	<1.75E-04	<2.41E-04	<2.10E-04	0.0851	0.0851	4,347,548	<4.04E+05	<8.49E+01	<9.84E+01	<4.92E-02
Non SEM Area													<1.20E-03	281,615	26,163	<3.15E+01	<3.65E+01	<1.83E-02
Total														12,900,697	1,198,514	**<1.41E+03**	**<1.64E+03**	**<8.37E-01**
									Membrane				<3.66E-03	2,005,938	186,358	<6.82E+02	<7.90E+02	<3.95E-01

Average Flux = <1.20E+00 ug/m2-min
<1.20E-03 mg/m2-min
Avg Mem. Flux = <3.66E-03 mg/m2-min

Dimethyl Sulfide
75-18-3

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<5.80E-04	<6.25E-04	<9.85E-04	<5.76E-04	<6.39E-04	<5.99E-04	<5.94E-04	<5.43E-04	2,323,625	215,872	<1.17E+02	<1.36E+02	<6.79E-02
Repeat		76		48,758	4,530	<4.66E-04	<6.21E-04	<6.73E-04	<5.43E-04	<5.49E-04	<4.86E-04							
Reaction Area	High	169	Y	54,459	5,059	0.0213	0.0060	0.0019	0.0012	0.0132	0.0147	0.0132	0.0147	651,160	60,495	887	1,027	0.514
Reaction Area	Med	174	Y	48,344	4,491	<9.13E-04	<1.63E-03	<6.09E-04	9.0813	<1.46E-03	<1.33E-03	<1.27E-03	<1.25E-03	865,785	80,434	<1.00E+02	<1.16E+02	<5.81E-02
Reaction Area	Med	197		56,626	5,261	<1.21E-03	<8.98E-04	<1.15E-03	<1.45E-03	<1.08E-03	<1.16E-03							
Repeat		197		56,626	5,261	<1.61E-03	<1.12E-03	<1.31E-03	<1.33E-03	<1.38E-03	<1.51E-03							
Reaction Area	Low	153	M	45,864	4,261	<9.11E-04	<4.88E-04	<3.31E-04	<2.85E-04	<6.84E-04	<4.58E-04	<6.84E-04	<4.58E-04	1,403,780	<1.30E+05	<5.97E+01	<6.91E+01	<3.46E-02
Non-Reaction Area	High	250		47,494	4,412	<9.12E-04	<3.17E-04	<4.02E-04	<4.92E-04	<6.23E-04	<7.07E-04	<6.23E-04	<7.07E-04	1,076,908	<1.00E+05	<7.08E+01	<8.20E+01	<4.10E-02
Non-Reaction Area	Med	87		58,663	5,450	0.0023	<8.28E-04	<4.94E-04	<3.01E-04	<1.53E-03	<1.77E-03	<1.09E-03	<1.22E-03	1,950,276	<1.81E+05	<2.22E+02	<2.57E+02	<1.28E-01
Non-Reaction Area	Med	237		30,995	2,880	<6.35E-04	<6.50E-04	<7.26E-04	<7.69E-04	<6.50E-04	<6.78E-04							
Non-Reaction Area	Low	108		52,575	4,884	<3.54E-04	<5.81E-04	<3.08E-04	<3.20E-04	<4.40E-04	<3.83E-04	0.0851	0.0851	4,347,548	<4.04E+05	<1.55E+02	<1.79E+02	<8.97E-02
Non SEM Area													<1.37E-03	281,615	26,163	<3.59E+01	<4.17E+01	<2.08E-02
Total														12,900,697	1,198,514	**<1.61E+03**	**<1.87E+03**	**<9.54E-01**
									Membrane				<3.88E-03	2,005,938	186,358	<7.23E+02	<8.38E+02	<4.19E-01

Average Flux = <1.37E+00 ug/m2-min
<1.37E-03 mg/m2-min
Avg Mem. Flux = <3.88E-03 mg/m2-min

sec-Butyl Mercaptan / Thiophene

513-53-1

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<8.42E-04	<9.08E-04	<1.43E-03	<8.37E-04	<9.27E-04	<8.70E-04	<8.62E-04	<7.88E-04	2,323,625	215,872	<1.70E+02	<1.97E+02	<9.85E-02
Repeat		76		48,758	4,530	<6.76E-04	<9.02E-04	<9.76E-04	<7.88E-04	<7.97E-04	<7.05E-04							
Reaction Area	High	169	Y	54,459	5,059	0.0092	0.0043	<7.57E-04	<4.96E-04	<6.41E-03	<6.61E-03	<6.41E-03	<6.61E-03	651,160	60,495	<4.00E+02	<4.64E+02	<2.32E-01
Reaction Area	Med	174	Y	48,344	4,491	<1.33E-03	<2.36E-03	<8.84E-04	2.5080	<1.78E-03	<1.59E-03	<1.67E-03	<1.64E-03	865,785	80,434	<1.32E+02	<1.52E+02	<7.62E-02
Reaction Area	Med	197		56,626	5,261	<1.75E-03	<1.30E-03	<1.67E-03	<2.11E-03	<1.56E-03	<1.68E-03							
Repeat		197		56,626	5,261	<2.33E-03	<1.63E-03	<1.90E-03	<1.94E-03	<2.01E-03	<2.20E-03							
Reaction Area	Low	153	M	45,864	4,261	<1.32E-03	<7.09E-04	<4.81E-04	<4.14E-04	<9.93E-04	<6.64E-04	<9.93E-04	<6.64E-04	1,403,780	<1.30E+05	<8.66E+01	<1.00E+02	<5.02E-02
Non-Reaction Area	High	250		47,494	4,412	<1.32E-03	<4.60E-04	<5.84E-04	<7.14E-04	<9.04E-04	<1.03E-03	<9.04E-04	<1.03E-03	1,076,908	<1.00E+05	<1.03E+02	<1.19E+02	<5.95E-02
Non-Reaction Area	Med	87		58,663	5,450	0.0028	<1.20E-03	0.0029	<4.37E-04	<2.16E-03	<2.47E-03	<1.55E-03	<1.73E-03	1,950,276	<1.81E+05	<3.13E+02	<3.63E+02	<1.81E-01
Non-Reaction Area	Med	237		30,995	2,880	<9.21E-04	<9.43E-04	<1.05E-03	<1.12E-03	<9.43E-04	<9.84E-04							
Non-Reaction Area	Low	108		52,575	4,884	<5.13E-04	<8.43E-04	<4.47E-04	<4.64E-04	<6.38E-04	<5.56E-04	0.0851	0.0851	4,347,548	<4.04E+05	<2.25E+02	<2.60E+02	<1.30E-01
Non SEM Area													<1.22E-03	281,615	26,163	<3.19E+01	<3.69E+01	<1.85E-02
Total														12,900,697	1,198,514	**<1.43E+03**	**<1.66E+03**	**<8.46E-01**
									Membrane				<2.38E-03	2,005,938	186,358	<4.43E+02	<5.13E+02	<2.57E-01

Average Flux =	<1.22E+00	ug/m2-min
	<1.22E-03	mg/m2-min
Avg Mem. Flux =	<2.38E-03	mg/m2-min

Isopropyl Mercaptan
75-33-2

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<7.11E-04	<7.66E-04	<1.21E-03	<7.07E-04	<7.83E-04	<7.35E-04	<7.28E-04	<6.65E-04	2,323,625	215,872	<1.44E+02	<1.66E+02	<8.32E-02
Repeat		76		48,758	4,530	<5.71E-04	<7.62E-04	<8.25E-04	<6.65E-04	<6.73E-04	<5.95E-04							
Reaction Area	High	169	Y	54,459	5,059	<1.77E-03	<1.14E-03	<6.39E-04	<4.18E-04	<1.40E-03	<1.43E-03	<1.40E-03	<1.43E-03	651,160	60,495	<8.62E+01	<9.99E+01	<5.00E-02
Reaction Area	Med	174	Y	48,344	4,491	<1.12E-03	<2.00E-03	<7.46E-04	0.8785	<1.46E-03	<1.30E-03	<1.39E-03	<1.36E-03	865,785	80,434	<1.09E+02	<1.27E+02	<6.34E-02
Reaction Area	Med	197		56,626	5,261	<1.48E-03	<1.10E-03	<1.41E-03	<1.78E-03	<1.32E-03	<1.42E-03							
Repeat		197		56,626	5,261	<1.97E-03	<1.37E-03	<1.60E-03	<1.63E-03	<1.69E-03	<1.86E-03							
Reaction Area	Low	153	M	45,864	4,261	<1.12E-03	<5.98E-04	<4.06E-04	<3.49E-04	<8.38E-04	<5.61E-04	<8.38E-04	<5.61E-04	1,403,780	<1.30E+05	<7.31E+01	<8.47E+01	<4.24E-02
Non-Reaction Area	High	250		47,494	4,412	<1.12E-03	<3.88E-04	<4.93E-04	<6.03E-04	<7.63E-04	<8.67E-04	<7.63E-04	<8.67E-04	1,076,908	<1.00E+05	<8.67E+01	<1.00E+02	<5.02E-02
Non-Reaction Area	Med	87		58,663	5,450	<1.18E-03	<1.02E-03	0.0017	<3.69E-04	<1.16E-03	<1.21E-03	<9.80E-04	<1.02E-03	1,950,276	<1.81E+05	<1.85E+02	<2.14E+02	<1.07E-01
Non-Reaction Area	Med	237		30,995	2,880	<7.78E-04	<7.97E-04	<8.90E-04	<9.43E-04	<7.97E-04	<8.31E-04							
Non-Reaction Area	Low	108		52,575	4,884	<4.34E-04	<7.12E-04	<3.77E-04	<3.92E-04	<5.39E-04	<4.70E-04	0.0851	0.0851	4,347,548	<4.04E+05	<1.90E+02	<2.20E+02	<1.10E-01
Non SEM Area													<7.45E-04	281,615	26,163	<1.95E+01	<2.26E+01	<1.13E-02
Total														12,900,697	1,198,514	**<8.74E+02**	**<1.01E+03**	**<5.18E-01**
									Membrane				<1.06E-03	2,005,938	186,358	<1.98E+02	<2.29E+02	<1.14E-01

Average Flux = <7.45E-01 ug/m2-min
<7.45E-04 mg/m2-min
Avg Mem. Flux = <1.06E-03 mg/m2-min

Hydrogen Sulfide
7783-06-4

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<3.18E-04	<3.43E-04	<5.40E-04	<3.16E-04	<3.50E-04	<3.29E-04	<3.26E-04	<2.98E-04	2,323,625	215,872	<6.43E+01	<7.45E+01	<3.72E-02
Repeat		76		48,758	4,530	<2.56E-04	<3.41E-04	<3.69E-04	<2.98E-04	<3.01E-04	<2.66E-04							
Reaction Area	High	169	Y	54,459	5,059	<7.91E-04	0.0016	<2.86E-04	<1.87E-04	<1.08E-03	<8.31E-04	<1.08E-03	<8.31E-04	651,160	60,495	<5.03E+01	<5.83E+01	<2.91E-02
Reaction Area	Med	174	Y	48,344	4,491	<5.01E-04	<8.93E-04	<3.34E-04	0.0261	<6.42E-04	<5.71E-04	<6.16E-04	<6.03E-04	865,785	80,434	<4.85E+01	<5.62E+01	<2.81E-02
Reaction Area	Med	197		56,626	5,261	<6.61E-04	<4.93E-04	<6.29E-04	<7.96E-04	<5.91E-04	<6.35E-04							
Repeat		197		56,626	5,261	<8.81E-04	<6.15E-04	<7.17E-04	<7.31E-04	<7.58E-04	<8.31E-04							
Reaction Area	Low	153	M	45,864	4,261	<5.00E-04	<2.68E-04	<1.82E-04	<1.56E-04	<3.75E-04	<2.51E-04	<3.75E-04	<2.51E-04	1,403,780	<1.30E+05	<3.27E+01	<3.79E+01	<1.90E-02
Non-Reaction Area	High	250		47,494	4,412	<5.00E-04	<1.74E-04	<2.21E-04	<2.70E-04	<3.42E-04	<3.88E-04	<3.42E-04	<3.88E-04	1,076,908	<1.00E+05	<3.88E+01	<4.50E+01	<2.25E-02
Non-Reaction Area	Med	87		58,663	5,450	<5.26E-04	<4.54E-04	<2.71E-04	<1.65E-04	<4.72E-04	<4.79E-04	<4.14E-04	<4.25E-04	1,950,276	<1.81E+05	<7.71E+01	<8.93E+01	<4.46E-02
Non-Reaction Area	Med	237		30,995	2,880	<3.48E-04	<3.56E-04	<3.98E-04	<4.22E-04	<3.56E-04	<3.72E-04							
Non-Reaction Area	Low	108		52,575	4,884	<1.94E-04	<3.18E-04	<1.69E-04	<1.75E-04	<2.41E-04	<2.10E-04	0.0851	0.0851	4,347,548	<4.04E+05	<8.49E+01	<9.84E+01	<4.92E-02
Non SEM Area													<3.38E-04	281,615	26,163	<8.85E+00	<1.03E+01	<5.13E-03
Total														12,900,697	1,198,514	**<3.97E+02**	**<4.60E+02**	**<2.35E-01**
									Membrane				<5.99E-04	2,005,938	186,358	<1.12E+02	<1.29E+02	<6.47E-02

Average Flux =	<3.38E-01	ug/m2-min
	<3.38E-04	mg/m2-min
Avg Mem. Flux =	<5.99E-04	mg/m2-min

Methyl Mercaptan
74-93-1

		Rep		Cell Area		Flux (mg/m2-min)								Area Rep		Emissions		
										Weighted Avg.		Used						
Category	**Subset**	**Cell**	**M?**	**(ft2)**	**(m2)**	**Low**	**Med**	**High**	**Max**	**Target**	**Actual**	**Target**	**Actual**	**(ft2)**	**(m2)**	**(mg/min)**	**(lbs/yr)**	**(TPY)**
Exceedance Area		76		48,758	4,530	<4.49E-04	<4.84E-04	<7.63E-04	<4.46E-04	<4.95E-04	<4.64E-04	<4.60E-04	<4.20E-04	2,323,625	215,872	<9.07E+01	<1.05E+02	<5.26E-02
Repeat		76		48,758	4,530	<3.61E-04	<4.81E-04	<5.21E-04	<4.20E-04	<4.25E-04	<3.76E-04							
Reaction Area	High	169	Y	54,459	5,059	<1.12E-03	<7.20E-04	<4.04E-04	<2.64E-04	<8.86E-04	<9.00E-04	<8.86E-04	<9.00E-04	651,160	60,495	<5.45E+01	<6.31E+01	<3.16E-02
Reaction Area	Med	174	Y	48,344	4,491	<7.07E-04	<1.26E-03	<4.72E-04	0.0160	<9.05E-04	<8.05E-04	<8.70E-04	<8.51E-04	865,785	80,434	<6.84E+01	<7.93E+01	<3.96E-02
Reaction Area	Med	197		56,626	5,261	<9.33E-04	<6.95E-04	<8.89E-04	<1.12E-03	<8.34E-04	<8.96E-04							
Repeat		197		56,626	5,261	<1.24E-03	<8.68E-04	<1.01E-03	<1.03E-03	<1.07E-03	<1.17E-03							
Reaction Area	Low	153	M	45,864	4,261	<7.06E-04	<3.78E-04	<2.56E-04	<2.21E-04	<5.30E-04	<3.54E-04	<5.30E-04	<3.54E-04	1,403,780	<1.30E+05	<4.62E+01	<5.35E+01	<2.68E-02
Non-Reaction Area	High	250		47,494	4,412	<7.06E-04	<2.45E-04	<3.11E-04	<3.81E-04	<4.82E-04	<5.48E-04	<4.82E-04	<5.48E-04	1,076,908	<1.00E+05	<5.48E+01	<6.35E+01	<3.17E-02
Non-Reaction Area	Med	87		58,663	5,450	<7.43E-04	<6.41E-04	<3.83E-04	<2.33E-04	<6.66E-04	<6.76E-04	<5.85E-04	<6.00E-04	1,950,276	<1.81E+05	<1.09E+02	<1.26E+02	<6.30E-02
Non-Reaction Area	Med	237		30,995	2,880	<4.91E-04	<5.03E-04	<5.62E-04	<5.96E-04	<5.03E-04	<5.25E-04							
Non-Reaction Area	Low	108		52,575	4,884	<2.74E-04	<4.49E-04	<2.38E-04	<2.48E-04	<3.41E-04	<2.97E-04	0.0851	0.0851	4,347,548	<4.04E+05	<1.20E+02	<1.39E+02	<6.95E-02
Non SEM Area													<4.63E-04	281,615	26,163	<1.21E+01	<1.40E+01	<7.02E-03
Total														12,900,697	1,198,514	**<5.43E+02**	**<6.29E+02**	**<3.22E-01**
									Membrane				<6.70E-04	2,005,938	186,358	<1.25E+02	<1.45E+02	<7.23E-02

Average Flux =	<4.63E-01	ug/m2-min
	<4.63E-04	mg/m2-min
Avg Mem. Flux =	<6.70E-04	mg/m2-min

Attachment 1
Data Validation Technical Memorandum

Attachment 2
Source Test Protocol

CE Schmidt, Ph.D.
Environmental Consultant

TECHNICAL MEMORANDUM

TEST EVENT #4: Flux Chamber Assessment of Air Emissions from the Chiquita Canyon Landfill Located in Castaic, California

Prepared for:
Mr. Tom Card
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Prepared by:
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May 2025

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C - Lab Reports
D - Calibration Records

References

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EXECUTIVE SUMMARY

This Technical Memorandum includes a discussion of the testing methodology, quality control procedures, and results of the flux data the from the March 2025 fourth air emissions testing event (Test Event #4).

Field measurements were conducted by landfill screening experts at the Chiquita Canyon Landfill (CCLF or Landfill) facility located at 29201 Henry Mayo Drive, Castaic, California in March 2025, to measure surface air emissions from the Landfill. Testing was performed using field screening for methane at the surface and following screening, in-depth area source testing using the U.S. Environmental Protection Agency (USEPA) Surface Emission Isolation Flux Chamber (flux chamber) technology as per the USEPA User's Guidance document protocol (February 1986). This USEPA document provides the guidance for constructing and operating an agency approved area source measurement technology. The average flux (in units of mass per time per unit area) of surface emissions were calculated per category of grid cell (i.e., low, medium, high, highest) per type of landfill area (i.e., reaction area and non-reaction area as defined in the Assessment of Air Emissions from Landfill Surfaces [Emissions Report]). When summed, these grid cell flux data multiplied by the number of grid cells in these categories represents the air emissions of compounds from the Landfill surface.

The methane surface screening was conducted in similar fashion as to the USEPA New Source Performance Standards (NSPS) Title 40 Code of Federal Regulations (CFR) Part 60.755 (c) and (d), and CFR Part 60, Appendix A, Method 21 and the surface emissions monitoring (SEM) requirements contained within the California AB 32 Landfill Methane Rule (LMR) under Title 17 California Code of Regulations. The screening used the same grid system as is used in the South Coast Air Quality Management District's (SCAQMD) Rule 1150.1 surface emissions monitoring, which consists of nominal one acre grid cells (approximately 50,000 square feet). A total vapor analyzer (TVA) instrument fit with a flame ionization detector (FID) was used along with a global positioning system (GPS) location recording to map fugitive surface emissions in each grid cell.

As described in the Emissions Report, methane screening was performed by recording data along a traverse pattern that is spaced at 25 feet over the Landfill grid cells. Concentration data and location information was collected and used to generate integrated screening concentration of each grid cell. Grid cells were then ranked and divided into three groups: low emission, medium emission, and high emission per study area (reaction area and non-reaction area). Grid cells were selected for testing as described in the Emissions Report. The selected grid cells were screened on a point-by-point basis. Representative low, medium, high, and the highest emission locations

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were selected for flux chamber testing. Samples collected from the flux chamber were sent offsite for laboratory analysis.

A summary of the sampling program and testing efforts is provided below.

Table TM 1. Summary of Sample Collection.

SOURCE	SURFACE CONDITION	SAMPLES
Grid Cell #176	Soil	4
Grid Cell #74	Synthetic Membrane	4
Grid Cell #169	Synthetic Membrane	4
Grid Cell #154	Synthetic Membrane	4
Grid Cell #87	Soil	4
Grid Cell #197	Soil/Wood Chips	4
Grid Cell #108	Soil	4
Grid Cell $250	Soil	4
Grid Cell #76	Soil	4
Grid Cell #237	Soil	4
Grid Cell #197	Soil/Wood Chips	4
Blank	NA	3
Replicate	NA	3
TOTAL		50

The samples collected from the flux chamber for each location were used to calculate air emissions. The sample concentration data (mass per time) as received from the labs were reviewed, quality control (QC) data checks were performed, and tables were composed for total non-methane hydrocarbon compounds (TNMHC), hydrocarbon species, hazardous air pollutants (HAPs), sulfur containing compounds, fixed gases (CO2, hydrogen, CH4), and trace gas species helium (advective flow determination). This Technical Memorandum reports flux data for these study compounds along with QC evaluation. Emission estimates for the study compounds are provided in the Emissions Report.

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I. INTRODUCTION

This technical memorandum describes the field testing that was conducted to characterize surface or fugitive air emissions. The CCLF site is located in Castaic, California. As discussed in more detail in the Emissions Report, testing was conducted on March 19-21, 2025 by Dr. C.E. Schmidt, Mr. Tom Card, Mr. Josh Abbey, and Mr. Rich Wharton supported by SCS Engineers sub-contractors, who performed landfill surface screening for methane prior to the test dates and during the testing program. Preparation for testing included submitting a Sampling Protocol (SP) in collaboration with SCS Engineers that was approved by SCAQMD. SCAQMD was present during the testing event.

The objective of the overall flux chamber study was to measure fugitive air emissions from grid cells that represented areas of the Landfill affected by the subsurface reaction (reaction areas) as well as from areas unaffected by the reaction (non-reaction areas), as defined in the Emissions Report. The study was conducted by selecting representative test locations and conducting quantitative analysis of air emissions producing representative air emissions data.

This memorandum includes a discussion of the testing methodology, quality control procedures, and results. This memorandum only reports flux data per study compound and location.

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II. TEST METHODOLOGY

This section describes the methodologies used in the study for flux chamber testing, including evacuated canister and Tedlar® bag sample collection. Screening was performed in a fashion similar to the NSPS landfill screening protocol with additional criteria derived from the California Landfill Methane Regulation (LMR). Testing for surface flux was conducted using the USEPA recommended Surface Isolation Flux Chamber (flux chamber) (USEPA, Radian Corporation, February 1986). Flux chamber sampling was performed on pre-selected Landfill grids as described in the Emissions Report and as directed by the Sampling Plan (SP).

Flux Chamber Sampling

As described in the USEPA User's Guide (February 1986), the flux chamber is an environmental or portable chamber also known as a mixed-tank reactor that is used to measure the 'flux' (mass transfer of study compounds per surface area of area source per time). Ultra-high purity air (sweep air) from a compressed air cylinder is regulated and added to the flux chamber at a flow of 5 liters per minute (lpm) until the chamber contents are well mixed. The chamber is a 'vented' chamber which releases or exhausts the chamber gas through the pressure equalization port in the top of the chamber to the atmosphere which keeps the chamber contents at atmospheric pressure during the measurement. Chamber mixing is described by a number of 'residence times.' A residence time in the chamber is determined by dividing the chamber volume by the sweep air flow rate. Following the User's Guide and with a chamber volume of 30 liters, the residence time is 6 minutes. Proper mixing in the chamber is achieved after five residence times or 30 minutes. After mixing, or after the chamber contents (sweep air plus compounds emitted into the chamber) are at equilibrium, gas samples are collected per regulatory approved methods described in the SP. The flux of study compounds can be calculated (units of milligrams per square meter per minute, mg/m2,min) using the sweep air flow rate (5 lpm), the area of the flux chamber on the test site (0.13 square meters), and the concentration of the study compounds . This Technical Memorandum reports directly measured flux data for the study compounds used in the Emissions Report.

The basic operation of the flux chamber involved the following:

1. Identifying the test area or test surface
2. Initiating sweep gas flow rate to the flux chamber
3. Operating the chamber for at least five residence times (30 minutes)
4. Collecting sample gas from the chamber for analysis
5. Decontaminating the chamber
6. Relocating the measurement equipment to the next test area

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The specific operating protocol for flux chamber sampling was as follows:

1. Locate the flux chamber, sweep gas, sample collection equipment, and field documents at the test location.
2. Document site information, location information, equipment information, name of sampler, date, and time on the Emissions Measurement Data Sheets. (provided in Attachment A.)
3. Place the chamber approximately 1/4 inch into test surface at the test locations selected as described in the Emissions Report. Seal the chamber along the base to prevent air infiltration, sealing on membrane cover using clean fill soil as a barrier to air flow. Place thermocouples to monitor soil and air temperature inside and outside of the chamber.
4. Initiate the sweep gas flow rate and set the rotometer at 5.0 lpm. Maintain a constant sweep gas flow rate. Record time.
5. Collect instrument background data (thermocouple) and other parameters (see Emissions Measurement Data Sheets in Appendix A) and record data.
6. Connect the purge pump to the chamber. Purge the sample line from the flux chamber without exceeding the line purge rate (or sample gas collection rate) of 2.5 lpm; this prevents entraining of ambient air into the chamber.
7. Operate the chamber sweep air flow rate at 5.0 lpm and record data every residence time (6 minutes) for five residence times or 30 minutes. Record the flow rate and time data. Maintain the chamber at steady state. Purge the sample line and Tedlar bags from the flux chamber with at least 10 line-volumes of air as part of the odor bag sampling protocol using the decompression lung device, preparing the sample line for the balance of the sample media collection.
8. Connect the sample media sequentially (sulfur bag, and evacuated canister) to the purged sample line and collect the gas sample. Do not exceed a collection rate of 2.5 lpm at any time to prevent unwanted dilution of chamber exhaust gas by ambient air. Both the odor and sulfur bags are purged prior to sample collection; the evacuated canister is not purged.
9. Label sample bag and record sample collection on the data sheet.
10. Store the sample(s) in the appropriate storage and/or shipping container as specified in the SP.
11. Document sample collection in field data sheets (see Attachment A).
12. Discontinue the flux measurement, shut off the sweep air, remove chamber, and secure equipment.

13. Decontaminate the chamber where contact was made with the liquid or solid material using a clean paper towel and water (if needed) to remove any soil and condensation from the inside of the chamber.
14. Relocate equipment to the next test location and repeat steps 1 through 13.

Tedlar® Bag Sampling
Grab samples using Tedlar® bags were collected from the flux chamber sample line at steady-state conditions (five residence times) for analysis for sulfur containing species. Sampling rate was maintained at less than 2.5 lpm from the flux chamber. Bag samples were collected by connecting the sampling line from the flux chamber using 1/4-inch Swage-lock® fittings fit inside the decompression lung or pressure fittings, drawing a vacuum on the decompression lung, and filling the Tedlar® bag. Both sulfur bags (a, b) were purged and evacuated prior to sample collection in order to minimize sample bag interaction. Note two Tedlar bags were collected for sulfur species analysis according to the method.

Canister Sampling
Grab samples using Summa® polished, evacuated stainless steel canisters were collected from the exhaust line of the flux chamber at steady-state conditions for speciation by gas chromatography. Sampling rate was maintained at less than 2.5 lpm from the flux chamber. Canister samples were collected by connecting the canister from the flux chamber sampling line using 1/4-inch Swage-lock® fittings, drawing a vacuum from and filling the canister. All canisters were batch certified by the laboratory according to USEPA Methods TO-15/TO-12/fixed gases/helium and sampled to full capacity (atmospheric pressure).

III. QUALITY CONTROL

Control procedures that were used to assure that data of sufficient quality resulted from the flux chamber study are listed and described below. The application and frequency of these procedures were developed to meet the program data quality objectives as described in the SP for all analytical methods used in this study. Method detection limits for all sample data are provided in the attached laboratory reports.

Field Documentation – A field notebook containing data forms, including sample chain-of-custody (COC) forms, was maintained for the testing program. Attachment A contains the Emissions Measurement Data Sheets.

Chain-of-Custody – COC forms were used for field data collection. Field data were recorded on the COC forms provided in Attachment B. Calibration records and certifications are found in

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Attachment D.

Total VOC as TNMNC by Analysis by USEPA Method TO-12, C1

Method QC Requirements – Method QC procedures were completed as per method requirements. These data are reported in the method specific lab reports (included as applicable in the footnotes of the lab report showing compliance with methods).

Laboratory Method Blank – A total of seven laboratory method blank samples were performed by the laboratory. TNHMC compounds were not detected in the blank samples at the method detection limit (MDL) level of about 30 ug/m^3. These data indicate acceptable method performance.

Laboratory Precision – A total of seven laboratory control duplicate (LCD) samples including nine compounds were performed by the laboratory. The LCD samples were reported within the criteria of less than 25%. These data indicate acceptable method performance.

Laboratory Accuracy – A total of seven laboratory control sample (LCS) or blank spike samples including nine compounds were performed by the laboratory. The LCS samples were reported within the criteria of 70-to-130 percent recovery. These data indicate acceptable method performance.

Field System Blank – Three media (field) blank samples were prepared in the field (T-118, T-214, T-310) and were analyzed as field samples (blind QC sample). All three field blank samples show non detect (MDL 32 ug/m3). These data demonstrate acceptable method performance.

Field Method Precision – Three field samples were collected in replicate (second sample taken immediately after the first sample for method precision data) and analyzed for the flux chamber testing (T-116/-117, T-212/-213, and T-308/-309). Only one of the three sample/replicate pairs showed detections above detection and the RPD value for TNMHC, C1 for this sample/replicate pair was 54 just over the criteria (QC criteria 50 RPD). With low detections of compounds found in this sample set, precision values exceeding criteria is not uncommon. These data do not indicate a systematic issue with precision for this method.

Hydrocarbon Species Analysis by USEPA Method TO-14

Method QC Requirements – Method QC procedures were completed as per method requirements. These data are reported in the method specific lab reports ((included as applicable in the footnotes of the lab report showing compliance with methods).

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Laboratory Method Blank – A total of seven laboratory method blank samples were performed by the laboratory. Hydrocarbon compounds were not detected in the blank samples at the method detection limit (MDL) level of 1-to-1.2 ug/m^3. These data indicate acceptable method performance.

Laboratory Precision – A total of seven laboratory control duplicate (LCD) samples including nine compounds were performed by the laboratory. The LCD samples were reported within the criteria of less than 25%. These data indicate acceptable method performance.

Laboratory Accuracy – A total of seven laboratory control sample (LCS) or blank spike samples including nine compounds were performed by the laboratory. The LCS samples were reported within the criteria of 70-to-130 percent recovery. These data indicate acceptable method performance.

Field System Blank – Three media (field) blank samples were prepared in the field (T-118, T-2514, T-310) and were analyzed as field samples (blind QC sample). All three field blank samples show non detect (MDL 1.2-to-1.4 ug/m3). These data demonstrate acceptable method performance.

Field Method Precision – Three field samples were collected in replicate (second sample taken immediately after the first sample for method precision data) and analyzed for the flux chamber testing (T-116/-117, T-212/-213, and T-308/-309). Two sample/replicate pairs showed J values and a non detects and did not provide precision data. The third sample/replicate pair showed four data sets with RPD values for TNMHC ranging from of 6.7 to 66, with two sample/replicate pairs just exceeding criteria (QC criteria 50 RPD). Despite two exceedances of the four pairs and the non detects of compounds, these data do not indicate a systematic issue with precision.

Individual HAP Analysis by USEPA Method TO-15

Method QC Requirements – Method QC procedures were completed as per method requirements including recovery of surrogate compounds. These data are reported in the method specific lab reports.

Laboratory Method Blank – A total of five laboratory method blank samples were performed by the laboratory. Most compounds were not detected in the blank samples above the compound specific MDL levels (range of 1-to-15 ug/m^3). One of the five method blanks showed detects of four compounds ranging from 0.47 ug/m3-to-23 ug/m3. No compounds were detected in the field method blanks. These data indicate acceptable method performance.

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Laboratory Precision – A total of five laboratory LCD samples including 18 compounds were performed by the laboratory. All LCD samples were reported within the criteria of less than 25%. These data indicate acceptable method performance.

Laboratory Accuracy – A total of five laboratory LCS samples including 18 compounds were performed by the laboratory. All LCS samples were reported within the criteria of 70-to-130 percent recovery. These data indicate acceptable method performance.

Field System Blank – Three media field blank samples were prepared in the field (T-118, T-214, T-310) and were analyzed as a field sample (blind QC sample). No compounds were detected above MDL (range of 0.65-to-11 ug/m^3) in the three field blank samples. These data demonstrate acceptable method performance.

Field Method Precision – Three field samples were collected in replicate and analyzed for the flux chamber testing (T-116/-117, T-212/-213, and T-308/-309). The sample/replicate pair T-116/-217 showed three compound pairs above reporting limits with a RPD range of 24-to-47; no compound pairs exceeded criteria. The sample/replicate pair T-212/-213 showed four compound pairs above reporting limits with a RPD range of 0.21-to-18; no compound pairs exceeded criteria. The sample/replicate pair T-308/-309 showed five compound pairs above reporting limits with a RPD range of 1.9-to-44; no compound pairs exceeded criteria. These data indicate acceptable method performance.

SCAQMD 307.91 Analysis for Hydrogen Sulfide

Method QC Requirements – Method QC procedures were completed as per method requirements. These data are reported in the method specific lab reports. Ten QC standard QC data sets were run in total on the samples for the instrument used in analyzing the samples; four runs on the first two batches each and two on the third batch of samples. In summary, the opening calibration verification standard and duplicate analysis QC (95%-105%, <5 RPD), method blank QC (<pql), standard and duplicate standard analysis QC (95%-105%, <10%), matrix spike/ QC (<10%), and closing calibration curve verification standard QC (90-110%) for both instruments used in the analyses were within the method requirements. These data indicate acceptable performance. Note that each sample was collected in duplicate (a, b) and samples indicated with a sample ID of 'a' were analyzed.

Field System Blank – Three media field blank samples were prepared in the field (S-118, S-214, S-310) and were analyzed as field samples (blind QC sample). Hydrogen sulfide/and other reduced sulfur compounds were not detected in the three blank samples at a level of 0.005 ppmv. These data demonstrate acceptable method performance.

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Field Method Precision – Three field samples were collected in replicate and analyzed for the flux chamber testing (S-116/-117, S-212/-213, and S-308/-309). In each case, sample and replicate pair, both were non-detect for all three pairs, thus no information could be obtained regarding precision for the method. However, the laboratory precision data was acceptable. These data indicate acceptable method performance.

ASTM 1945/USEPA 3C for Fixed Gases (methane and carbon dioxide)
Method QC Requirements – Method QC procedures were completed as per method requirements.

Laboratory Method Blank – One laboratory method blank sample was performed by the laboratory. Fixed gases were not detected in the blank samples above the MDL that ranged between 0.01% to 0.05%. These data indicate acceptable method performance.

Laboratory Precision – One LCD sample was performed by the laboratory. The LCD sample was reported within the criteria of less than 25%. These data indicate acceptable method performance.

Laboratory Accuracy – One LCS sample wase performed by the laboratory. The LCS sample was reported within the criteria of 70-to-130 percent recovery. These data indicate acceptable method performance.

Field System Blank (accuracy) – Three media (field) blank samples were prepared in the field (T-118, T-214, T-310) and were analyzed as field samples (blind QC sample). Carbon dioxide and methane were both not detected above the method detection limit (0.05 ppmV methane and 0.01% carbon dioxide). These data demonstrate acceptable method performance.

Field Method Precision – Three field samples were collected in replicate and analyzed for the flux chamber testing (T-116/-117, T-214/-515, and T-308/-309). Two of the sample replicate pairs for carbon dioxide had a RPD of 0.0 and the third was 25 RPD (criteria RPD 50). Likewise two of the sample replicate pairs for methane had a RPD of 0.0 and the third was 43 RPD (criteria RPD 50). These data indicate acceptable method performance.

ASTM D1945 for Helium (trace gas detection)
Method QC Requirements – Method QC procedures were completed as per method requirements.

Laboratory Method Blank – A total of one laboratory method blank sample was performed by the laboratory. Helium was not detected in the blank samples at the MDL of 0.02%. These data indicate acceptable method performance.

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Laboratory Precision – One LCD sample was performed by the laboratory. The LCD sample was reported within the criteria of less than 25%. These data indicate acceptable method performance.

Laboratory Accuracy – One LCS sample was performed by the laboratory. The LCS sample was reported within the criteria of 70-to-130 percent recovery. These data indicate acceptable method performance.

Field System Blank – Three media field blank samples were prepared in the field (T-118, T-214, T-314) and were analyzed as field samples (blind QC sample). Given that these blank samples were taken from a calibration standard gas, these data serve as accuracy data or sample recovery QC data (±30%). The range of percent recovery for the three samples was 88.7%-to-99.4%. These data demonstrate acceptable method performance.

Field Method Precision – Three field samples were collected in replicate and analyzed for the flux chamber testing (T-116/-117, T-212/-213, and T-308/-309). The RPD values ranged from 3.8-to-5.8 (QC criteria (50 RPD). These data indicate acceptable method performance.

Field Calibration of the TVA-1000; Screening for Total Hydrocarbon Concentration

Pre-Use and Post-Use Instrument Response to Span (calibration) Gas and Zero Air (pure air)

The TVA-1000 instrument with an FID detector was pre-use and post-use calibrated each day of use using certified methane span gas standard at 100 ppmv. Zero air checks were generally acceptable, and all span checks were within 70%-to-130% accuracy, indicating acceptable instrument performance. The cold morning startups did cause higher blank levels and recalibration during the day as the ambient temperature increased, however the instrument did provide useful screening data. The instrument also came with a photo ionization detector (PID) detector but was not used for the screening activities. No field data (TVA FID or PID) were used in the emissions calculations; these data were only used in the field for directive purposes.

Field Calibration of the J-631X; Screening for Hydrogen Sulfide

Pre-Use and Post-Use Instrument Response to Zero Air

The two J-631X hydrogen sulfide analyzers were pre-use and post-use zero air checked and re-zeroed without incident. These field screening instruments performed well as compared to pre and post zero air checks. The cold morning startups did cause higher blank levels and high/low response recalibration during the day as the ambient temperature increased, however the instrument did provide useful screening data. Each analyzer seemed to have different sensitivity, and measurements were performed and recorded for both analyzers. No field data (J-631X) were used in the emissions calculations; these data were only used in the field for directive purposes.

IV. RESULTS AND DISCUSSIONS

A summary of the field sample collection information and field data for the field testing is shown in Table 1. Note that one grid (#197) was retested because it was learned that evening activities (work on the gas collection system) had occurred in that area. As such an addition testing event was conducted on Gird #197. All field data for the surface flux chamber testing and sample identification information are presented in Table 2. Table 2 provides both concentration (%, mg/m^3, DT) and flux (mg/m^2,min, DT/m2,min) data. All laboratory data, including quality control data, are presented in Attachment C to this memorandum. TO-15 data is presented in Table 3, TO-14 data is presented in Table 4, and SCAQMD 307-91 data is presented in Table 5.

Surface flux data are shown in flux units for compound emissions (mg/m^2,min and DT/m2,min). Surface flux for a surface area source is calculated using measured target compound concentrations/odor DT and flux chamber operating parameter data (sweep air flow rate of 5.0 lpm [or 0.005 cubic meters per minute (m^3/min) plus advective flow], surface area of 0.13 square meters [m^2]). The site emissions can be calculated by multiplying the flux by the surface area of the grid cell or source tested. The flux (Fi, mg/m2,min or DT/m2,min) is calculated from the sweep air flow rate (Q, m^3/min)), the compound concentration (Yi, mg/m^3 or DT), and exposure to the chamber surface area (A, m^2)), as follows:

$$Fi = (Q)\ (Yi) / (A)$$

Emission rate (mass per time) from a source tested using the flux chamber technology can be obtained by multiplying unit or average flux data per compound by the surface area of the source. Note that advective flow at each test location was determined by the dilution of the 10% helium trace gas as is the protocol for SCAQMD Rule 1133.3, Attachment A.

The flux of VOCs as TNMHC, HAPs compounds, hydrocarbon species, sulfur containing compounds, and fixed gases (methane, hydrogen, and carbon dioxide) from the landfill grid cells tested is provided in this Technical Memorandum and is used in the Emissions Report.

The data set met the QC requirements provided in the SP and the laboratory methods employed.

V. SUMMARY

A focused air emissions assessment was performed on the CCLF at the facility located in Castaic, California. Areas of the Landfill that were tested included grid cells representative of both areas of the Landfill affected by the reaction and areas of the Landfill not affected by the reaction.

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Surfaces in the reaction area that were covered with a synthetic membrane were also tested as the technical approach included those grid cells by SEM screening like other grid cells on site. The following is a summary of activities and results associated with this Technical Memorandum:

- Surface flux measurements of VOCs as TNMHC, hydrocarbon species, HAPs compounds, sulfur containing compounds, and fixed gases (methane, carbon dioxide, helium) were measured on nine selected landfill grid cells; two grid cells were tested twice for field QC compliance (comparison purposes) or representativeness. Four flux chamber measurements were taken from each grid cell.

- Grid selection was based on the areas of interest (i.e., reaction area and non-reaction area) and methane surface screening data.

- Emissions testing was performed using the USEPA recommended surface flux chamber technology as described in the USEPA User's Guide for assessing fugitive air emissions from area sources. Surface advective flow was determined at each location by the dilution of a trace gas (10% helium) used as the chamber sweep air. Study compounds were tested following regulatory approved sampling and analytical methods. These technologies were used to quantitatively measure flux at the test surface of the listed study compounds.

- Field and laboratory quality control data indicate acceptable data quality for all of the analytical methods used. Lab method samples and media/field blank levels for the analytical methods were found to be acceptable according to the methods used. Method precision for the lab replicates and spike samples (LCD and LCS) met the method criteria. Field method blank samples and field replicate samples were also acceptable however some field precision exceeded criteria. This was likely due to the low levels found in many samples. The data set is of acceptable data quality for the purpose of assessing compound emissions from the landfill.

- The flux data generated in this field study can be used to estimate emission factors from the landfill area sources tested.

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REFERENCES

USEPA. 1986. "Measurement of Gaseous Emission Rates from Land Surfaces Using an Emission Isolation Flux Chamber, Users Guide." EPA Environmental Monitoring Systems Laboratory, Las Vegas, Nevada, EPA Contract No. 68-02-3889, Work Assignment No. 18, Radian Corporation, February 1986. NTIS # PB 86-223161.

Card, T.R. and C.E. Schmidt. ***"Assessment of Air Emissions from the Landfill Surfaces, Sampling Protocol, Revision 1",*** prepared for SCS Engineers and the Chiquita Canyon Landfill, Castaic, CA, August 2023.

Table 1. Summary of Field Sampling data for Chiquita Canyon Air Emission Assessment, March 19-21, 2025.

DATE	TIME	Test Site	Grid Category	LOC.	TO-15	SRS	J 631X In	J 631X Out	FID In	FID Filter In	FID Out	FID Filter Out	Helium	IN SURF	IN AIR	OUT SURF	OUT AIR	Coordinates		COMMENT
					ID	ID a,b	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(%)	°F	°F	°F	°F	11 S 34	381	
3/19/2025	830	Grid Cell #76	Exceedance	1	T-101	S-101	0.008/0.000	0.008/0.000	-0.2	-0.2	2.5	2.5	5.3	55	57	50	53	8.749	1.756	Soil
3/19/2025	830	Grid Cell #76		2	T-102	S-102	0.006/0.000	0.17/0.002	1	2.5	0.17	0.002	4.6	54	54	48	54	8.740	1.751	"
3/19/2025	830	Grid Cell #76		3	T-103	S-103	0.003/0.000	0.009/0.000	5.2	26	7.5	15	2.5	61	60	57	55	8.733	1.760	"
3/19/2025	830	Grid Cell #76		4	T-104	S-104	0.12/0.000	0.007/0.000	920	790	110	13	4.7	58	57	52	54	8.743	1.765	"
3/19/2025	1011	Grid Cell #174	Reaction Mid	1	T-105	S-105	0.006/0.000	0.007/0.16	11	8.2	23	12	4.2	71	70	68	65	8.347	1.526	Synthetic Membrane
3/19/2025	1011	Grid Cell #174		2	T-106	S-106	0.006/0.000	0.16/0.34	3	1.3	14	12	8.0	61	63	63	60	8.344	1.543	"
3/19/2025	1011	Grid Cell #174		3	T-107	S-107	0.005/0.008	0.007/0.20	4.9	4.2	7.9	14	5.8	72	73	70	65	8.364	1.519	"
3/19/2025	1011	Grid Cell #174		4	T-108	S-108	3.0/3.1	0.10/0.21	>10,000	>10,000	12	8.2	2.7	66	69	67	67	8.379	1.520	Tear in Membrane
3/19/2025	1122	Grid Cell #169	Reaction High	1	T-109	S-109	0.011/1.1	0.19/0.22	22	25	20	18	2	74	69	72	66	8.372	1.504	Synthetic Membrane
3/19/2025	1122	Grid Cell #169		2	T-110	S-110	0.007/0.013	18/19	30	18	18	19	3.5	76	78	76	72	8.372	1.491	"
3/19/2025	1122	Grid Cell #169		3	T-111	S-111	0.010/0.000	0.010/0.000	8	8	8	8	5	72	74	75	69	8.394	1.476	"
3/19/2025	1122	Grid Cell #169		4	T-112	S-112	0.008/0.022	0.000/0.000	15	14	90	70	7.8	87	81	83	72	8.393	1.482	"
3/19/2025	1250	Grid Cell #153	Reaction Low	1	T-113	S-113	0.007/0.000	0.006/0.026	6.5	4.5	11	7	5.7	81	77	78	72	8.608	1.615	Synthetic Membrane
3/19/2025	1250	Grid Cell #153		2	T-114	S-114	0.005/0.003	0.024/0.004	13	1.6	7	7	6.0	80	75	71	67	8.599	1.610	"
3/19/2025	1250	Grid Cell #153		3	T-115	S-115	0.007/0.012	0.017/0.000	12	12	32	23	8.1	76	75	73	72	8.639	1.633	"
3/19/2025	1250	Grid Cell #153		4	T-116	S-116	0.012/0.000	0.007/0.020	6	4	17	15	8.8	84	78	78	70	8.637	1.627	""
3/19/2025	1250	Grid Cell #153		4	T-117	S-117	0.012/0.000	0.007/0.020	6	4	17	15	8.8	84	78	78	70	8.637	1.627	Replicate Sample
3/19/2025	1300	Media Blank		NA	T-118	S-118	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Media Blank, 10.04% He
3/20/2025	821	Grid #87	Non-Reaction Mid	1	T-201	S-201	1.2/0.000	1.5/0.000	9	9	15	13	3.6	55	54	54	50	8.850	1.230	Soil
3/20/2025	821	Grid #87		2	T-202	S-202	0.000/0.000	0.014/0.001	160	180	46	46	3.9	69	59	63	57	8.819	1.201	"
3/20/2025	821	Grid #87		3	T-203	S-203	11/0.000	0.015/0.004	6700	5600	160	250	5.4	58	57	55	52	8.812	1.199	"
3/20/2025	821	Grid #87		4	T-204	S-204	0.14/0.000	0.13/0.12	413	360	650	450	8.9	57	58	57	53	8.855	1.208	"
3/20/2025	951	Grid #197	Reaction Mid	1	T-205	S-205	0.010/0.000	0.012/0.000	20	21	15	14	1.2	79	76	77	64	8.599	1.188	Soil/Wood Chips
3/20/2025	951	Grid #197		2	T-206	S-206	1.4/4.1	1.1/0.000	2700	2,400	33	30	4.1	76	69	74	56	8.587	1.188	"
3/20/2025	951	Grid #197		3	T-207	S-207	0.35/0.000	0.010/0.004	900	640	24	29	2.1	105	92	77	70	8.615	1.194	"
3/20/2025	951	Grid #197		4	T-208	S-208	0.15/0.000	0.011/0.006	470	353	28	13	2.7	86	81	78	63	8.606	1.191	"
3/20/2025	1112	Grid #108	Non-Reaction Low	1	T-209	S-209	1.1/0.000	0.011/0.001	0	-0.3	5	4	7.0	91	86	68	68	8.984	1.081	Soil
3/20/2025	1112	Grid #108		2	T-210	S-210	0.019/0.000	0.021/0.000	-2.1	-2.3	2.1	0.6	6.2	84	83	63	69	8.951	1.103	"
3/20/2025	1112	Grid #108		3	T-211	S-211	1.3/0.000	0.015/0.000	-2.4	-2.4	1.7	-0.7	7.7	90	88	75	74	8.958	1.097	"
3/20/2025	1112	Grid #108		4	T-212	S-212	0.017/0.000	0.020/0.000	-0.6	-1	3.8	3	7.5	91	83	67	71	8.978	1.088	"
3/20/2025	1236	Grid #108		4	T-213	S-213	0.017/0.000	0.020/0.000	-0.6	-1	3.8	3	7.5	91	83	67	71	8.978	1.088	Replicate Sample
3/20/2025	1257	Media Blank		NA	T-214	S-214	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Media Blank, 9.978% He
3/20/2025	1236	Grid Cell #250	Non-Reaction High	1	T-215	S-215	1.1/0.000	0.008/0.000	1.1	0.7	4.2	2.6	4.3	108	104	101	74	8.537	0.773	Soil
3/20/2025	1235	Grid Cell #250		2	T-216	S-216	0.007/0.000	0.14/0.018	2.3	-1.4	4.5	3.2	8.6	90	90	83	79	8.540	0.762	"
3/20/2025	1236	Grid Cell #250		3	T-217	S-217	0.008/0.000	0.005/0.012	7.3	6.2	3.3	4.5	5.9	93	86	86	80	8.541	0.749	"
3/20/2025	1236	Grid Cell #250		4	T-218	S-218	0.018/0.000	0.009/0.000	9800	9100	50	78	4.1	116	106	89	80	8.546	0.739	"
3/21/2025	753	Grid Cell #76	Exceedance	1	T-301	S-301	0.22/0.000	0.29/0.000	1950	1750	18	66	6.4	50	49	50	51	8.742	1.766	Scheduled Repeat, Soil
3/21/2025	753	Grid Cell #76		2	T-302	S-302	0.0060.000	0.002/0.000	-0.2	-0.2	2.1	3.2	6.7	51	51	51	51	8.748	1.757	"
3/21/2025	753	Grid Cell #76		3	T-303	S-303	0.12/0.000	0.008/0.000	25	30	43	41	5.3	53	49	51	48	8.733	1.760	"
3/21/2025	753	Grid Cell #76		4	T-304	S-304	0.12/0.000	0.002/0.004	1.2	3.0	3.2	4.3	5.7	51	52	50	52	8.739	1.752	"
3/21/2025	908	Grid Cell #237	Non-Reaction Mid	1	T-305	S-305	0.000/0.000	0.010/0.005	1100	NA	3.8	6.4	3.3	83	81	84	67	8.541	0.890	Soil
3/21/2025	908	Grid Cell #237		2	T-306	S-306	0.25/0.000	0.13/0.000	5.5	4.6	5.5	4.6	3.5	82	74	66	62	8.540	0.878	"
3/21/2025	908	Grid Cell #237		3	T-307	S-307	0.16/0.000	0.31/0.004	4.1	3.2	8	3.3	3.2	72	71	66	62	8.540	0.833	"
3/21/2025	908	Grid Cell #237		4	T-308	S-308	0.014/0.000	0.010/0.000	240	220	50	32	4.3	87	76	68	64	8.541	NA	"
3/21/2025	908	Grid Cell #237		4	T-309	S-309	0.014/0.000	0.010/0.000	240	220	50	32	4.3	87	76	68	64	8.541	NA	Replicate Sample
3/21/2025	1048	Media Blank		NA	T-310	S-310	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Media Blank, 9.978% He
3/21/2025	1026	Grid Cell #197	Reaction Mid	1	T-311	S-311	0.11/0.011	0.011/0.000	28	35	60	60	2.2	109	99	85	75	8..601	1.189	Soil/Wod Chips; second test
3/21/2025	1026	Grid Cell #197		2	T-312	S-312	1.3/0.000	0.012/0.000	970	920	15	14	3.6	105	89	86	72	8.587	1.188	
3/21/2025	1026	Grid Cell #197		3	T-313	S-313	0.006/0.012	0.004/0.035	11	7	6	5	1.4	117	107	91	75	8.616	1.197	"
3/21/2025	1026	Grid Cell #197		4	T-314	T-314	0.011/0.002	0.006/0.008	440	340	12	9	1.7	120	102	92	76	8.606	1.192	"

Note- Two Jerome 631X H2S analyzers were used; both instrument readings reported as X/Y per data cell
NA- not applicable

Table 2. Summary of Flux Data for CO2, Methane, and TNMHC Flux.

Test Site	LOC.	TO-15	SRS	Methane		CO2		H2		TO-12 TNMHC		TO-12 TNMHC		He	Total Flow	Total Flow	Methane Flux		TNMHC Flux		COMMENT
		ID	ID a,b	(ppmv)		(%)		(%)		(ppbv)		(ug/m3)		(%)	(lpm)	(m3/min	mg/m2,min		mg/m2,min		
Grid Cell #76	1	T-101	S-101	0.93	J	0.08		ND	U	189.76		128.90		4.37	11.4	0.011	0.056	J	0.011		Soil
Grid Cell #76	2	T-102	S-102	1.15	J	0.08		ND	U	309.24		211.29		4.08	12.3	0.012	0.074	J	0.020		"
Grid Cell #76	3	T-103	S-103	2.69		0.09		ND	U	79.08	J	53.41	J	2.56	19.5	0.020	0.273		0.008	J	"
Grid Cell #76	4	T-104	S-104	202.40		0.10		ND	U	148.39	J	100.80	J	4.40	11.4	0.011	12.017		0.009	J	"
Grid Cell #174	1	T-105	S-105	5.57		0.08		ND	U	203.36		134.75		2.71	18.5	0.018	0.524		0.019		Synthetic Membrane
Grid Cell #174	2	T-106	S-106	3.22		0.07		ND	U	ND	U	18.52	U	1.54	32.5	0.032	0.540		0.005	U	"
Grid Cell #174	3	T-107	S-107	4.45		0.06		ND	U	140.17	J	92.36	J	4.04	12.4	0.012	0.279		0.009		"
Grid Cell #174	4	T-108	S-108	174,161		21.8		ND	U	153,481		101,893		2.02	24.8	0.025	22,015		19.401		Tear in Membrane
Grid Cell #169	1	T-109	S-109	12.11		0.08		ND	U	1,235.48		820.21		1.72	29.1	0.029	1.798		0.183		Synthetic Membrane
Grid Cell #169	2	T-110	S-110	15.15		0.08		ND	U	1,660.92		1,084.20		2.62	19.1	0.019	1.452		0.159		"
Grid Cell #169	3	T-111	S-111	7.02		0.04		ND	U	1,059.49		696.79		4.71	10.6	0.011	0.377		0.057		"
Grid Cell #169	4	T-112	S-112	12.01		0.03	J	ND	U	1,504.12		976.39		7.10	7.04	0.007	0.422		0.053		"
Grid Cell #153	1	T-113	S-113	1.67	J	0.06		ND	U	82.32	J	53.84	J	2.68	18.7	0.019	0.157	J	0.008	J	Synthetic Membrane
Grid Cell #153	2	T-114	S-114	1.12	J	0.04		ND	U	941.07		617.75		5.02	10.0	0.010	0.056	J	0.047		"
Grid Cell #153	3	T-115	S-115	0.50	U	0.02		ND	U	90.96	J	59.71	J	7.40	6.76	0.007	0.011	U	0.003	J	"
Grid Cell #153	4	T-116	S-116	0.50	U	0.01	U	ND	U	67.71	J	44.20	J	8.55	5.85	0.006	0.011	U	0.002	J	"'
Grid Cell #153	4	T-117	S-117	0.50	U	0.01	U	ND	U	ND	U	18.29	U	8.23	6.08	0.006	0.009	U	0.001	U	Replicate Sample
Media Blank	NA	T-118	S-118	0.50	U	0.01	U	ND	U	ND	U	16.81	U	8.91	5.61	0.006	0.008	U	0.001	U	Media Blank, 10.04% He
Grid #87	1	T-201	S-201	5.69		0.12		ND	U	110.56	J	75.54	J	2.66	18.8	0.019	0.562		0.011	J	Soil
Grid #87	2	T-202	S-202	107.81		0.10		ND	U	134.08	J	90.73	J	3.05	16.4	0.016	9.200		0.011	J	"
Grid #87	3	T-203	S-203	4,572		0.43		ND	U	7,986		5,425		5.13	9.75	0.010	233		0.407		"
Grid #87	4	T-204	S-204	273.20		0.10		ND	U	908.50		615.95		8.40	5.95	0.006	8.482		0.028		"
Grid #197	1	T-205	S-205	88.05		0.07		ND	U	238.56		156.31		2.03	24.6	0.025	10.930		0.030		Soil/Wood Chips
Grid #197	2	T-206	S-206	1,770		0.74		ND	U	15,855		10,526		2.76	18.1	0.018	164		1.467		"
Grid #197	3	T-207	S-207	271.60		0.13		ND	U	953.30		606.49		2.07	24.2	0.024	32.108		0.113		"
Grid #197	4	T-208	S-208	322.10		0.18		ND	U	816.41		529.97		1.67	29.9	0.030	48.154		0.122		"
Grid #108	1	T-209	S-209	0.50	U	0.03		ND	U	ND	U	18.82	U	6.79	7.36	0.007	0.012	U	0.001	U	Soil
Grid #108	2	T-210	S-210	2.43		0.05		ND	U	76.50	J	49.48	J	4.16	12.0	0.012	0.145		0.005		"
Grid #108	3	T-211	S-211	0.50	U	0.07		ND	U	140.20	J	89.85	J	7.77	6.44	0.006	0.010	U	0.004		"
Grid #108	4	T-212	S-212	0.50	U	0.05		ND	U	158.88	J	102.76	J	7.55	6.62	0.007	0.011	U	0.005		"
Grid #108	4	T-213	S-213	0.50	U	0.05		ND	U	153.93	J	99.55	J	7.18	6.96	0.007	0.012	U	0.005		Replicate Sample
Media Blank	NA	T-214	S-214	0.50	U	0.01	U	ND	U	ND	U	16.44	U	9.40	5.32	0.005	0.008	U	0.001	U	Media Blank, 9.978% He
Grid Cell #250	1	T-215	S-215	2.70		0.11		ND	U	137.26	J	85.47	J	2.55	19.6	0.020	0.254		0.013		Soil
Grid Cell #250	2	T-216	S-216	0.50	U	0.03	J	ND	U	ND	U	19.87	U	7.53	6.64	0.007	0.011	U	0.001	U	"
Grid Cell #250	3	T-217	S-217	4.41		0.08		ND	U	173.17		111.38		5.97	8.38	0.008	0.183		0.007		"
Grid Cell #250	4	T-218	S-218	9,480		2.11		ND	U	15,261		9,469		4.71	10.6	0.011	480		0.773		"
Grid Cell #76	1	T-301	S-301	1.40	J	0.04		ND	U	99.58	J	68.71	J	5.53	9.04	0.009	0.067	J	0.005		Scheduled Repeat, Soil
Grid Cell #76	2	T-302	S-302	5.00		0.05		ND	U	ND	U	18.37	U	4.13	12.1	0.012	0.320		0.002	U	"
Grid Cell #76	3	T-303	S-303	12.76		0.07		ND	U	71.07	J	49.04	J	3.83	13.1	0.013	0.884		0.005	J	"
Grid Cell #76	4	T-304	S-304	1,304		0.18		ND	U	489		336		4.72	10.6	0.011	72.901		0.027		"
Grid Cell #237	1	T-305	S-305	1,680		0.33		ND	U	5,109		3,316		2.89	17.3	0.017	145		0.441		Soil
Grid Cell #237	2	T-306	S-306	5.73		0.11		ND	U	150.52	J	98.99	J	3.87	12.9	0.013	0.375		0.010	J	"
Grid Cell #237	3	T-307	S-307	3.16		0.09		ND	U	145.97	J	96.54	J	3.80	13.2	0.013	0.212		0.010	J	"
Grid Cell #237	4	T-308	S-308	206.70		0.09		ND	U	312.73		204.90		3.37	14.8	0.015	15.455		0.023		"
Grid Cell #237	4	T-309	S-309	134.30		0.07		ND	U	180.40		118.20		3.18	15.7	0.016	10.645		0.014		Replicate Sample
Media Blank	NA	T-310	S-310	0.50	U	0.03	J	ND	U	ND	U	19.01	U	9.72	5.14	0.005	0.008	U	0.001	U	Media Blank, 9.978% He
Grid Cell #197	1	T-311	S-311	15.20		0.08		ND	U	164.34	J	103.24	J	1.46	34.2	0.034	2.516		0.027		Soil/Wod Chips; second test
Grid Cell #197	2	T-312	S-312	139.90		0.12		ND	U	2,617.29		1,674.23		2.13	23.5	0.023	16.160		0.302		
Grid Cell #197	3	T-313	S-313	26.52		0.08		ND	U	ND	U	17.48	U	1.77	28.2	0.028	3.569		0.004	U	"
Grid Cell #197	4	T-314	T-314	260.80		0.14		ND	U	5,371.10		3,356.27		1.75	28.6	0.029	35.817		0.738		"

Table 3
TO-15 Compounds

Sample Number	Compound	Benzene	Tetrahydrofuran	Acetone	Propylene	Methanol	2-propanol (isopropylalcohol)	Toluene	m,p-Xylenes	Ethylbenzene	2-Butanone (MEK)	n-Heptane	Ethanol	2,2,4-Trimethylpentane	o-Xylene	Nonane	Isopropyltoluene	Acrolein	Tetrachloroethene (PCE)	Cyclohexane	Hexane	Ethyl acetate	Decane	Carbon disulfide	1,2-Dichloroethane	Octane	4-Ethyltoluene
	CAS	71-43-2	109-99-9	67-64-1	115-07-1	67-56-1	67-63-0	108-88-3	1330-20-7	100-41-4	78-93-3	142-82-5	64-17-5	540-84-1	95-47-6	111-84-2	99-87-6	107-02-8	127-18-4	110-82-7	110-54-3	141-78-6	124-18-5	75-15-0	107-06-2	111-65-9	622-96-8
	MW	78.10	72.10	58.10	42.08	32.00	60.10	92.10	106.20	106.20	72.10	100.20	46.10	114.20	106.20	128.30	134.20	56.10	165.80	84.20	86.20	88.10	142.30	76.10	99.00	114.20	120.20
Lab Data (ppbv)																											
T-101		2.22	ND	27.93	0.47	ND	ND	ND	ND	ND	1.32	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-102		ND	ND	2.39	ND	ND	ND	ND	ND	ND	ND	ND	2.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-103		ND	ND	4.67	0.42	ND	ND	ND	ND	ND	ND	ND	4.11	ND	ND	ND	ND	1.04	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-104		ND	0.84	8.98	1.08	ND	ND	ND	2.28	ND	ND	ND	3.16	ND	0.97	0.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-105		3.62	ND	2.72	0.55	ND	ND	1.22	1.13	0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-106		1.9	0.53	2.7	0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-107		2.92	ND	2.05	0.6	ND	ND	ND	0.59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-108		10111.6	4801.5	19.47	92.3	2.9	ND	173.51	145.92	165.94	ND	146.36	ND	72.81	48.65	35.43	ND	ND	16.28	ND	28.72	ND	ND	ND	ND	3.8	1.48
T-109		20.44	5.96	4.25	1.7	ND	1.21	4.02	3.85	2.86	1.73	ND	ND	ND	1.23	2.07	4.09	ND	0.14	ND	ND	ND	1.06	ND	ND	ND	ND
T-110		26.98	6.07	4.93	1.73	ND	ND	6.65	6.36	3.62	1.68	0.61	ND	ND	1.56	2.43	4.69	ND	0.33	ND	ND	ND	1.3	ND	ND	1.86	ND
T-111		4.08	12.48	34.24	1.05	5.43	2.29	1.47	1.52	0.78	33.4	ND	28.23	ND	ND	ND	10.36	2.02	ND	ND	ND	23.01	ND	ND	ND	ND	ND
T-112		5.1	ND	14.85	10.87	3.13	57.64	1.21	ND	ND	1.24	ND	5.13	ND	ND	ND	ND	ND	ND	ND	ND	0.43	ND	ND	ND	ND	ND
T-113		1.49	ND	7.35	0.88	4.49	0.92	ND	ND	ND	1.73	ND	5.47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-114		9.36	3.84	3.26	0.91	ND	ND	2.4	2.61	1.93	ND	ND	ND	ND	0.86	1.56	3.24	1.02	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-115		2.16	1.75	21.77	1.02	2.49	129.21	ND	ND	ND	5.47	ND	2.41	ND	ND	ND	ND	2.51	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-116		2.76	ND	6.1	1.02	ND	ND	ND	ND	ND	0.72	ND	ND	ND	ND	ND	ND	2.63	ND	ND	ND	ND	ND	0.83	ND	ND	ND
T-117		1.71	ND	4.45	0.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.82	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-118		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-201		ND	ND	4.66	0.93	2.27	ND	ND	ND	ND	0.52	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-202		1.49	ND	4.69	2.81	ND	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	2.14	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-203		6.68	2.42	7.02	111	ND	ND	21.79	33	10.89	0.92	1.99	ND	ND	17.02	7.48	14.92	ND	0.22	ND	1.14	ND	3.1	ND	0.32	1.88	2.61
T-204		ND	1.09	7.21	59.59	ND	ND	ND	0.59	ND	2.83	ND	3.22	ND	0.4	ND	ND	ND	ND	ND	ND	ND	ND	0.42	ND	ND	ND
T-205		ND	ND	7.04	2.34	9.67	2.63	ND	ND	ND	0.75	ND	ND	0.39	ND	ND	ND	1.89	0.44	ND	ND	ND	ND	ND	ND	ND	ND
T-206		2.36	2.28	10.99	47.06	11.37	ND	1.39	2.05	ND	ND	ND	25.47	10.58	3.21	ND	1.17	ND	27.64	28.86	4.41	ND	ND	ND	9.68	ND	ND
T-207		3	0.54	11.24	1.69	20.84	ND	1.1	0.94	0.5	1.5	ND	ND	1.03	ND	0.45	1.31	5.78	0.84	1.44	ND	ND	ND	ND	ND	ND	ND
T-208		ND	ND	6.06	1.42	9.99	ND	ND	ND	ND	1.39	ND	ND	ND	ND	ND	ND	2.82	2.66	ND	ND	ND	ND	0.78	ND	ND	ND
T-209		ND	ND	5.78	0.87	19.6	ND	ND	ND	ND	0.68	ND	ND	ND	ND	ND	ND	1.74	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-210		2.02	ND	6.78	0.83	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.22	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-211		2.08	ND	6.99	0.7	12.5	ND	ND	ND	ND	0.68	ND	ND	ND	ND	ND	ND	1.37	0.23	ND	ND	ND	ND	ND	ND	ND	ND
T-212		2.73	0.62	12.88	0.69	16.65	ND	ND	ND	ND	1.94	ND	ND	ND	ND	ND	3.15	2.05	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-213		3.27	0.67	9.28	0.76	15.52	ND	ND	ND	ND	1.15	ND	2.49	ND	ND	ND	ND	2.46	ND	ND	ND	ND	ND	8	ND	ND	ND
T-214		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-215		3.37	ND	13.9	1.38	44	ND	ND	ND	ND	1.63	ND	4.4	ND	ND	ND	ND	3.64	ND	ND	ND	ND	ND	0.51	ND	ND	ND
T-216		4.49	1.55	13.63	1.34	ND	ND	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	2.11	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-217		3.18	ND	24.53	1.39	3.43	ND	ND	ND	ND	2.93	ND	ND	ND	ND	ND	ND	2.01	0.28	ND	ND	ND	ND	ND	ND	ND	ND
T-218		5.31	ND	13.56	ND	16.36	ND	ND	ND	ND	1.78	ND	55.85	10.4	ND	ND	ND	1.68	1.76	9.03	3.81	ND	ND	ND	0.36	ND	ND
T-301		1.95	ND	2.99	0.58	2.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.79	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-302		1.86	ND	5.36	0.56	2.53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-303		1.78	ND	14.07	0.63	2.16	ND	ND	ND	ND	ND	ND	2.52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-304		ND	ND	3.4	11.45	ND	ND	ND	ND	0.47	ND	ND	ND	ND	ND	ND	ND	0.65	0.11	ND	ND	ND	ND	ND	ND	ND	ND
T-305		3.74	3.63	15.17	45.81	7.99	ND	3.26	3.92	1.16	10.38	5.33	3.19	4.42	1.26	0.68	1.28	2.03	0.86	13.13	4.5	ND	ND	0.97	0.74	0.9	ND
T-306		4.03	ND	6.5	1.06	5.31	ND	ND	ND	ND	0.54	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-307		4.2	ND	7.62	1.19	19.47	0.83	ND	ND	ND	2.95	ND	ND	ND	ND	ND	ND	1.07	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-308		3.94	ND	6.58	2.2	5.05	ND	ND	ND	ND	0.96	ND	ND	ND	ND	ND	ND	0.79	ND	ND	0.95	ND	ND	ND	ND	ND	ND
T-309		3.26	ND	6.47	1.42	6.42	ND	ND	ND	ND	0.8	ND	ND	ND	ND	ND	ND	1.25	ND	ND	ND	ND	ND	1.3	ND	ND	ND
T-310		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-311		3.91	ND	9.36	0.96	9.11	ND	ND	ND	ND	0.81	ND	ND	ND	ND	ND	ND	1.77	0.18	ND	ND	ND	ND	ND	ND	ND	ND
T-312		4.26	2.65	123.17	2.02	21.1	4.71	ND	0.7	ND	91.4	ND	5.65	ND	0.53	ND	4.43	2.95	2.34	ND	ND	10.36	ND	ND	0.76	ND	ND
T-313		3.44	ND	11.68	1.08	15.44	ND	ND	ND	ND	1.69	ND	ND	ND	ND	ND	ND	3.89	0.43	ND	ND	ND	ND	ND	ND	ND	ND
T-314		3.35	ND	20.52	1.64	20.1	31.97	1.33	1.82	0.42	2.11	0.86	ND	2.48	1.03	17.44	16.57	3.24	2.5	ND	ND	ND	12.25	ND	ND	ND	2.68

Table 3
TO-15 Compounds

Sample Number / Compound	Benzene	Tetrahydrofuran	Acetone	Propylene	Methanol	2-propanol (isopropylalcohol)	Toluene	m,p-Xylenes	Ethylbenzene	2-Butanone (MEK)	n-Heptane	Ethanol	2,2,4-Trimethylpentane	o-Xylene	Nonane	Isopropyltoluene	Acrolein	Tetrachloroethene (PCE)	Cyclohexane	Hexane	Ethyl acetate	Decane	Carbon disulfide	1,2-Dichloroethane	Octane	4-Ethyltoluene
CAS	71-43-2	109-99-9	67-64-1	115-07-1	67-56-1	67-63-0	108-88-3	1330-20-7	100-41-4	78-93-3	142-82-5	64-17-5	540-84-1	95-47-6	111-84-2	99-87-6	107-02-8	127-18-4	110-82-7	110-54-3	141-78-6	124-18-5	75-15-0	107-06-2	111-65-9	622-96-8
MW	78.10	72.10	58.10	42.08	32.00	60.10	92.10	106.20	106.20	72.10	100.20	46.10	114.20	106.20	128.30	134.20	56.10	165.80	84.20	86.20	88.10	142.30	76.10	99.00	114.20	120.20
MDL (ppbv)																										
T-101	1.4	0.2	2	0.4	2	0.8	0.8	0.4	0.4	0.4	0.4	2	0.2	0.4	0.4	0.8	0.4	0.1	0.2	0.4	0.4	0.8	0.4	0.2	0.4	0.8
T-102	1.45	0.21	2.07	0.41	2.07	0.83	0.83	0.41	0.41	0.41	0.41	2.07	0.21	0.41	0.41	0.83	0.41	0.1	0.21	0.41	0.41	0.83	0.41	0.21	0.41	0.83
T-103	1.4	0.2	2	0.4	2	0.8	0.8	0.4	0.4	0.4	0.4	2	0.2	0.4	0.4	0.8	0.4	0.1	0.2	0.4	0.4	0.8	0.4	0.2	0.4	0.8
T-104	1.53	0.22	2.18	0.44	2.18	0.87	0.87	0.44	0.44	0.44	0.44	2.18	0.22	0.44	0.44	0.87	0.44	0.11	0.22	0.44	0.44	0.87	0.44	0.22	0.44	0.87
T-105	1.44	0.21	2.05	0.41	2.05	0.82	0.82	0.41	0.41	0.41	0.41	2.05	0.21	0.41	0.41	0.82	0.41	0.1	0.21	0.41	0.41	0.82	0.41	0.21	0.41	0.82
T-106	1.44	0.21	2.05	0.41	2.05	0.82	0.82	0.41	0.41	0.41	0.41	2.05	0.21	0.41	0.41	0.82	0.41	0.1	0.21	0.41	0.41	0.82	0.41	0.21	0.41	0.82
T-107	1.44	0.21	2.05	0.41	2.05	0.82	0.82	0.41	0.41	0.41	0.41	2.05	0.21	0.41	0.41	0.82	0.41	0.1	0.21	0.41	0.41	0.82	0.41	0.21	0.41	0.82
T-108	88.2	12.7	2.1	0.42	2.1	0.84	0.84	0.42	0.42	0.42	0.42	2.1	0.21	0.42	0.42	0.84	0.42	0.11	0.21	0.42	0.42	0.84	0.42	0.21	0.42	0.84
T-109	1.52	0.22	2.17	0.43	2.17	0.87	0.87	0.43	0.43	0.43	0.43	2.17	0.22	0.43	0.43	0.87	0.43	0.11	0.22	0.43	0.43	0.87	0.43	0.22	0.43	0.87
T-110	1.48	0.21	2.12	0.42	2.12	0.85	0.85	0.42	0.42	0.42	0.42	2.12	0.21	0.42	0.42	0.85	0.42	0.11	0.21	0.42	0.42	0.85	0.42	0.21	0.42	0.85
T-111	1.46	0.21	2.08	0.42	2.08	0.83	0.83	0.42	0.42	0.42	0.42	2.08	0.21	0.42	0.42	0.83	0.42	0.1	0.21	0.42	0.42	0.83	0.42	0.21	0.42	0.83
T-112	1.45	0.21	2.07	0.41	2.07	0.83	0.83	0.41	0.41	0.41	0.41	2.07	0.21	0.41	0.41	0.83	0.41	0.1	0.21	0.41	0.41	0.83	0.41	0.21	0.41	0.83
T-113	1.44	0.21	2.05	0.41	2.05	0.82	0.82	0.41	0.41	0.41	0.41	2.05	0.21	0.41	0.41	0.82	0.41	0.1	0.21	0.41	0.41	0.82	0.41	0.21	0.41	0.82
T-114	1.48	0.21	2.12	0.42	2.12	0.85	0.85	0.42	0.42	0.42	0.42	2.12	0.21	0.42	0.42	0.85	0.42	0.11	0.21	0.42	0.42	0.85	0.42	0.21	0.42	0.85
T-115	1.48	0.21	2.12	0.42	2.12	0.85	0.85	0.42	0.42	0.42	0.42	2.12	0.21	0.42	0.42	0.85	0.42	0.11	0.21	0.42	0.42	0.85	0.42	0.21	0.42	0.85
T-116	1.73	0.25	2.47	0.49	2.47	0.99	0.99	0.49	0.49	0.49	0.49	2.47	0.25	0.49	0.49	0.99	0.49	0.12	0.25	0.49	0.49	0.99	0.49	0.25	0.49	0.99
T-117	1.46	0.21	2.08	0.42	2.08	0.83	0.83	0.42	0.42	0.42	0.42	2.08	0.21	0.42	0.42	0.83	0.42	0.1	0.21	0.42	0.42	0.83	0.42	0.21	0.42	0.83
T-118	1.33	0.19	1.9	0.38	1.9	0.76	0.76	0.38	0.38	0.38	0.38	1.9	0.19	0.38	0.38	0.76	0.38	0.1	0.19	0.38	0.38	0.76	0.38	0.19	0.38	0.76
T-201	1.41	0.2	2.02	0.4	2.02	0.81	0.81	0.4	0.4	0.4	0.4	2.02	0.2	0.4	0.4	0.81	0.4	0.1	0.2	0.4	0.4	0.81	0.4	0.2	0.4	0.81
T-202	1.38	0.2	1.97	0.39	1.97	0.79	0.79	0.39	0.39	0.39	0.39	1.97	0.2	0.39	0.39	0.79	0.39	0.1	0.2	0.39	0.39	0.79	0.39	0.2	0.39	0.79
T-203	1.4	0.2	2	0.4	2	0.8	0.8	0.4	0.4	0.4	0.4	2	0.2	0.4	0.4	0.8	0.4	0.1	0.2	0.4	0.4	0.8	0.4	0.2	0.4	0.8
T-204	1.38	0.2	1.97	0.39	1.97	0.79	0.79	0.39	0.39	0.39	0.39	1.97	0.2	0.39	0.39	0.79	0.39	0.1	0.2	0.39	0.39	0.79	0.39	0.2	0.39	0.79
T-205	1.48	0.21	2.12	0.42	2.12	0.85	0.85	0.42	0.42	0.42	0.42	2.12	0.21	0.42	0.42	0.85	0.42	0.11	0.21	0.42	0.42	0.85	0.42	0.21	0.42	0.85
T-206	1.45	0.21	2.07	0.41	2.07	0.83	0.83	0.41	0.41	0.41	0.41	2.07	0.21	0.41	0.41	0.83	0.41	0.1	0.21	0.41	0.41	0.83	0.41	0.21	0.41	0.83
T-207	1.53	0.22	2.18	0.44	2.18	0.87	0.87	0.44	0.44	0.44	0.44	2.18	0.22	0.44	0.44	0.87	0.44	0.11	0.22	0.44	0.44	0.87	0.44	0.22	0.44	0.87
T-208	1.47	0.21	2.1	0.42	2.1	0.84	0.84	0.42	0.42	0.42	0.42	2.1	0.21	0.42	0.42	0.84	0.42	0.11	0.21	0.42	0.42	0.84	0.42	0.21	0.42	0.84
T-209	1.52	0.22	2.17	0.43	2.17	0.87	0.87	0.43	0.43	0.43	0.43	2.17	0.22	0.43	0.43	0.87	0.43	0.11	0.22	0.43	0.43	0.87	0.43	0.22	0.43	0.87
T-210	1.48	0.21	2.12	0.42	2.12	0.85	0.85	0.42	0.42	0.42	0.42	2.12	0.21	0.42	0.42	0.85	0.42	0.11	0.21	0.42	0.42	0.85	0.42	0.21	0.42	0.85
T-211	1.51	0.22	2.15	0.43	2.15	0.86	0.86	0.43	0.43	0.43	0.43	2.15	0.22	0.43	0.43	0.86	0.43	0.11	0.22	0.43	0.43	0.86	0.43	0.22	0.43	0.86
T-212	1.58	0.23	2.25	0.45	2.25	0.9	0.9	0.45	0.45	0.45	0.45	2.25	0.23	0.45	0.45	0.9	0.45	0.11	0.23	0.45	0.45	0.9	0.45	0.23	0.45	0.9
T-213	1.55	0.22	2.22	0.44	2.22	0.89	0.89	0.44	0.44	0.44	0.44	2.22	0.22	0.44	0.44	0.89	0.44	0.11	0.22	0.44	0.44	0.89	0.44	0.22	0.44	0.89
T-214	1.3	0.19	1.85	0.37	1.85	0.74	0.74	0.37	0.37	0.37	0.37	1.85	0.19	0.37	0.37	0.74	0.37	0.09	0.19	0.37	0.37	0.74	0.37	0.19	0.37	0.74
T-215	1.51	0.22	2.15	0.43	2.15	0.86	0.86	0.43	0.43	0.43	0.43	2.15	0.22	0.43	0.43	0.86	0.43	0.11	0.22	0.43	0.43	0.86	0.43	0.22	0.43	0.86
T-216	1.61	0.23	2.3	0.46	2.3	0.92	0.92	0.46	0.46	0.46	0.46	2.3	0.23	0.46	0.46	0.92	0.46	0.12	0.23	0.46	0.46	0.92	0.46	0.23	0.46	0.92
T-217	1.48	0.21	2.12	0.42	2.12	0.85	0.85	0.42	0.42	0.42	0.42	2.12	0.21	0.42	0.42	0.85	0.42	0.11	0.21	0.42	0.42	0.85	0.42	0.21	0.42	0.85
T-218	1.48	0.21	2.12	0.42	2.12	0.85	0.85	0.42	0.42	0.42	0.42	2.12	0.21	0.42	0.42	0.85	0.42	0.11	0.21	0.42	0.42	0.85	0.42	0.21	0.42	0.85
T-301	1.39	0.2	1.98	0.4	1.98	0.79	0.79	0.4	0.4	0.4	0.4	1.98	0.2	0.4	0.4	0.79	0.4	0.1	0.2	0.4	0.4	0.79	0.4	0.2	0.4	0.79
T-302	1.39	0.2	1.98	0.4	1.98	0.79	0.79	0.4	0.4	0.4	0.4	1.98	0.2	0.4	0.4	0.79	0.4	0.1	0.2	0.4	0.4	0.79	0.4	0.2	0.4	0.79
T-303	1.41	0.2	2.02	0.4	2.02	0.81	0.81	0.4	0.4	0.4	0.4	2.02	0.2	0.4	0.4	0.81	0.4	0.1	0.2	0.4	0.4	0.81	0.4	0.2	0.4	0.81
T-304	1.41	0.2	2.02	0.4	2.02	0.81	0.81	0.4	0.4	0.4	0.4	2.02	0.2	0.4	0.4	0.81	0.4	0.1	0.2	0.4	0.4	0.81	0.4	0.2	0.4	0.81
T-305	1.46	0.21	2.08	0.42	2.08	0.83	0.83	0.42	0.42	0.42	0.42	2.08	0.21	0.42	0.42	0.83	0.42	0.1	0.21	0.42	0.42	0.83	0.42	0.21	0.42	0.83
T-306	1.41	0.2	2.02	0.4	2.02	0.81	0.81	0.4	0.4	0.4	0.4	2.02	0.2	0.4	0.4	0.81	0.4	0.1	0.2	0.4	0.4	0.81	0.4	0.2	0.4	0.81
T-307	1.42	0.2	2.03	0.41	2.03	0.81	0.81	0.41	0.41	0.41	0.41	2.03	0.2	0.41	0.41	0.81	0.41	0.1	0.2	0.41	0.41	0.81	0.41	0.2	0.41	0.81
T-308	1.42	0.2	2.03	0.41	2.03	0.81	0.81	0.41	0.41	0.41	0.41	2.03	0.2	0.41	0.41	0.81	0.41	0.1	0.2	0.41	0.41	0.81	0.41	0.2	0.41	0.81
T-309	1.41	0.2	2.02	0.4	2.02	0.81	0.81	0.4	0.4	0.4	0.4	2.02	0.2	0.4	0.4	0.81	0.4	0.1	0.2	0.4	0.4	0.81	0.4	0.2	0.4	0.81
T-310	1.51	0.22	2.15	0.43	2.15	0.86	0.86	0.43	0.43	0.43	0.43	2.15	0.22	0.43	0.43	0.86	0.43	0.11	0.22	0.43	0.43	0.86	0.43	0.22	0.43	0.86
T-311	1.49	0.21	2.13	0.43	2.13	0.85	0.85	0.43	0.43	0.43	0.43	2.13	0.21	0.43	0.43	0.85	0.43	0.11	0.21	0.43	0.43	0.85	0.43	0.21	0.43	0.85
T-312	1.55	0.22	2.22	0.44	2.22	0.89	0.89	0.44	0.44	0.44	0.44	2.22	0.22	0.44	0.44	0.89	0.44	0.11	0.22	0.44	0.44	0.89	0.44	0.22	0.44	0.89
T-313	1.46	0.21	2.08	0.42	2.08	0.83	0.83	0.42	0.42	0.42	0.42	2.08	0.21	0.42	0.42	0.83	0.42	0.1	0.21	0.42	0.42	0.83	0.42	0.21	0.42	0.83
T-314	1.46	0.21	2.08	0.42	2.08	0.83	0.83	0.42	0.42	0.42	0.42	2.08	0.21	0.42	0.42	0.83	0.42	0.1	0.21	0.42	0.42	0.83	0.42	0.21	0.42	0.83

Table 3
TO-15 Compounds

Sample Number	Complound	Benzene	Tetrahydrofuran	Acetone	Propylene	Methanol	2-propanol (isopropylalcohol)	Toluene	m,p-Xylenes	Ethylbenzene	2-Butanone (MEK)	n-Heptane	Ethanol	2,2,4-Trimethylpentane	o-Xylene	Nonane	Isopropyltoluene	Acrolein	Tetrachloroethene (PCE)	Cyclohexane	Hexane	Ethyl acetate	Decane	Carbon disulfide	1,2-Dichloroethane	Octane	4-Ethyltoluene
	CAS	71-43-2	109-99-9	67-64-1	115-07-1	67-56-1	67-63-0	108-88-3	1330-20-7	100-41-4	78-93-3	142-82-5	64-17-5	540-84-1	95-47-6	111-84-2	99-87-6	107-02-8	127-18-4	110-82-7	110-54-3	141-78-6	124-18-5	75-15-0	107-06-2	111-65-9	622-96-8
	MW	78.10	72.10	58.10	42.08	32.00	60.10	92.10	106.20	106.20	72.10	100.20	46.10	114.20	106.20	128.30	134.20	56.10	165.80	84.20	86.20	88.10	142.30	76.10	99.00	114.20	120.20
Data Used (ug/l)																											
T-101		7.36	0.31	68.90	0.84	1.36	1.02	1.56	0.90	0.90	4.04	0.85	1.96	0.48	0.90	1.09	2.28	3.10	0.35	0.36	0.73	0.75	2.42	0.65	0.42	0.97	2.04
T-102		2.42	0.32	5.93	0.37	1.41	1.07	1.63	0.93	0.93	0.63	0.88	4.35	0.51	0.93	1.12	2.38	0.49	0.35	0.38	0.75	0.77	2.52	0.67	0.44	1.00	2.13
T-103		2.31	0.30	11.45	0.75	1.35	1.01	1.56	0.90	0.90	0.61	0.85	8.00	0.48	0.90	1.08	2.27	2.46	0.35	0.36	0.73	0.74	2.40	0.64	0.42	0.96	2.03
T-104		2.54	2.57	22.15	1.93	1.48	1.11	1.70	10.28	0.99	0.67	0.94	6.18	0.53	4.37	3.10	2.48	0.52	0.39	0.39	0.81	0.82	2.63	0.71	0.46	1.07	2.22
T-105		11.71	0.31	6.54	0.96	1.36	1.02	4.65	4.97	2.77	0.61	0.85	1.96	0.50	0.90	1.09	2.28	0.48	0.34	0.37	0.73	0.75	2.42	0.65	0.43	0.97	2.04
T-106		6.23	1.60	6.58	1.13	1.38	1.03	1.58	0.91	0.91	0.62	0.86	1.98	0.50	0.91	1.10	2.31	0.48	0.35	0.37	0.74	0.76	2.45	0.65	0.44	0.98	2.07
T-107		9.39	0.31	4.90	1.04	1.35	1.01	1.56	2.58	0.90	0.61	0.85	1.95	0.49	0.90	1.08	2.27	0.47	0.34	0.36	0.73	0.74	2.40	0.64	0.43	0.96	2.03
T-108		32,767	14,364	46.94	161.16	3.85	1.05	663.06	643.00	731.22	0.63	608.50	2.01	345.01	214.38	188.61	2.34	0.49	112.00	0.37	102.7	0.77	2.48	0.66	0.43	18.01	7.38
T-109		66.24	17.83	10.25	2.97	1.44	3.02	15.36	16.97	12.60	5.18	0.89	2.08	0.52	5.42	11.02	22.77	0.50	0.96	0.38	0.77	0.79	6.26	0.68	0.45	1.02	2.17
T-110		85.97	17.86	11.69	2.97	1.38	1.04	24.99	27.56	15.68	4.94	2.49	1.99	0.49	6.76	12.72	25.68	0.48	2.23	0.36	0.74	0.75	7.55	0.65	0.42	8.67	2.08
T-111		13.10	36.99	81.77	1.82	7.14	5.66	5.56	6.64	3.40	98.98	0.86	53.49	0.49	0.92	1.11	57.15	4.66	0.34	0.36	0.74	83.32	2.43	0.66	0.43	0.99	2.05
T-112		16.16	0.31	35.00	18.56	4.06	140.55	4.52	0.88	0.88	3.63	0.83	9.59	0.49	0.88	1.07	2.26	0.47	0.34	0.36	0.72	1.54	2.40	0.63	0.42	0.95	2.02
T-113		4.76	0.31	17.45	1.51	5.87	2.26	1.54	0.89	0.89	5.10	0.84	10.31	0.49	0.89	1.08	2.25	0.47	0.34	0.36	0.72	0.74	2.38	0.64	0.42	0.96	2.01
T-114		29.99	11.36	7.77	1.57	1.39	1.05	9.07	11.37	8.41	0.62	0.86	2.00	0.49	3.75	8.21	17.84	2.35	0.37	0.36	0.74	0.76	2.48	0.66	0.43	0.98	2.10
T-115		6.92	5.18	51.89	1.76	3.27	318.60	1.61	0.91	0.91	16.18	0.86	4.56	0.49	0.91	1.11	2.34	5.78	0.37	0.36	0.74	0.76	2.48	0.66	0.43	0.98	2.10
T-116		8.79	0.37	14.46	1.75	1.61	1.21	1.86	1.06	1.06	2.12	1.00	2.32	0.58	1.06	1.28	2.71	6.02	0.41	0.43	0.86	0.88	2.87	2.58	0.50	1.14	2.43
T-117		5.45	0.31	10.55	1.15	1.36	1.02	1.56	0.91	0.91	0.62	0.86	1.96	0.49	0.91	1.10	2.27	4.17	0.34	0.36	0.74	0.75	2.41	0.65	0.42	0.98	2.04
T-118		2.13	0.28	2.26	0.33	1.25	0.94	1.44	0.83	0.83	0.56	0.78	1.80	0.45	0.83	1.00	2.09	0.44	0.34	0.33	0.67	0.69	2.22	0.59	0.39	0.89	1.87
T-201		2.35	0.31	11.56	1.67	3.10	1.04	1.59	0.91	0.91	1.60	0.86	1.99	0.49	0.91	1.10	2.32	2.40	0.35	0.36	0.74	0.75	2.46	0.65	0.42	0.98	2.08
T-202		4.92	0.30	11.52	5.00	1.33	1.00	1.54	0.88	0.88	1.83	0.83	1.92	0.48	0.88	1.06	2.24	5.08	0.35	0.36	0.71	0.73	2.38	0.63	0.42	0.94	2.01
T-203		22.15	7.41	17.32	198.31	1.36	1.02	85.20	148.79	49.10	2.82	8.47	1.96	0.48	76.74	40.74	85.01	0.48	1.55	0.36	4.17	0.75	18.73	0.65	1.35	9.12	13.32
T-204		2.28	3.33	17.75	106.26	1.34	1.01	1.54	2.66	0.88	8.65	0.83	6.29	0.48	1.80	1.06	2.25	0.46	0.35	0.36	0.71	0.73	2.38	1.35	0.42	0.94	2.01
T-205		2.37	0.31	16.75	4.03	12.67	6.47	1.60	0.91	0.91	2.21	0.86	2.00	1.82	0.91	1.10	2.34	4.34	2.99	0.36	0.74	0.76	2.48	0.65	0.43	0.98	2.09
T-206		7.65	6.82	26.49	82.17	15.10	1.03	5.31	9.03	0.90	0.61	0.85	48.72	50.13	14.14	1.09	6.51	0.48	190.15	100.8	15.77	0.75	2.45	0.65	39.76	0.97	2.07
T-207		9.32	1.55	25.97	2.83	26.52	1.04	4.03	3.97	2.11	4.30	0.88	2.00	4.68	0.93	2.30	6.99	12.89	5.54	4.82	0.75	0.77	2.46	0.67	0.43	1.00	2.08
T-208		2.33	0.31	14.28	2.42	12.97	1.02	1.57	0.90	0.90	4.07	0.85	1.96	0.49	0.90	1.09	2.29	6.42	17.89	0.36	0.73	0.75	2.42	2.41	0.42	0.97	2.05
T-209		2.39	0.32	13.50	1.47	25.21	1.05	1.61	0.92	0.92	1.97	0.87	2.01	0.50	0.92	1.11	2.35	3.92	0.37	0.37	0.75	0.76	2.49	0.66	0.44	0.99	2.10
T-210		6.38	0.31	15.92	1.41	1.37	1.03	1.58	0.90	0.90	0.61	0.85	1.98	0.48	0.90	1.09	2.31	2.77	0.37	0.36	0.73	0.75	2.44	0.65	0.42	0.97	2.06
T-211		6.51	0.32	16.27	1.18	16.02	1.04	1.59	0.91	0.91	1.96	0.86	1.98	0.50	0.91	1.10	2.31	3.08	1.53	0.37	0.74	0.76	2.45	0.66	0.44	0.98	2.07
T-212		8.62	1.81	30.25	1.17	21.54	1.09	1.68	0.97	0.97	5.65	0.91	2.10	0.53	0.97	1.17	17.09	4.65	0.37	0.39	0.78	0.80	2.59	0.69	0.46	1.04	2.19
T-213		10.32	1.95	21.79	1.29	20.08	1.08	1.66	0.94	0.94	3.35	0.89	4.64	0.51	0.94	1.14	2.41	5.58	0.37	0.37	0.77	0.78	2.56	24.61	0.44	1.02	2.16
T-214		2.08	0.28	2.20	0.32	1.21	0.91	1.40	0.81	0.81	0.55	0.76	1.75	0.45	0.81	0.97	2.04	0.43	0.31	0.33	0.65	0.67	2.16	0.58	0.39	0.87	1.82
T-215		10.24	0.31	31.43	2.26	54.79	1.01	1.54	0.89	0.89	4.57	0.84	7.89	0.49	0.89	1.07	2.25	7.95	0.35	0.36	0.72	0.74	2.38	1.51	0.42	0.96	2.01
T-216		13.99	4.46	31.60	2.25	1.47	1.10	1.69	0.97	0.97	6.62	0.92	2.12	0.52	0.97	1.18	2.46	4.72	0.40	0.39	0.79	0.81	2.61	0.70	0.45	1.05	2.21
T-217		9.98	0.30	57.29	2.35	4.41	1.03	1.57	0.90	0.90	8.49	0.85	1.96	0.48	0.90	1.08	2.29	4.53	1.87	0.36	0.73	0.74	2.43	0.64	0.42	0.96	2.05
T-218		16.08	0.29	30.55	0.34	20.30	0.99	1.52	0.86	0.86	4.98	0.82	99.84	46.06	0.86	1.04	2.21	3.65	11.32	29.48	12.74	0.72	2.35	0.62	1.38	0.93	1.98
T-301		6.57	0.31	7.49	1.05	3.55	1.02	1.57	0.92	0.92	0.62	0.86	1.97	0.49	0.92	1.11	2.29	1.91	0.36	0.36	0.74	0.76	2.42	0.66	0.43	0.98	2.05
T-302		6.24	0.31	13.38	1.01	3.48	1.02	1.56	0.91	0.91	0.62	0.86	1.96	0.49	0.91	1.10	2.28	1.54	0.36	0.36	0.74	0.76	2.41	0.65	0.43	0.98	2.04
T-303		6.00	0.31	35.25	1.14	2.98	1.05	1.61	0.92	0.92	0.62	0.86	5.01	0.49	0.92	1.11	2.34	0.48	0.36	0.36	0.74	0.76	2.49	0.66	0.43	0.98	2.10
T-304		2.36	0.31	8.47	20.66	1.39	1.04	1.60	0.91	2.14	0.62	0.86	2.00	0.49	0.91	1.10	2.33	1.56	0.78	0.36	0.74	0.76	2.47	0.65	0.42	0.98	2.09
T-305		11.85	10.62	35.76	78.21	10.37	1.01	12.18	16.89	5.00	30.36	21.67	5.97	20.48	5.43	3.54	6.97	4.62	5.79	44.85	15.74	0.75	2.40	2.99	2.97	4.17	2.02
T-306		12.94	0.30	15.52	1.83	6.98	1.00	1.53	0.87	0.87	1.60	0.82	1.91	0.47	0.87	1.05	2.23	2.54	0.34	0.35	0.71	0.72	2.37	0.63	0.41	0.94	2.00
T-307		13.56	0.30	18.30	2.07	25.75	2.06	1.54	0.90	0.90	8.79	0.85	1.93	0.47	0.90	1.09	2.25	2.48	0.34	0.35	0.73	0.75	2.38	0.64	0.41	0.97	2.01
T-308		12.60	0.30	15.66	3.79	6.62	1.00	1.53	0.89	0.89	2.83	0.84	1.92	0.47	0.89	1.08	2.23	1.81	0.34	0.34	3.35	0.74	2.36	0.64	0.41	0.96	1.99
T-309		10.43	0.30	15.39	2.45	8.41	1.00	1.53	0.87	0.87	2.36	0.82	1.91	0.47	0.87	1.05	2.23	2.87	0.34	0.34	0.71	0.72	2.36	4.05	0.41	0.94	1.99
T-310		2.42	0.33	2.56	0.37	1.41	1.06	1.62	0.94	0.94	0.64	0.88	2.03	0.52	0.94	1.13	2.37	0.49	0.37	0.38	0.76	0.78	2.51	0.67	0.45	1.01	2.12
T-311		11.99	0.30	21.35	1.59	11.45	1.00	1.54	0.90	0.90	2.29	0.85	1.93	0.47	0.90	1.08	2.24	3.90	1.17	0.35	0.73	0.74	2.37	0.64	0.41	0.96	2.01
T-312		13.30	7.64	286.10	3.40	26.99	11.32	1.64	2.97	0.93	263.47	0.88	10.41	0.50	2.25	1.13	23.77	6.62	15.51	0.37	0.76	36.49	2.53	0.67	3.01	1.00	2.14
T-313		10.40	0.29	26.27	1.76	19.13	0.97	1.48	0.86	0.86	4.72	0.81	1.86	0.46	0.86	1.04	2.16	8.45	2.76	0.34	0.70	0.72	2.29	0.62	0.40	0.93	1.93
T-314		10.22	0.30	46.56	2.70	25.12	75.04	4.78	7.55	1.74	5.94	3.37	1.87	11.06	4.27	87.39	86.85	7.10	16.19	0.35	0.71	0.72	68.08	0.62	0.41	0.94	12.58

Table 3
TO-15 Compounds

Sample Number	Complound	Benzene	Tetrahydrofuran	Acetone	Propylene	Methanol	2-propanol (isopropylalcohol)	Toluene	m,p-Xylenes	Ethylbenzene	2-Butanone (MEK)	n-Heptane	Ethanol	2,2,4-Trimethylpentane	o-Xylene	Nonane	Isopropyltoluene	Acrolein	Tetrachloroethene (PCE)	Cyclohexane	Hexane	Ethyl acetate	Decane	Carbon disulfide	1,2-Dichloroethane	Octane	4-Ethyltoluene
	CAS	71-43-2	109-99-9	67-64-1	115-07-1	67-56-1	67-63-0	108-88-3	1330-20-7	100-41-4	78-93-3	142-82-5	64-17-5	540-84-1	95-47-6	111-84-2	99-87-6	107-02-8	127-18-4	110-82-7	110-54-3	141-78-6	124-18-5	75-15-0	107-06-2	111-65-9	622-96-8
	MW	78.10	72.10	58.10	42.08	32.00	60.10	92.10	106.20	106.20	72.10	100.20	46.10	114.20	106.20	128.30	134.20	56.10	165.80	84.20	86.20	88.10	142.30	76.10	99.00	114.20	120.20
Flux (mg/m2-min)																											
T-101		0.00065	<2.69E-05	0.00606	0.00007	<1.20E-04	<8.98E-05	<1.38E-04	<7.94E-05	<7.94E-05	0.00036	<7.49E-05	<1.72E-04	<4.27E-05	<7.94E-05	<9.59E-05	<2.01E-04	0.00027	<3.10E-05	<3.15E-05	<6.44E-05	<6.58E-05	<2.13E-04	<5.69E-05	<3.70E-05	<8.53E-05	<1.80E-04
T-102		<2.28E-04	<3.05E-05	0.00056	<3.47E-05	<1.33E-04	<1.00E-04	<1.54E-04	<8.76E-05	<8.76E-05	<5.95E-05	<8.27E-05	0.00041	<4.83E-05	<8.76E-05	<1.06E-04	<2.24E-04	<4.63E-05	<3.34E-05	<3.56E-05	<7.11E-05	<7.27E-05	<2.38E-04	<6.28E-05	<4.18E-05	<9.42E-05	<2.01E-04
T-103		<3.47E-04	<4.57E-05	0.00172	0.00011	<2.03E-04	<1.52E-04	<2.34E-04	<1.35E-04	<1.35E-04	<9.14E-05	<1.27E-04	0.00120	<7.24E-05	<1.35E-04	<1.63E-04	<3.40E-04	0.00037	<5.26E-05	<5.34E-05	<1.09E-04	<1.12E-04	<3.61E-04	<9.65E-05	<6.28E-05	<1.45E-04	<3.05E-04
T-104		<2.22E-04	0.00022	0.00194	0.00017	<1.29E-04	<9.70E-05	<1.49E-04	0.00090	<8.67E-05	<5.89E-05	<8.18E-05	0.00054	<4.66E-05	0.00038	0.00027	<2.17E-04	<4.58E-05	<3.38E-05	<3.44E-05	<7.04E-05	<7.19E-05	<2.30E-04	<6.21E-05	<4.04E-05	<9.32E-05	<1.94E-04
T-105		0.00166	<4.45E-05	0.00093	0.00014	<1.93E-04	<1.45E-04	0.00066	0.00071	0.00039	<8.69E-05	<1.21E-04	<2.78E-04	<7.05E-05	<1.28E-04	<1.55E-04	<3.23E-04	<6.76E-05	<4.87E-05	<5.20E-05	<1.04E-04	<1.06E-04	<3.43E-04	<9.17E-05	<6.11E-05	<1.38E-04	<2.90E-04
T-106		0.00156	0.00040	0.00164	0.00028	<3.44E-04	<2.58E-04	<3.96E-04	<2.28E-04	<2.28E-04	<1.55E-04	<2.15E-04	<4.95E-04	<1.26E-04	<2.28E-04	<2.76E-04	<5.77E-04	<1.21E-04	<8.69E-05	<9.27E-05	<1.85E-04	<1.89E-04	<6.12E-04	<1.64E-04	<1.09E-04	<2.45E-04	<5.17E-04
T-107		0.00089	<2.97E-05	0.00047	0.00010	<1.29E-04	<9.66E-05	<1.48E-04	0.00025	<8.54E-05	<5.79E-05	<8.05E-05	<1.85E-04	<4.70E-05	<8.54E-05	<1.03E-04	<2.16E-04	<4.51E-05	<3.25E-05	<3.47E-05	<6.93E-05	<7.08E-05	<2.29E-04	<6.12E-05	<4.08E-05	<9.18E-05	<1.93E-04
T-108		6.23902	2.73500	0.00894	0.03068	0.00073	<1.99E-04	0.12625	0.12243	0.13923	<1.20E-04	0.11586	<3.82E-04	0.06569	0.04082	0.03591	<4.45E-04	<9.31E-05	0.02132	<6.98E-05	0.01956	<1.46E-04	<4.72E-04	<1.26E-04	<8.21E-05	0.00343	0.00141
T-109		0.01481	0.00399	0.00229	0.00066	<3.22E-04	0.00067	0.00344	0.00379	0.00282	0.00116	<2.00E-04	<4.64E-04	<1.17E-04	0.00121	0.00246	0.00509	<1.12E-04	0.00022	<8.59E-05	<1.72E-04	<1.76E-04	0.00140	<1.52E-04	<1.01E-04	<2.28E-04	<4.85E-04
T-110		0.01262	0.00262	0.00172	0.00044	<2.03E-04	<1.53E-04	0.00367	0.00405	0.00230	0.00073	0.00037	<2.93E-04	<7.18E-05	0.00099	0.00187	0.00377	<7.06E-05	0.00033	<5.29E-05	<1.08E-04	<1.11E-04	0.00111	<9.57E-05	<6.23E-05	0.00127	<3.06E-04
T-111		0.00107	0.00302	0.00668	0.00015	0.00058	0.00046	0.00045	0.00054	0.00028	0.00808	<7.06E-05	0.00437	<4.02E-05	<7.49E-05	<9.04E-05	0.00467	0.00038	<2.78E-05	<2.97E-05	<6.08E-05	0.00680	<1.98E-04	<5.36E-05	<3.49E-05	<8.05E-05	<1.67E-04
T-112		0.00088	<1.66E-05	0.00190	0.00101	0.00022	0.00761	0.00024	<4.78E-05	<4.78E-05	0.00020	<4.51E-05	0.00052	<2.64E-05	<4.78E-05	<5.78E-05	<1.22E-04	<2.53E-05	<1.82E-05	<1.94E-05	<3.88E-05	0.00008	<1.30E-04	<3.43E-05	<2.28E-05	<5.15E-05	<1.10E-04
T-113		0.00068	<4.44E-05	0.00250	0.00022	0.00084	0.00032	<2.22E-04	<1.28E-04	<1.28E-04	0.00073	<1.20E-04	0.00148	<7.03E-05	<1.28E-04	<1.54E-04	<3.23E-04	<6.75E-05	<4.86E-05	<5.19E-05	<1.04E-04	<1.06E-04	<3.42E-04	<9.15E-05	<6.10E-05	<1.37E-04	<2.89E-04
T-114		0.00230	0.00087	0.00060	0.00012	<1.07E-04	<8.03E-05	0.00069	0.00087	0.00064	<4.76E-05	<6.61E-05	<1.54E-04	<3.77E-05	0.00029	0.00063	0.00137	0.00018	<2.87E-05	<2.78E-05	<5.69E-05	<5.82E-05	<1.90E-04	<5.02E-05	<3.27E-05	<7.54E-05	<1.61E-04
T-115		0.00036	0.00027	0.00270	0.00009	0.00017	0.01656	<8.35E-05	<4.76E-05	<4.76E-05	0.00084	<4.49E-05	0.00024	<2.56E-05	<4.76E-05	<5.75E-05	<1.22E-04	0.00030	<1.94E-05	<1.89E-05	<3.86E-05	<3.95E-05	<1.29E-04	<3.41E-05	<2.22E-05	<5.11E-05	<1.09E-04
T-116		0.00040	<1.65E-05	0.00065	0.00008	<7.25E-05	<5.46E-05	<8.37E-05	<4.78E-05	<4.78E-05	0.00010	<4.51E-05	<1.04E-04	<2.62E-05	<4.78E-05	<5.77E-05	<1.22E-04	0.00027	<1.83E-05	<1.93E-05	<3.88E-05	<3.96E-05	<1.29E-04	0.00012	<2.27E-05	<5.13E-05	<1.09E-04
T-117		0.00025	<1.44E-05	0.00049	0.00005	<6.35E-05	<4.76E-05	<7.29E-05	<4.25E-05	<4.25E-05	<2.89E-05	<4.01E-05	<9.14E-05	<2.29E-05	<4.25E-05	<5.14E-05	<1.06E-04	0.00019	<1.58E-05	<1.69E-05	<3.45E-05	<3.53E-05	<1.13E-04	<3.05E-05	<1.98E-05	<4.57E-05	<9.51E-05
T-118		<9.20E-05	<1.21E-05	<9.78E-05	<1.42E-05	<5.38E-05	<4.04E-05	<6.20E-05	<3.57E-05	<3.57E-05	<2.43E-05	<3.37E-05	<7.76E-05	<1.92E-05	<3.57E-05	<4.32E-05	<9.03E-05	<1.89E-05	<1.47E-05	<1.42E-05	<2.90E-05	<2.96E-05	<9.58E-05	<2.56E-05	<1.67E-05	<3.84E-05	<8.09E-05
T-201		<3.40E-04	<4.45E-05	0.00167	0.00024	0.00045	<1.50E-04	<2.30E-04	<1.31E-04	<1.31E-04	0.00023	<1.24E-04	<2.88E-04	<7.05E-05	<1.31E-04	<1.58E-04	<3.36E-04	0.00035	<5.12E-05	<5.20E-05	<1.06E-04	<1.09E-04	<3.56E-04	<9.40E-05	<6.11E-05	<1.41E-04	<3.01E-04
T-202		0.00062	<3.85E-05	0.00145	0.00063	<1.68E-04	<1.27E-04	<1.94E-04	<1.10E-04	<1.10E-04	0.00023	<1.04E-04	<2.42E-04	<6.09E-05	<1.10E-04	<1.33E-04	<2.83E-04	0.00064	<4.42E-05	<4.49E-05	<8.96E-05	<9.16E-05	<3.00E-04	<7.91E-05	<5.28E-05	<1.19E-04	<2.53E-04
T-203		0.00166	0.00056	0.00130	0.01487	<1.02E-04	<7.65E-05	0.00639	0.01116	0.00368	0.00021	0.00063	<1.47E-04	<3.64E-05	0.00575	0.00305	0.00637	<3.57E-05	0.00012	<2.68E-05	0.00031	<5.61E-05	0.00140	<4.84E-05	0.00010	0.00068	0.00100
T-204		<1.05E-04	0.00015	0.00081	0.00487	<6.12E-05	<4.61E-05	<7.06E-05	0.00012	<4.02E-05	0.00040	<3.79E-05	0.00029	<2.22E-05	0.00008	<4.85E-05	<1.03E-04	<2.12E-05	<1.61E-05	<1.63E-05	<3.26E-05	<3.33E-05	<1.09E-04	0.00006	<1.92E-05	<4.32E-05	<9.21E-05
T-205		<4.48E-04	<5.87E-05	0.00317	0.00076	0.00240	0.00123	<3.04E-04	<1.73E-04	<1.73E-04	0.00042	<1.63E-04	<3.79E-04	0.00035	<1.73E-04	<2.09E-04	<4.43E-04	0.00082	0.00057	<6.86E-05	<1.40E-04	<1.44E-04	<4.69E-04	<1.24E-04	<8.07E-05	<1.86E-04	<3.96E-04
T-206		0.00107	0.00095	0.00369	0.01145	0.00210	<1.44E-04	0.00074	0.00126	<1.26E-04	<8.55E-05	<1.19E-04	0.00679	0.00699	0.00197	<1.52E-04	0.00091	<6.65E-05	0.02650	0.01405	0.00220	<1.04E-04	<3.41E-04	<9.02E-05	0.00554	<1.35E-04	<2.88E-04
T-207		0.00173	0.00029	0.00482	0.00053	0.00493	<1.93E-04	0.00075	0.00074	0.00039	0.00080	<1.63E-04	<3.71E-04	0.00087	<1.73E-04	0.00043	0.00130	0.00240	0.00103	0.00090	<1.40E-04	<1.43E-04	<4.57E-04	<1.24E-04	<8.05E-05	<1.86E-04	<3.86E-04
T-208		<5.36E-04	<7.07E-05	0.00329	0.00056	0.00299	<2.36E-04	<3.61E-04	<2.08E-04	<2.08E-04	0.00094	<1.97E-04	<4.52E-04	<1.12E-04	<2.08E-04	<2.52E-04	<5.27E-04	0.00148	0.00412	<8.26E-05	<1.69E-04	<1.73E-04	<5.58E-04	0.00055	<9.71E-05	<2.24E-04	<4.72E-04
T-209		<1.35E-04	<1.81E-05	0.00076	0.00008	0.00143	<5.95E-05	<9.12E-05	<5.20E-05	<5.20E-05	0.00011	<4.91E-05	<1.14E-04	<2.86E-05	<5.20E-05	<6.28E-05	<1.33E-04	0.00022	<2.08E-05	<2.11E-05	<4.22E-05	<4.31E-05	<1.41E-04	<3.73E-05	<2.48E-05	<5.59E-05	<1.19E-04
T-210		0.00059	<2.83E-05	0.00147	0.00013	<1.27E-04	<9.55E-05	<1.46E-04	<8.33E-05	<8.33E-05	<5.66E-05	<7.86E-05	<1.83E-04	<4.48E-05	<8.33E-05	<1.01E-04	<2.13E-04	0.00026	<3.41E-05	<3.30E-05	<6.77E-05	<6.91E-05	<2.26E-04	<5.97E-05	<3.88E-05	<8.96E-05	<1.91E-04
T-211		0.00032	<1.57E-05	0.00081	0.00006	0.00079	<5.12E-05	<7.85E-05	<4.53E-05	<4.53E-05	0.00010	<4.27E-05	<9.83E-05	<2.49E-05	<4.53E-05	<5.47E-05	<1.14E-04	0.00015	0.00008	<1.84E-05	<3.67E-05	<3.76E-05	<1.21E-04	<3.24E-05	<2.16E-05	<4.87E-05	<1.02E-04
T-212		0.00044	0.00009	0.00154	0.00006	0.00110	<5.57E-05	<8.53E-05	<4.92E-05	<4.92E-05	0.00029	<4.64E-05	<1.07E-04	<2.70E-05	<4.92E-05	<5.94E-05	0.00087	0.00024	<1.88E-05	<1.99E-05	<3.99E-05	<4.08E-05	<1.32E-04	<3.53E-05	<2.34E-05	<5.29E-05	<1.11E-04
T-213		0.00055	0.00010	0.00117	0.00007	0.00108	<5.79E-05	<8.87E-05	<5.06E-05	<5.06E-05	0.00018	<4.77E-05	0.00025	<2.72E-05	<5.06E-05	<6.11E-05	<1.29E-04	0.00030	<1.97E-05	<2.01E-05	<4.11E-05	<4.20E-05	<1.37E-04	0.00132	<2.36E-05	<5.44E-05	<1.16E-04
T-214		<8.52E-05	<1.15E-05	<9.02E-05	<1.31E-05	<4.97E-05	<3.73E-05	<5.72E-05	<3.30E-05	<3.30E-05	<2.24E-05	<3.11E-05	<7.16E-05	<1.82E-05	<3.30E-05	<3.98E-05	<8.34E-05	<1.74E-05	<1.25E-05	<1.34E-05	<2.68E-05	<2.74E-05	<8.84E-05	<2.36E-05	<1.58E-05	<3.55E-05	<7.47E-05
T-215		0.00154	<4.66E-05	0.00474	0.00034	0.00826	<1.52E-04	<2.32E-04	<1.34E-04	<1.34E-04	0.00069	<1.26E-04	0.00119	<7.37E-05	<1.34E-04	<1.62E-04	<3.39E-04	0.00120	<5.35E-05	<5.44E-05	<1.09E-04	<1.11E-04	<3.59E-04	0.00023	<6.39E-05	<1.44E-04	<3.03E-04
T-216		0.00071	0.00023	0.00161	0.00011	<7.50E-05	<5.64E-05	<8.64E-05	<4.98E-05	<4.98E-05	0.00034	<4.70E-05	<1.08E-04	<2.68E-05	<4.98E-05	<6.02E-05	<1.26E-04	0.00024	<2.03E-05	<1.97E-05	<4.04E-05	<4.13E-05	<1.33E-04	<3.57E-05	<2.32E-05	<5.35E-05	<1.13E-04
T-217		0.00064	<1.96E-05	0.00369	0.00015	0.00028	<6.62E-05	<1.01E-04	<5.78E-05	<5.78E-05	0.00055	<5.45E-05	<1.27E-04	<3.11E-05	<5.78E-05	<6.98E-05	<1.48E-04	0.00029	0.00012	<2.29E-05	<4.69E-05	<4.79E-05	<1.57E-04	<4.14E-05	<2.69E-05	<6.21E-05	<1.32E-04
T-218		0.00131	<2.40E-05	0.00249	<2.80E-05	0.00166	<8.09E-05	<1.24E-04	<7.06E-05	<7.06E-05	0.00041	<6.66E-05	0.00815	0.00376	<7.06E-05	<8.53E-05	<1.81E-04	0.00030	0.00092	0.00241	0.00104	<5.86E-05	<1.92E-04	<5.06E-05	0.00011	<7.59E-05	<1.62E-04
T-301		0.00046	<2.16E-05	0.00052	0.00007	0.00025	<7.12E-05	<1.09E-04	<6.37E-05	<6.37E-05	<4.32E-05	<6.01E-05	<1.37E-04	<3.43E-05	<6.37E-05	<7.70E-05	<1.59E-04	0.00013	<2.49E-05	<2.53E-05	<5.17E-05	<5.28E-05	<1.69E-04	<4.56E-05	<2.97E-05	<6.85E-05	<1.42E-04
T-302		0.00058	<2.88E-05	0.00125	0.00009	0.00032	<9.50E-05	<1.46E-04	<8.50E-05	<8.50E-05	<5.77E-05	<8.02E-05	<1.83E-04	<4.57E-05	<8.50E-05	<1.03E-04	<2.12E-04	0.00014	<3.32E-05	<3.37E-05	<6.90E-05	<7.05E-05	<2.25E-04	<6.09E-05	<3.96E-05	<9.14E-05	<1.90E-04
T-303		0.00060	<3.12E-05	0.00354	0.00011	0.00030	<1.05E-04	<1.62E-04	<9.20E-05	<9.20E-05	<6.24E-05	<8.68E-05	0.00050	<4.95E-05	<9.20E-05	<1.11E-04	<2.35E-04	<4.86E-05	<3.59E-05	<3.65E-05	<7.47E-05	<7.63E-05	<2.50E-04	<6.59E-05	<4.29E-05	<9.89E-05	<2.11E-04
T-304		<1.92E-04	<2.52E-05	0.00069	0.00168	<1.13E-04	<8.50E-05	<1.30E-04	<7.42E-05	0.00017	<5.04E-05	<7.00E-05	<1.63E-04	<3.99E-05	<7.42E-05	<8.96E-05	<1.90E-04	0.00013	0.00006	<2.94E-05	<6.02E-05	<6.16E-05	<2.01E-04	<5.32E-05	<3.46E-05	<7.98E-05	<1.70E-04
T-305		0.00158	0.00141	0.00476	0.01041	0.00138	<1.35E-04	0.00162	0.00225	0.00067	0.00404	0.00288	0.00079	0.00273	0.00072	0.00047	0.00093	0.00061	0.00077	0.00597	0.00209	<9.99E-05	<3.19E-04	0.00040	0.00040	0.00055	<2.69E-04
T-306		0.00129	<2.95E-05	0.00154	0.00018	0.00069	<9.94E-05	<1.52E-04	<8.68E-05	<8.68E-05	0.00016	<8.19E-05	<1.90E-04	<4.67E-05	<8.68E-05	<1.05E-04	<2.22E-04	0.00025	<3.39E-05	<3.44E-05	<7.04E-05	<7.20E-05	<2.35E-04	<6.22E-05	<4.04E-05	<9.33E-05	<1.99E-04
T-307		0.00137	<3.02E-05	0.00185	0.00021	0.00261	0.00021	<1.56E-04	<9.11E-05	<9.11E-05	0.00089	<8.59E-05	<1.96E-04	<4.78E-05	<9.11E-05	<1.10E-04	<2.27E-04	0.00025	<3.47E-05	<3.52E-05	<7.39E-05	<7.56E-05	<2.41E-04	<6.53E-05	<4.14E-05	<9.79E-05	<2.04E-04
T-308		0.00144	<3.37E-05	0.00179	0.00043	0.00076	<1.14E-04	<1.74E-04	<1.02E-04	<1.02E-04	0.00032	<9.60E-05	<2.19E-04	<5.34E-05	<1.02E-04	<1.23E-04	<2.54E-04	0.00021	<3.87E-05	<3.94E-05	0.00038	<8.44E-05	<2.69E-04	<7.29E-05	<4.63E-05	<1.09E-04	<2.28E-04
T-309		0.00126	<3.57E-05	0.00186	0.00030	0.00102	<1.21E-04	<1.85E-04	<1.05E-04	<1.05E-04	0.00029	<9.93E-05	<2.31E-04	<5.66E-05	<1.05E-04	<1.27E-04	<2.69E-04	0.00035	<4.11E-05	<4.17E-05	<8.54E-05	<8.73E-05	<2.85E-04	0.00049	<4.90E-05	<1.13E-04	<2.41E-04
T-310		<9.57E-05	<1.29E-05	<1.01E-04	<1.47E-05	<5.58E-05	<4.20E-05	<6.43E-05	<3.71E-05	<3.71E-05	<2.52E-05	<3.50E-05	<8.05E-05	<2.04E-05	<3.71E-05	<4.48E-05	<9.37E-05	<1.96E-05	<1.48E-05	<1.50E-05	<3.01E-05	<3.07E-05	<9.93E-05	<2.66E-05	<1.77E-05	<3.99E-05	<8.39E-05
T-311		0.00316	<7.83E-05	0.00563	0.00042	0.00302	<2.64E-04	<4.05E-04	<2.36E-04	<2.36E-04	0.00060	<2.23E-04	<5.08E-04	<1.24E-04	<2.36E-04	<2.85E-04	<5.90E-04	0.00103	0.00031	<9.14E-05	<1.92E-04	<1.96E-04	<6.26E-04	<1.69E-04	<1.08E-04	<2.54E-04	<5.28E-04
T-312		0.00240	0.00138	0.05166	0.00061	0.00487	0.00204	<2.96E-04	0.00054	<1.69E-04	0.04757	<1.59E-04	0.00188	<9.07E-05	0.00041	<2.04E-04	0.00429	0.00119	0.00280	<6.69E-05	<1.37E-04	0.00659	<4.57E-04	<1.21E-04	0.00054	<1.81E-04	<3.86E-04
T-313		0.00226	<6.37E-05	0.00571	0.00038	0.00416	<2.10E-04	<3.22E-04	<1.88E-04	<1.88E-04	0.00102	<1.77E-04	<4.03E-04	<1.01E-04	<1.88E-04	<2.27E-04	<4.68E-04	0.00184	0.00060	<7.44E-05	<1.52E-04	<1.56E-04	<4.97E-04	<1.34E-04	<8.74E-05	<2.02E-04	<4.20E-04
T-314		0.00225	<6.50E-05	0.01023	0.00059	0.00552	0.01649	0.00105	0.00166	0.00038	0.00131	0.00074	<4.12E-04	0.00243	0.00094	0.01921	0.01909	0.00156	0.00356	<7.59E-05	<1.55E-04	<1.59E-04	0.01496	<1.37E-04	<8.92E-05	<2.06E-04	0.00277

Table 3
TO-15 Compounds

Sample Number / Compound	trans-1,2-Dichloroethene	Trichloroethene (TCE)	1,2,4-Trimethylbenzene	Chloroform	1,3,5-Trimethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene chloride	Styrene	2-Hexanone	Chloromethane	t-Butyl alcohol	cis-1,2-Dichloroethene	1,1-Dichloroethane	Dichlorodifluoromethane	1,2-Dichlorotetrafluoroethane	Vinyl chloride	1,3-Butadiene	Bromomethane	Chloroethane	Trichlorofluoromethane	Methyl iodide	1,1-Dichloroethene	Acrylonitrile	1,1,2-Trichlorotrifluoroethane	Allyl chloride	Methyl tert butyl ether
CAS	156-60-5	79-01-6	95-63-6	67-66-3	108-67-8	108-10-1	75-09-2	100-42-5	591-78-6	74-87-3	75-65-0	156-59-2	75-34-3	75-71-8	76-14-2	75-01-4	106-99-0	74-83-9	75-00-3	75-69-4	4227-95-6	75-35-4	107-13-1	76-13-1	107-05-1	1634-04-4
MW	96.90	131.40	120.20	119.40	120.20	100.20	84.90	104.20	100.20	50.50	74.10	96.90	99.00	120.90	170.90	62.50	54.10	94.90	64.50	137.40	142.90	96.90	53.10	187.40	76.50	88.10
Lab Data (ppbv)																										
T-101	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-102	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-103	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-104	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-105	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-106	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-107	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-108	ND	ND	0.9	ND	ND	ND	ND	0.86	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-109	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-111	ND	ND	ND	ND	ND	0.44	ND	ND	ND	0.68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-112	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-113	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-114	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-115	ND	ND	ND	ND	ND	0.53	ND	ND	0.47	ND	0.47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-116	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-117	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-118	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-201	ND	ND	ND	0.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-202	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-203	ND	ND	0.82	ND	0.94	ND	ND	0.73	ND	ND	ND	0.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-204	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-205	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-206	6.61	2.44	ND	ND	ND	ND	2.76	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-207	ND	0.32	ND	ND	ND	0.49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-208	ND	0.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-209	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-210	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-211	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-212	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-213	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-214	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-215	ND	ND	ND	2.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-216	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-217	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-218	ND	1.88	ND	1.29	ND	ND	ND	ND	ND	ND	ND	ND	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-301	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-302	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-303	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-304	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-305	ND	0.28	ND	ND	ND	0.75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-306	ND	ND	ND	0.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-307	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-308	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-309	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-310	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-311	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-312	ND	ND	ND	ND	ND	ND	ND	ND	0.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-313	ND	ND	ND	ND	ND	0.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-314	ND	ND	3.08	ND	2.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3
TO-15 Compounds

Sample Number / Compound	trans-1,2-Dichloroethene	Trichloroethene (TCE)	1,2,4-Trimethylbenzene	Chloroform	1,3,5-Trimethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene chloride	Styrene	2-Hexanone	Chloromethane	t-Butyl alcohol	cis-1,2-Dichloroethene	1,1-Dichloroethane	Dichlorodifluoromethane	1,2-Dichlorotetrafluoroethane	Vinyl chloride	1,3-Butadiene	Bromomethane	Chloroethane	Trichlorofluoromethane	Methyl iodide	1,1-Dichloroethene	Acrylonitrile	1,1,2-Trichlorotrifluoroethane	Allyl chloride	Methyl tert butyl ether
CAS	156-60-5	79-01-6	95-63-6	67-66-3	108-67-8	108-10-1	75-09-2	100-42-5	591-78-6	74-87-3	75-65-0	156-59-2	75-34-3	75-71-8	76-14-2	75-01-4	106-99-0	74-83-9	75-00-3	75-69-4	4227-95-6	75-35-4	107-13-1	76-13-1	107-05-1	1634-04-4
MW	96.90	131.40	120.20	119.40	120.20	100.20	84.90	104.20	100.20	50.50	74.10	96.90	99.00	120.90	170.90	62.50	54.10	94.90	64.50	137.40	142.90	96.90	53.10	187.40	76.50	88.10
MDL (ppbv)																										
T-101	0.2	0.1	0.8	0.2	0.8	0.4	0.2	0.6	0.4	0.6	0.4	0.2	0.2	0.6	0.4	0.2	0.2	0.4	0.4	0.4	0.4	0.2	0.8	0.2	0.2	0.4
T-102	0.21	0.1	0.83	0.21	0.83	0.41	0.21	0.62	0.41	0.62	0.41	0.21	0.21	0.62	0.41	0.21	0.21	0.41	0.41	0.41	0.41	0.21	0.83	0.21	0.21	0.41
T-103	0.2	0.1	0.8	0.2	0.8	0.4	0.2	0.6	0.4	0.6	0.4	0.2	0.2	0.6	0.4	0.2	0.2	0.4	0.4	0.4	0.4	0.2	0.8	0.2	0.2	0.4
T-104	0.22	0.11	0.87	0.22	0.87	0.44	0.22	0.66	0.44	0.66	0.44	0.22	0.22	0.66	0.44	0.22	0.22	0.44	0.44	0.44	0.44	0.22	0.87	0.22	0.22	0.44
T-105	0.21	0.1	0.82	0.21	0.82	0.41	0.21	0.62	0.41	0.62	0.41	0.21	0.2	0.62	0.41	0.21	0.21	0.41	0.41	0.41	0.41	0.21	0.82	0.21	0.21	0.41
T-106	0.21	0.1	0.82	0.21	0.82	0.41	0.21	0.62	0.41	0.62	0.41	0.21	0.2	0.62	0.41	0.21	0.21	0.41	0.41	0.41	0.41	0.21	0.82	0.21	0.21	0.41
T-107	0.21	0.1	0.82	0.21	0.82	0.41	0.21	0.62	0.41	0.62	0.41	0.21	0.2	0.62	0.41	0.21	0.21	0.41	0.41	0.41	0.41	0.21	0.82	0.21	0.21	0.41
T-108	0.21	0.11	0.84	0.21	0.84	0.42	0.21	0.63	0.42	0.63	0.42	0.21	0.21	0.63	0.42	0.21	0.21	0.42	0.42	0.42	0.42	0.21	0.84	0.21	0.21	0.42
T-109	0.22	0.11	0.87	0.22	0.87	0.43	0.22	0.65	0.43	0.65	0.43	0.22	0.22	0.65	0.43	0.22	0.22	0.43	0.43	0.43	0.43	0.22	0.87	0.22	0.22	0.43
T-110	0.21	0.11	0.85	0.21	0.85	0.42	0.21	0.64	0.42	0.64	0.42	0.21	0.21	0.64	0.42	0.21	0.21	0.42	0.42	0.42	0.42	0.21	0.85	0.21	0.21	0.42
T-111	0.21	0.1	0.83	0.21	0.83	0.42	0.21	0.63	0.42	0.63	0.42	0.21	0.21	0.63	0.42	0.21	0.21	0.42	0.42	0.42	0.42	0.21	0.83	0.21	0.21	0.42
T-112	0.21	0.1	0.83	0.21	0.83	0.41	0.21	0.62	0.41	0.62	0.41	0.21	0.21	0.62	0.41	0.21	0.21	0.41	0.41	0.41	0.41	0.21	0.83	0.21	0.21	0.41
T-113	0.21	0.1	0.82	0.21	0.82	0.41	0.21	0.62	0.41	0.62	0.41	0.21	0.2	0.62	0.41	0.21	0.21	0.41	0.41	0.41	0.41	0.21	0.82	0.21	0.21	0.41
T-114	0.21	0.11	0.85	0.21	0.85	0.42	0.21	0.64	0.42	0.64	0.42	0.21	0.21	0.64	0.42	0.21	0.21	0.42	0.42	0.42	0.42	0.21	0.85	0.21	0.21	0.42
T-115	0.21	0.11	0.85	0.21	0.85	0.42	0.21	0.64	0.42	0.64	0.42	0.21	0.21	0.64	0.42	0.21	0.21	0.42	0.42	0.42	0.42	0.21	0.85	0.21	0.21	0.42
T-116	0.25	0.12	0.99	0.25	0.99	0.49	0.25	0.74	0.49	0.74	0.49	0.25	0.25	0.74	0.49	0.25	0.25	0.49	0.49	0.49	0.49	0.25	0.99	0.25	0.25	0.49
T-117	0.21	0.1	0.83	0.21	0.83	0.42	0.21	0.63	0.42	0.63	0.42	0.21	0.21	0.63	0.42	0.21	0.21	0.42	0.42	0.42	0.42	0.21	0.83	0.21	0.21	0.42
T-118	0.19	0.1	0.76	0.19	0.76	0.38	0.19	0.57	0.38	0.57	0.38	0.19	0.19	0.57	0.38	0.19	0.19	0.38	0.38	0.38	0.38	0.19	0.76	0.19	0.19	0.38
T-201	0.2	0.1	0.81	0.2	0.81	0.4	0.2	0.61	0.4	0.61	0.4	0.2	0.2	0.61	0.4	0.2	0.2	0.4	0.4	0.4	0.4	0.2	0.81	0.2	0.2	0.4
T-202	0.2	0.1	0.79	0.2	0.79	0.39	0.2	0.59	0.39	0.59	0.39	0.2	0.2	0.59	0.39	0.2	0.2	0.39	0.39	0.39	0.39	0.2	0.79	0.2	0.2	0.39
T-203	0.2	0.1	0.8	0.2	0.8	0.4	0.2	0.6	0.4	0.6	0.4	0.2	0.2	0.6	0.4	0.2	0.2	0.4	0.4	0.4	0.4	0.2	0.8	0.2	0.2	0.4
T-204	0.2	0.1	0.79	0.2	0.79	0.39	0.2	0.59	0.39	0.59	0.39	0.2	0.2	0.59	0.39	0.2	0.2	0.39	0.39	0.39	0.39	0.2	0.79	0.2	0.2	0.39
T-205	0.21	0.11	0.85	0.21	0.85	0.42	0.21	0.64	0.42	0.64	0.42	0.21	0.21	0.64	0.42	0.21	0.21	0.42	0.42	0.42	0.42	0.21	0.85	0.21	0.21	0.42
T-206	0.21	0.1	0.83	0.21	0.83	0.41	0.21	0.62	0.41	0.62	0.41	0.21	0.21	0.62	0.41	0.21	0.21	0.41	0.41	0.41	0.41	0.21	0.83	0.21	0.21	0.41
T-207	0.22	0.11	0.87	0.22	0.87	0.44	0.22	0.66	0.44	0.66	0.44	0.22	0.22	0.66	0.44	0.22	0.22	0.44	0.44	0.44	0.44	0.22	0.87	0.22	0.22	0.44
T-208	0.21	0.11	0.84	0.21	0.84	0.42	0.21	0.63	0.42	0.63	0.42	0.21	0.21	0.63	0.42	0.21	0.21	0.42	0.42	0.42	0.42	0.21	0.84	0.21	0.21	0.42
T-209	0.22	0.11	0.87	0.22	0.87	0.43	0.22	0.65	0.43	0.65	0.43	0.22	0.22	0.65	0.43	0.22	0.22	0.43	0.43	0.43	0.43	0.22	0.87	0.22	0.22	0.43
T-210	0.21	0.11	0.85	0.21	0.85	0.42	0.21	0.64	0.42	0.64	0.42	0.21	0.21	0.64	0.42	0.21	0.21	0.42	0.42	0.42	0.42	0.21	0.85	0.21	0.21	0.42
T-211	0.22	0.11	0.86	0.22	0.86	0.43	0.22	0.65	0.43	0.65	0.43	0.22	0.21	0.65	0.43	0.22	0.22	0.43	0.43	0.43	0.43	0.22	0.86	0.22	0.22	0.43
T-212	0.23	0.11	0.9	0.23	0.9	0.45	0.23	0.68	0.45	0.68	0.45	0.23	0.22	0.68	0.45	0.23	0.23	0.45	0.45	0.45	0.45	0.23	0.9	0.23	0.23	0.45
T-213	0.22	0.11	0.89	0.22	0.89	0.44	0.22	0.67	0.44	0.67	0.44	0.22	0.22	0.67	0.44	0.22	0.22	0.44	0.44	0.44	0.44	0.22	0.89	0.22	0.22	0.44
T-214	0.19	0.09	0.74	0.19	0.74	0.37	0.19	0.56	0.37	0.56	0.37	0.19	0.18	0.56	0.37	0.19	0.19	0.37	0.37	0.37	0.37	0.19	0.74	0.19	0.19	0.37
T-215	0.22	0.11	0.86	0.22	0.86	0.43	0.22	0.65	0.43	0.65	0.43	0.22	0.21	0.65	0.43	0.22	0.22	0.43	0.43	0.43	0.43	0.22	0.86	0.22	0.22	0.43
T-216	0.23	0.12	0.92	0.23	0.92	0.46	0.23	0.69	0.46	0.69	0.46	0.23	0.23	0.69	0.46	0.23	0.23	0.46	0.46	0.46	0.46	0.23	0.92	0.23	0.23	0.46
T-217	0.21	0.11	0.85	0.21	0.85	0.42	0.21	0.64	0.42	0.64	0.42	0.21	0.21	0.64	0.42	0.21	0.21	0.42	0.42	0.42	0.42	0.21	0.85	0.21	0.21	0.42
T-218	0.21	0.11	0.85	0.21	0.85	0.42	0.21	0.64	0.42	0.64	0.42	0.21	0.21	0.64	0.42	0.21	0.21	0.42	0.42	0.42	0.42	0.21	0.85	0.21	0.21	0.42
T-301	0.2	0.1	0.79	0.2	0.79	0.4	0.2	0.6	0.4	0.6	0.4	0.2	0.2	0.6	0.4	0.2	0.2	0.4	0.4	0.4	0.4	0.2	0.79	0.2	0.2	0.4
T-302	0.2	0.1	0.79	0.2	0.79	0.4	0.2	0.6	0.4	0.6	0.4	0.2	0.2	0.6	0.4	0.2	0.2	0.4	0.4	0.4	0.4	0.2	0.79	0.2	0.2	0.4
T-303	0.2	0.1	0.81	0.2	0.81	0.4	0.2	0.61	0.4	0.61	0.4	0.2	0.2	0.61	0.4	0.2	0.2	0.4	0.4	0.4	0.4	0.2	0.81	0.2	0.2	0.4
T-304	0.2	0.1	0.81	0.2	0.81	0.4	0.2	0.61	0.4	0.61	0.4	0.2	0.2	0.61	0.4	0.2	0.2	0.4	0.4	0.4	0.4	0.2	0.81	0.2	0.2	0.4
T-305	0.21	0.1	0.83	0.21	0.83	0.42	0.21	0.63	0.42	0.63	0.42	0.21	0.21	0.63	0.42	0.21	0.21	0.42	0.42	0.42	0.42	0.21	0.83	0.21	0.21	0.42
T-306	0.2	0.1	0.81	0.2	0.81	0.4	0.2	0.61	0.4	0.61	0.4	0.2	0.2	0.61	0.4	0.2	0.2	0.4	0.4	0.4	0.4	0.2	0.81	0.2	0.2	0.4
T-307	0.2	0.1	0.81	0.2	0.81	0.41	0.2	0.61	0.41	0.61	0.41	0.2	0.2	0.61	0.41	0.2	0.2	0.41	0.41	0.41	0.41	0.2	0.81	0.2	0.2	0.41
T-308	0.2	0.1	0.81	0.2	0.81	0.41	0.2	0.61	0.41	0.61	0.41	0.2	0.2	0.61	0.41	0.2	0.2	0.41	0.41	0.41	0.41	0.2	0.81	0.2	0.2	0.41
T-309	0.2	0.1	0.81	0.2	0.81	0.4	0.2	0.61	0.4	0.61	0.4	0.2	0.2	0.61	0.4	0.2	0.2	0.4	0.4	0.4	0.4	0.2	0.81	0.2	0.2	0.4
T-310	0.22	0.11	0.86	0.22	0.86	0.43	0.22	0.65	0.43	0.65	0.43	0.22	0.21	0.65	0.43	0.22	0.22	0.43	0.43	0.43	0.43	0.22	0.86	0.22	0.22	0.43
T-311	0.21	0.11	0.85	0.21	0.85	0.43	0.21	0.64	0.43	0.64	0.43	0.21	0.21	0.64	0.43	0.21	0.21	0.43	0.43	0.43	0.43	0.21	0.85	0.21	0.21	0.43
T-312	0.22	0.11	0.89	0.22	0.89	0.44	0.22	0.67	0.44	0.67	0.44	0.22	0.22	0.67	0.44	0.22	0.22	0.44	0.44	0.44	0.44	0.22	0.89	0.22	0.22	0.44
T-313	0.21	0.1	0.83	0.21	0.83	0.42	0.21	0.63	0.42	0.63	0.42	0.21	0.21	0.63	0.42	0.21	0.21	0.42	0.42	0.42	0.42	0.21	0.83	0.21	0.21	0.42
T-314	0.21	0.1	0.83	0.21	0.83	0.42	0.21	0.63	0.42	0.63	0.42	0.21	0.21	0.63	0.42	0.21	0.21	0.42	0.42	0.42	0.42	0.21	0.83	0.21	0.21	0.42

Table 3
TO-15 Compounds

Sample Number / Compound	trans-1,2-Dichloroethene	Trichloroethene (TCE)	1,2,4-Trimethylbenzene	Chloroform	1,3,5-Trimethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene chloride	Styrene	2-Hexanone	Chloromethane	t-Butyl alcohol	cis-1,2-Dichloroethene	1,1-Dichloroethane	Dichlorodifluoromethane	1,2-Dichlorotetrafluoroethane	Vinyl chloride	1,3-Butadiene	Bromomethane	Chloroethane	Trichlorofluoromethane	Methyl iodide	1,1-Dichloroethene	Acrylonitrile	1,1,2-Trichlorotrifluoroethane	Allyl chloride	Methyl tert butyl ether
CAS	156-60-5	79-01-6	95-63-6	67-66-3	108-67-8	108-10-1	75-09-2	100-42-5	591-78-6	74-87-3	75-65-0	156-59-2	75-34-3	75-71-8	76-14-2	75-01-4	106-99-0	74-83-9	75-00-3	75-69-4	4227-95-6	75-35-4	107-13-1	76-13-1	107-05-1	1634-04-4
MW	96.90	131.40	120.20	119.40	120.20	100.20	84.90	104.20	100.20	50.50	74.10	96.90	99.00	120.90	170.90	62.50	54.10	94.90	64.50	137.40	142.90	96.90	53.10	187.40	76.50	88.10
Data Used (ug/l)																										
T-101	0.41	0.28	2.04	0.51	2.04	0.85	0.36	1.33	0.85	0.64	0.63	0.41	0.42	1.54	1.45	0.27	0.23	0.81	0.55	1.17	1.21	0.41	0.90	0.80	0.32	0.75
T-102	0.43	0.28	2.13	0.54	2.13	0.88	0.38	1.38	0.88	0.67	0.65	0.43	0.44	1.60	1.50	0.28	0.24	0.83	0.56	1.20	1.25	0.43	0.94	0.84	0.34	0.77
T-103	0.41	0.28	2.03	0.50	2.03	0.85	0.36	1.32	0.85	0.64	0.63	0.41	0.42	1.53	1.44	0.26	0.23	0.80	0.54	1.16	1.21	0.41	0.90	0.79	0.32	0.74
T-104	0.45	0.31	2.22	0.56	2.22	0.94	0.40	1.46	0.94	0.71	0.69	0.45	0.46	1.69	1.60	0.29	0.25	0.89	0.60	1.28	1.33	0.45	0.98	0.88	0.36	0.82
T-105	0.42	0.27	2.04	0.52	2.04	0.85	0.37	1.34	0.85	0.65	0.63	0.42	0.41	1.55	1.45	0.27	0.24	0.81	0.55	1.17	1.21	0.42	0.90	0.81	0.33	0.75
T-106	0.43	0.28	2.07	0.53	2.07	0.86	0.37	1.36	0.86	0.66	0.64	0.43	0.42	1.57	1.47	0.28	0.24	0.82	0.55	1.18	1.23	0.43	0.91	0.83	0.34	0.76
T-107	0.42	0.27	2.03	0.52	2.03	0.85	0.37	1.33	0.85	0.64	0.63	0.42	0.41	1.54	1.44	0.27	0.23	0.80	0.54	1.16	1.21	0.42	0.90	0.81	0.33	0.74
T-108	0.42	0.30	4.49	0.52	2.09	0.87	0.37	3.72	0.87	0.66	0.65	0.42	0.43	1.58	1.49	0.27	0.24	0.83	0.56	1.20	1.25	0.42	0.93	0.82	0.33	0.77
T-109	0.44	0.30	2.17	0.54	2.17	0.89	0.39	1.41	0.89	0.68	0.66	0.44	0.45	1.63	1.52	0.29	0.25	0.85	0.58	1.23	1.27	0.44	0.96	0.86	0.35	0.79
T-110	0.42	0.29	2.08	0.51	2.08	0.86	0.36	1.36	0.86	0.66	0.63	0.42	0.42	1.58	1.46	0.27	0.23	0.81	0.55	1.18	1.22	0.42	0.92	0.80	0.33	0.75
T-111	0.42	0.27	2.05	0.52	2.05	1.81	0.37	1.35	0.86	1.41	0.64	0.42	0.43	1.57	1.48	0.27	0.23	0.82	0.56	1.19	1.23	0.42	0.91	0.81	0.33	0.76
T-112	0.41	0.27	2.02	0.51	2.02	0.83	0.36	1.31	0.83	0.64	0.62	0.41	0.42	1.52	1.42	0.27	0.23	0.79	0.54	1.14	1.19	0.41	0.89	0.80	0.33	0.73
T-113	0.42	0.27	2.01	0.51	2.01	0.84	0.36	1.32	0.84	0.64	0.62	0.42	0.40	1.53	1.43	0.27	0.23	0.80	0.54	1.15	1.20	0.42	0.89	0.80	0.33	0.74
T-114	0.42	0.30	2.10	0.51	2.10	0.86	0.37	1.37	0.86	0.66	0.64	0.42	0.43	1.59	1.47	0.27	0.23	0.82	0.56	1.18	1.23	0.42	0.93	0.81	0.33	0.76
T-115	0.42	0.30	2.10	0.51	2.10	2.18	0.37	1.37	1.93	0.66	1.43	0.42	0.43	1.59	1.47	0.27	0.23	0.82	0.56	1.18	1.23	0.42	0.93	0.81	0.33	0.76
T-116	0.49	0.32	2.43	0.61	2.43	1.00	0.43	1.57	1.00	0.76	0.74	0.49	0.50	1.83	1.71	0.32	0.28	0.95	0.64	1.37	1.43	0.49	1.07	0.96	0.39	0.88
T-117	0.42	0.27	2.04	0.51	2.04	0.86	0.36	1.34	0.86	0.65	0.63	0.42	0.42	1.55	1.46	0.27	0.23	0.81	0.55	1.18	1.22	0.42	0.90	0.80	0.33	0.75
T-118	0.38	0.27	1.87	0.47	1.87	0.78	0.33	1.22	0.78	0.59	0.58	0.38	0.39	1.41	1.33	0.24	0.21	0.74	0.50	1.07	1.11	0.38	0.83	0.73	0.30	0.69
T-201	0.41	0.28	2.08	1.48	2.08	0.86	0.36	1.36	0.86	0.66	0.63	0.41	0.42	1.57	1.46	0.27	0.23	0.81	0.55	1.17	1.22	0.41	0.92	0.80	0.33	0.75
T-202	0.41	0.28	2.01	0.50	2.01	0.83	0.36	1.30	0.83	0.63	0.61	0.41	0.42	1.51	1.41	0.26	0.23	0.78	0.53	1.13	1.18	0.41	0.89	0.79	0.32	0.73
T-203	0.41	0.28	4.18	0.51	4.80	0.85	0.36	3.23	0.85	0.64	0.63	1.56	0.42	1.54	1.45	0.27	0.23	0.81	0.55	1.17	1.21	0.41	0.90	0.80	0.32	0.75
T-204	0.41	0.28	2.01	0.51	2.01	0.83	0.36	1.30	0.83	0.63	0.61	0.41	0.42	1.51	1.41	0.26	0.23	0.78	0.53	1.14	1.18	0.41	0.89	0.79	0.32	0.73
T-205	0.42	0.30	2.09	0.51	2.09	0.86	0.37	1.37	0.86	0.66	0.64	0.42	0.43	1.58	1.47	0.27	0.23	0.82	0.55	1.18	1.23	0.42	0.92	0.81	0.33	0.76
T-206	26.58	13.30	2.07	0.52	2.07	0.85	9.72	1.34	0.85	0.65	0.63	0.42	0.43	1.56	1.45	0.27	0.24	0.81	0.55	1.17	1.22	0.42	0.91	0.82	0.33	0.75
T-207	0.42	1.67	2.08	0.52	2.08	1.95	0.37	1.37	0.88	0.66	0.65	0.42	0.43	1.59	1.49	0.27	0.24	0.83	0.56	1.20	1.25	0.42	0.92	0.82	0.33	0.77
T-208	0.41	0.80	2.05	0.51	2.05	0.85	0.36	1.33	0.85	0.65	0.63	0.41	0.42	1.55	1.46	0.27	0.23	0.81	0.55	1.17	1.22	0.41	0.90	0.80	0.33	0.75
T-209	0.43	0.29	2.10	0.53	2.10	0.87	0.38	1.36	0.87	0.66	0.64	0.43	0.44	1.58	1.48	0.28	0.24	0.82	0.56	1.19	1.24	0.43	0.93	0.83	0.34	0.76
T-210	0.41	0.29	2.06	0.51	2.06	0.85	0.36	1.35	0.85	0.65	0.63	0.41	0.42	1.56	1.45	0.27	0.23	0.81	0.55	1.17	1.21	0.41	0.91	0.80	0.32	0.75
T-211	0.43	0.29	2.07	0.53	2.07	0.86	0.37	1.36	0.86	0.66	0.64	0.43	0.42	1.57	1.47	0.28	0.24	0.82	0.56	1.18	1.23	0.43	0.91	0.83	0.34	0.76
T-212	0.45	0.29	2.19	0.56	2.19	0.91	0.39	1.43	0.91	0.69	0.67	0.45	0.44	1.66	1.55	0.29	0.25	0.86	0.59	1.25	1.30	0.45	0.97	0.87	0.36	0.80
T-213	0.43	0.29	2.16	0.53	2.16	0.89	0.38	1.41	0.89	0.68	0.66	0.43	0.44	1.64	1.52	0.28	0.24	0.84	0.57	1.22	1.27	0.43	0.96	0.83	0.34	0.78
T-214	0.38	0.24	1.82	0.47	1.82	0.76	0.33	1.20	0.76	0.58	0.56	0.38	0.37	1.39	1.30	0.24	0.21	0.72	0.49	1.04	1.08	0.38	0.81	0.73	0.30	0.67
T-215	0.41	0.28	2.01	9.48	2.01	0.84	0.36	1.32	0.84	0.64	0.62	0.41	0.40	1.53	1.43	0.27	0.23	0.79	0.54	1.15	1.20	0.41	0.89	0.80	0.33	0.74
T-216	0.44	0.31	2.21	0.55	2.21	0.92	0.39	1.43	0.92	0.70	0.68	0.44	0.45	1.66	1.57	0.29	0.25	0.87	0.59	1.26	1.31	0.44	0.97	0.86	0.35	0.81
T-217	0.41	0.29	2.05	0.50	2.05	0.85	0.36	1.34	0.85	0.65	0.63	0.41	0.42	1.56	1.44	0.26	0.23	0.80	0.54	1.16	1.21	0.41	0.91	0.79	0.32	0.74
T-218	0.39	9.58	1.98	5.97	1.98	0.82	0.35	1.29	0.82	0.63	0.60	0.39	1.04	1.50	1.39	0.25	0.22	0.77	0.53	1.12	1.16	0.39	0.88	0.76	0.31	0.72
T-301	0.42	0.28	2.05	0.51	2.05	0.86	0.37	1.35	0.86	0.65	0.64	0.42	0.43	1.56	1.47	0.27	0.23	0.82	0.56	1.19	1.23	0.42	0.90	0.81	0.33	0.76
T-302	0.42	0.28	2.04	0.51	2.04	0.86	0.36	1.34	0.86	0.65	0.64	0.42	0.43	1.56	1.47	0.27	0.23	0.82	0.55	1.18	1.23	0.42	0.90	0.80	0.33	0.76
T-303	0.42	0.28	2.10	0.51	2.10	0.86	0.37	1.37	0.86	0.66	0.64	0.42	0.43	1.59	1.47	0.27	0.23	0.82	0.56	1.19	1.23	0.42	0.93	0.81	0.33	0.76
T-304	0.42	0.28	2.09	0.51	2.09	0.86	0.36	1.36	0.86	0.66	0.64	0.42	0.42	1.58	1.47	0.27	0.23	0.81	0.55	1.18	1.23	0.42	0.92	0.80	0.33	0.76
T-305	0.41	1.49	2.02	0.51	2.02	3.05	0.36	1.33	0.85	0.65	0.63	0.41	0.42	1.55	1.46	0.27	0.23	0.81	0.55	1.17	1.22	0.41	0.89	0.80	0.33	0.75
T-306	0.40	0.27	2.00	1.37	2.00	0.82	0.35	1.31	0.82	0.63	0.61	0.40	0.41	1.52	1.40	0.26	0.22	0.78	0.53	1.13	1.17	0.40	0.88	0.77	0.31	0.72
T-307	0.40	0.27	2.01	0.49	2.01	0.85	0.35	1.31	0.85	0.64	0.63	0.40	0.41	1.52	1.45	0.26	0.22	0.80	0.55	1.16	1.21	0.40	0.89	0.77	0.32	0.75
T-308	0.40	0.27	1.99	0.49	1.99	0.84	0.35	1.30	0.84	0.63	0.62	0.40	0.41	1.51	1.43	0.26	0.22	0.80	0.54	1.15	1.20	0.40	0.88	0.77	0.31	0.74
T-309	0.40	0.27	1.99	0.49	1.99	0.82	0.35	1.30	0.82	0.63	0.61	0.40	0.41	1.51	1.40	0.26	0.22	0.78	0.53	1.13	1.17	0.40	0.88	0.77	0.31	0.72
T-310	0.44	0.30	2.12	0.54	2.12	0.88	0.38	1.39	0.88	0.67	0.65	0.44	0.43	1.61	1.51	0.28	0.24	0.84	0.57	1.21	1.26	0.44	0.94	0.85	0.35	0.78
T-311	0.40	0.28	2.01	0.49	2.01	0.85	0.35	1.31	0.85	0.63	0.63	0.40	0.41	1.52	1.44	0.26	0.22	0.80	0.54	1.16	1.21	0.40	0.89	0.77	0.32	0.74
T-312	0.43	0.29	2.14	0.53	2.14	0.88	0.37	1.40	2.24	0.68	0.65	0.43	0.44	1.62	1.50	0.27	0.24	0.83	0.57	1.21	1.26	0.43	0.94	0.82	0.34	0.77
T-313	0.39	0.25	1.93	0.49	1.93	2.37	0.35	1.27	0.81	0.62	0.60	0.39	0.40	1.47	1.39	0.25	0.22	0.77	0.52	1.12	1.16	0.39	0.85	0.76	0.31	0.72
T-314	0.40	0.26	14.46	0.49	10.52	0.82	0.35	1.28	0.82	0.62	0.61	0.40	0.41	1.49	1.40	0.26	0.22	0.78	0.53	1.13	1.17	0.40	0.86	0.77	0.31	0.72

Table 3
TO-15 Compounds

Sample Number	Compound	trans-1,2-Dichloroethene	Trichloroethene (TCE)	1,2,4-Trimethylbenzene	Chloroform	1,3,5-Trimethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene chloride	Styrene	2-Hexanone	Chloromethane	t-Butyl alcohol	cis-1,2-Dichloroethene	1,1-Dichloroethane	Dichlorodifluoromethane	1,2-Dichlorotetrafluoroethane	Vinyl chloride	1,3-Butadiene	Bromomethane	Chloroethane	Trichlorofluoromethane	Methyl iodide	1,1-Dichloroethene	Acrylonitrile	1,1,2-Trichlorotrifluoroethane	Allyl chloride	Methyl tert butyl ether
	CAS	156-60-5	79-01-6	95-63-6	67-66-3	108-67-8	108-10-1	75-09-2	100-42-5	591-78-6	74-87-3	75-65-0	156-59-2	75-34-3	75-71-8	76-14-2	75-01-4	106-99-0	74-83-9	75-00-3	75-69-4	4227-95-6	75-35-4	107-13-1	76-13-1	107-05-1	1634-04-4
	MW	96.90	131.40	120.20	119.40	120.20	100.20	84.90	104.20	100.20	50.50	74.10	96.90	99.00	120.90	170.90	62.50	54.10	94.90	64.50	137.40	142.90	96.90	53.10	187.40	76.50	88.10
Flux (mg/m2-min)																											
T-101		<3.62E-05	<2.46E-05	<1.80E-04	<4.46E-05	<1.80E-04	<7.49E-05	<3.17E-05	<1.17E-04	<7.49E-05	<5.66E-05	<5.54E-05	<3.62E-05	<3.70E-05	<1.36E-04	<1.28E-04	<2.34E-05	<2.02E-05	<7.09E-05	<4.82E-05	<1.03E-04	<1.07E-04	<3.62E-05	<7.94E-05	<7.00E-05	<2.86E-05	<6.58E-05
T-102		<4.10E-05	<2.64E-05	<2.01E-04	<5.05E-05	<2.01E-04	<8.27E-05	<3.59E-05	<1.30E-04	<8.27E-05	<6.30E-05	<6.12E-05	<4.10E-05	<4.18E-05	<1.51E-04	<1.41E-04	<2.64E-05	<2.29E-05	<7.83E-05	<5.32E-05	<1.13E-04	<1.18E-04	<4.10E-05	<8.87E-05	<7.92E-05	<3.23E-05	<7.27E-05
T-103		<6.15E-05	<4.17E-05	<3.05E-04	<7.57E-05	<3.05E-04	<1.27E-04	<5.38E-05	<1.98E-04	<1.27E-04	<9.61E-05	<9.40E-05	<6.15E-05	<6.28E-05	<2.30E-04	<2.17E-04	<3.96E-05	<3.43E-05	<1.20E-04	<8.18E-05	<1.74E-04	<1.81E-04	<6.15E-05	<1.35E-04	<1.19E-04	<4.85E-05	<1.12E-04
T-104		<3.96E-05	<2.68E-05	<1.94E-04	<4.87E-05	<1.94E-04	<8.18E-05	<3.47E-05	<1.28E-04	<8.18E-05	<6.18E-05	<6.05E-05	<3.96E-05	<4.04E-05	<1.48E-04	<1.40E-04	<2.55E-05	<2.21E-05	<7.75E-05	<5.27E-05	<1.12E-04	<1.17E-04	<3.96E-05	<8.57E-05	<7.65E-05	<3.12E-05	<7.19E-05
T-105		<5.98E-05	<3.86E-05	<2.90E-04	<7.37E-05	<2.90E-04	<1.21E-04	<5.24E-05	<1.90E-04	<1.21E-04	<9.20E-05	<8.93E-05	<5.98E-05	<5.82E-05	<2.20E-04	<2.06E-04	<3.86E-05	<3.34E-05	<1.14E-04	<7.77E-05	<1.66E-04	<1.72E-04	<5.98E-05	<1.28E-04	<1.16E-04	<4.72E-05	<1.06E-04
T-106		<1.07E-04	<6.89E-05	<5.17E-04	<1.31E-04	<5.17E-04	<2.15E-04	<9.34E-05	<3.39E-04	<2.15E-04	<1.64E-04	<1.59E-04	<1.07E-04	<1.04E-04	<3.93E-04	<3.67E-04	<6.88E-05	<5.95E-05	<2.04E-04	<1.39E-04	<2.95E-04	<3.07E-04	<1.07E-04	<2.28E-04	<2.06E-04	<8.42E-05	<1.89E-04
T-107		<3.99E-05	<2.58E-05	<1.93E-04	<4.92E-05	<1.93E-04	<8.05E-05	<3.49E-05	<1.27E-04	<8.05E-05	<6.14E-05	<5.96E-05	<3.99E-05	<3.88E-05	<1.47E-04	<1.37E-04	<2.57E-05	<2.23E-05	<7.63E-05	<5.18E-05	<1.10E-04	<1.15E-04	<3.99E-05	<8.54E-05	<7.71E-05	<3.15E-05	<7.08E-05
T-108		<8.04E-05	<5.71E-05	0.00085	<9.90E-05	<3.99E-04	<1.66E-04	<7.04E-05	0.00071	<1.66E-04	<1.26E-04	<1.23E-04	<8.04E-05	<8.21E-05	<3.01E-04	<2.84E-04	<5.18E-05	<4.49E-05	<1.57E-04	<1.07E-04	<2.28E-04	<2.37E-04	<8.04E-05	<1.76E-04	<1.55E-04	<6.35E-05	<1.46E-04
T-109		<9.89E-05	<6.71E-05	<4.85E-04	<1.22E-04	<4.85E-04	<2.00E-04	<8.67E-05	<3.14E-04	<2.00E-04	<1.52E-04	<1.48E-04	<9.89E-05	<1.01E-04	<3.65E-04	<3.41E-04	<6.38E-05	<5.52E-05	<1.89E-04	<1.29E-04	<2.74E-04	<2.85E-04	<9.89E-05	<2.14E-04	<1.91E-04	<7.81E-05	<1.76E-04
T-110		<6.09E-05	<4.33E-05	<3.06E-04	<7.51E-05	<3.06E-04	<1.26E-04	<5.34E-05	<2.00E-04	<1.26E-04	<9.68E-05	<9.32E-05	<6.09E-05	<6.23E-05	<2.32E-04	<2.15E-04	<3.93E-05	<3.40E-05	<1.19E-04	<8.11E-05	<1.73E-04	<1.80E-04	<6.09E-05	<1.35E-04	<1.18E-04	<4.81E-05	<1.11E-04
T-111		<3.42E-05	<2.21E-05	<1.67E-04	<4.21E-05	<1.67E-04	0.00015	<2.99E-05	<1.10E-04	<7.06E-05	0.00012	<5.22E-05	<3.42E-05	<3.49E-05	<1.28E-04	<1.20E-04	<2.20E-05	<1.91E-05	<6.69E-05	<4.55E-05	<9.68E-05	<1.01E-04	<3.42E-05	<7.40E-05	<6.60E-05	<2.70E-05	<6.21E-05
T-112		<2.24E-05	<1.44E-05	<1.10E-04	<2.76E-05	<1.10E-04	<4.51E-05	<1.96E-05	<7.10E-05	<4.51E-05	<3.44E-05	<3.34E-05	<2.24E-05	<2.28E-05	<8.24E-05	<7.70E-05	<1.44E-05	<1.25E-05	<4.28E-05	<2.91E-05	<6.19E-05	<6.44E-05	<2.24E-05	<4.84E-05	<4.32E-05	<1.77E-05	<3.97E-05
T-113		<5.97E-05	<3.85E-05	<2.89E-04	<7.35E-05	<2.89E-04	<1.20E-04	<5.23E-05	<1.89E-04	<1.20E-04	<9.18E-05	<8.91E-05	<5.97E-05	<5.81E-05	<2.20E-04	<2.06E-04	<3.85E-05	<3.33E-05	<1.14E-04	<7.76E-05	<1.65E-04	<1.72E-04	<5.97E-05	<1.28E-04	<1.15E-04	<4.71E-05	<1.06E-04
T-114		<3.20E-05	<2.27E-05	<1.61E-04	<3.94E-05	<1.61E-04	<6.61E-05	<2.80E-05	<1.05E-04	<6.61E-05	<5.08E-05	<4.89E-05	<3.20E-05	<3.27E-05	<1.22E-04	<1.13E-04	<2.06E-05	<1.79E-05	<6.26E-05	<4.26E-05	<9.07E-05	<9.43E-05	<3.20E-05	<7.09E-05	<6.19E-05	<2.52E-05	<5.82E-05
T-115		<2.17E-05	<1.54E-05	<1.09E-04	<2.67E-05	<1.09E-04	0.00011	<1.90E-05	<7.11E-05	0.00010	<3.45E-05	0.00007	<2.17E-05	<2.22E-05	<8.25E-05	<7.65E-05	<1.40E-05	<1.21E-05	<4.25E-05	<2.89E-05	<6.15E-05	<6.40E-05	<2.17E-05	<4.81E-05	<4.20E-05	<1.71E-05	<3.95E-05
T-116		<2.22E-05	<1.45E-05	<1.09E-04	<2.74E-05	<1.09E-04	<4.51E-05	<1.95E-05	<7.08E-05	<4.51E-05	<3.43E-05	<3.33E-05	<2.22E-05	<2.27E-05	<8.21E-05	<7.68E-05	<1.43E-05	<1.24E-05	<4.27E-05	<2.90E-05	<6.18E-05	<6.43E-05	<2.22E-05	<4.82E-05	<4.30E-05	<1.75E-05	<3.96E-05
T-117		<1.94E-05	<1.25E-05	<9.51E-05	<2.39E-05	<9.51E-05	<4.01E-05	<1.70E-05	<6.26E-05	<4.01E-05	<3.03E-05	<2.97E-05	<1.94E-05	<1.98E-05	<7.26E-05	<6.84E-05	<1.25E-05	<1.08E-05	<3.80E-05	<2.58E-05	<5.50E-05	<5.72E-05	<1.94E-05	<4.20E-05	<3.75E-05	<1.53E-05	<3.53E-05
T-118		<1.63E-05	<1.16E-05	<8.09E-05	<2.01E-05	<8.09E-05	<3.37E-05	<1.43E-05	<5.26E-05	<3.37E-05	<2.55E-05	<2.49E-05	<1.63E-05	<1.67E-05	<6.10E-05	<5.75E-05	<1.05E-05	<9.10E-06	<3.19E-05	<2.17E-05	<4.62E-05	<4.81E-05	<1.63E-05	<3.57E-05	<3.15E-05	<1.29E-05	<2.96E-05
T-201		<5.98E-05	<4.06E-05	<3.01E-04	0.00021	<3.01E-04	<1.24E-04	<5.24E-05	<1.96E-04	<1.24E-04	<9.51E-05	<9.15E-05	<5.98E-05	<6.11E-05	<2.28E-04	<2.11E-04	<3.86E-05	<3.34E-05	<1.17E-04	<7.97E-05	<1.70E-04	<1.76E-04	<5.98E-05	<1.33E-04	<1.16E-04	<4.72E-05	<1.09E-04
T-202		<5.17E-05	<3.50E-05	<2.53E-04	<6.37E-05	<2.53E-04	<1.04E-04	<4.53E-05	<1.64E-04	<1.04E-04	<7.95E-05	<7.71E-05	<5.17E-05	<5.28E-05	<1.90E-04	<1.78E-04	<3.33E-05	<2.89E-05	<9.87E-05	<6.71E-05	<1.43E-04	<1.49E-04	<5.17E-05	<1.12E-04	<9.99E-05	<4.08E-05	<9.16E-05
T-203		<3.08E-05	<2.09E-05	0.00031	<3.80E-05	0.00036	<6.38E-05	<2.70E-05	0.00024	<6.38E-05	<4.82E-05	<4.72E-05	0.00012	<3.15E-05	<1.15E-04	<1.09E-04	<1.99E-05	<1.72E-05	<6.04E-05	<4.11E-05	<8.75E-05	<9.10E-05	<3.08E-05	<6.76E-05	<5.97E-05	<2.44E-05	<5.61E-05
T-204		<1.88E-05	<1.27E-05	<9.21E-05	<2.32E-05	<9.21E-05	<3.79E-05	<1.65E-05	<5.96E-05	<3.79E-05	<2.89E-05	<2.80E-05	<1.88E-05	<1.92E-05	<6.92E-05	<6.47E-05	<1.21E-05	<1.05E-05	<3.59E-05	<2.44E-05	<5.20E-05	<5.41E-05	<1.88E-05	<4.07E-05	<3.64E-05	<1.48E-05	<3.33E-05
T-205		<7.89E-05	<5.61E-05	<3.96E-04	<9.73E-05	<3.96E-04	<1.63E-04	<6.92E-05	<2.59E-04	<1.63E-04	<1.25E-04	<1.21E-04	<7.89E-05	<8.07E-05	<3.00E-04	<2.78E-04	<5.09E-05	<4.41E-05	<1.55E-04	<1.05E-04	<2.24E-04	<2.33E-04	<7.89E-05	<1.75E-04	<1.53E-04	<6.23E-05	<1.44E-04
T-206		0.00370	0.00185	<2.88E-04	<7.25E-05	<2.88E-04	<1.19E-04	0.00135	<1.87E-04	<1.19E-04	<9.05E-05	<8.78E-05	<5.88E-05	<6.01E-05	<2.17E-04	<2.03E-04	<3.79E-05	<3.28E-05	<1.12E-04	<7.65E-05	<1.63E-04	<1.69E-04	<5.88E-05	<1.27E-04	<1.14E-04	<4.64E-05	<1.04E-04
T-207		<7.87E-05	0.00031	<3.86E-04	<9.70E-05	<3.86E-04	0.00036	<6.90E-05	<2.54E-04	<1.63E-04	<1.23E-04	<1.20E-04	<7.87E-05	<8.05E-05	<2.95E-04	<2.78E-04	<5.08E-05	<4.40E-05	<1.54E-04	<1.05E-04	<2.23E-04	<2.32E-04	<7.87E-05	<1.71E-04	<1.52E-04	<6.22E-05	<1.43E-04
T-208		<9.51E-05	0.00018	<4.72E-04	<1.17E-04	<4.72E-04	<1.97E-04	<8.33E-05	<3.07E-04	<1.97E-04	<1.49E-04	<1.45E-04	<9.51E-05	<9.71E-05	<3.56E-04	<3.35E-04	<6.13E-05	<5.31E-05	<1.86E-04	<1.27E-04	<2.70E-04	<2.80E-04	<9.51E-05	<2.08E-04	<1.84E-04	<7.51E-05	<1.73E-04
T-209		<2.43E-05	<1.65E-05	<1.19E-04	<2.99E-05	<1.19E-04	<4.91E-05	<2.13E-05	<7.71E-05	<4.91E-05	<3.74E-05	<3.63E-05	<2.43E-05	<2.48E-05	<8.95E-05	<8.37E-05	<1.57E-05	<1.36E-05	<4.65E-05	<3.16E-05	<6.73E-05	<7.00E-05	<2.43E-05	<5.26E-05	<4.69E-05	<1.92E-05	<4.31E-05
T-210		<3.80E-05	<2.70E-05	<1.91E-04	<4.69E-05	<1.91E-04	<7.86E-05	<3.33E-05	<1.25E-04	<7.86E-05	<6.04E-05	<5.82E-05	<3.80E-05	<3.88E-05	<1.45E-04	<1.34E-04	<2.45E-05	<2.12E-05	<7.45E-05	<5.06E-05	<1.08E-04	<1.12E-04	<3.80E-05	<8.43E-05	<7.35E-05	<3.00E-05	<6.91E-05
T-211		<2.11E-05	<1.43E-05	<1.02E-04	<2.60E-05	<1.02E-04	<4.27E-05	<1.85E-05	<6.71E-05	<4.27E-05	<3.25E-05	<3.16E-05	<2.11E-05	<2.06E-05	<7.79E-05	<7.28E-05	<1.36E-05	<1.18E-05	<4.05E-05	<2.75E-05	<5.86E-05	<6.09E-05	<2.11E-05	<4.53E-05	<4.09E-05	<1.67E-05	<3.76E-05
T-212		<2.29E-05	<1.49E-05	<1.11E-04	<2.83E-05	<1.11E-04	<4.64E-05	<2.01E-05	<7.30E-05	<4.64E-05	<3.54E-05	<3.43E-05	<2.29E-05	<2.24E-05	<8.46E-05	<7.92E-05	<1.48E-05	<1.28E-05	<4.40E-05	<2.99E-05	<6.37E-05	<6.62E-05	<2.29E-05	<4.92E-05	<4.44E-05	<1.81E-05	<4.08E-05
T-213		<2.31E-05	<1.56E-05	<1.16E-04	<2.84E-05	<1.16E-04	<4.77E-05	<2.02E-05	<7.56E-05	<4.77E-05	<3.66E-05	<3.53E-05	<2.31E-05	<2.36E-05	<8.77E-05	<8.14E-05	<1.49E-05	<1.29E-05	<4.52E-05	<3.07E-05	<6.55E-05	<6.81E-05	<2.31E-05	<5.12E-05	<4.46E-05	<1.82E-05	<4.20E-05
T-214		<1.55E-05	<9.93E-06	<7.47E-05	<1.90E-05	<7.47E-05	<3.11E-05	<1.35E-05	<4.90E-05	<3.11E-05	<2.37E-05	<2.30E-05	<1.55E-05	<1.50E-05	<5.68E-05	<5.31E-05	<9.97E-06	<8.63E-06	<2.95E-05	<2.00E-05	<4.27E-05	<4.44E-05	<1.55E-05	<3.30E-05	<2.99E-05	<1.22E-05	<2.74E-05
T-215		<6.26E-05	<4.24E-05	<3.03E-04	0.00143	<3.03E-04	<1.26E-04	<5.48E-05	<1.99E-04	<1.26E-04	<9.63E-05	<9.35E-05	<6.26E-05	<6.10E-05	<2.31E-04	<2.16E-04	<4.04E-05	<3.49E-05	<1.20E-04	<8.14E-05	<1.73E-04	<1.80E-04	<6.26E-05	<1.34E-04	<1.21E-04	<4.94E-05	<1.11E-04
T-216		<2.27E-05	<1.61E-05	<1.13E-04	<2.80E-05	<1.13E-04	<4.70E-05	<1.99E-05	<7.33E-05	<4.70E-05	<3.55E-05	<3.47E-05	<2.27E-05	<2.32E-05	<8.50E-05	<8.01E-05	<1.47E-05	<1.27E-05	<4.45E-05	<3.02E-05	<6.44E-05	<6.70E-05	<2.27E-05	<4.98E-05	<4.39E-05	<1.79E-05	<4.13E-05
T-217		<2.64E-05	<1.87E-05	<1.32E-04	<3.25E-05	<1.32E-04	<5.45E-05	<2.31E-05	<8.64E-05	<5.45E-05	<4.19E-05	<4.03E-05	<2.64E-05	<2.69E-05	<1.00E-04	<9.29E-05	<1.70E-05	<1.47E-05	<5.16E-05	<3.51E-05	<7.47E-05	<7.77E-05	<2.64E-05	<5.84E-05	<5.10E-05	<2.08E-05	<4.79E-05
T-218		<3.22E-05	0.00078	<1.62E-04	0.00049	<1.62E-04	<6.66E-05	<2.82E-05	<1.06E-04	<6.66E-05	<5.12E-05	<4.93E-05	<3.22E-05	0.00008	<1.23E-04	<1.14E-04	<2.08E-05	<1.80E-05	<6.31E-05	<4.29E-05	<9.14E-05	<9.50E-05	<3.22E-05	<7.15E-05	<6.23E-05	<2.54E-05	<5.86E-05
T-301		<2.91E-05	<1.97E-05	<1.42E-04	<3.58E-05	<1.42E-04	<6.01E-05	<2.55E-05	<9.38E-05	<6.01E-05	<4.54E-05	<4.44E-05	<2.91E-05	<2.97E-05	<1.09E-04	<1.03E-04	<1.87E-05	<1.62E-05	<5.69E-05	<3.87E-05	<8.24E-05	<8.57E-05	<2.91E-05	<6.29E-05	<5.62E-05	<2.29E-05	<5.28E-05
T-302		<3.88E-05	<2.63E-05	<1.90E-04	<4.78E-05	<1.90E-04	<8.02E-05	<3.40E-05	<1.25E-04	<8.02E-05	<6.06E-05	<5.93E-05	<3.88E-05	<3.96E-05	<1.45E-04	<1.37E-04	<2.50E-05	<2.16E-05	<7.59E-05	<5.16E-05	<1.10E-04	<1.14E-04	<3.88E-05	<8.39E-05	<7.50E-05	<3.06E-05	<7.05E-05
T-303		<4.20E-05	<2.85E-05	<2.11E-04	<5.17E-05	<2.11E-04	<8.68E-05	<3.68E-05	<1.38E-04	<8.68E-05	<6.67E-05	<6.42E-05	<4.20E-05	<4.29E-05	<1.60E-04	<1.48E-04	<2.71E-05	<2.34E-05	<8.22E-05	<5.59E-05	<1.19E-04	<1.24E-04	<4.20E-05	<9.31E-05	<8.12E-05	<3.31E-05	<7.63E-05
T-304		<3.39E-05	<2.30E-05	<1.70E-04	<4.17E-05	<1.70E-04	<7.00E-05	<2.97E-05	<1.11E-04	<7.00E-05	<5.38E-05	<5.18E-05	<3.39E-05	<3.46E-05	<1.29E-04	<1.19E-04	<2.18E-05	<1.89E-05	<6.63E-05	<4.51E-05	<9.60E-05	<9.98E-05	<3.39E-05	<7.51E-05	<6.55E-05	<2.67E-05	<6.16E-05
T-305		<5.49E-05	0.00020	<2.69E-04	<6.77E-05	<2.69E-04	0.00041	<4.81E-05	<1.77E-04	<1.14E-04	<8.59E-05	<8.40E-05	<5.49E-05	<5.61E-05	<2.06E-04	<1.94E-04	<3.54E-05	<3.07E-05	<1.08E-04	<7.31E-05	<1.56E-04	<1.62E-04	<5.49E-05	<1.19E-04	<1.06E-04	<4.34E-05	<9.99E-05
T-306		<3.96E-05	<2.68E-05	<1.99E-04	0.00014	<1.99E-04	<8.19E-05	<3.47E-05	<1.30E-04	<8.19E-05	<6.29E-05	<6.05E-05	<3.96E-05	<4.04E-05	<1.51E-04	<1.40E-04	<2.55E-05	<2.21E-05	<7.75E-05	<5.27E-05	<1.12E-04	<1.17E-04	<3.96E-05	<8.79E-05	<7.66E-05	<3.13E-05	<7.20E-05
T-307		<4.05E-05	<2.75E-05	<2.04E-04	<5.00E-05	<2.04E-04	<8.59E-05	<3.55E-05	<1.33E-04	<8.59E-05	<6.44E-05	<6.36E-05	<4.05E-05	<4.14E-05	<1.54E-04	<1.47E-04	<2.61E-05	<2.26E-05	<8.14E-05	<5.53E-05	<1.18E-04	<1.23E-04	<4.05E-05	<9.00E-05	<7.84E-05	<3.20E-05	<7.56E-05
T-308		<4.53E-05	<3.07E-05	<2.28E-04	<5.58E-05	<2.28E-04	<9.60E-05	<3.97E-05	<1.49E-04	<9.60E-05	<7.20E-05	<7.10E-05	<4.53E-05	<4.63E-05	<1.72E-04	<1.64E-04	<2.92E-05	<2.53E-05	<9.09E-05	<6.18E-05	<1.32E-04	<1.37E-04	<4.53E-05	<1.01E-04	<8.76E-05	<3.58E-05	<8.44E-05
T-309		<4.80E-05	<3.25E-05	<2.41E-04	<5.91E-05	<2.41E-04	<9.93E-05	<4.20E-05	<1.57E-04	<9.93E-05	<7.63E-05	<7.34E-05	<4.80E-05	<4.90E-05	<1.83E-04	<1.69E-04	<3.10E-05	<2.68E-05	<9.40E-05	<6.39E-05	<1.36E-04	<1.42E-04	<4.80E-05	<1.07E-04	<9.28E-05	<3.79E-05	<8.73E-05
T-310		<1.73E-05	<1.17E-05	<8.39E-05	<2.13E-05	<8.39E-05	<3.50E-05	<1.52E-05	<5.50E-05	<3.50E-05	<2.66E-05	<2.59E-05	<1.73E-05	<1.69E-05	<6.38E-05	<5.96E-05	<1.12E-05	<9.66E-06	<3.31E-05	<2.25E-05	<4.80E-05	<4.99E-05	<1.73E-05	<3.71E-05	<3.35E-05	<1.37E-05	<3.07E-05
T-311		<1.05E-04	<7.48E-05	<5.28E-04	<1.30E-04	<5.28E-04	<2.23E-04	<9.22E-05	<3.45E-04	<2.23E-04	<1.67E-04	<1.65E-04	<1.05E-04	<1.08E-04	<4.00E-04	<3.80E-04	<6.79E-05	<5.88E-05	<2.11E-04	<1.43E-04	<3.06E-04	<3.18E-04	<1.05E-04	<2.33E-04	<2.04E-04	<8.31E-05	<1.96E-04
T-312		<7.69E-05	<5.22E-05	<3.86E-04	<9.48E-05	<3.86E-04	<1.59E-04	<6.74E-05	<2.52E-04	0.00041	<1.22E-04	<1.18E-04	<7.69E-05	<7.86E-05	<2.92E-04	<2.71E-04	<4.96E-05	<4.30E-05	<1.51E-04	<1.02E-04	<2.18E-04	<2.27E-04	<7.69E-05	<1.71E-04	<1.49E-04	<6.07E-05	<1.40E-04
T-313		<8.56E-05	<5.53E-05	<4.20E-04	<1.05E-04	<4.20E-04	0.00051	<7.50E-05	<2.76E-04	<1.77E-04	<1.34E-04	<1.31E-04	<8.56E-05	<8.74E-05	<3.20E-04	<3.02E-04	<5.52E-05	<4.78E-05	<1.68E-04	<1.14E-04	<2.43E-04	<2.52E-04	<8.56E-05	<1.85E-04	<1.66E-04	<6.76E-05	<1.56E-04
T-314		<8.73E-05	<5.64E-05	0.00318	<1.08E-04	0.00231	<1.81E-04	<7.65E-05	<2.82E-04	<1.81E-04	<1.37E-04	<1.34E-04	<8.73E-05	<8.92E-05	<3.27E-04	<3.08E-04	<5.63E-05	<4.88E-05	<1.71E-04	<1.16E-04	<2.48E-04	<2.58E-04	<8.73E-05	<1.89E-04	<1.69E-04	<6.89E-05	<1.59E-04

Table 3
TO-15 Compounds

Sample Number / Complound	Propionitrile	Ethyl tert butyl ether	Vinyl acetate	Diisopropyl ether	Methacrylonitrile	Bromochloromethane	Methyl acrylate	Isobutyl alcohol	2,2-Dichloropropane	1,1,1-Trichloroethane	1,1-Dichloropropene	Carbon tetrachloride	t-Amyl methyl ether	1,2-Dichloropropane	1,4 Dioxane	Dibromomethane	Bromodichloromethane	Methyl methacrylate	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	1,1,2-Trichloroethane	Ethyl methacrylate	1,3-Dichloropropane	Dibromochloromethane	1,2-Dibromoethane (EDB)	Chlorobenzene
CAS	107-12-0	637-92-3	108-05-4	108-20-3	126-98-7	74-97-5	96-33-3	78-83-1	594-20-7	71-55-6	563-58-6	56-23-5	994-05-8	78-87-5	123-91-1	74-95-3	75-27-4	80-62-6	10061-01-5	10061-02-6	79-00-5	97-63-2	142-28-9	124-48-1	106-93-4	108-90-7
MW	55.10	102.20	86.10	102.20	67.10	129.40	86.10	74.10	113.00	133.40	111.00	153.80	102.20	113.00	88.10	173.83	163.80	100.10	111.00	111.00	133.40	114.20	113.00	208.30	187.90	112.60
Lab Data (ppbv)																										
T-101	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-102	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-103	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-104	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-105	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-106	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-107	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-108	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-109	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-111	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-112	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-113	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-114	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-115	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-116	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-117	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-118	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-201	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-202	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-203	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-204	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-205	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-206	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-207	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-208	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-209	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-210	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-211	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-212	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-213	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-214	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-215	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-216	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-217	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-218	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-301	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-302	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-303	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-304	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-305	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-306	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-307	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-308	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-309	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-310	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-311	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-312	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-313	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-314	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3
TO-15 Compounds

Sample Number / Compound	Propionitrile	Ethyl tert butyl ether	Vinyl acetate	Diisopropyl ether	Methacrylonitrile	Bromochloromethane	Methyl acrylate	Isobutyl alcohol	2,2-Dichloropropane	1,1,1-Trichloroethane	1,1-Dichloropropene	Carbon tetrachloride	t-Amyl methyl ether	1,2-Dichloropropane	1,4 Dioxane	Dibromomethane	Bromodichloromethane	Methyl methacrylate	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	1,1,2-Trichloroethane	Ethyl methacrylate	1,3-Dichloropropane	Dibromochloromethane	1,2-Dibromoethane (EDB)	Chlorobenzene
CAS	107-12-0	637-92-3	108-05-4	108-20-3	126-98-7	74-97-5	96-33-3	78-83-1	594-20-7	71-55-6	563-58-6	56-23-5	994-05-8	78-87-5	123-91-1	74-95-3	75-27-4	80-62-6	10061-01-5	10061-02-6	79-00-5	97-63-2	142-28-9	124-48-1	106-93-4	108-90-7
MW	55.10	102.20	86.10	102.20	67.10	129.40	86.10	74.10	113.00	133.40	111.00	153.80	102.20	113.00	88.10	173.83	163.80	100.10	111.00	111.00	133.40	114.20	113.00	208.30	187.90	112.60
MDL (ppbv)																										
T-101	1	0.4	0.2	0.4	0.4	0.2	0.4	0.8	0.2	0.2	0.2	0.2	0.4	0.2	0.4	0.2	0.2	0.4	0.2	0.2	0.2	0.4	0.2	0.4	0.4	0.4
T-102	1.03	0.41	0.21	0.41	0.41	0.21	0.41	0.83	0.21	0.21	0.21	0.21	0.41	0.21	0.41	0.21	0.21	0.41	0.21	0.21	0.21	0.41	0.21	0.41	0.41	0.41
T-103	1	0.4	0.2	0.4	0.4	0.2	0.4	0.8	0.2	0.2	0.2	0.2	0.4	0.2	0.4	0.2	0.2	0.4	0.2	0.2	0.2	0.4	0.2	0.4	0.4	0.4
T-104	1.09	0.44	0.22	0.44	0.44	0.22	0.44	0.87	0.22	0.22	0.22	0.22	0.44	0.22	0.44	0.22	0.22	0.44	0.22	0.22	0.22	0.44	0.22	0.44	0.44	0.44
T-105	1.03	0.41	0.21	0.41	0.41	0.21	0.41	0.82	0.21	0.21	0.21	0.21	0.41	0.21	0.41	0.21	0.21	0.41	0.21	0.21	0.21	0.41	0.21	0.41	0.41	0.41
T-106	1.03	0.41	0.21	0.41	0.41	0.21	0.41	0.82	0.21	0.21	0.21	0.21	0.41	0.21	0.41	0.21	0.21	0.41	0.21	0.21	0.21	0.41	0.21	0.41	0.41	0.41
T-107	1.03	0.41	0.21	0.41	0.41	0.21	0.41	0.82	0.21	0.21	0.21	0.21	0.41	0.21	0.41	0.21	0.21	0.41	0.21	0.21	0.21	0.41	0.21	0.41	0.41	0.41
T-108	1.05	0.42	0.21	0.42	0.42	0.21	0.42	0.84	0.21	0.21	0.21	0.21	0.42	0.21	0.42	0.21	0.21	0.42	0.21	0.21	0.21	0.42	0.21	0.42	0.42	0.42
T-109	1.08	0.43	0.22	0.43	0.43	0.22	0.43	0.87	0.22	0.22	0.22	0.22	0.43	0.22	0.43	0.22	0.22	0.43	0.22	0.22	0.22	0.43	0.22	0.43	0.43	0.43
T-110	1.06	0.42	0.21	0.42	0.42	0.21	0.42	0.85	0.21	0.21	0.21	0.21	0.42	0.21	0.42	0.21	0.21	0.42	0.21	0.21	0.21	0.42	0.21	0.42	0.42	0.42
T-111	1.04	0.42	0.21	0.42	0.42	0.21	0.42	0.83	0.21	0.21	0.21	0.21	0.42	0.21	0.42	0.21	0.21	0.42	0.21	0.21	0.21	0.42	0.21	0.42	0.42	0.42
T-112	1.03	0.41	0.21	0.41	0.41	0.21	0.41	0.83	0.21	0.21	0.21	0.21	0.41	0.21	0.41	0.21	0.21	0.41	0.21	0.21	0.21	0.41	0.21	0.41	0.41	0.41
T-113	1.03	0.41	0.21	0.41	0.41	0.21	0.41	0.82	0.21	0.21	0.21	0.21	0.41	0.21	0.41	0.21	0.21	0.41	0.21	0.21	0.21	0.41	0.21	0.41	0.41	0.41
T-114	1.06	0.42	0.21	0.42	0.42	0.21	0.42	0.85	0.21	0.21	0.21	0.21	0.42	0.21	0.42	0.21	0.21	0.42	0.21	0.21	0.21	0.42	0.21	0.42	0.42	0.42
T-115	1.06	0.42	0.21	0.42	0.42	0.21	0.42	0.85	0.21	0.21	0.21	0.21	0.42	0.21	0.42	0.21	0.21	0.42	0.21	0.21	0.21	0.42	0.21	0.42	0.42	0.42
T-116	1.23	0.49	0.25	0.49	0.49	0.25	0.49	0.99	0.25	0.25	0.25	0.25	0.49	0.25	0.49	0.25	0.25	0.49	0.25	0.25	0.25	0.49	0.25	0.49	0.49	0.49
T-117	1.04	0.42	0.21	0.42	0.42	0.21	0.42	0.83	0.21	0.21	0.21	0.21	0.42	0.21	0.42	0.21	0.21	0.42	0.21	0.21	0.21	0.42	0.21	0.42	0.42	0.42
T-118	0.95	0.38	0.19	0.38	0.38	0.19	0.38	0.76	0.19	0.19	0.19	0.19	0.38	0.19	0.38	0.19	0.19	0.38	0.19	0.19	0.19	0.38	0.19	0.38	0.38	0.38
T-201	1.01	0.4	0.2	0.4	0.4	0.2	0.4	0.81	0.2	0.2	0.2	0.2	0.4	0.2	0.4	0.2	0.2	0.4	0.2	0.2	0.2	0.4	0.2	0.4	0.4	0.4
T-202	0.98	0.39	0.2	0.39	0.39	0.2	0.39	0.79	0.2	0.2	0.2	0.2	0.39	0.2	0.39	0.2	0.2	0.39	0.2	0.2	0.2	0.39	0.2	0.39	0.39	0.39
T-203	1	0.4	0.2	0.4	0.4	0.2	0.4	0.8	0.2	0.2	0.2	0.2	0.4	0.2	0.4	0.2	0.2	0.4	0.2	0.2	0.2	0.4	0.2	0.4	0.4	0.4
T-204	0.98	0.39	0.2	0.39	0.39	0.2	0.39	0.79	0.2	0.2	0.2	0.2	0.39	0.2	0.39	0.2	0.2	0.39	0.2	0.2	0.2	0.39	0.2	0.39	0.39	0.39
T-205	1.06	0.42	0.21	0.42	0.42	0.21	0.42	0.85	0.21	0.21	0.21	0.21	0.42	0.21	0.42	0.21	0.21	0.42	0.21	0.21	0.21	0.42	0.21	0.42	0.42	0.42
T-206	1.03	0.41	0.21	0.41	0.41	0.21	0.41	0.83	0.21	0.21	0.21	0.21	0.41	0.21	0.41	0.21	0.21	0.41	0.21	0.21	0.21	0.41	0.21	0.41	0.41	0.41
T-207	1.09	0.44	0.22	0.44	0.44	0.22	0.44	0.87	0.22	0.22	0.22	0.22	0.44	0.22	0.44	0.22	0.22	0.44	0.22	0.22	0.22	0.44	0.22	0.44	0.44	0.44
T-208	1.05	0.42	0.21	0.42	0.42	0.21	0.42	0.84	0.21	0.21	0.21	0.21	0.42	0.21	0.42	0.21	0.21	0.42	0.21	0.21	0.21	0.42	0.21	0.42	0.42	0.42
T-209	1.08	0.43	0.22	0.43	0.43	0.22	0.43	0.87	0.22	0.22	0.22	0.22	0.43	0.22	0.43	0.22	0.22	0.43	0.22	0.22	0.22	0.43	0.22	0.43	0.43	0.43
T-210	1.06	0.42	0.21	0.42	0.42	0.21	0.42	0.85	0.21	0.21	0.21	0.21	0.42	0.21	0.42	0.21	0.21	0.42	0.21	0.21	0.21	0.42	0.21	0.42	0.42	0.42
T-211	1.08	0.43	0.22	0.43	0.43	0.22	0.43	0.86	0.22	0.22	0.22	0.22	0.43	0.22	0.43	0.22	0.22	0.43	0.22	0.22	0.22	0.43	0.22	0.43	0.43	0.43
T-212	1.13	0.45	0.23	0.45	0.45	0.23	0.45	0.9	0.23	0.23	0.23	0.23	0.45	0.23	0.45	0.23	0.23	0.45	0.23	0.23	0.23	0.45	0.23	0.45	0.45	0.45
T-213	1.11	0.44	0.22	0.44	0.44	0.22	0.44	0.89	0.22	0.22	0.22	0.22	0.44	0.22	0.44	0.22	0.22	0.44	0.22	0.22	0.22	0.44	0.22	0.44	0.44	0.44
T-214	0.93	0.37	0.19	0.37	0.37	0.19	0.37	0.74	0.19	0.19	0.19	0.19	0.37	0.19	0.37	0.19	0.19	0.37	0.19	0.19	0.19	0.37	0.19	0.37	0.37	0.37
T-215	1.08	0.43	0.22	0.43	0.43	0.22	0.43	0.86	0.22	0.22	0.22	0.22	0.43	0.22	0.43	0.22	0.22	0.43	0.22	0.22	0.22	0.43	0.22	0.43	0.43	0.43
T-216	1.15	0.46	0.23	0.46	0.46	0.23	0.46	0.92	0.23	0.23	0.23	0.23	0.46	0.23	0.46	0.23	0.23	0.46	0.23	0.23	0.23	0.46	0.23	0.46	0.46	0.46
T-217	1.06	0.42	0.21	0.42	0.42	0.21	0.42	0.85	0.21	0.21	0.21	0.21	0.42	0.21	0.42	0.21	0.21	0.42	0.21	0.21	0.21	0.42	0.21	0.42	0.42	0.42
T-218	1.06	0.42	0.21	0.42	0.42	0.21	0.42	0.85	0.21	0.21	0.21	0.21	0.42	0.21	0.42	0.21	0.21	0.42	0.21	0.21	0.21	0.42	0.21	0.42	0.42	0.42
T-301	0.99	0.4	0.2	0.4	0.4	0.2	0.4	0.79	0.2	0.2	0.2	0.2	0.4	0.2	0.4	0.2	0.2	0.4	0.2	0.2	0.2	0.4	0.2	0.4	0.4	0.4
T-302	0.99	0.4	0.2	0.4	0.4	0.2	0.4	0.79	0.2	0.2	0.2	0.2	0.4	0.2	0.4	0.2	0.2	0.4	0.2	0.2	0.2	0.4	0.2	0.4	0.4	0.4
T-303	1.01	0.4	0.2	0.4	0.4	0.2	0.4	0.81	0.2	0.2	0.2	0.2	0.4	0.2	0.4	0.2	0.2	0.4	0.2	0.2	0.2	0.4	0.2	0.4	0.4	0.4
T-304	1.01	0.4	0.2	0.4	0.4	0.2	0.4	0.81	0.2	0.2	0.2	0.2	0.4	0.2	0.4	0.2	0.2	0.4	0.2	0.2	0.2	0.4	0.2	0.4	0.4	0.4
T-305	1.04	0.42	0.21	0.42	0.42	0.21	0.42	0.83	0.21	0.21	0.21	0.21	0.42	0.21	0.42	0.21	0.21	0.42	0.21	0.21	0.21	0.42	0.21	0.42	0.42	0.42
T-306	1.01	0.4	0.2	0.4	0.4	0.2	0.4	0.81	0.2	0.2	0.2	0.2	0.4	0.2	0.4	0.2	0.2	0.4	0.2	0.2	0.2	0.4	0.2	0.4	0.4	0.4
T-307	1.02	0.41	0.2	0.41	0.41	0.2	0.41	0.81	0.2	0.2	0.2	0.2	0.41	0.2	0.41	0.2	0.2	0.41	0.2	0.2	0.2	0.41	0.2	0.41	0.41	0.41
T-308	1.02	0.41	0.2	0.41	0.41	0.2	0.41	0.81	0.2	0.2	0.2	0.2	0.41	0.2	0.41	0.2	0.2	0.41	0.2	0.2	0.2	0.41	0.2	0.41	0.41	0.41
T-309	1.01	0.4	0.2	0.4	0.4	0.2	0.4	0.81	0.2	0.2	0.2	0.2	0.4	0.2	0.4	0.2	0.2	0.4	0.2	0.2	0.2	0.4	0.2	0.4	0.4	0.4
T-310	1.08	0.43	0.22	0.43	0.43	0.22	0.43	0.86	0.22	0.22	0.22	0.22	0.43	0.22	0.43	0.22	0.22	0.43	0.22	0.22	0.22	0.43	0.22	0.43	0.43	0.43
T-311	1.07	0.43	0.21	0.43	0.43	0.21	0.43	0.85	0.21	0.21	0.21	0.21	0.43	0.21	0.43	0.21	0.21	0.43	0.21	0.21	0.21	0.43	0.21	0.43	0.43	0.43
T-312	1.11	0.44	0.22	0.44	0.44	0.22	0.44	0.89	0.22	0.22	0.22	0.22	0.44	0.22	0.44	0.22	0.22	0.44	0.22	0.22	0.22	0.44	0.22	0.44	0.44	0.44
T-313	1.04	0.42	0.21	0.42	0.42	0.21	0.42	0.83	0.21	0.21	0.21	0.21	0.42	0.21	0.42	0.21	0.21	0.42	0.21	0.21	0.21	0.42	0.21	0.42	0.42	0.42
T-314	1.04	0.42	0.21	0.42	0.42	0.21	0.42	0.83	0.21	0.21	0.21	0.21	0.42	0.21	0.42	0.21	0.21	0.42	0.21	0.21	0.21	0.42	0.21	0.42	0.42	0.42

Table 3
TO-15 Compounds

Sample Number / Compound	Propionitrile	Ethyl tert butyl ether	Vinyl acetate	Diisopropyl ether	Methacrylonitrile	Bromochloromethane	Methyl acrylate	Isobutyl alcohol	2,2-Dichloropropane	1,1,1-Trichloroethane	1,1-Dichloropropene	Carbon tetrachloride	t-Amyl methyl ether	1,2-Dichloropropane	1,4 Dioxane	Dibromomethane	Bromodichloromethane	Methyl methacrylate	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	1,1,2-Trichloroethane	Ethyl methacrylate	1,3-Dichloropropane	Dibromochloromethane	1,2-Dibromoethane (EDB)	Chlorobenzene
CAS	107-12-0	637-92-3	108-05-4	108-20-3	126-98-7	74-97-5	96-33-3	78-83-1	594-20-7	71-55-6	563-58-6	56-23-5	994-05-8	78-87-5	123-91-1	74-95-3	75-27-4	80-62-6	10061-01-5	10061-02-6	79-00-5	97-63-2	142-28-9	124-48-1	106-93-4	108-90-7
MW	55.10	102.20	86.10	102.20	67.10	129.40	86.10	74.10	113.00	133.40	111.00	153.80	102.20	113.00	88.10	173.83	163.80	100.10	111.00	111.00	133.40	114.20	113.00	208.30	187.90	112.60
Data Used (ug/l)																										
T-101	1.17	0.87	0.37	0.87	0.57	0.55	0.73	1.26	0.48	0.57	0.47	0.65	0.87	0.48	0.75	0.74	0.70	0.85	0.47	0.47	0.57	0.97	0.48	1.77	1.60	0.96
T-102	1.21	0.89	0.39	0.89	0.59	0.58	0.75	1.31	0.51	0.60	0.50	0.69	0.89	0.51	0.77	0.78	0.73	0.88	0.50	0.50	0.60	1.00	0.51	1.82	1.64	0.99
T-103	1.16	0.86	0.36	0.86	0.57	0.55	0.73	1.25	0.48	0.56	0.47	0.65	0.86	0.48	0.74	0.73	0.69	0.85	0.47	0.47	0.56	0.96	0.48	1.76	1.59	0.95
T-104	1.27	0.95	0.40	0.95	0.63	0.60	0.80	1.37	0.53	0.62	0.52	0.72	0.95	0.53	0.82	0.81	0.76	0.93	0.52	0.52	0.62	1.07	0.53	1.95	1.76	1.05
T-105	1.18	0.87	0.37	0.87	0.57	0.56	0.73	1.26	0.49	0.58	0.48	0.67	0.87	0.49	0.75	0.76	0.71	0.85	0.48	0.48	0.58	0.97	0.49	1.77	1.60	0.96
T-106	1.19	0.88	0.38	0.88	0.58	0.57	0.74	1.28	0.50	0.59	0.49	0.68	0.88	0.50	0.76	0.77	0.72	0.86	0.49	0.49	0.59	0.98	0.50	1.79	1.62	0.97
T-107	1.17	0.86	0.37	0.86	0.57	0.56	0.73	1.25	0.49	0.58	0.48	0.67	0.86	0.49	0.74	0.75	0.71	0.85	0.48	0.48	0.58	0.96	0.49	1.76	1.59	0.95
T-108	1.20	0.89	0.38	0.89	0.58	0.56	0.75	1.29	0.49	0.58	0.48	0.67	0.89	0.49	0.77	0.76	0.71	0.87	0.48	0.48	0.58	1.00	0.49	1.82	1.64	0.98
T-109	1.23	0.91	0.39	0.91	0.60	0.59	0.77	1.34	0.52	0.61	0.51	0.70	0.91	0.52	0.79	0.79	0.75	0.89	0.51	0.51	0.61	1.02	0.52	1.86	1.68	1.00
T-110	1.19	0.88	0.37	0.88	0.57	0.55	0.74	1.28	0.48	0.57	0.48	0.66	0.88	0.48	0.75	0.74	0.70	0.86	0.48	0.48	0.57	0.98	0.48	1.78	1.61	0.96
T-111	1.18	0.88	0.37	0.88	0.58	0.56	0.74	1.26	0.49	0.58	0.48	0.66	0.88	0.49	0.76	0.75	0.71	0.86	0.48	0.48	0.58	0.99	0.49	1.80	1.62	0.97
T-112	1.15	0.85	0.37	0.85	0.56	0.55	0.72	1.25	0.48	0.57	0.47	0.66	0.85	0.48	0.73	0.74	0.70	0.83	0.47	0.47	0.57	0.95	0.48	1.73	1.56	0.94
T-113	1.16	0.86	0.37	0.86	0.56	0.56	0.72	1.24	0.48	0.57	0.48	0.66	0.86	0.48	0.74	0.75	0.70	0.84	0.48	0.48	0.57	0.96	0.48	1.75	1.57	0.94
T-114	1.20	0.88	0.37	0.88	0.58	0.56	0.74	1.29	0.49	0.57	0.48	0.66	0.88	0.49	0.76	0.75	0.71	0.86	0.48	0.48	0.57	0.98	0.49	1.79	1.62	0.97
T-115	1.20	0.88	0.37	0.88	0.58	0.56	0.74	1.29	0.49	0.57	0.48	0.66	0.88	0.49	0.76	0.75	0.71	0.86	0.48	0.48	0.57	0.98	0.49	1.79	1.62	0.97
T-116	1.38	1.02	0.44	1.02	0.67	0.66	0.86	1.50	0.58	0.68	0.57	0.78	1.02	0.58	0.88	0.89	0.84	1.00	0.57	0.57	0.68	1.14	0.58	2.08	1.88	1.13
T-117	1.17	0.88	0.37	0.88	0.57	0.55	0.74	1.25	0.48	0.57	0.48	0.66	0.88	0.48	0.75	0.74	0.70	0.86	0.48	0.48	0.57	0.98	0.48	1.78	1.61	0.96
T-118	1.07	0.80	0.34	0.80	0.52	0.50	0.67	1.16	0.44	0.52	0.43	0.60	0.80	0.44	0.69	0.68	0.64	0.78	0.43	0.43	0.52	0.89	0.44	1.62	1.46	0.88
T-201	1.19	0.87	0.37	0.87	0.57	0.55	0.74	1.28	0.48	0.57	0.47	0.66	0.87	0.48	0.75	0.74	0.70	0.85	0.47	0.47	0.57	0.98	0.48	1.78	1.60	0.96
T-202	1.14	0.84	0.36	0.84	0.55	0.55	0.71	1.24	0.48	0.56	0.47	0.65	0.84	0.48	0.73	0.74	0.69	0.83	0.47	0.47	0.56	0.94	0.48	1.72	1.55	0.93
T-203	1.17	0.87	0.37	0.87	0.57	0.55	0.73	1.26	0.48	0.57	0.47	0.65	0.87	0.48	0.75	0.74	0.70	0.85	0.47	0.47	0.57	0.97	0.48	1.77	1.60	0.96
T-204	1.14	0.84	0.36	0.84	0.55	0.55	0.71	1.24	0.48	0.57	0.47	0.65	0.84	0.48	0.73	0.74	0.69	0.83	0.47	0.47	0.57	0.94	0.48	1.72	1.55	0.93
T-205	1.20	0.88	0.37	0.88	0.58	0.56	0.74	1.29	0.49	0.57	0.48	0.66	0.88	0.49	0.76	0.75	0.70	0.86	0.48	0.48	0.57	0.98	0.49	1.79	1.62	0.97
T-206	1.18	0.87	0.38	0.87	0.57	0.56	0.73	1.28	0.49	0.58	0.48	0.67	0.87	0.49	0.75	0.76	0.71	0.85	0.48	0.48	0.58	0.97	0.49	1.77	1.60	0.96
T-207	1.19	0.89	0.38	0.89	0.59	0.57	0.75	1.28	0.49	0.58	0.49	0.67	0.89	0.49	0.77	0.76	0.72	0.88	0.49	0.49	0.58	1.00	0.49	1.82	1.64	0.99
T-208	1.17	0.87	0.37	0.87	0.57	0.55	0.73	1.26	0.48	0.57	0.47	0.66	0.87	0.48	0.75	0.74	0.70	0.85	0.47	0.47	0.57	0.97	0.48	1.77	1.60	0.96
T-209	1.20	0.88	0.38	0.88	0.58	0.57	0.74	1.30	0.50	0.59	0.49	0.68	0.88	0.50	0.76	0.77	0.72	0.87	0.49	0.49	0.59	0.99	0.50	1.80	1.62	0.97
T-210	1.18	0.87	0.37	0.87	0.57	0.55	0.73	1.27	0.48	0.57	0.47	0.65	0.87	0.48	0.75	0.74	0.70	0.85	0.47	0.47	0.57	0.97	0.48	1.77	1.60	0.96
T-211	1.19	0.88	0.38	0.88	0.58	0.57	0.74	1.28	0.50	0.59	0.49	0.68	0.88	0.50	0.76	0.77	0.72	0.86	0.49	0.49	0.59	0.98	0.50	1.79	1.62	0.97
T-212	1.26	0.93	0.40	0.93	0.61	0.60	0.78	1.35	0.53	0.62	0.52	0.71	0.93	0.53	0.80	0.81	0.76	0.91	0.52	0.52	0.62	1.04	0.53	1.89	1.71	1.02
T-213	1.24	0.91	0.38	0.91	0.60	0.58	0.77	1.33	0.50	0.59	0.49	0.68	0.91	0.50	0.78	0.77	0.73	0.89	0.49	0.49	0.59	1.02	0.50	1.85	1.67	1.00
T-214	1.05	0.78	0.34	0.78	0.51	0.50	0.65	1.12	0.44	0.52	0.43	0.60	0.78	0.44	0.67	0.68	0.64	0.76	0.43	0.43	0.52	0.87	0.44	1.58	1.43	0.85
T-215	1.16	0.86	0.37	0.86	0.56	0.55	0.72	1.24	0.48	0.57	0.48	0.66	0.86	0.48	0.74	0.74	0.70	0.84	0.48	0.48	0.57	0.96	0.48	1.74	1.57	0.94
T-216	1.26	0.94	0.40	0.94	0.62	0.59	0.79	1.36	0.52	0.61	0.51	0.71	0.94	0.52	0.81	0.80	0.75	0.92	0.51	0.51	0.61	1.05	0.52	1.91	1.72	1.03
T-217	1.17	0.86	0.36	0.86	0.57	0.55	0.73	1.27	0.48	0.56	0.47	0.65	0.86	0.48	0.74	0.73	0.69	0.85	0.47	0.47	0.56	0.96	0.48	1.76	1.59	0.95
T-218	1.13	0.83	0.35	0.83	0.55	0.53	0.70	1.22	0.46	0.54	0.45	0.63	0.83	0.46	0.72	0.71	0.67	0.82	0.45	0.45	0.54	0.93	0.46	1.70	1.53	0.92
T-301	1.18	0.88	0.37	0.88	0.58	0.56	0.74	1.26	0.49	0.58	0.48	0.66	0.88	0.49	0.76	0.75	0.71	0.86	0.48	0.48	0.58	0.98	0.49	1.80	1.62	0.97
T-302	1.17	0.88	0.37	0.88	0.58	0.56	0.74	1.26	0.49	0.57	0.48	0.66	0.88	0.49	0.76	0.75	0.70	0.86	0.48	0.48	0.57	0.98	0.49	1.79	1.61	0.97
T-303	1.20	0.88	0.37	0.88	0.58	0.56	0.74	1.29	0.49	0.58	0.48	0.66	0.88	0.49	0.76	0.75	0.71	0.86	0.48	0.48	0.58	0.98	0.49	1.80	1.62	0.97
T-304	1.19	0.88	0.37	0.88	0.58	0.55	0.74	1.29	0.48	0.57	0.48	0.66	0.88	0.48	0.76	0.75	0.70	0.86	0.48	0.48	0.57	0.98	0.48	1.79	1.61	0.97
T-305	1.16	0.87	0.37	0.87	0.57	0.55	0.73	1.25	0.48	0.57	0.47	0.66	0.87	0.48	0.75	0.74	0.70	0.85	0.47	0.47	0.57	0.97	0.48	1.77	1.60	0.96
T-306	1.14	0.84	0.35	0.84	0.55	0.53	0.71	1.23	0.46	0.55	0.46	0.63	0.84	0.46	0.72	0.71	0.67	0.82	0.46	0.46	0.55	0.94	0.46	1.71	1.54	0.93
T-307	1.16	0.87	0.36	0.87	0.57	0.53	0.73	1.24	0.47	0.55	0.46	0.64	0.87	0.47	0.75	0.72	0.68	0.85	0.46	0.46	0.55	0.97	0.47	1.77	1.59	0.95
T-308	1.15	0.86	0.35	0.86	0.56	0.53	0.72	1.23	0.46	0.55	0.45	0.63	0.86	0.46	0.74	0.71	0.67	0.84	0.45	0.45	0.55	0.96	0.46	1.75	1.58	0.95
T-309	1.14	0.84	0.35	0.84	0.55	0.53	0.71	1.23	0.46	0.55	0.45	0.63	0.84	0.46	0.72	0.71	0.67	0.82	0.45	0.45	0.55	0.94	0.46	1.71	1.54	0.92
T-310	1.22	0.90	0.39	0.90	0.59	0.58	0.76	1.31	0.51	0.60	0.50	0.69	0.90	0.51	0.78	0.78	0.74	0.88	0.50	0.50	0.60	1.01	0.51	1.84	1.66	0.99
T-311	1.16	0.86	0.35	0.86	0.57	0.53	0.73	1.24	0.47	0.55	0.46	0.63	0.86	0.47	0.74	0.72	0.68	0.85	0.46	0.46	0.55	0.96	0.47	1.76	1.59	0.95
T-312	1.22	0.90	0.38	0.90	0.59	0.57	0.76	1.32	0.50	0.59	0.49	0.68	0.90	0.50	0.77	0.76	0.72	0.88	0.49	0.49	0.59	1.00	0.50	1.83	1.65	0.99
T-313	1.11	0.83	0.35	0.83	0.55	0.53	0.70	1.19	0.46	0.54	0.45	0.63	0.83	0.46	0.72	0.71	0.67	0.81	0.45	0.45	0.54	0.93	0.46	1.69	1.53	0.92
T-314	1.12	0.84	0.35	0.84	0.55	0.53	0.71	1.20	0.46	0.55	0.46	0.63	0.84	0.46	0.72	0.71	0.67	0.82	0.46	0.46	0.55	0.94	0.46	1.71	1.54	0.92

Table 3
TO-15 Compounds

Sample Number	Compound	Propionitrile	Ethyl tert butyl ether	Vinyl acetate	Diisopropyl ether	Methacrylonitrile	Bromochloromethane	Methyl acrylate	Isobutyl alcohol	2,2-Dichloropropane	1,1,1-Trichloroethane	1,1-Dichloropropene	Carbon tetrachloride	t-Amyl methyl ether	1,2-Dichloropropane	1,4 Dioxane	Dibromomethane	Bromodichloromethane	Methyl methacrylate	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	1,1,2-Trichloroethane	Ethyl methacrylate	1,3-Dichloropropane	Dibromochloromethane	1,2-Dibromoethane (EDB)	Chlorobenzene
	CAS	107-12-0	637-92-3	108-05-4	108-20-3	126-98-7	74-97-5	96-33-3	78-83-1	594-20-7	71-55-6	563-58-6	56-23-5	994-05-8	78-87-5	123-91-1	74-95-3	75-27-4	80-62-6	10061-01-5	10061-02-6	79-00-5	97-63-2	142-28-9	124-48-1	106-93-4	108-90-7
	MW	55.10	102.20	86.10	102.20	67.10	129.40	86.10	74.10	113.00	133.40	111.00	153.80	102.20	113.00	88.10	173.83	163.80	100.10	111.00	111.00	133.40	114.20	113.00	208.30	187.90	112.60
Flux (mg/m2-min)																											
T-101		<1.03E-04	<7.64E-05	<3.22E-05	<7.64E-05	<5.01E-05	<4.84E-05	<6.43E-05	<1.11E-04	<4.22E-05	<4.98E-05	<4.15E-05	<5.75E-05	<7.64E-05	<4.22E-05	<6.58E-05	<6.50E-05	<6.12E-05	<7.48E-05	<4.15E-05	<4.15E-05	<4.98E-05	<8.53E-05	<4.22E-05	<1.56E-04	<1.40E-04	<8.42E-05
T-102		<1.14E-04	<8.43E-05	<3.64E-05	<8.43E-05	<5.54E-05	<5.47E-05	<7.11E-05	<1.24E-04	<4.78E-05	<5.64E-05	<4.69E-05	<6.50E-05	<8.43E-05	<4.78E-05	<7.27E-05	<7.35E-05	<6.92E-05	<8.26E-05	<4.69E-05	<4.69E-05	<5.64E-05	<9.42E-05	<4.78E-05	<1.72E-04	<1.55E-04	<9.29E-05
T-103		<1.75E-04	<1.30E-04	<5.46E-05	<1.30E-04	<8.51E-05	<8.21E-05	<1.09E-04	<1.88E-04	<7.17E-05	<8.46E-05	<7.04E-05	<9.75E-05	<1.30E-04	<7.17E-05	<1.12E-04	<1.10E-04	<1.04E-04	<1.27E-04	<7.04E-05	<7.04E-05	<8.46E-05	<1.45E-04	<7.17E-05	<2.64E-04	<2.38E-04	<1.43E-04
T-104		<1.11E-04	<8.34E-05	<3.51E-05	<8.34E-05	<5.48E-05	<5.28E-05	<7.03E-05	<1.20E-04	<4.61E-05	<5.45E-05	<4.53E-05	<6.28E-05	<8.34E-05	<4.61E-05	<7.19E-05	<7.10E-05	<6.69E-05	<8.17E-05	<4.53E-05	<4.53E-05	<5.45E-05	<9.32E-05	<4.61E-05	<1.70E-04	<1.53E-04	<9.19E-05
T-105		<1.67E-04	<1.23E-04	<5.31E-05	<1.23E-04	<8.09E-05	<7.99E-05	<1.04E-04	<1.79E-04	<6.97E-05	<8.23E-05	<6.85E-05	<9.49E-05	<1.23E-04	<6.97E-05	<1.06E-04	<1.07E-04	<1.01E-04	<1.21E-04	<6.85E-05	<6.85E-05	<8.23E-05	<1.38E-04	<6.97E-05	<2.51E-04	<2.26E-04	<1.36E-04
T-106		<2.97E-04	<2.20E-04	<9.48E-05	<2.20E-04	<1.44E-04	<1.42E-04	<1.85E-04	<3.18E-04	<1.24E-04	<1.47E-04	<1.22E-04	<1.69E-04	<2.20E-04	<1.24E-04	<1.89E-04	<1.91E-04	<1.80E-04	<2.15E-04	<1.22E-04	<1.22E-04	<1.47E-04	<2.45E-04	<1.24E-04	<4.48E-04	<4.04E-04	<2.42E-04
T-107		<1.11E-04	<8.21E-05	<3.54E-05	<8.21E-05	<5.39E-05	<5.33E-05	<6.92E-05	<1.19E-04	<4.65E-05	<5.49E-05	<4.57E-05	<6.33E-05	<8.21E-05	<4.65E-05	<7.08E-05	<7.16E-05	<6.74E-05	<8.05E-05	<4.57E-05	<4.57E-05	<5.49E-05	<9.18E-05	<4.65E-05	<1.67E-04	<1.51E-04	<9.05E-05
T-108		<2.29E-04	<1.70E-04	<7.14E-05	<1.70E-04	<1.11E-04	<1.07E-04	<1.43E-04	<2.46E-04	<9.37E-05	<1.11E-04	<9.21E-05	<1.28E-04	<1.70E-04	<9.37E-05	<1.46E-04	<1.44E-04	<1.36E-04	<1.66E-04	<9.21E-05	<9.21E-05	<1.11E-04	<1.89E-04	<9.37E-05	<3.46E-04	<3.12E-04	<1.87E-04
T-109		<2.76E-04	<2.04E-04	<8.79E-05	<2.04E-04	<1.34E-04	<1.32E-04	<1.72E-04	<2.99E-04	<1.15E-04	<1.36E-04	<1.13E-04	<1.57E-04	<2.04E-04	<1.15E-04	<1.76E-04	<1.77E-04	<1.67E-04	<2.00E-04	<1.13E-04	<1.13E-04	<1.36E-04	<2.28E-04	<1.15E-04	<4.16E-04	<3.75E-04	<2.25E-04
T-110		<1.75E-04	<1.29E-04	<5.41E-05	<1.29E-04	<8.44E-05	<8.14E-05	<1.08E-04	<1.89E-04	<7.11E-05	<8.39E-05	<6.98E-05	<9.67E-05	<1.29E-04	<7.11E-05	<1.11E-04	<1.09E-04	<1.03E-04	<1.26E-04	<6.98E-05	<6.98E-05	<8.39E-05	<1.44E-04	<7.11E-05	<2.62E-04	<2.36E-04	<1.42E-04
T-111		<9.62E-05	<7.20E-05	<3.03E-05	<7.20E-05	<4.73E-05	<4.56E-05	<6.07E-05	<1.03E-04	<3.98E-05	<4.70E-05	<3.91E-05	<5.42E-05	<7.20E-05	<3.98E-05	<6.21E-05	<6.13E-05	<5.77E-05	<7.06E-05	<3.91E-05	<3.91E-05	<4.70E-05	<8.05E-05	<3.98E-05	<1.47E-04	<1.32E-04	<7.94E-05
T-112		<6.24E-05	<4.60E-05	<1.99E-05	<4.60E-05	<3.02E-05	<2.99E-05	<3.88E-05	<6.76E-05	<2.61E-05	<3.08E-05	<2.56E-05	<3.55E-05	<4.60E-05	<2.61E-05	<3.97E-05	<4.01E-05	<3.78E-05	<4.51E-05	<2.56E-05	<2.56E-05	<3.08E-05	<5.15E-05	<2.61E-05	<9.38E-05	<8.47E-05	<5.07E-05
T-113		<1.66E-04	<1.23E-04	<5.30E-05	<1.23E-04	<8.07E-05	<7.97E-05	<1.04E-04	<1.78E-04	<6.96E-05	<8.22E-05	<6.84E-05	<9.47E-05	<1.23E-04	<6.96E-05	<1.06E-04	<1.07E-04	<1.01E-04	<1.20E-04	<6.84E-05	<6.84E-05	<8.22E-05	<1.37E-04	<6.96E-05	<2.50E-04	<2.26E-04	<1.35E-04
T-114		<9.18E-05	<6.75E-05	<2.84E-05	<6.75E-05	<4.43E-05	<4.27E-05	<5.68E-05	<9.90E-05	<3.73E-05	<4.40E-05	<3.66E-05	<5.08E-05	<6.75E-05	<3.73E-05	<5.82E-05	<5.74E-05	<5.41E-05	<6.61E-05	<3.66E-05	<3.66E-05	<4.40E-05	<7.54E-05	<3.73E-05	<1.37E-04	<1.24E-04	<7.43E-05
T-115		<6.23E-05	<4.58E-05	<1.93E-05	<4.58E-05	<3.00E-05	<2.90E-05	<3.86E-05	<6.72E-05	<2.53E-05	<2.99E-05	<2.49E-05	<3.44E-05	<4.58E-05	<2.53E-05	<3.95E-05	<3.89E-05	<3.67E-05	<4.48E-05	<2.49E-05	<2.49E-05	<2.99E-05	<5.11E-05	<2.53E-05	<9.33E-05	<8.41E-05	<5.04E-05
T-116		<6.22E-05	<4.60E-05	<1.98E-05	<4.60E-05	<3.02E-05	<2.97E-05	<3.87E-05	<6.73E-05	<2.59E-05	<3.06E-05	<2.55E-05	<3.53E-05	<4.60E-05	<2.59E-05	<3.96E-05	<3.99E-05	<3.76E-05	<4.50E-05	<2.55E-05	<2.55E-05	<3.06E-05	<5.13E-05	<2.59E-05	<9.37E-05	<8.45E-05	<5.06E-05
T-117		<5.46E-05	<4.09E-05	<1.72E-05	<4.09E-05	<2.69E-05	<2.59E-05	<3.45E-05	<5.86E-05	<2.26E-05	<2.67E-05	<2.22E-05	<3.08E-05	<4.09E-05	<2.26E-05	<3.53E-05	<3.48E-05	<3.28E-05	<4.01E-05	<2.22E-05	<2.22E-05	<2.67E-05	<4.57E-05	<2.26E-05	<8.34E-05	<7.52E-05	<4.51E-05
T-118		<4.64E-05	<3.44E-05	<1.45E-05	<3.44E-05	<2.26E-05	<2.18E-05	<2.90E-05	<4.99E-05	<1.90E-05	<2.24E-05	<1.87E-05	<2.59E-05	<3.44E-05	<1.90E-05	<2.96E-05	<2.92E-05	<2.76E-05	<3.37E-05	<1.87E-05	<1.87E-05	<2.24E-05	<3.84E-05	<1.90E-05	<7.01E-05	<6.32E-05	<3.79E-05
T-201		<1.72E-04	<1.26E-04	<5.32E-05	<1.26E-04	<8.29E-05	<7.99E-05	<1.06E-04	<1.85E-04	<6.98E-05	<8.24E-05	<6.85E-05	<9.50E-05	<1.26E-04	<6.98E-05	<1.09E-04	<1.07E-04	<1.01E-04	<1.24E-04	<6.85E-05	<6.85E-05	<8.24E-05	<1.41E-04	<6.98E-05	<2.57E-04	<2.32E-04	<1.39E-04
T-202		<1.44E-04	<1.06E-04	<4.59E-05	<1.06E-04	<6.98E-05	<6.90E-05	<8.95E-05	<1.56E-04	<6.03E-05	<7.11E-05	<5.92E-05	<8.20E-05	<1.06E-04	<6.03E-05	<9.16E-05	<9.27E-05	<8.74E-05	<1.04E-04	<5.92E-05	<5.92E-05	<7.11E-05	<1.19E-04	<6.03E-05	<2.17E-04	<1.95E-04	<1.17E-04
T-203		<8.77E-05	<6.51E-05	<2.74E-05	<6.51E-05	<4.27E-05	<4.12E-05	<5.48E-05	<9.43E-05	<3.60E-05	<4.25E-05	<3.53E-05	<4.90E-05	<6.51E-05	<3.60E-05	<5.61E-05	<5.53E-05	<5.21E-05	<6.37E-05	<3.53E-05	<3.53E-05	<4.25E-05	<7.27E-05	<3.60E-05	<1.33E-04	<1.20E-04	<7.17E-05
T-204		<5.24E-05	<3.87E-05	<1.67E-05	<3.87E-05	<2.54E-05	<2.51E-05	<3.26E-05	<5.68E-05	<2.19E-05	<2.59E-05	<2.15E-05	<2.98E-05	<3.87E-05	<2.19E-05	<3.33E-05	<3.37E-05	<3.18E-05	<3.79E-05	<2.15E-05	<2.15E-05	<2.59E-05	<4.32E-05	<2.19E-05	<7.88E-05	<7.11E-05	<4.26E-05
T-205		<2.27E-04	<1.67E-04	<7.01E-05	<1.67E-04	<1.09E-04	<1.05E-04	<1.40E-04	<2.44E-04	<9.21E-05	<1.09E-04	<9.04E-05	<1.25E-04	<1.67E-04	<9.21E-05	<1.44E-04	<1.42E-04	<1.33E-04	<1.63E-04	<9.04E-05	<9.04E-05	<1.09E-04	<1.86E-04	<9.21E-05	<3.39E-04	<3.06E-04	<1.83E-04
T-206		<1.64E-04	<1.21E-04	<5.23E-05	<1.21E-04	<7.95E-05	<7.86E-05	<1.02E-04	<1.78E-04	<6.86E-05	<8.10E-05	<6.74E-05	<9.34E-05	<1.21E-04	<6.86E-05	<1.04E-04	<1.06E-04	<9.94E-05	<1.19E-04	<6.74E-05	<6.74E-05	<8.10E-05	<1.35E-04	<6.86E-05	<2.47E-04	<2.23E-04	<1.33E-04
T-207		<2.22E-04	<1.66E-04	<7.00E-05	<1.66E-04	<1.09E-04	<1.05E-04	<1.40E-04	<2.38E-04	<9.18E-05	<1.08E-04	<9.02E-05	<1.25E-04	<1.66E-04	<9.18E-05	<1.43E-04	<1.41E-04	<1.33E-04	<1.63E-04	<9.02E-05	<9.02E-05	<1.08E-04	<1.86E-04	<9.18E-05	<3.39E-04	<3.05E-04	<1.83E-04
T-208		<2.70E-04	<2.01E-04	<8.45E-05	<2.01E-04	<1.32E-04	<1.27E-04	<1.69E-04	<2.91E-04	<1.11E-04	<1.31E-04	<1.09E-04	<1.51E-04	<2.01E-04	<1.11E-04	<1.73E-04	<1.71E-04	<1.61E-04	<1.96E-04	<1.09E-04	<1.09E-04	<1.31E-04	<2.24E-04	<1.11E-04	<4.09E-04	<3.69E-04	<2.21E-04
T-209		<6.78E-05	<5.00E-05	<2.16E-05	<5.00E-05	<3.29E-05	<3.24E-05	<4.22E-05	<7.34E-05	<2.83E-05	<3.34E-05	<2.78E-05	<3.85E-05	<5.00E-05	<2.83E-05	<4.31E-05	<4.35E-05	<4.10E-05	<4.90E-05	<2.78E-05	<2.78E-05	<3.34E-05	<5.59E-05	<2.83E-05	<1.02E-04	<9.20E-05	<5.51E-05
T-210		<1.09E-04	<8.02E-05	<3.38E-05	<8.02E-05	<5.27E-05	<5.08E-05	<6.76E-05	<1.18E-04	<4.43E-05	<5.23E-05	<4.36E-05	<6.04E-05	<8.02E-05	<4.43E-05	<6.91E-05	<6.82E-05	<6.43E-05	<7.86E-05	<4.36E-05	<4.36E-05	<5.23E-05	<8.96E-05	<4.43E-05	<1.63E-04	<1.47E-04	<8.84E-05
T-211		<5.90E-05	<4.36E-05	<1.88E-05	<4.36E-05	<2.86E-05	<2.82E-05	<3.67E-05	<6.32E-05	<2.46E-05	<2.91E-05	<2.42E-05	<3.35E-05	<4.36E-05	<2.46E-05	<3.76E-05	<3.79E-05	<3.57E-05	<4.27E-05	<2.42E-05	<2.42E-05	<2.91E-05	<4.87E-05	<2.46E-05	<8.88E-05	<8.01E-05	<4.80E-05
T-212		<6.41E-05	<4.74E-05	<2.04E-05	<4.74E-05	<3.11E-05	<3.06E-05	<3.99E-05	<6.87E-05	<2.68E-05	<3.16E-05	<2.63E-05	<3.64E-05	<4.74E-05	<2.68E-05	<4.08E-05	<4.12E-05	<3.88E-05	<4.64E-05	<2.63E-05	<2.63E-05	<3.16E-05	<5.29E-05	<2.68E-05	<9.65E-05	<8.71E-05	<5.22E-05
T-213		<6.62E-05	<4.87E-05	<2.05E-05	<4.87E-05	<3.20E-05	<3.08E-05	<4.10E-05	<7.14E-05	<2.69E-05	<3.18E-05	<2.64E-05	<3.66E-05	<4.87E-05	<2.69E-05	<4.20E-05	<4.14E-05	<3.90E-05	<4.77E-05	<2.64E-05	<2.64E-05	<3.18E-05	<5.44E-05	<2.69E-05	<9.92E-05	<8.95E-05	<5.36E-05
T-214		<4.30E-05	<3.17E-05	<1.37E-05	<3.17E-05	<2.08E-05	<2.06E-05	<2.67E-05	<4.60E-05	<1.80E-05	<2.13E-05	<1.77E-05	<2.45E-05	<3.17E-05	<1.80E-05	<2.74E-05	<2.77E-05	<2.61E-05	<3.11E-05	<1.77E-05	<1.77E-05	<2.13E-05	<3.55E-05	<1.80E-05	<6.47E-05	<5.84E-05	<3.50E-05
T-215		<1.75E-04	<1.29E-04	<5.56E-05	<1.29E-04	<8.47E-05	<8.35E-05	<1.09E-04	<1.87E-04	<7.30E-05	<8.61E-05	<7.17E-05	<9.93E-05	<1.29E-04	<7.30E-05	<1.11E-04	<1.12E-04	<1.06E-04	<1.26E-04	<7.17E-05	<7.17E-05	<8.61E-05	<1.44E-04	<7.30E-05	<2.63E-04	<2.37E-04	<1.42E-04
T-216		<6.46E-05	<4.79E-05	<2.02E-05	<4.79E-05	<3.15E-05	<3.03E-05	<4.04E-05	<6.95E-05	<2.65E-05	<3.13E-05	<2.60E-05	<3.61E-05	<4.79E-05	<2.65E-05	<4.13E-05	<4.07E-05	<3.84E-05	<4.69E-05	<2.60E-05	<2.60E-05	<3.13E-05	<5.35E-05	<2.65E-05	<9.77E-05	<8.81E-05	<5.28E-05
T-217		<7.56E-05	<5.56E-05	<2.34E-05	<5.56E-05	<3.65E-05	<3.52E-05	<4.68E-05	<8.16E-05	<3.07E-05	<3.63E-05	<3.02E-05	<4.18E-05	<5.56E-05	<3.07E-05	<4.79E-05	<4.73E-05	<4.45E-05	<5.44E-05	<3.02E-05	<3.02E-05	<3.63E-05	<6.21E-05	<3.07E-05	<1.13E-04	<1.02E-04	<6.12E-05
T-218		<9.25E-05	<6.80E-05	<2.86E-05	<6.80E-05	<4.46E-05	<4.30E-05	<5.73E-05	<9.97E-05	<3.76E-05	<4.44E-05	<3.69E-05	<5.11E-05	<6.80E-05	<3.76E-05	<5.86E-05	<5.78E-05	<5.45E-05	<6.66E-05	<3.69E-05	<3.69E-05	<4.44E-05	<7.59E-05	<3.76E-05	<1.39E-04	<1.25E-04	<7.49E-05
T-301		<8.18E-05	<6.13E-05	<2.58E-05	<6.13E-05	<4.03E-05	<3.88E-05	<5.16E-05	<8.78E-05	<3.39E-05	<4.00E-05	<3.33E-05	<4.61E-05	<6.13E-05	<3.39E-05	<5.28E-05	<5.21E-05	<4.91E-05	<6.00E-05	<3.33E-05	<3.33E-05	<4.00E-05	<6.85E-05	<3.39E-05	<1.25E-04	<1.13E-04	<6.75E-05
T-302		<1.09E-04	<8.18E-05	<3.44E-05	<8.18E-05	<5.37E-05	<5.18E-05	<6.89E-05	<1.17E-04	<4.52E-05	<5.34E-05	<4.44E-05	<6.15E-05	<8.18E-05	<4.52E-05	<7.05E-05	<6.95E-05	<6.55E-05	<8.01E-05	<4.44E-05	<4.44E-05	<5.34E-05	<9.14E-05	<4.52E-05	<1.67E-04	<1.50E-04	<9.01E-05
T-303		<1.21E-04	<8.85E-05	<3.73E-05	<8.85E-05	<5.81E-05	<5.60E-05	<7.46E-05	<1.30E-04	<4.89E-05	<5.78E-05	<4.81E-05	<6.66E-05	<8.85E-05	<4.89E-05	<7.63E-05	<7.53E-05	<7.09E-05	<8.67E-05	<4.81E-05	<4.81E-05	<5.78E-05	<9.89E-05	<4.89E-05	<1.80E-04	<1.63E-04	<9.75E-05
T-304		<9.72E-05	<7.14E-05	<3.01E-05	<7.14E-05	<4.69E-05	<4.52E-05	<6.02E-05	<1.05E-04	<3.95E-05	<4.66E-05	<3.88E-05	<5.37E-05	<7.14E-05	<3.95E-05	<6.16E-05	<6.07E-05	<5.72E-05	<6.99E-05	<3.88E-05	<3.88E-05	<4.66E-05	<7.98E-05	<3.95E-05	<1.46E-04	<1.31E-04	<7.87E-05
T-305		<1.55E-04	<1.16E-04	<4.88E-05	<1.16E-04	<7.61E-05	<7.34E-05	<9.76E-05	<1.66E-04	<6.41E-05	<7.56E-05	<6.29E-05	<8.72E-05	<1.16E-04	<6.41E-05	<9.99E-05	<9.86E-05	<9.29E-05	<1.14E-04	<6.29E-05	<6.29E-05	<7.56E-05	<1.29E-04	<6.41E-05	<2.36E-04	<2.13E-04	<1.28E-04
T-306		<1.14E-04	<8.35E-05	<3.52E-05	<8.35E-05	<5.48E-05	<5.29E-05	<7.03E-05	<1.23E-04	<4.62E-05	<5.45E-05	<4.53E-05	<6.28E-05	<8.35E-05	<4.62E-05	<7.20E-05	<7.10E-05	<6.69E-05	<8.18E-05	<4.53E-05	<4.53E-05	<5.45E-05	<9.33E-05	<4.62E-05	<1.70E-04	<1.54E-04	<9.20E-05
T-307		<1.18E-04	<8.77E-05	<3.60E-05	<8.77E-05	<5.76E-05	<5.41E-05	<7.38E-05	<1.26E-04	<4.73E-05	<5.58E-05	<4.64E-05	<6.43E-05	<8.77E-05	<4.73E-05	<7.56E-05	<7.27E-05	<6.85E-05	<8.59E-05	<4.64E-05	<4.64E-05	<5.58E-05	<9.79E-05	<4.73E-05	<1.79E-04	<1.61E-04	<9.66E-05
T-308		<1.31E-04	<9.79E-05	<4.02E-05	<9.79E-05	<6.43E-05	<6.05E-05	<8.25E-05	<1.40E-04	<5.28E-05	<6.23E-05	<5.19E-05	<7.19E-05	<9.79E-05	<5.28E-05	<8.44E-05	<8.12E-05	<7.66E-05	<9.59E-05	<5.19E-05	<5.19E-05	<6.23E-05	<1.09E-04	<5.28E-05	<2.00E-04	<1.80E-04	<1.08E-04
T-309		<1.38E-04	<1.01E-04	<4.26E-05	<1.01E-04	<6.65E-05	<6.41E-05	<8.53E-05	<1.49E-04	<5.60E-05	<6.61E-05	<5.50E-05	<7.62E-05	<1.01E-04	<5.60E-05	<8.73E-05	<8.61E-05	<8.11E-05	<9.92E-05	<5.50E-05	<5.50E-05	<6.61E-05	<1.13E-04	<5.60E-05	<2.06E-04	<1.86E-04	<1.12E-04
T-310		<4.83E-05	<3.57E-05	<1.54E-05	<3.57E-05	<2.34E-05	<2.31E-05	<3.01E-05	<5.17E-05	<2.02E-05	<2.38E-05	<1.98E-05	<2.75E-05	<3.57E-05	<2.02E-05	<3.07E-05	<3.10E-05	<2.93E-05	<3.49E-05	<1.98E-05	<1.98E-05	<2.38E-05	<3.99E-05	<2.02E-05	<7.27E-05	<6.56E-05	<3.93E-05
T-311		<3.05E-04	<2.27E-04	<9.35E-05	<2.27E-04	<1.49E-04	<1.41E-04	<1.91E-04	<3.26E-04	<1.23E-04	<1.45E-04	<1.21E-04	<1.67E-04	<2.27E-04	<1.23E-04	<1.96E-04	<1.89E-04	<1.78E-04	<2.23E-04	<1.21E-04	<1.21E-04	<1.45E-04	<2.54E-04	<1.23E-04	<4.63E-04	<4.18E-04	<2.50E-04
T-312		<2.21E-04	<1.62E-04	<6.84E-05	<1.62E-04	<1.07E-04	<1.03E-04	<1.37E-04	<2.38E-04	<8.97E-05	<1.06E-04	<8.81E-05	<1.22E-04	<1.62E-04	<8.97E-05	<1.40E-04	<1.38E-04	<1.30E-04	<1.59E-04	<8.81E-05	<8.81E-05	<1.06E-04	<1.81E-04	<8.97E-05	<3.31E-04	<2.98E-04	<1.79E-04
T-313		<2.41E-04	<1.81E-04	<7.60E-05	<1.81E-04	<1.19E-04	<1.14E-04	<1.52E-04	<2.59E-04	<9.98E-05	<1.18E-04	<9.80E-05	<1.36E-04	<1.81E-04	<9.98E-05	<1.56E-04	<1.54E-04	<1.45E-04	<1.77E-04	<9.80E-05	<9.80E-05	<1.18E-04	<2.02E-04	<9.98E-05	<3.68E-04	<3.32E-04	<1.99E-04
T-314		<2.46E-04	<1.84E-04	<7.76E-05	<1.84E-04	<1.21E-04	<1.17E-04	<1.55E-04	<2.64E-04	<1.02E-04	<1.20E-04	<1.00E-04	<1.39E-04	<1.84E-04	<1.02E-04	<1.59E-04	<1.57E-04	<1.48E-04	<1.80E-04	<1.00E-04	<1.00E-04	<1.20E-04	<2.06E-04	<1.02E-04	<3.75E-04	<3.39E-04	<2.03E-04

Table 3
TO-15 Compounds

Sample Number / Complound	1,1,1,2-Tetrachloroethane	Bromoform	1,1,2,2-Tetrachloroethane	1,2,3-Trichloropropane	t-1,4-Dichloro-2-butene	n-Propylbenzene	Isopropylbenzene	tert-butyl benzene	i-Butylbenzene	sec-butylbenzene	1,3-Dichlorobenzene	Benzyl chloride	1,4-Dichlorobenzene	n-Butylbenzene	1,2-Dichlorobenzene	1,2-Dibromo-3-chloropropane	1,2,4-Trichlorobenzene	Naphthalene	1,2,3-Trichlorobenzene	Hexachlorobutadiene
CAS	630-20-6	75-25-2	79-34-5	96-18-4	110-57-6	103-65-1	98-82-8	98-06-6	538-93-2	135-98-8	541-73-1	100-44-7	106-46-7	104-51-8	95-50-1	96-12-8	120-82-1	91-20-3	87-61-6	87-68-3
MW	167.80	252.70	167.80	147.40	125.00	120.20	120.20	134.20	134.20	134.20	147.00	126.60	147.00	134.20	147.00	236.30	181.40	128.20	181.40	260.80
Lab Data (ppbv)																				
T-101	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-102	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-103	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-104	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-105	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-106	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-107	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-108	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-109	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-111	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-112	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-113	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-114	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-115	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-116	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-117	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-118	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-201	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-202	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-203	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-204	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-205	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-206	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-207	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-208	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-209	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-210	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-211	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-212	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-213	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-214	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-215	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-216	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-217	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-218	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-301	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-302	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-303	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-304	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-305	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-306	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-307	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-308	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-309	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-310	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-311	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-312	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-313	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-314	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3
TO-15 Compounds

Sample Number / Complound	1,1,1,2-Tetrachloroethane	Bromoform	1,1,2,2-Tetrachloroethane	1,2,3-Trichloropropane	t-1,4-Dichloro-2-butene	n-Propylbenzene	Isopropylbenzene	tert-butyl benzene	i-Butylbenzene	sec-butylbenzene	1,3-Dichlorobenzene	Benzyl chloride	1,4-Dichlorobenzene	n-Butylbenzene	1,2-Dichlorobenzene	1,2-Dibromo-3-chloropropane	1,2,4-Trichlorobenzene	Naphthalene	1,2,3-Trichlorobenzene	Hexachlorobutadiene
CAS	630-20-6	75-25-2	79-34-5	96-18-4	110-57-6	103-65-1	98-82-8	98-06-6	538-93-2	135-98-8	541-73-1	100-44-7	106-46-7	104-51-8	95-50-1	96-12-8	120-82-1	91-20-3	87-61-6	87-68-3
MW	167.80	252.70	167.80	147.40	125.00	120.20	120.20	134.20	134.20	134.20	147.00	126.60	147.00	134.20	147.00	236.30	181.40	128.20	181.40	260.80
MDL (ppbv)																				
T-101	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	2	1.2	1
T-102	0.41	0.41	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	1.24	1.24	2.07	1.24	1.03
T-103	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	2	1.2	1
T-104	0.44	0.44	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	1.31	1.31	2.18	1.31	1.09
T-105	0.41	0.41	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	1.23	1.23	2.05	1.23	1.03
T-106	0.41	0.41	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	1.23	1.23	2.05	1.23	1.03
T-107	0.41	0.41	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	1.23	1.23	2.05	1.23	1.03
T-108	0.42	0.42	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	1.26	1.26	2.1	1.26	1.05
T-109	0.43	0.43	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	1.3	1.3	2.17	1.3	1.08
T-110	0.42	0.42	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	1.27	1.27	2.12	1.27	1.06
T-111	0.42	0.42	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	1.25	1.25	2.08	1.25	1.04
T-112	0.41	0.41	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	1.24	1.24	2.07	1.24	1.03
T-113	0.41	0.41	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	1.23	1.23	2.05	1.23	1.03
T-114	0.42	0.42	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	1.27	1.27	2.12	1.27	1.06
T-115	0.42	0.42	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	1.27	1.27	2.12	1.27	1.06
T-116	0.49	0.49	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	1.48	1.48	2.47	1.48	1.23
T-117	0.42	0.42	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	1.25	1.25	2.08	1.25	1.04
T-118	0.38	0.38	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.14	1.14	1.9	1.14	0.95
T-201	0.4	0.4	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	1.21	1.21	2.02	1.21	1.01
T-202	0.39	0.39	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	1.18	1.18	1.97	1.18	0.98
T-203	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	2	1.2	1
T-204	0.39	0.39	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	1.18	1.18	1.97	1.18	0.98
T-205	0.42	0.42	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	1.27	1.27	2.12	1.27	1.06
T-206	0.41	0.41	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	1.24	1.24	2.07	1.24	1.03
T-207	0.44	0.44	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	1.31	1.31	2.18	1.31	1.09
T-208	0.42	0.42	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	1.26	1.26	2.1	1.26	1.05
T-209	0.43	0.43	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	1.3	1.3	2.17	1.3	1.08
T-210	0.42	0.42	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	1.27	1.27	2.12	1.27	1.06
T-211	0.43	0.43	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	1.29	1.29	2.15	1.29	1.08
T-212	0.45	0.45	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.35	1.35	2.25	1.35	1.13
T-213	0.44	0.44	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	1.33	1.33	2.22	1.33	1.11
T-214	0.37	0.37	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	1.11	1.11	1.85	1.11	0.93
T-215	0.43	0.43	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	1.29	1.29	2.15	1.29	1.08
T-216	0.46	0.46	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	1.38	1.38	2.3	1.38	1.15
T-217	0.42	0.42	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	1.27	1.27	2.12	1.27	1.06
T-218	0.42	0.42	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	1.27	1.27	2.12	1.27	1.06
T-301	0.4	0.4	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	1.19	1.19	1.98	1.19	0.99
T-302	0.4	0.4	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	1.19	1.19	1.98	1.19	0.99
T-303	0.4	0.4	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	1.21	1.21	2.02	1.21	1.01
T-304	0.4	0.4	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	1.21	1.21	2.02	1.21	1.01
T-305	0.42	0.42	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	1.25	1.25	2.08	1.25	1.04
T-306	0.4	0.4	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	1.21	1.21	2.02	1.21	1.01
T-307	0.41	0.41	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	1.22	1.22	2.03	1.22	1.02
T-308	0.41	0.41	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	1.22	1.22	2.03	1.22	1.02
T-309	0.4	0.4	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	1.21	1.21	2.02	1.21	1.01
T-310	0.43	0.43	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	1.29	1.29	2.15	1.29	1.08
T-311	0.43	0.43	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	1.28	1.28	2.13	1.28	1.07
T-312	0.44	0.44	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	1.33	1.33	2.22	1.33	1.11
T-313	0.42	0.42	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	1.25	1.25	2.08	1.25	1.04
T-314	0.42	0.42	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	1.25	1.25	2.08	1.25	1.04

Table 3
TO-15 Compounds

Sample Number / Complound	1,1,1,2-Tetrachloroethane	Bromoform	1,1,2,2-Tetrachloroethane	1,2,3-Trichloropropane	t-1,4-Dichloro-2-butene	n-Propylbenzene	Isopropylbenzene	tert-butyl benzene	i-Butylbenzene	sec-butylbenzene	1,3-Dichlorobenzene	Benzyl chloride	1,4-Dichlorobenzene	n-Butylbenzene	1,2-Dichlorobenzene	1,2-Dibromo-3-chloropropane	1,2,4-Trichlorobenzene	Naphthalene	1,2,3-Trichlorobenzene	Hexachlorobutadiene
CAS	630-20-6	75-25-2	79-34-5	96-18-4	110-57-6	103-65-1	98-82-8	98-06-6	538-93-2	135-98-8	541-73-1	100-44-7	106-46-7	104-51-8	95-50-1	96-12-8	120-82-1	91-20-3	87-61-6	87-68-3
MW	167.80	252.70	167.80	147.40	125.00	120.20	120.20	134.20	134.20	134.20	147.00	126.60	147.00	134.20	147.00	236.30	181.40	128.20	181.40	260.80
Data Used (ug/l)																				
T-101	1.42	2.15	2.85	2.50	2.12	2.04	2.04	2.28	2.28	2.28	2.50	2.15	2.50	2.28	2.50	6.02	4.62	5.44	4.62	5.54
T-102	1.47	2.21	2.97	2.61	2.22	2.13	2.13	2.38	2.38	2.38	2.61	2.24	2.61	2.38	2.61	6.26	4.80	5.67	4.80	5.74
T-103	1.42	2.13	2.83	2.49	2.11	2.03	2.03	2.27	2.27	2.27	2.48	2.14	2.48	2.27	2.48	5.98	4.59	5.41	4.59	5.50
T-104	1.57	2.36	3.10	2.72	2.31	2.22	2.22	2.48	2.48	2.48	2.71	2.34	2.71	2.48	2.71	6.57	5.04	5.93	5.04	6.03
T-105	1.42	2.15	2.85	2.50	2.12	2.04	2.04	2.28	2.28	2.28	2.50	2.15	2.50	2.28	2.50	6.02	4.62	5.44	4.62	5.56
T-106	1.44	2.17	2.89	2.54	2.15	2.07	2.07	2.31	2.31	2.31	2.53	2.18	2.53	2.31	2.53	6.10	4.68	5.51	4.68	5.64
T-107	1.42	2.13	2.83	2.49	2.11	2.03	2.03	2.27	2.27	2.27	2.48	2.14	2.48	2.27	2.48	5.98	4.59	5.41	4.59	5.53
T-108	1.46	2.20	2.92	2.57	2.18	2.09	2.09	2.34	2.34	2.34	2.56	2.21	2.56	2.34	2.56	6.18	4.74	5.59	4.74	5.68
T-109	1.50	2.25	3.03	2.66	2.26	2.17	2.17	2.42	2.42	2.42	2.65	2.29	2.65	2.42	2.65	6.37	4.89	5.77	4.89	5.84
T-110	1.44	2.17	2.91	2.56	2.17	2.08	2.08	2.33	2.33	2.33	2.55	2.20	2.55	2.33	2.55	6.12	4.70	5.54	4.70	5.64
T-111	1.45	2.18	2.86	2.51	2.13	2.05	2.05	2.29	2.29	2.29	2.51	2.16	2.51	2.29	2.51	6.07	4.66	5.48	4.66	5.57
T-112	1.40	2.10	2.83	2.48	2.10	2.02	2.02	2.26	2.26	2.26	2.48	2.13	2.48	2.26	2.48	5.94	4.56	5.38	4.56	5.45
T-113	1.41	2.12	2.81	2.47	2.09	2.01	2.01	2.25	2.25	2.25	2.46	2.12	2.46	2.25	2.46	5.94	4.56	5.37	4.56	5.49
T-114	1.45	2.18	2.93	2.57	2.18	2.10	2.10	2.34	2.34	2.34	2.56	2.21	2.56	2.34	2.56	6.16	4.73	5.58	4.73	5.67
T-115	1.45	2.18	2.93	2.57	2.18	2.10	2.10	2.34	2.34	2.34	2.56	2.21	2.56	2.34	2.56	6.16	4.73	5.58	4.73	5.67
T-116	1.68	2.53	3.39	2.98	2.52	2.43	2.43	2.71	2.71	2.71	2.97	2.56	2.97	2.71	2.97	7.13	5.48	6.46	5.48	6.54
T-117	1.44	2.17	2.84	2.50	2.12	2.04	2.04	2.27	2.27	2.27	2.49	2.14	2.49	2.27	2.49	6.03	4.63	5.44	4.63	5.53
T-118	1.31	1.97	2.62	2.30	1.95	1.87	1.87	2.09	2.09	2.09	2.29	1.97	2.29	2.09	2.29	5.53	4.24	5.00	4.24	5.08
T-201	1.43	2.16	2.90	2.55	2.16	2.08	2.08	2.32	2.32	2.32	2.54	2.19	2.54	2.32	2.54	6.11	4.69	5.53	4.69	5.62
T-202	1.38	2.08	2.80	2.46	2.09	2.01	2.01	2.24	2.24	2.24	2.46	2.11	2.46	2.24	2.46	5.90	4.53	5.34	4.53	5.40
T-203	1.42	2.15	2.85	2.50	2.12	2.04	2.04	2.28	2.28	2.28	2.50	2.15	2.50	2.28	2.50	6.02	4.62	5.44	4.62	5.54
T-204	1.39	2.09	2.81	2.47	2.09	2.01	2.01	2.25	2.25	2.25	2.46	2.12	2.46	2.25	2.46	5.91	4.54	5.35	4.54	5.42
T-205	1.44	2.17	2.92	2.57	2.18	2.09	2.09	2.34	2.34	2.34	2.56	2.20	2.56	2.34	2.56	6.14	4.72	5.56	4.72	5.66
T-206	1.43	2.15	2.89	2.54	2.15	2.07	2.07	2.31	2.31	2.31	2.53	2.18	2.53	2.31	2.53	6.08	4.67	5.51	4.67	5.57
T-207	1.47	2.21	2.90	2.55	2.16	2.08	2.08	2.32	2.32	2.32	2.54	2.19	2.54	2.32	2.54	6.15	4.72	5.56	4.72	5.65
T-208	1.43	2.15	2.86	2.51	2.13	2.05	2.05	2.29	2.29	2.29	2.50	2.16	2.50	2.29	2.50	6.04	4.64	5.46	4.64	5.56
T-209	1.45	2.18	2.93	2.58	2.19	2.10	2.10	2.35	2.35	2.35	2.57	2.21	2.57	2.35	2.57	6.17	4.74	5.59	4.74	5.66
T-210	1.42	2.15	2.88	2.53	2.15	2.06	2.06	2.31	2.31	2.31	2.53	2.17	2.53	2.31	2.53	6.07	4.66	5.49	4.66	5.59
T-211	1.44	2.18	2.89	2.54	2.15	2.07	2.07	2.31	2.31	2.31	2.53	2.18	2.53	2.31	2.53	6.10	4.69	5.52	4.69	5.64
T-212	1.53	2.30	3.05	2.68	2.27	2.19	2.19	2.44	2.44	2.44	2.67	2.30	2.67	2.44	2.67	6.45	4.95	5.83	4.95	5.96
T-213	1.49	2.25	3.02	2.65	2.25	2.16	2.16	2.41	2.41	2.41	2.64	2.28	2.64	2.41	2.64	6.35	4.88	5.75	4.88	5.85
T-214	1.27	1.92	2.55	2.24	1.90	1.82	1.82	2.04	2.04	2.04	2.23	1.92	2.23	2.04	2.23	5.38	4.13	4.87	4.13	4.98
T-215	1.40	2.11	2.81	2.47	2.09	2.01	2.01	2.25	2.25	2.25	2.46	2.12	2.46	2.25	2.46	5.93	4.55	5.36	4.55	5.48
T-216	1.54	2.32	3.08	2.71	2.29	2.21	2.21	2.46	2.46	2.46	2.70	2.32	2.70	2.46	2.70	6.51	5.00	5.88	5.00	5.98
T-217	1.42	2.13	2.87	2.52	2.14	2.05	2.05	2.29	2.29	2.29	2.51	2.16	2.51	2.29	2.51	6.03	4.63	5.46	4.63	5.56
T-218	1.37	2.06	2.77	2.43	2.06	1.98	1.98	2.21	2.21	2.21	2.42	2.09	2.42	2.21	2.42	5.82	4.47	5.27	4.47	5.36
T-301	1.45	2.18	2.86	2.51	2.13	2.05	2.05	2.29	2.29	2.29	2.50	2.16	2.50	2.29	2.50	6.06	4.65	5.47	4.65	5.57
T-302	1.44	2.17	2.85	2.50	2.12	2.04	2.04	2.28	2.28	2.28	2.49	2.15	2.49	2.28	2.49	6.04	4.64	5.45	4.64	5.55
T-303	1.45	2.18	2.93	2.57	2.18	2.10	2.10	2.34	2.34	2.34	2.57	2.21	2.57	2.34	2.57	6.17	4.73	5.58	4.73	5.68
T-304	1.44	2.17	2.91	2.56	2.17	2.09	2.09	2.33	2.33	2.33	2.55	2.20	2.55	2.33	2.55	6.13	4.70	5.55	4.70	5.65
T-305	1.43	2.15	2.83	2.48	2.10	2.02	2.02	2.26	2.26	2.26	2.48	2.13	2.48	2.26	2.48	5.99	4.60	5.41	4.60	5.50
T-306	1.38	2.08	2.79	2.45	2.08	2.00	2.00	2.23	2.23	2.23	2.45	2.11	2.45	2.23	2.45	5.88	4.51	5.32	4.51	5.41
T-307	1.42	2.14	2.81	2.47	2.09	2.01	2.01	2.25	2.25	2.25	2.46	2.12	2.46	2.25	2.46	5.96	4.57	5.38	4.57	5.50
T-308	1.41	2.12	2.78	2.44	2.07	1.99	1.99	2.23	2.23	2.23	2.44	2.10	2.44	2.23	2.44	5.90	4.53	5.33	4.53	5.45
T-309	1.37	2.07	2.78	2.44	2.07	1.99	1.99	2.23	2.23	2.23	2.44	2.10	2.44	2.23	2.44	5.85	4.49	5.30	4.49	5.39
T-310	1.48	2.23	2.96	2.60	2.21	2.12	2.12	2.37	2.37	2.37	2.59	2.23	2.59	2.37	2.59	6.25	4.80	5.65	4.80	5.78
T-311	1.42	2.13	2.80	2.46	2.09	2.01	2.01	2.24	2.24	2.24	2.45	2.11	2.45	2.24	2.45	5.94	4.56	5.36	4.56	5.48
T-312	1.48	2.22	2.99	2.62	2.22	2.14	2.14	2.39	2.39	2.39	2.62	2.25	2.62	2.39	2.62	6.28	4.82	5.69	4.82	5.79
T-313	1.36	2.05	2.70	2.37	2.01	1.93	1.93	2.16	2.16	2.16	2.36	2.03	2.36	2.16	2.36	5.72	4.39	5.16	4.39	5.25
T-314	1.38	2.07	2.72	2.39	2.03	1.95	1.95	2.18	2.18	2.18	2.38	2.05	2.38	2.18	2.38	5.77	4.43	5.21	4.43	5.30

Temp.		273.2	0.082
oF	oC	oK	RT
57	13.9	287.0	23.6
54	12.2	285.4	23.4
60	15.6	288.7	23.7
57	13.9	287.0	23.6
70	21.1	294.3	24.1
63	17.2	290.4	23.8
73	22.8	295.9	24.3
69	20.6	293.7	24.1
69	20.6	293.7	24.1
78	25.6	298.7	24.5
74	23.3	296.5	24.3
81	27.2	300.4	24.6
77	25.0	298.2	24.5
75	23.9	297.0	24.4
75	23.9	297.0	24.4
78	25.6	298.7	24.5
78	25.6	298.7	24.5
75	23.9	297.0	24.4
54	12.2	285.4	23.4
59	15.0	288.2	23.6
57	13.9	287.0	23.6
58	14.4	287.6	23.6
76	24.4	297.6	24.4
69	20.6	293.7	24.1
92	33.3	306.5	25.1
81	27.2	300.4	24.6
86	30.0	303.2	24.9
83	28.3	301.5	24.7
88	31.1	304.3	25.0
83	28.3	301.5	24.7
83	28.3	301.5	24.7
75	23.9	297.0	24.4
104	40.0	313.2	25.7
90	32.2	305.4	25.1
86	30.0	303.2	24.9
106	41.1	314.3	25.8
49	9.4	282.6	23.2
51	10.6	283.7	23.3
49	9.4	282.6	23.2
52	11.1	284.3	23.3
81	27.2	300.4	24.6
74	23.3	296.5	24.3
71	21.7	294.8	24.2
76	24.4	297.6	24.4
76	24.4	297.6	24.4
75	23.9	297.0	24.4
99	37.2	310.4	25.5
89	31.7	304.8	25.0
107	41.7	314.8	25.8
102	38.9	312.0	25.6

Table 3
TO-15 Compounds

Sample Number	Complound	1,1,1,2-Tetrachloroethane	Bromoform	1,1,2,2-Tetrachloroethane	1,2,3-Trichloropropane	t-1,4-Dichloro-2-butene	n-Propylbenzene	Isopropylbenzene	tert-butyl benzene	i-Butylbenzene	sec-butylbenzene	1,3-Dichlorobenzene	Benzyl chloride	1,4-Dichlorobenzene	n-Butylbenzene	1,2-Dichlorobenzene	1,2-Dibromo-3-chloropropane	1,2,4-Trichlorobenzene	Naphthalene	1,2,3-Trichlorobenzene	Hexachlorobutadiene	
	CAS	630-20-6	75-25-2	79-34-5	96-18-4	110-57-6	103-65-1	98-82-8	98-06-6	538-93-2	135-98-8	541-73-1	100-44-7	106-46-7	104-51-8	95-50-1	96-12-8	120-82-1	91-20-3	87-61-6	87-68-3	
	MW	167.80	252.70	167.80	147.40	125.00	120.20	120.20	134.20	134.20	134.20	147.00	126.60	147.00	134.20	147.00	236.30	181.40	128.20	181.40	260.80	
Flux (mg/m2-min)																						(m3/min)
T-101		<1.25E-04	<1.89E-04	<2.51E-04	<2.20E-04	<1.87E-04	<1.80E-04	<1.80E-04	<2.01E-04	<2.01E-04	<2.01E-04	<2.20E-04	<1.89E-04	<2.20E-04	<2.01E-04	<2.20E-04	<5.30E-04	<4.07E-04	<4.79E-04	<4.07E-04	<4.87E-04	0.011
T-102		<1.38E-04	<2.09E-04	<2.80E-04	<2.46E-04	<2.09E-04	<2.01E-04	<2.01E-04	<2.24E-04	<2.24E-04	<2.24E-04	<2.46E-04	<2.12E-04	<2.46E-04	<2.24E-04	<2.46E-04	<5.90E-04	<4.53E-04	<5.34E-04	<4.53E-04	<5.41E-04	0.012
T-103		<2.13E-04	<3.21E-04	<4.26E-04	<3.74E-04	<3.17E-04	<3.05E-04	<3.05E-04	<3.40E-04	<3.40E-04	<3.40E-04	<3.73E-04	<3.21E-04	<3.73E-04	<3.40E-04	<3.73E-04	<8.99E-04	<6.90E-04	<8.13E-04	<6.90E-04	<8.27E-04	0.020
T-104		<1.37E-04	<2.06E-04	<2.71E-04	<2.38E-04	<2.02E-04	<1.94E-04	<1.94E-04	<2.17E-04	<2.17E-04	<2.17E-04	<2.37E-04	<2.04E-04	<2.37E-04	<2.17E-04	<2.37E-04	<5.74E-04	<4.41E-04	<5.19E-04	<4.41E-04	<5.27E-04	0.011
T-105		<2.02E-04	<3.04E-04	<4.04E-04	<3.55E-04	<3.01E-04	<2.90E-04	<2.90E-04	<3.23E-04	<3.23E-04	<3.23E-04	<3.54E-04	<3.05E-04	<3.54E-04	<3.23E-04	<3.54E-04	<8.54E-04	<6.56E-04	<7.72E-04	<6.56E-04	<7.89E-04	0.018
T-106		<3.61E-04	<5.43E-04	<7.21E-04	<6.33E-04	<5.37E-04	<5.17E-04	<5.17E-04	<5.77E-04	<5.77E-04	<5.77E-04	<6.32E-04	<5.44E-04	<6.32E-04	<5.77E-04	<6.32E-04	<1.52E-03	<1.17E-03	<1.38E-03	<1.17E-03	<1.41E-03	0.032
T-107		<1.35E-04	<2.03E-04	<2.70E-04	<2.37E-04	<2.01E-04	<1.93E-04	<1.93E-04	<2.16E-04	<2.16E-04	<2.16E-04	<2.36E-04	<2.03E-04	<2.36E-04	<2.16E-04	<2.36E-04	<5.70E-04	<4.37E-04	<5.15E-04	<4.37E-04	<5.27E-04	0.012
T-108		<2.78E-04	<4.19E-04	<5.57E-04	<4.89E-04	<4.15E-04	<3.99E-04	<3.99E-04	<4.45E-04	<4.45E-04	<4.45E-04	<4.88E-04	<4.20E-04	<4.88E-04	<4.45E-04	<4.88E-04	<1.18E-03	<9.03E-04	<1.06E-03	<9.03E-04	<1.08E-03	0.025
T-109		<3.35E-04	<5.04E-04	<6.77E-04	<5.95E-04	<5.05E-04	<4.85E-04	<4.85E-04	<5.42E-04	<5.42E-04	<5.42E-04	<5.93E-04	<5.11E-04	<5.93E-04	<5.42E-04	<5.93E-04	<1.43E-03	<1.09E-03	<1.29E-03	<1.09E-03	<1.31E-03	0.029
T-110		<2.11E-04	<3.18E-04	<4.27E-04	<3.75E-04	<3.18E-04	<3.06E-04	<3.06E-04	<3.42E-04	<3.42E-04	<3.42E-04	<3.74E-04	<3.22E-04	<3.74E-04	<3.42E-04	<3.74E-04	<8.99E-04	<6.90E-04	<8.14E-04	<6.90E-04	<8.28E-04	0.019
T-111		<1.18E-04	<1.78E-04	<2.34E-04	<2.05E-04	<1.74E-04	<1.67E-04	<1.67E-04	<1.87E-04	<1.87E-04	<1.87E-04	<2.05E-04	<1.76E-04	<2.05E-04	<1.87E-04	<2.05E-04	<4.96E-04	<3.81E-04	<4.48E-04	<3.81E-04	<4.55E-04	0.011
T-112		<7.56E-05	<1.14E-04	<1.53E-04	<1.34E-04	<1.14E-04	<1.10E-04	<1.10E-04	<1.22E-04	<1.22E-04	<1.22E-04	<1.34E-04	<1.15E-04	<1.34E-04	<1.22E-04	<1.34E-04	<3.22E-04	<2.47E-04	<2.92E-04	<2.47E-04	<2.95E-04	0.007
T-113		<2.02E-04	<3.04E-04	<4.04E-04	<3.55E-04	<3.01E-04	<2.89E-04	<2.89E-04	<3.23E-04	<3.23E-04	<3.23E-04	<3.54E-04	<3.04E-04	<3.54E-04	<3.23E-04	<3.54E-04	<8.52E-04	<6.54E-04	<7.71E-04	<6.54E-04	<7.88E-04	0.019
T-114		<1.11E-04	<1.67E-04	<2.24E-04	<1.97E-04	<1.67E-04	<1.61E-04	<1.61E-04	<1.79E-04	<1.79E-04	<1.79E-04	<1.96E-04	<1.69E-04	<1.96E-04	<1.79E-04	<1.96E-04	<4.72E-04	<3.62E-04	<4.27E-04	<3.62E-04	<4.34E-04	0.010
T-115		<7.51E-05	<1.13E-04	<1.52E-04	<1.34E-04	<1.13E-04	<1.09E-04	<1.09E-04	<1.22E-04	<1.22E-04	<1.22E-04	<1.33E-04	<1.15E-04	<1.33E-04	<1.22E-04	<1.33E-04	<3.20E-04	<2.46E-04	<2.90E-04	<2.46E-04	<2.95E-04	0.007
T-116		<7.54E-05	<1.14E-04	<1.52E-04	<1.34E-04	<1.14E-04	<1.09E-04	<1.09E-04	<1.22E-04	<1.22E-04	<1.22E-04	<1.34E-04	<1.15E-04	<1.34E-04	<1.22E-04	<1.34E-04	<3.21E-04	<2.46E-04	<2.91E-04	<2.46E-04	<2.94E-04	0.006
T-117		<6.72E-05	<1.01E-04	<1.33E-04	<1.17E-04	<9.89E-05	<9.51E-05	<9.51E-05	<1.06E-04	<1.06E-04	<1.06E-04	<1.16E-04	<1.00E-04	<1.16E-04	<1.06E-04	<1.16E-04	<2.82E-04	<2.16E-04	<2.54E-04	<2.16E-04	<2.59E-04	0.006
T-118		<5.65E-05	<8.50E-05	<1.13E-04	<9.92E-05	<8.41E-05	<8.09E-05	<8.09E-05	<9.03E-05	<9.03E-05	<9.03E-05	<9.89E-05	<8.52E-05	<9.89E-05	<9.03E-05	<9.89E-05	<2.39E-04	<1.83E-04	<2.16E-04	<1.83E-04	<2.19E-04	0.006
T-201		<2.07E-04	<3.12E-04	<4.20E-04	<3.69E-04	<3.13E-04	<3.01E-04	<3.01E-04	<3.36E-04	<3.36E-04	<3.36E-04	<3.68E-04	<3.17E-04	<3.68E-04	<3.36E-04	<3.68E-04	<8.83E-04	<6.78E-04	<8.00E-04	<6.78E-04	<8.13E-04	0.019
T-202		<1.75E-04	<2.63E-04	<3.53E-04	<3.11E-04	<2.63E-04	<2.53E-04	<2.53E-04	<2.83E-04	<2.83E-04	<2.83E-04	<3.10E-04	<2.67E-04	<3.10E-04	<2.83E-04	<3.10E-04	<7.44E-04	<5.71E-04	<6.73E-04	<5.71E-04	<6.82E-04	0.016
T-203		<1.07E-04	<1.61E-04	<2.14E-04	<1.88E-04	<1.59E-04	<1.53E-04	<1.53E-04	<1.71E-04	<1.71E-04	<1.71E-04	<1.87E-04	<1.61E-04	<1.87E-04	<1.71E-04	<1.87E-04	<4.51E-04	<3.46E-04	<4.08E-04	<3.46E-04	<4.15E-04	0.010
T-204		<6.35E-05	<9.56E-05	<1.29E-04	<1.13E-04	<9.58E-05	<9.21E-05	<9.21E-05	<1.03E-04	<1.03E-04	<1.03E-04	<1.13E-04	<9.70E-05	<1.13E-04	<1.03E-04	<1.13E-04	<2.70E-04	<2.08E-04	<2.45E-04	<2.08E-04	<2.48E-04	0.006
T-205		<2.73E-04	<4.12E-04	<5.53E-04	<4.86E-04	<4.12E-04	<3.96E-04	<3.96E-04	<4.43E-04	<4.43E-04	<4.43E-04	<4.85E-04	<4.17E-04	<4.85E-04	<4.43E-04	<4.85E-04	<1.16E-03	<8.94E-04	<1.05E-03	<8.94E-04	<1.07E-03	0.025
T-206		<1.99E-04	<3.00E-04	<4.03E-04	<3.54E-04	<3.00E-04	<2.88E-04	<2.88E-04	<3.22E-04	<3.22E-04	<3.22E-04	<3.53E-04	<3.04E-04	<3.53E-04	<3.22E-04	<3.53E-04	<8.47E-04	<6.50E-04	<7.67E-04	<6.50E-04	<7.77E-04	0.018
T-207		<2.73E-04	<4.11E-04	<5.39E-04	<4.74E-04	<4.02E-04	<3.86E-04	<3.86E-04	<4.31E-04	<4.31E-04	<4.31E-04	<4.72E-04	<4.07E-04	<4.72E-04	<4.31E-04	<4.72E-04	<1.14E-03	<8.78E-04	<1.03E-03	<8.78E-04	<1.05E-03	0.024
T-208		<3.29E-04	<4.96E-04	<6.59E-04	<5.78E-04	<4.91E-04	<4.72E-04	<4.72E-04	<5.27E-04	<5.27E-04	<5.27E-04	<5.77E-04	<4.97E-04	<5.77E-04	<5.27E-04	<5.77E-04	<1.39E-03	<1.07E-03	<1.26E-03	<1.07E-03	<1.28E-03	0.030
T-209		<8.22E-05	<1.24E-04	<1.66E-04	<1.46E-04	<1.24E-04	<1.19E-04	<1.19E-04	<1.33E-04	<1.33E-04	<1.33E-04	<1.46E-04	<1.25E-04	<1.46E-04	<1.33E-04	<1.46E-04	<3.50E-04	<2.68E-04	<3.17E-04	<2.68E-04	<3.21E-04	0.007
T-210		<1.32E-04	<1.98E-04	<2.67E-04	<2.34E-04	<1.99E-04	<1.91E-04	<1.91E-04	<2.13E-04	<2.13E-04	<2.13E-04	<2.33E-04	<2.01E-04	<2.33E-04	<2.13E-04	<2.33E-04	<5.61E-04	<4.30E-04	<5.08E-04	<4.30E-04	<5.17E-04	0.012
T-211		<7.15E-05	<1.08E-04	<1.43E-04	<1.26E-04	<1.07E-04	<1.02E-04	<1.02E-04	<1.14E-04	<1.14E-04	<1.14E-04	<1.25E-04	<1.08E-04	<1.25E-04	<1.14E-04	<1.25E-04	<3.02E-04	<2.32E-04	<2.73E-04	<2.32E-04	<2.79E-04	0.006
T-212		<7.77E-05	<1.17E-04	<1.55E-04	<1.37E-04	<1.16E-04	<1.11E-04	<1.11E-04	<1.24E-04	<1.24E-04	<1.24E-04	<1.36E-04	<1.17E-04	<1.36E-04	<1.24E-04	<1.36E-04	<3.28E-04	<2.52E-04	<2.97E-04	<2.52E-04	<3.03E-04	0.007
T-213		<7.99E-05	<1.20E-04	<1.62E-04	<1.42E-04	<1.20E-04	<1.16E-04	<1.16E-04	<1.29E-04	<1.29E-04	<1.29E-04	<1.42E-04	<1.22E-04	<1.42E-04	<1.29E-04	<1.42E-04	<3.40E-04	<2.61E-04	<3.08E-04	<2.61E-04	<3.13E-04	0.007
T-214		<5.21E-05	<7.85E-05	<1.04E-04	<9.16E-05	<7.76E-05	<7.47E-05	<7.47E-05	<8.34E-05	<8.34E-05	<8.34E-05	<9.13E-05	<7.86E-05	<9.13E-05	<8.34E-05	<9.13E-05	<2.20E-04	<1.69E-04	<1.99E-04	<1.69E-04	<2.04E-04	0.005
T-215		<2.12E-04	<3.19E-04	<4.24E-04	<3.72E-04	<3.15E-04	<3.03E-04	<3.03E-04	<3.39E-04	<3.39E-04	<3.39E-04	<3.71E-04	<3.20E-04	<3.71E-04	<3.39E-04	<3.71E-04	<8.95E-04	<6.87E-04	<8.09E-04	<6.87E-04	<8.27E-04	0.020
T-216		<7.87E-05	<1.18E-04	<1.57E-04	<1.38E-04	<1.17E-04	<1.13E-04	<1.13E-04	<1.26E-04	<1.26E-04	<1.26E-04	<1.38E-04	<1.19E-04	<1.38E-04	<1.26E-04	<1.38E-04	<3.32E-04	<2.55E-04	<3.01E-04	<2.55E-04	<3.06E-04	0.007
T-217		<9.13E-05	<1.37E-04	<1.85E-04	<1.62E-04	<1.38E-04	<1.32E-04	<1.32E-04	<1.48E-04	<1.48E-04	<1.48E-04	<1.62E-04	<1.39E-04	<1.62E-04	<1.48E-04	<1.62E-04	<3.89E-04	<2.98E-04	<3.52E-04	<2.98E-04	<3.58E-04	0.008
T-218		<1.12E-04	<1.68E-04	<2.26E-04	<1.98E-04	<1.68E-04	<1.62E-04	<1.62E-04	<1.81E-04	<1.81E-04	<1.81E-04	<1.98E-04	<1.70E-04	<1.98E-04	<1.81E-04	<1.98E-04	<4.75E-04	<3.65E-04	<4.30E-04	<3.65E-04	<4.38E-04	0.011
T-301		<1.01E-04	<1.52E-04	<1.99E-04	<1.75E-04	<1.48E-04	<1.42E-04	<1.42E-04	<1.59E-04	<1.59E-04	<1.59E-04	<1.74E-04	<1.50E-04	<1.74E-04	<1.59E-04	<1.74E-04	<4.22E-04	<3.24E-04	<3.81E-04	<3.24E-04	<3.87E-04	0.009
T-302		<1.34E-04	<2.02E-04	<2.65E-04	<2.33E-04	<1.98E-04	<1.90E-04	<1.90E-04	<2.12E-04	<2.12E-04	<2.12E-04	<2.32E-04	<2.00E-04	<2.32E-04	<2.12E-04	<2.32E-04	<5.62E-04	<4.32E-04	<5.08E-04	<4.32E-04	<5.16E-04	0.012
T-303		<1.45E-04	<2.19E-04	<2.94E-04	<2.59E-04	<2.19E-04	<2.11E-04	<2.11E-04	<2.35E-04	<2.35E-04	<2.35E-04	<2.58E-04	<2.22E-04	<2.58E-04	<2.35E-04	<2.58E-04	<6.19E-04	<4.75E-04	<5.61E-04	<4.75E-04	<5.70E-04	0.013
T-304		<1.17E-04	<1.77E-04	<2.37E-04	<2.09E-04	<1.77E-04	<1.70E-04	<1.70E-04	<1.90E-04	<1.90E-04	<1.90E-04	<2.08E-04	<1.79E-04	<2.08E-04	<1.90E-04	<2.08E-04	<4.99E-04	<3.83E-04	<4.52E-04	<3.83E-04	<4.60E-04	0.011
T-305		<1.90E-04	<2.87E-04	<3.76E-04	<3.30E-04	<2.80E-04	<2.69E-04	<2.69E-04	<3.01E-04	<3.01E-04	<3.01E-04	<3.29E-04	<2.84E-04	<3.29E-04	<3.01E-04	<3.29E-04	<7.97E-04	<6.12E-04	<7.20E-04	<6.12E-04	<7.32E-04	0.017
T-306		<1.37E-04	<2.06E-04	<2.78E-04	<2.44E-04	<2.07E-04	<1.99E-04	<1.99E-04	<2.22E-04	<2.22E-04	<2.22E-04	<2.43E-04	<2.09E-04	<2.43E-04	<2.22E-04	<2.43E-04	<5.84E-04	<4.48E-04	<5.29E-04	<4.48E-04	<5.38E-04	0.013
T-307		<1.44E-04	<2.17E-04	<2.84E-04	<2.50E-04	<2.12E-04	<2.04E-04	<2.04E-04	<2.27E-04	<2.27E-04	<2.27E-04	<2.49E-04	<2.15E-04	<2.49E-04	<2.27E-04	<2.49E-04	<6.03E-04	<4.63E-04	<5.44E-04	<4.63E-04	<5.56E-04	0.013
T-308		<1.61E-04	<2.42E-04	<3.18E-04	<2.79E-04	<2.37E-04	<2.28E-04	<2.28E-04	<2.54E-04	<2.54E-04	<2.54E-04	<2.78E-04	<2.40E-04	<2.78E-04	<2.54E-04	<2.78E-04	<6.74E-04	<5.17E-04	<6.08E-04	<5.17E-04	<6.22E-04	0.015
T-309		<1.66E-04	<2.50E-04	<3.37E-04	<2.96E-04	<2.51E-04	<2.41E-04	<2.41E-04	<2.69E-04	<2.69E-04	<2.69E-04	<2.95E-04	<2.54E-04	<2.95E-04	<2.69E-04	<2.95E-04	<7.08E-04	<5.44E-04	<6.41E-04	<5.44E-04	<6.52E-04	0.016
T-310		<5.86E-05	<8.82E-05	<1.17E-04	<1.03E-04	<8.73E-05	<8.39E-05	<8.39E-05	<9.37E-05	<9.37E-05	<9.37E-05	<1.03E-04	<8.84E-05	<1.03E-04	<9.37E-05	<1.03E-04	<2.47E-04	<1.90E-04	<2.24E-04	<1.90E-04	<2.29E-04	0.005
T-311		<3.73E-04	<5.62E-04	<7.38E-04	<6.48E-04	<5.50E-04	<5.28E-04	<5.28E-04	<5.90E-04	<5.90E-04	<5.90E-04	<6.46E-04	<5.57E-04	<6.46E-04	<5.90E-04	<6.46E-04	<1.56E-03	<1.20E-03	<1.41E-03	<1.20E-03	<1.44E-03	0.034
T-312		<2.67E-04	<4.01E-04	<5.39E-04	<4.74E-04	<4.02E-04	<3.86E-04	<3.86E-04	<4.31E-04	<4.31E-04	<4.31E-04	<4.72E-04	<4.07E-04	<4.72E-04	<4.31E-04	<4.72E-04	<1.13E-03	<8.71E-04	<1.03E-03	<8.71E-04	<1.04E-03	0.023
T-313		<2.96E-04	<4.46E-04	<5.86E-04	<5.15E-04	<4.36E-04	<4.20E-04	<4.20E-04	<4.68E-04	<4.68E-04	<4.68E-04	<5.13E-04	<4.42E-04	<5.13E-04	<4.68E-04	<5.13E-04	<1.24E-03	<9.54E-04	<1.12E-03	<9.54E-04	<1.14E-03	0.028
T-314		<3.02E-04	<4.55E-04	<5.98E-04	<5.25E-04	<4.45E-04	<4.28E-04	<4.28E-04	<4.78E-04	<4.78E-04	<4.78E-04	<5.24E-04	<4.51E-04	<5.24E-04	<4.78E-04	<5.24E-04	<1.27E-03	<9.73E-04	<1.14E-03	<9.73E-04	<1.16E-03	0.029

Table 4
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Sample Number	Compound	Benzene	n-Butane	Propane	i-Pentane	Ethane	Ethene	n-Pentane	Propene	Cyclopentane	c-2-Pentene	1-Pentene	n-Heptane	Acetylene	Toluene	2,2,4-Trimethylpentane	2-Methylpentane	Methylcyclopentane	2,2-Dimethylbutane	Methylcyclohexane	n-Hexane	3-Methylpentane	3-Methylcyclopentene	m,p-xylene	2,4-Dimethylpentane	t-2-Butene	n-Nonane
	CAS	71-43-2	106-97-8	74-98-6	78-78-4	74-84-0	74-85-1	109-66-0	115-07-1	287-92-3	627-20-3	109-67-1	142-82-5	74-86-2	108-88-3	540-84-1	107-83-5	96-37-7	75-83-2	108-87-2	110-54-3	96-14-0	1120-62-3	108-38-3	108-08-7	624-64-6	111-84-2
	MW	78.1	58.1	44.1	72.2	30.1	28.1	72.1	42.1	70.1	70.1	70.1	100.2	26	92.1	114.2	86.2	84.2	86.2	98.2	86.2	86.2	82.1	106.2	100.2	56.1	128.3
Lab Data (ppbv)																											
T-101		0.77	ND	1.89	ND	4.95	ND	ND	2.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-102		0.72	1.05	2.75	ND	3.29	3.83	ND	ND	ND	ND	ND	ND	ND	1.16	ND	ND	ND	ND	ND	0.44	ND	ND	0.65	ND	ND	ND
T-103	ND	ND		2.22	ND	1.88	ND	0.87	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.42	ND	ND	ND	ND	0.83	ND
T-104	ND		2.07	2.79	ND	6.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.23	0.52	ND	0.74
T-105	6.64	ND		1.95	ND	4.53	ND	ND	ND	ND	ND	ND	0.93	ND	2.04	ND	ND	ND	ND	ND	ND	0.64	ND	2.16	ND	ND	0.41
T-106	1.92	ND		1.09	ND	3.99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-107	4.21	ND		1.33	ND	3.94	ND	ND	ND	ND	ND	ND	ND	ND	0.96	ND	ND	ND	ND	ND	ND	ND	ND	0.83	ND	ND	ND
T-108	10170.31	976.64		38.4	299.04	548.39	499.84	237.95	90.37	112.76	290.55	221.96	172.41	111.06	54.89	83.91	79.19	104.17	23.66	59.42	79.5	55.7	95.86	13.51	67.96	53.12	8.82
T-109	26.3	2.7		2.13	ND	2.87	ND	ND	ND	ND	ND	0.64	ND	ND	6.2	ND	ND	3.26	ND	1.42	ND	ND	ND	6.51	ND	ND	ND
T-110	57.42	1.7		4.14	ND	4.62	1.89	ND	ND	ND	ND	1.87	ND	ND	12.5	ND	ND	ND	ND	1.42	ND	0.96	ND	11.57	ND	ND	ND
T-111	13.71	2.81		2.21	5.8	2.58	ND	ND	2.15	ND	ND	ND	0.72	ND	2.83	ND	0.68	ND	ND	ND	ND	ND	ND	2.17	2.7	ND	0.43
T-112	12.03	ND		5.58	10.02	3.04	1.6	22.92	18.54	0.55	2.31	ND	1.24	ND	2.01	ND	1.86	1.21	ND	3.46	0.5	1.2	ND	1.08	0.78	ND	ND
T-113	5.01	1.13		3.01	ND	6.59	ND	0.61	1.44	ND	ND	ND	ND	ND	0.48	ND	ND	0.47	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-114	15.46	ND		1.23	ND	6.67	ND	0.78	ND	ND	ND	ND	ND	ND	3.8	ND	ND	2	ND	1.42	ND	ND	ND	4.8	ND	ND	3.03
T-115	2.71	ND	ND		ND	2.26	ND	ND	0.96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-116	0.63	ND		1.18	ND	4.88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-117	ND	ND	ND		ND	2.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-118	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-201	0.68	ND	4.25	0.85	6.57	ND	0.59	ND	ND	ND	1.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-202	0.48	3.6	8.21	0.72	8.77	1.47	0.63	1.91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-203	6.77	131.44	187.26	5.81	70.78	37.79	5.33	148.06	1.38	0.94	5.71	1.99	52.93	31.84	1.45	1.67	0.4	0.71	2.8	2.22	1.09	1.11	40.52	1.14	1.16	12.42
T-204	ND	33.39	39.4	1.38	38.72	1.8	0.82	39.02	2.59	ND	0.81	ND	ND	ND	0.58	1.5	ND	1.28	0.81	0.83	0.85	ND	0.42	0.59	ND	0.39
T-205	ND	ND	3.43	2.79	6.17	1.73	ND	0.95	0.57	ND	ND	0.51	ND	ND	0.91	0.39	ND	ND	0.71	ND	ND	ND	ND	ND	ND	ND	ND
T-206	1.92	270.59	357.67	396.04	25.84	16.55	88.32	56.24	152.11	1.83	ND	0.9	ND	3.72	24.03	21.47	2.13	21.34	21.19	8.34	15.27	2.85	1.55	14.12	2.5	ND	
T-207	2.65	1.91	5.89	13.12	7.03	2.22	0.76	2.17	1.46	ND		0.56	ND	ND	2.38	2.21	ND	ND	1.29	0.72	ND	ND	ND	ND	ND	ND	0.6
T-208	0.74	2.31	4.34	42.3	5.78	1.54	0.72	1.91	7.43	ND		0.76	ND	ND	0.53	ND	1.52	ND	3.01	1.71	ND	1.24	ND	ND	ND	0.86	ND
T-209	0.7	ND	ND	ND	1.92	1.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-210	1.09	ND	1.08	ND	2.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-211	0.44	ND	ND	ND	1.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-212	0.46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.84	ND
T-213	0.68	ND	ND	ND	1.93	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-214	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-215	0.64	ND	1.82	ND	3	2.16	ND	ND	ND	0.53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.44	ND	ND	ND	ND	ND	ND
T-216	ND	1.27	ND	ND	2.42	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-217	0.66	ND	1.55	ND	2.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	ND	ND	ND	ND	ND	ND
T-218	2.95	1050.07	1458.73	323.12	261.79	ND	65.13	ND	10.67	0.69	ND	ND	ND	ND	9.91	10.5	ND	49.55	1.03	3.69	5.26	ND	ND	2.02	1.94	ND	
T-301	ND	ND	1.09	ND	2.68	ND	ND	ND	0.52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-302	ND	ND	1.67	ND	4.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.55	ND	ND	ND	ND	ND	ND
T-303	0.56	ND	1.46	ND	5.03	1.43	2.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.77	ND	ND	ND	ND	ND	ND
T-304	0.69	4.53	10.37	1.95	9.23	6.37	1.39	15.27	ND	ND	ND	ND	ND	0.61	0.34	ND	ND	ND	0.8	ND	ND	ND	ND	ND	ND	ND	ND
T-305	2.36	96.9	359.52	58.79	15.82	15.78	23.35	41.8	4.77	ND	8.36	8.78	ND	4.99	8.05	6.25	1.8	5.85	7.42	6.82	11.87	1.34	5.16	4.58	ND	ND	
T-306	0.49	ND	3.3	ND	5.99	4.51	1.45	1.53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.64	ND	ND	ND	ND	ND	ND
T-307	7.13	ND	2.04	ND	5.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-308	ND	8.51	11.59	2.65	4.72	1.57	1.66	1.09	3.57	ND	0.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-309	ND	4.23	7.63	1.47	5.03	ND	ND	ND	2.49	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.44	ND	ND	ND	ND	ND	ND	ND	ND
T-310	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-311	ND	ND	ND	ND	ND	ND	ND	ND	2.32	0.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-312	0.57	4.01	ND	3.63	ND	3.33	0.99	5.93	1.9	ND	ND	ND	ND	1.99	0.97	0.82	0.82	1.66	ND	0.95	ND	ND	1.73	ND	ND	ND	ND
T-313	0.84	ND	1.85	ND	4.28	1.26	0.79	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-314	0.72	ND	2.65	3.31	4	ND	ND	2.43	2.39	ND	ND	ND	ND	3.13	3.65	0.94	ND	2.03	1.03	ND	1.78	ND	2.75	ND	ND		29.78

Table 4
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Sample Number / Compound	Benzene	n-Butane	Propane	i-Pentane	Ethane	Ethene	n-Pentane	Propene	Cyclopentane	c-2-Pentene	1-Pentene	n-Heptane	Acetylene	Toluene	2,2,4-Trimethylpentane	2-Methylpentane	Methylcyclopentane	2,2-Dimethylbutane	Methylcyclohexane	n-Hexane	3-Methylpentane	3-Methylcyclopentene	m,p-xylene	2,4-Dimethylpentane	t-2-Butene	n-Nonane
CAS	71-43-2	106-97-8	74-98-6	78-78-4	74-84-0	74-85-1	109-66-0	115-07-1	287-92-3	627-20-3	109-67-1	142-82-5	74-86-2	108-88-3	540-84-1	107-83-5	96-37-7	75-83-2	108-87-2	110-54-3	96-14-0	1120-62-3	108-38-3	108-08-7	624-64-6	111-84-2
MW	78.1	58.1	44.1	72.2	30.1	28.1	72.1	42.1	70.1	70.1	70.1	100.2	26	92.1	114.2	86.2	84.2	86.2	98.2	86.2	86.2	82.1	106.2	100.2	56.1	128.3
MDL (ppbv)																										
T-101	0.402	0.602	0.803	0.482	1.205	1.205	0.482	0.803	0.482	0.482	0.482	0.344	1.205	0.344	0.301	0.402	0.402	0.402	0.344	0.402	0.402	0.402	0.301	0.344	0.602	0.268
T-102	0.415	0.622	0.829	0.498	1.244	1.244	0.498	0.829	0.498	0.498	0.498	0.355	1.244	0.355	0.311	0.415	0.415	0.415	0.355	0.415	0.415	0.415	0.311	0.355	0.622	0.276
T-103	0.398	0.598	0.797	0.478	1.195	1.195	0.478	0.797	0.478	0.478	0.478	0.341	1.195	0.341	0.299	0.398	0.398	0.398	0.341	0.398	0.398	0.398	0.299	0.341	0.598	0.266
T-104	0.437	0.655	0.873	0.524	1.310	1.310	0.524	0.873	0.524	0.524	0.524	0.374	1.310	0.374	0.327	0.437	0.437	0.437	0.374	0.437	0.437	0.437	0.327	0.374	0.655	0.291
T-105	0.409	0.613	0.818	0.491	1.227	1.227	0.491	0.818	0.491	0.491	0.491	0.350	1.227	0.350	0.307	0.409	0.409	0.409	0.350	0.409	0.409	0.409	0.307	0.350	0.613	0.273
T-106	0.409	0.613	0.817	0.490	1.226	1.226	0.490	0.817	0.490	0.490	0.490	0.350	1.226	0.350	0.306	0.409	0.409	0.409	0.350	0.409	0.409	0.409	0.306	0.350	0.613	0.272
T-107	0.411	0.617	0.822	0.493	1.233	1.233	0.493	0.822	0.493	0.493	0.493	0.352	1.233	0.352	0.308	0.411	0.411	0.411	0.352	0.411	0.411	0.411	0.308	0.352	0.617	0.274
T-108	0.421	0.631	0.841	0.505	1.262	1.262	0.505	0.841	0.505	0.505	0.505	0.361	1.262	0.361	0.316	0.421	0.421	0.421	0.361	0.421	0.421	0.421	0.316	0.361	0.631	0.280
T-109	0.433	0.649	0.866	0.519	1.299	1.299	0.519	0.866	0.519	0.519	0.519	0.371	1.299	0.371	0.325	0.433	0.433	0.433	0.371	0.433	0.433	0.433	0.325	0.371	0.649	0.289
T-110	0.425	0.637	0.850	0.510	1.274	1.274	0.510	0.850	0.510	0.510	0.510	0.364	1.274	0.364	0.319	0.425	0.425	0.425	0.364	0.425	0.425	0.425	0.319	0.364	0.637	0.283
T-111	0.417	0.625	0.833	0.500	1.250	1.250	0.500	0.833	0.500	0.500	0.500	0.357	1.250	0.357	0.312	0.417	0.417	0.417	0.357	0.417	0.417	0.417	0.312	0.357	0.625	0.278
T-112	0.412	0.618	0.824	0.494	1.235	1.235	0.494	0.824	0.494	0.494	0.494	0.353	1.235	0.353	0.309	0.412	0.412	0.412	0.353	0.412	0.412	0.412	0.309	0.353	0.618	0.275
T-113	0.411	0.617	0.823	0.494	1.234	1.234	0.494	0.823	0.494	0.494	0.494	0.353	1.234	0.353	0.309	0.411	0.411	0.411	0.353	0.411	0.411	0.411	0.309	0.353	0.617	0.274
T-114	0.422	0.633	0.845	0.507	1.267	1.267	0.507	0.845	0.507	0.507	0.507	0.362	1.267	0.362	0.317	0.422	0.422	0.422	0.362	0.422	0.422	0.422	0.317	0.362	0.633	0.282
T-115	0.422	0.633	0.844	0.506	1.266	1.266	0.506	0.844	0.506	0.506	0.506	0.362	1.266	0.362	0.316	0.422	0.422	0.422	0.362	0.422	0.422	0.422	0.316	0.362	0.633	0.281
T-116	0.493	0.740	0.986	0.592	1.479	1.479	0.592	0.986	0.592	0.592	0.592	0.423	1.479	0.423	0.370	0.493	0.493	0.493	0.423	0.493	0.493	0.493	0.370	0.423	0.740	0.329
T-117	0.415	0.623	0.830	0.498	1.245	1.245	0.498	0.830	0.498	0.498	0.498	0.356	1.245	0.356	0.311	0.415	0.415	0.415	0.356	0.415	0.415	0.415	0.311	0.356	0.623	0.277
T-118	0.379	0.569	0.759	0.455	1.138	1.138	0.455	0.759	0.455	0.455	0.455	0.325	1.138	0.325	0.284	0.379	0.379	0.379	0.325	0.379	0.379	0.379	0.284	0.325	0.569	0.253
T-201	0.404	0.606	0.808	0.485	1.213	1.213	0.485	0.808	0.485	0.485	0.485	0.346	1.213	0.346	0.303	0.404	0.404	0.404	0.346	0.404	0.404	0.404	0.303	0.346	0.606	0.269
T-202	0.394	0.591	0.788	0.473	1.181	1.181	0.473	0.788	0.473	0.473	0.473	0.338	1.181	0.338	0.295	0.394	0.394	0.394	0.338	0.394	0.394	0.394	0.295	0.338	0.591	0.263
T-203	0.399	0.598	0.797	0.478	1.196	1.196	0.478	0.797	0.478	0.478	0.478	0.342	1.196	0.342	0.299	0.399	0.399	0.399	0.342	0.399	0.399	0.399	0.299	0.342	0.598	0.266
T-204	0.392	0.588	0.784	0.471	1.176	1.176	0.471	0.784	0.471	0.471	0.471	0.336	1.176	0.336	0.294	0.392	0.392	0.392	0.336	0.392	0.392	0.392	0.294	0.336	0.588	0.261
T-205	0.422	0.633	0.845	0.507	1.267	1.267	0.507	0.845	0.507	0.507	0.507	0.362	1.267	0.362	0.317	0.422	0.422	0.422	0.362	0.422	0.422	0.422	0.317	0.362	0.633	0.282
T-206	0.415	0.622	0.829	0.497	1.244	1.244	0.497	0.829	0.497	0.497	0.497	0.355	1.244	0.355	0.311	0.415	0.415	0.415	0.355	0.415	0.415	0.415	0.311	0.355	0.622	0.276
T-207	0.435	0.653	0.871	0.523	1.306	1.306	0.523	0.871	0.523	0.523	0.523	0.373	1.306	0.373	0.327	0.435	0.435	0.435	0.373	0.435	0.435	0.435	0.327	0.373	0.653	0.290
T-208	0.418	0.628	0.837	0.502	1.255	1.255	0.502	0.837	0.502	0.502	0.502	0.359	1.255	0.359	0.314	0.418	0.418	0.418	0.359	0.418	0.418	0.418	0.314	0.359	0.628	0.279
T-209	0.434	0.650	0.867	0.520	1.301	1.301	0.520	0.867	0.520	0.520	0.520	0.372	1.301	0.372	0.325	0.434	0.434	0.434	0.372	0.434	0.434	0.434	0.325	0.372	0.650	0.289
T-210	0.423	0.635	0.846	0.508	1.269	1.269	0.508	0.846	0.508	0.508	0.508	0.363	1.269	0.363	0.317	0.423	0.423	0.423	0.363	0.423	0.423	0.423	0.317	0.363	0.635	0.282
T-211	0.429	0.643	0.857	0.514	1.286	1.286	0.514	0.857	0.514	0.514	0.514	0.367	1.286	0.367	0.322	0.429	0.429	0.429	0.367	0.429	0.429	0.429	0.322	0.367	0.643	0.286
T-212	0.451	0.677	0.902	0.541	1.354	1.354	0.541	0.902	0.541	0.541	0.541	0.387	1.354	0.387	0.338	0.451	0.451	0.451	0.387	0.451	0.451	0.451	0.338	0.387	0.677	0.301
T-213	0.445	0.667	0.890	0.534	1.335	1.335	0.534	0.890	0.534	0.534	0.534	0.381	1.335	0.381	0.334	0.445	0.445	0.445	0.381	0.445	0.445	0.445	0.334	0.381	0.667	0.297
T-214	0.371	0.557	0.742	0.445	1.113	1.113	0.445	0.742	0.445	0.445	0.445	0.318	1.113	0.318	0.278	0.371	0.371	0.371	0.318	0.371	0.371	0.371	0.278	0.318	0.557	0.247
T-215	0.430	0.645	0.861	0.516	1.291	1.291	0.516	0.861	0.516	0.516	0.516	0.369	1.291	0.369	0.323	0.430	0.430	0.430	0.369	0.430	0.430	0.430	0.323	0.369	0.645	0.287
T-216	0.461	0.691	0.922	0.553	1.383	1.383	0.553	0.922	0.553	0.553	0.553	0.395	1.383	0.395	0.346	0.461	0.461	0.461	0.395	0.461	0.461	0.461	0.346	0.395	0.691	0.307
T-217	0.424	0.636	0.848	0.509	1.271	1.271	0.509	0.848	0.509	0.509	0.509	0.363	1.271	0.363	0.318	0.424	0.424	0.424	0.363	0.424	0.424	0.424	0.318	0.363	0.636	0.283
T-218	0.422	0.634	0.845	0.507	1.267	1.267	0.507	0.845	0.507	0.507	0.507	0.362	1.267	0.362	0.317	0.422	0.422	0.422	0.362	0.422	0.422	0.422	0.317	0.362	0.634	0.282
T-301	0.397	0.596	0.794	0.476	1.191	1.191	0.476	0.794	0.476	0.476	0.476	0.340	1.191	0.340	0.298	0.397	0.397	0.397	0.340	0.397	0.397	0.397	0.298	0.340	0.596	0.265
T-302	0.396	0.594	0.792	0.475	1.188	1.188	0.475	0.792	0.475	0.475	0.475	0.339	1.188	0.339	0.297	0.396	0.396	0.396	0.339	0.396	0.396	0.396	0.297	0.339	0.594	0.264
T-303	0.402	0.603	0.804	0.483	1.206	1.206	0.483	0.804	0.483	0.483	0.483	0.345	1.206	0.345	0.302	0.402	0.402	0.402	0.345	0.402	0.402	0.402	0.302	0.345	0.603	0.268
T-304	0.402	0.603	0.804	0.483	1.206	1.206	0.483	0.804	0.483	0.483	0.483	0.345	1.206	0.345	0.302	0.402	0.402	0.402	0.345	0.402	0.402	0.402	0.302	0.345	0.603	0.268
T-305	0.409	0.614	0.819	0.491	1.228	1.228	0.491	0.819	0.491	0.491	0.491	0.351	1.228	0.351	0.307	0.409	0.409	0.409	0.351	0.409	0.409	0.409	0.307	0.351	0.614	0.273
T-306	0.404	0.605	0.807	0.484	1.211	1.211	0.484	0.807	0.484	0.484	0.484	0.346	1.211	0.346	0.303	0.404	0.404	0.404	0.346	0.404	0.404	0.404	0.303	0.346	0.605	0.269
T-307	0.406	0.610	0.813	0.488	1.219	1.219	0.488	0.813	0.488	0.488	0.488	0.348	1.219	0.348	0.305	0.406	0.406	0.406	0.348	0.406	0.406	0.406	0.305	0.348	0.610	0.271
T-308	0.407	0.610	0.814	0.488	1.220	1.220	0.488	0.814	0.488	0.488	0.488	0.349	1.220	0.349	0.305	0.407	0.407	0.407	0.349	0.407	0.407	0.407	0.305	0.349	0.610	0.271
T-309	0.403	0.604	0.805	0.483	1.208	1.208	0.483	0.805	0.483	0.483	0.483	0.345	1.208	0.345	0.302	0.403	0.403	0.403	0.345	0.403	0.403	0.403	0.302	0.345	0.604	0.268
T-310	0.429	0.644	0.858	0.515	1.287	1.287	0.515	0.858	0.515	0.515	0.515	0.368	1.287	0.368	0.322	0.429	0.429	0.429	0.368	0.429	0.429	0.429	0.322	0.368	0.644	0.286
T-311	0.428	0.642	0.856	0.514	1.284	1.284	0.514	0.856	0.514	0.514	0.514	0.367	1.284	0.367	0.321	0.428	0.428	0.428	0.367	0.428	0.428	0.428	0.321	0.367	0.642	0.285
T-312	0.442	0.663	0.883	0.530	1.325	1.325	0.530	0.883	0.530	0.530	0.530	0.379	1.325	0.379	0.331	0.442	0.442	0.442	0.379	0.442	0.442	0.442	0.331	0.379	0.663	0.294
T-313	0.418	0.627	0.836	0.502	1.255	1.255	0.502	0.836	0.502	0.502	0.502	0.358	1.255	0.358	0.314	0.418	0.418	0.418	0.358	0.418	0.418	0.418	0.314	0.358	0.627	0.279
T-314	0.417	0.625	0.833	0.500	1.250	1.250	0.500	0.833	0.500	0.500	0.500	0.357	1.250	0.357	0.312	0.417	0.417	0.417	0.357	0.417	0.417	0.417	0.312	0.357	0.625	0.278

Table 4
TO-14

Sample Number / Compound	Benzene	n-Butane	Propane	i-Pentane	Ethane	Ethene	n-Pentane	Propene	Cyclopentane	c-2-Pentene	1-Pentene	n-Heptane	Acetylene	Toluene	2,2,4-Trimethylpentane	2-Methylpentane	Methylcyclopentane	2,2-Dimethylbutane	Methylcyclohexane	n-Hexane	3-Methylpentane	3-Methylcyclopentene	m,p-xylene	2,4-Dimethylpentane	t-2-Butene	n-Nonane
CAS	71-43-2	106-97-8	74-98-6	78-78-4	74-84-0	74-85-1	109-66-0	115-07-1	287-92-3	627-20-3	109-67-1	142-82-5	74-86-2	108-88-3	540-84-1	107-83-5	96-37-7	75-83-2	108-87-2	110-54-3	96-14-0	1120-62-3	108-38-3	108-08-7	624-64-6	111-84-2
MW	78.1	58.1	44.1	72.2	30.1	28.1	72.1	42.1	70.1	70.1	70.1	100.2	26	92.1	114.2	86.2	84.2	86.2	98.2	86.2	86.2	82.1	106.2	100.2	56.1	128.3
Data Used (ug/l)																										
T-101	2.55	0.74	3.54	0.74	6.33	0.72	0.74	3.68	0.72	0.72	0.72	0.73	0.66	0.67	0.73	0.73	0.72	0.73	0.72	0.73	0.73	0.70	0.68	0.73	0.72	0.73
T-102	2.40	2.61	5.18	0.77	4.23	4.60	0.77	0.75	0.74	0.74	0.74	0.76	0.69	4.56	0.76	0.76	0.75	0.76	0.75	1.62	0.76	0.73	2.95	0.76	0.74	0.76
T-103	0.66	0.73	4.13	0.73	2.39	0.71	2.65	0.71	0.71	0.71	0.71	0.72	0.66	0.66	0.72	0.72	0.71	0.72	0.71	1.53	0.72	0.69	0.67	0.72	1.97	0.72
T-104	0.72	5.11	5.22	0.80	8.50	0.78	0.80	0.78	0.78	0.78	0.78	0.80	0.72	0.73	0.79	0.80	0.78	0.80	0.78	0.80	0.80	0.76	19.07	2.21	0.78	4.03
T-105	21.48	0.74	3.56	0.73	5.65	0.71	0.73	0.71	0.71	0.71	0.71	3.86	0.66	7.78	0.73	0.73	0.71	0.73	0.71	0.73	2.28	0.70	9.50	0.73	0.71	2.18
T-106	6.29	0.75	2.02	0.74	5.04	0.72	0.74	0.72	0.72	0.72	0.72	0.74	0.67	0.68	0.73	0.74	0.72	0.74	0.72	0.74	0.74	0.70	0.68	0.74	0.72	0.73
T-107	13.54	0.74	2.42	0.73	4.88	0.71	0.73	0.71	0.71	0.71	0.71	0.73	0.66	3.64	0.73	0.73	0.71	0.73	0.71	0.73	0.73	0.69	3.63	0.73	0.71	0.72
T-108	32,957.59	2,354.40	70.27	895.85	684.90	582.78	711.85	157.86	327.98	845.10	645.60	716.80	119.81	209.76	397.60	283.24	363.94	84.62	242.11	284.34	199.22	326.55	59.53	282.55	123.65	46.95
T-109	85.23	6.51	3.90	0.78	3.58	0.76	0.78	0.76	0.76	0.76	1.86	0.77	0.70	23.69	0.77	0.77	11.39	0.77	5.79	0.77	0.77	0.74	28.69	0.77	0.76	0.77
T-110	182.96	4.03	7.45	0.75	5.67	2.17	0.75	0.73	0.73	0.73	5.35	0.74	0.68	46.97	0.74	0.75	0.73	0.75	5.69	0.75	3.38	0.71	50.13	0.74	0.73	0.74
T-111	44.01	6.71	4.01	17.21	3.19	0.72	0.74	3.72	0.72	0.72	0.72	2.97	0.67	10.71	0.73	2.41	0.72	0.74	0.72	0.74	0.74	0.70	9.47	11.12	0.72	2.27
T-112	38.12	0.73	9.98	29.35	3.71	1.82	67.05	31.67	1.56	6.57	0.70	5.04	0.65	7.51	0.72	6.50	4.13	0.72	13.79	1.75	4.20	0.69	4.65	3.17	0.70	0.71
T-113	15.99	2.68	5.43	0.73	8.11	0.71	1.80	2.48	0.71	0.71	0.71	0.72	0.66	1.81	0.72	0.72	1.62	0.72	0.71	0.72	0.72	0.69	0.67	0.72	0.71	0.72
T-114	49.54	0.75	2.23	0.75	8.24	0.73	2.31	0.73	0.73	0.73	0.73	0.74	0.68	14.36	0.74	0.75	6.91	0.75	5.72	0.75	0.75	0.71	20.91	0.74	0.73	15.95
T-115	8.68	0.75	0.76	0.75	2.79	0.73	0.75	1.66	0.73	0.73	0.73	0.74	0.68	0.68	0.74	0.75	0.73	0.75	0.73	0.75	0.75	0.71	0.69	0.74	0.73	0.74
T-116	2.01	0.88	2.12	0.87	5.99	0.85	0.87	0.85	0.85	0.85	0.85	0.86	0.78	0.79	0.86	0.87	0.85	0.87	0.85	0.87	0.87	0.83	0.80	0.86	0.85	0.86
T-117	0.66	0.74	0.75	0.73	2.90	0.71	0.73	0.71	0.71	0.71	0.71	0.73	0.66	0.67	0.73	0.73	0.71	0.73	0.71	0.73	0.73	0.70	0.67	0.73	0.71	0.72
T-118	0.61	0.68	0.69	0.67	0.70	0.66	0.67	0.66	0.65	0.65	0.65	0.67	0.61	0.61	0.67	0.67	0.66	0.67	0.65	0.67	0.67	0.64	0.62	0.67	0.65	0.67
T-201	2.27	0.75	8.00	2.62	8.45	0.73	1.82	0.73	0.73	0.73	4.01	0.74	0.67	0.68	0.74	0.74	0.73	0.74	0.73	0.74	0.74	0.71	0.69	0.74	0.73	0.74
T-202	1.59	8.85	15.31	2.20	11.16	1.75	1.92	3.40	0.70	0.70	0.70	0.72	0.65	0.66	0.71	0.72	0.70	0.72	0.70	0.72	0.72	0.68	0.66	0.72	0.70	0.71
T-203	22.45	324.22	350.61	17.81	90.45	45.08	16.32	264.64	4.11	2.80	16.99	8.47	58.43	124.50	7.03	6.11	1.43	2.60	11.67	8.12	3.99	3.87	182.70	4.85	2.76	67.65
T-204	0.65	82.20	73.63	4.22	49.39	2.14	2.51	69.61	7.69	0.70	2.41	0.71	0.65	0.66	2.81	5.48	0.70	4.68	3.37	3.03	3.10	0.68	1.89	2.51	0.70	2.12
T-205	0.68	0.75	6.19	8.25	7.61	1.99	0.75	1.64	1.64	0.73	1.46	0.74	0.67	3.43	1.82	0.75	0.73	2.51	0.73	0.75	0.75	0.71	0.69	0.74	0.73	0.74
T-206	6.22	652.32	654.47	1,186.44	32.27	19.30	264.22	98.24	442.43	5.32	0.72	3.74	0.67	14.22	113.86	76.79	7.44	76.33	86.34	29.83	54.62	9.71	6.83	58.70	5.82	0.74
T-207	8.23	4.41	10.33	37.67	8.41	2.48	2.18	3.63	4.07	0.73	1.56	0.74	0.68	8.72	10.04	0.75	0.73	4.42	2.81	0.75	0.75	0.71	0.69	0.74	0.73	3.06
T-208	2.34	5.45	7.77	123.91	7.06	1.76	2.11	3.26	21.13	0.71	2.16	0.73	0.66	1.98	0.73	5.32	0.71	10.53	6.81	0.73	4.34	0.70	0.68	0.73	1.96	0.73
T-209	2.20	0.76	0.77	0.75	2.32	1.86	0.75	0.73	0.73	0.73	0.73	0.75	0.68	0.69	0.75	0.75	0.73	0.75	0.73	0.75	0.75	0.72	0.69	0.75	0.73	0.75
T-210	3.44	0.75	1.93	0.74	3.11	0.72	0.74	0.72	0.72	0.72	0.72	0.73	0.67	0.67	0.73	0.74	0.72	0.74	0.72	0.74	0.74	0.70	0.68	0.73	0.72	0.73
T-211	1.38	0.75	0.76	0.74	1.90	0.72	0.74	0.72	0.72	0.72	0.72	0.74	0.67	0.68	0.74	0.74	0.72	0.74	0.72	0.74	0.74	0.70	0.68	0.74	0.72	0.73
T-212	1.45	0.79	0.80	0.79	0.82	0.77	0.79	0.77	0.77	0.77	0.77	0.78	0.71	0.72	0.78	0.79	0.77	0.79	0.77	0.79	0.79	0.75	0.73	0.78	4.17	0.78
T-213	2.15	0.78	0.79	0.78	2.35	0.76	0.78	0.76	0.76	0.76	0.76	0.77	0.70	0.71	0.77	0.78	0.76	0.78	0.76	0.78	0.78	0.74	0.72	0.77	0.76	0.77
T-214	0.59	0.66	0.67	0.66	0.69	0.64	0.66	0.64	0.64	0.64	0.64	0.65	0.59	0.60	0.65	0.66	0.64	0.66	0.64	0.66	0.66	0.62	0.61	0.65	0.64	0.65
T-215	1.95	0.73	3.12	0.73	3.51	2.36	0.72	0.71	1.45	0.70	0.70	0.72	0.65	0.66	0.72	0.72	0.71	0.72	0.70	0.72	8.19	0.69	0.67	0.72	0.70	0.72
T-216	0.72	2.94	0.81	0.80	2.91	0.78	0.80	0.77	1.68	0.77	0.77	0.79	0.72	0.73	0.79	0.79	0.77	0.79	0.77	0.79	0.79	0.76	0.73	0.79	0.77	0.79
T-217	2.07	0.74	2.75	0.74	2.88	0.72	0.74	0.72	0.72	0.72	0.72	0.73	0.66	0.67	0.73	0.73	0.72	0.73	0.72	0.73	4.37	0.70	0.68	0.73	0.72	0.73
T-218	8.93	2,365.84	2,494.63	904.68	305.57	0.69	182.10	0.69	29.01	1.88	0.69	0.70	0.64	0.65	43.89	35.10	0.69	165.63	3.92	12.33	17.58	0.67	0.65	7.85	4.22	0.70
T-301	0.67	0.75	2.07	0.74	3.48	0.72	0.74	0.72	1.57	0.72	0.72	0.74	0.67	0.68	0.73	0.74	0.72	0.74	0.72	0.74	0.74	0.70	0.68	0.74	0.72	0.73
T-302	0.66	0.74	3.16	0.74	5.69	0.72	0.74	0.72	0.72	0.72	0.72	0.73	0.66	0.67	0.73	0.73	0.72	0.73	0.72	0.73	2.04	0.70	0.68	0.73	0.72	0.73
T-303	1.89	0.76	2.78	0.75	6.53	1.73	6.96	0.73	0.73	0.73	0.73	0.74	0.68	0.68	0.74	0.75	0.73	0.75	0.73	0.75	2.86	0.71	0.69	0.74	0.73	0.74
T-304	2.31	11.28	19.61	6.04	11.91	7.67	4.30	27.56	0.73	0.73	0.73	0.74	0.67	2.41	1.66	0.74	0.73	0.74	3.37	0.74	0.74	0.71	0.69	0.74	0.73	0.74
T-305	7.48	228.41	643.26	172.21	19.32	17.99	68.30	71.40	13.57	0.70	23.78	35.69	0.65	18.65	37.30	21.86	6.15	20.46	29.56	23.85	41.51	4.46	22.23	18.62	0.70	0.71
T-306	1.57	0.72	5.98	0.72	7.41	5.21	4.30	2.65	0.70	0.70	0.70	0.71	0.65	0.65	0.71	0.71	0.70	0.71	0.70	0.71	2.27	0.68	0.66	0.71	0.70	0.71
T-307	23.02	0.73	3.72	0.73	6.53	0.71	0.73	0.71	0.71	0.71	0.71	0.72	0.66	0.66	0.72	0.72	0.71	0.72	0.71	0.72	0.72	0.69	0.67	0.72	0.71	0.72
T-308	0.65	20.25	20.93	7.84	5.82	1.81	4.90	1.88	10.25	0.70	2.64	0.72	0.65	0.66	0.71	0.72	0.70	0.72	0.70	0.72	0.72	0.68	0.66	0.72	0.70	0.71
T-309	0.64	10.06	13.78	4.35	6.20	0.70	0.71	0.69	7.15	0.69	0.69	0.71	0.64	0.65	0.71	0.71	0.69	1.55	0.69	0.71	0.71	0.68	0.66	0.71	0.69	0.71
T-310	0.69	0.77	0.78	0.76	0.79	0.74	0.76	0.74	0.74	0.74	0.74	0.76	0.69	0.69	0.75	0.76	0.74	0.76	0.74	0.76	0.76	0.72	0.70	0.76	0.74	0.75
T-311	0.66	0.73	0.74	0.73	0.76	0.71	0.73	3.84	2.20	0.71	0.71	0.72	0.66	0.66	0.72	0.72	0.71	0.72	0.71	0.72	0.72	0.69	0.67	0.72	0.71	0.72
T-312	1.78	9.31	0.78	10.48	0.80	3.74	2.85	9.98	5.32	0.74	0.74	0.76	0.69	7.33	4.43	2.83	2.76	5.72	0.74	3.27	0.76	0.72	7.35	0.76	0.74	0.76
T-313	2.54	0.71	3.16	0.70	4.99	1.37	2.20	0.68	0.68	0.68	0.68	0.70	0.63	0.64	0.69	0.70	0.68	0.70	0.68	0.70	0.70	0.66	0.64	0.70	0.68	0.69
T-314	2.20	0.71	4.56	9.33	4.70	0.69	0.70	4.00	6.54	0.68	0.68	0.70	0.63	11.26	16.28	3.16	0.68	6.83	3.95	0.70	5.99	0.67	11.41	0.70	0.68	149.22

Table 4

TO-14

Sample Number	Compound	Benzene	n-Butane	Propane	i-Pentane	Ethane	Ethene	n-Pentane	Propene	Cyclopentane	c-2-Pentene	1-Pentene	n-Heptane	Acetylene	Toluene	2,2,4-Trimethylpentane	2-Methylpentane	Methylcyclopentane	2,2-Dimethylbutane	Methylcyclohexane	n-Hexane	3-Methylpentane	3-Methylcyclopentene	m,p-xylene	2,4-Dimethylpentane	t-2-Butene	n-Nonane
	CAS	71-43-2	106-97-8	74-98-6	78-78-4	74-84-0	74-85-1	109-66-0	115-07-1	287-92-3	627-20-3	109-67-1	142-82-5	74-86-2	108-88-3	540-84-1	107-83-5	96-37-7	75-83-2	108-87-2	110-54-3	96-14-0	1120-62-3	108-38-3	108-08-7	624-64-6	111-84-2
	MW	78.1	58.1	44.1	72.2	30.1	28.1	72.1	42.1	70.1	70.1	70.1	100.2	26	92.1	114.2	86.2	84.2	86.2	98.2	86.2	86.2	82.1	106.2	100.2	56.1	128.3
		0.13																									
Flux (mg/m2-min)																											
T-101		0.00022	<6.54E-05	0.00031	<6.50E-05	0.00056	<6.32E-05	<6.49E-05	0.00032	<6.31E-05	<6.31E-05	<6.31E-05	<6.44E-05	<5.85E-05	<5.92E-05	<6.43E-05	<6.47E-05	<6.32E-05	<6.47E-05	<6.32E-05	<6.47E-05	<6.47E-05	<6.16E-05	<5.98E-05	<6.44E-05	<6.31E-05	<6.42E-05
T-102		0.00023	0.00025	0.00049	<7.23E-05	0.00040	0.00043	<7.22E-05	<7.03E-05	<7.02E-05	<7.02E-05	<7.02E-05	<7.17E-05	<6.51E-05	0.00043	<7.15E-05	<7.19E-05	<7.03E-05	<7.19E-05	<7.02E-05	0.00015	<7.19E-05	<6.85E-05	0.00028	<7.17E-05	<7.02E-05	<7.14E-05
T-103		<9.87E-05	<1.10E-04	0.00062	<1.09E-04	0.00036	<1.06E-04	0.00040	<1.06E-04	<1.06E-04	<1.06E-04	<1.06E-04	<1.08E-04	<9.85E-05	<9.97E-05	<1.08E-04	<1.09E-04	<1.06E-04	<1.09E-04	<1.06E-04	0.00023	<1.09E-04	<1.04E-04	<1.01E-04	<1.08E-04	0.00030	<1.08E-04
T-104		<6.33E-05	0.00045	0.00046	<7.02E-05	0.00074	<6.83E-05	<7.01E-05	<6.82E-05	<6.82E-05	<6.82E-05	<6.82E-05	<6.96E-05	<6.32E-05	<6.40E-05	<6.94E-05	<6.98E-05	<6.82E-05	<6.98E-05	<6.82E-05	<6.98E-05	<6.98E-05	<6.65E-05	0.00167	0.00019	<6.82E-05	0.00035
T-105		0.00305	<1.05E-04	0.00051	<1.04E-04	0.00080	<1.01E-04	<1.04E-04	<1.01E-04	<1.01E-04	<1.01E-04	<1.01E-04	0.00055	<9.37E-05	0.00110	<1.03E-04	<1.04E-04	<1.01E-04	<1.04E-04	<1.01E-04	<1.04E-04	0.00032	<9.87E-05	0.00135	<1.03E-04	<1.01E-04	0.00031
T-106		0.00157	<1.87E-04	0.00050	<1.86E-04	0.00126	<1.80E-04	<1.85E-04	<1.80E-04	<1.80E-04	<1.80E-04	<1.80E-04	<1.84E-04	<1.67E-04	<1.69E-04	<1.83E-04	<1.85E-04	<1.80E-04	<1.85E-04	<1.80E-04	<1.85E-04	<1.85E-04	<1.76E-04	<1.71E-04	<1.84E-04	<1.80E-04	<1.83E-04
T-107		0.00129	<7.02E-05	0.00023	<6.98E-05	0.00046	<6.79E-05	<6.97E-05	<6.79E-05	<6.78E-05	<6.78E-05	<6.78E-05	<6.92E-05	<6.29E-05	0.00035	<6.90E-05	<6.95E-05	<6.79E-05	<6.95E-05	<6.78E-05	<6.95E-05	<6.95E-05	<6.62E-05	0.00035	<6.92E-05	<6.78E-05	<6.89E-05
T-108		6.27525	0.44829	0.01338	0.17057	0.13041	0.11096	0.13554	0.03006	0.06245	0.16091	0.12292	0.13648	0.02281	0.03994	0.07571	0.05393	0.06929	0.01611	0.04610	0.05414	0.03793	0.06218	0.01134	0.05380	0.02354	0.00894
T-109		0.01906	0.00146	0.00087	<1.74E-04	0.00080	<1.69E-04	<1.74E-04	<1.69E-04	<1.69E-04	<1.69E-04	0.00042	<1.72E-04	<1.57E-04	0.00530	<1.72E-04	<1.73E-04	0.00255	<1.73E-04	0.00129	<1.73E-04	<1.73E-04	<1.65E-04	0.00641	<1.72E-04	<1.69E-04	<1.72E-04
T-110		0.02686	0.00059	0.00109	<1.10E-04	0.00083	0.00032	<1.10E-04	<1.07E-04	<1.07E-04	<1.07E-04	0.00079	<1.09E-04	<9.92E-05	0.00689	<1.09E-04	<1.10E-04	<1.07E-04	<1.10E-04	0.00084	<1.10E-04	0.00050	<1.04E-04	0.00736	<1.09E-04	<1.07E-04	<1.09E-04
T-111		0.00359	0.00055	0.00033	0.00141	0.00026	<5.89E-05	<6.05E-05	0.00030	<5.88E-05	<5.88E-05	<5.88E-05	0.00024	<5.45E-05	0.00087	<5.99E-05	0.00020	<5.89E-05	<6.03E-05	<5.88E-05	<6.03E-05	<6.03E-05	<5.74E-05	0.00077	0.00091	<5.88E-05	0.00019
T-112		0.00206	<3.94E-05	0.00054	0.00159	0.00020	0.00010	0.00363	0.00172	0.00008	0.00036	<3.81E-05	0.00027	<3.53E-05	0.00041	<3.88E-05	0.00035	0.00022	<3.90E-05	0.00075	0.00009	0.00023	<3.71E-05	0.00025	0.00017	<3.81E-05	<3.87E-05
T-113		0.00230	0.00039	0.00078	<1.05E-04	0.00116	<1.02E-04	0.00026	0.00036	<1.01E-04	<1.01E-04	<1.01E-04	<1.04E-04	<9.41E-05	0.00026	<1.03E-04	<1.04E-04	0.00023	<1.04E-04	<1.02E-04	<1.04E-04	<1.04E-04	<9.91E-05	<9.61E-05	<1.04E-04	<1.02E-04	<1.03E-04
T-114		0.00380	<5.78E-05	0.00017	<5.75E-05	0.00063	<5.59E-05	0.00018	<5.59E-05	<5.58E-05	<5.58E-05	<5.58E-05	<5.70E-05	<5.18E-05	0.00110	<5.68E-05	<5.72E-05	0.00053	<5.72E-05	0.00044	<5.72E-05	<5.72E-05	<5.45E-05	0.00160	<5.70E-05	<5.58E-05	0.00122
T-115		0.00045	<3.92E-05	<3.97E-05	<3.90E-05	0.00015	<3.79E-05	<3.89E-05	0.00009	<3.78E-05	<3.78E-05	<3.78E-05	<3.86E-05	<3.51E-05	<3.55E-05	<3.85E-05	<3.88E-05	<3.79E-05	<3.88E-05	<3.79E-05	<3.88E-05	<3.88E-05	<3.69E-05	<3.58E-05	<3.86E-05	<3.79E-05	<3.85E-05
T-116		0.00009	<3.94E-05	0.00010	<3.92E-05	0.00027	<3.81E-05	<3.91E-05	<3.81E-05	<3.81E-05	<3.81E-05	<3.81E-05	<3.89E-05	<3.53E-05	<3.57E-05	<3.87E-05	<3.90E-05	<3.81E-05	<3.90E-05	<3.81E-05	<3.90E-05	<3.90E-05	<3.71E-05	<3.60E-05	<3.89E-05	<3.81E-05	<3.87E-05
T-117		<3.09E-05	<3.45E-05	<3.49E-05	<3.43E-05	0.00014	<3.34E-05	<3.42E-05	<3.33E-05	<3.33E-05	<3.33E-05	<3.33E-05	<3.40E-05	<3.09E-05	<3.12E-05	<3.39E-05	<3.41E-05	<3.33E-05	<3.41E-05	<3.33E-05	<3.41E-05	<3.41E-05	<3.25E-05	<3.15E-05	<3.40E-05	<3.33E-05	<3.39E-05
T-118		<2.62E-05	<2.93E-05	<2.96E-05	<2.91E-05	<3.03E-05	<2.83E-05	<2.91E-05	<2.83E-05	<2.83E-05	<2.83E-05	<2.83E-05	<2.88E-05	<2.62E-05	<2.65E-05	<2.88E-05	<2.90E-05	<2.83E-05	<2.90E-05	<2.83E-05	<2.90E-05	<2.90E-05	<2.76E-05	<2.68E-05	<2.88E-05	<2.83E-05	<2.87E-05
T-201		0.00033	<1.09E-04	0.00116	0.00038	0.00122	<1.05E-04	0.00026	<1.05E-04	<1.05E-04	<1.05E-04	0.00058	<1.07E-04	<9.73E-05	<9.85E-05	<1.07E-04	<1.08E-04	<1.05E-04	<1.08E-04	<1.05E-04	<1.08E-04	<1.08E-04	<1.02E-04	<9.94E-05	<1.07E-04	<1.05E-04	<1.07E-04
T-202		0.00020	0.00112	0.00193	0.00028	0.00141	0.00022	0.00024	0.00043	<8.83E-05	<8.83E-05	<8.83E-05	<9.02E-05	<8.19E-05	<8.29E-05	<8.99E-05	<9.05E-05	<8.84E-05	<9.05E-05	<8.84E-05	<9.05E-05	<9.05E-05	<8.62E-05	<8.36E-05	<9.02E-05	<8.84E-05	<8.98E-05
T-203		0.00168	0.02431	0.02629	0.00134	0.00678	0.00338	0.00122	0.01984	0.00031	0.00021	0.00127	0.00063	0.00438	0.00933	0.00053	0.00046	0.00011	0.00019	0.00088	0.00061	0.00030	0.00029	0.01370	0.00036	0.00021	0.00507
T-204		<2.97E-05	0.00376	0.00337	0.00019	0.00226	0.00010	0.00011	0.00319	0.00035	<3.20E-05	0.00011	<3.27E-05	<2.97E-05	<3.00E-05	0.00013	0.00025	<3.20E-05	0.00021	0.00015	0.00014	<3.12E-05	0.00009	0.00011	<3.20E-05	0.00010	
T-205		<1.28E-04	<1.43E-04	0.00117	0.00156	0.00144	0.00038	<1.42E-04	0.00031	0.00031	<1.38E-04	0.00028	<1.41E-04	<1.28E-04	0.00065	0.00035	<1.41E-04	<1.38E-04	0.00047	<1.38E-04	<1.41E-04	<1.41E-04	<1.35E-04	<1.30E-04	<1.41E-04	<1.38E-04	<1.40E-04
T-206		0.00087	0.09090	0.09120	0.16533	0.00450	0.00269	0.03682	0.01369	0.06165	0.00074	<1.01E-04	0.00052	<9.35E-05	0.00198	0.01587	0.01070	0.00104	0.01064	0.01203	0.00416	0.00761	0.00135	0.00095	0.00818	0.00081	<1.03E-04
T-207		0.00153	0.00082	0.00192	0.00700	0.00156	0.00046	0.00040	0.00067	0.00076	<1.35E-04	0.00029	<1.38E-04	<1.25E-04	0.00162	0.00186	<1.39E-04	<1.35E-04	0.00082	0.00052	<1.39E-04	<1.39E-04	<1.32E-04	<1.28E-04	<1.38E-04	<1.35E-04	0.00057
T-208		0.00054	0.00125	0.00179	0.02854	0.00163	0.00040	0.00049	0.00075	0.00487	<1.64E-04	0.00050	<1.68E-04	<1.52E-04	0.00046	<1.67E-04	0.00122	<1.65E-04	0.00242	0.00157	<1.69E-04	0.00100	<1.60E-04	<1.56E-04	<1.68E-04	0.00045	<1.67E-04
T-209		0.00012	<4.30E-05	<4.35E-05	<4.28E-05	0.00013	0.00011	<4.27E-05	<4.16E-05	<4.15E-05	<4.15E-05	<4.15E-05	<4.24E-05	<3.85E-05	<3.90E-05	<4.23E-05	<4.25E-05	<4.16E-05	<4.25E-05	<4.15E-05	<4.25E-05	<4.25E-05	<4.05E-05	<3.93E-05	<4.24E-05	<4.15E-05	<4.22E-05
T-210		0.00032	<6.89E-05	0.00018	<6.85E-05	0.00029	<6.66E-05	<6.84E-05	<6.66E-05	<6.65E-05	<6.65E-05	<6.65E-05	<6.79E-05	<6.17E-05	<6.24E-05	<6.77E-05	<6.81E-05	<6.66E-05	<6.81E-05	<6.65E-05	<6.81E-05	<6.81E-05	<6.49E-05	<6.30E-05	<6.79E-05	<6.65E-05	<6.76E-05
T-211		0.00007	<3.70E-05	<3.75E-05	<3.68E-05	0.00009	<3.58E-05	<3.68E-05	<3.58E-05	<3.57E-05	<3.57E-05	<3.57E-05	<3.65E-05	<3.31E-05	<3.35E-05	<3.64E-05	<3.66E-05	<3.58E-05	<3.66E-05	<3.58E-05	<3.66E-05	<3.66E-05	<3.49E-05	<3.39E-05	<3.65E-05	<3.58E-05	<3.64E-05
T-212		0.00007	<4.05E-05	<4.10E-05	<4.03E-05	<4.20E-05	<3.92E-05	<4.02E-05	<3.91E-05	<3.91E-05	<3.91E-05	<3.91E-05	<3.99E-05	<3.62E-05	<3.67E-05	<3.98E-05	<4.00E-05	<3.91E-05	<4.00E-05	<3.91E-05	<4.00E-05	<4.00E-05	<3.81E-05	<3.70E-05	<3.99E-05	0.00021	<3.97E-05
T-213		0.00011	<4.20E-05	<4.25E-05	<4.17E-05	0.00013	<4.06E-05	<4.17E-05	<4.06E-05	<4.05E-05	<4.05E-05	<4.05E-05	<4.14E-05	<3.76E-05	<3.80E-05	<4.13E-05	<4.15E-05	<4.06E-05	<4.15E-05	<4.05E-05	<4.15E-05	<4.15E-05	<3.95E-05	<3.84E-05	<4.14E-05	<4.05E-05	<4.12E-05
T-214		<2.43E-05	<2.71E-05	<2.75E-05	<2.70E-05	<2.81E-05	<2.63E-05	<2.69E-05	<2.62E-05	<2.62E-05	<2.62E-05	<2.62E-05	<2.67E-05	<2.43E-05	<2.46E-05	<2.67E-05	<2.68E-05	<2.62E-05	<2.68E-05	<2.62E-05	<2.68E-05	<2.68E-05	<2.56E-05	<2.48E-05	<2.67E-05	<2.62E-05	<2.66E-05
T-215		0.00029	<1.10E-04	0.00047	<1.09E-04	0.00053	0.00036	<1.09E-04	<1.06E-04	0.00022	<1.06E-04	<1.06E-04	<1.08E-04	<9.85E-05	<9.97E-05	<1.08E-04	<1.09E-04	<1.06E-04	<1.09E-04	<1.06E-04	<1.09E-04	0.00123	<1.04E-04	<1.01E-04	<1.08E-04	<1.06E-04	<1.08E-04
T-216		<3.67E-05	0.00015	<4.14E-05	<4.07E-05	0.00015	<3.96E-05	<4.06E-05	<3.96E-05	0.00009	<3.95E-05	<3.95E-05	<4.04E-05	<3.66E-05	<3.71E-05	<4.02E-05	<4.05E-05	<3.96E-05	<4.05E-05	<3.95E-05	<4.05E-05	<4.05E-05	<3.86E-05	<3.74E-05	<4.04E-05	<3.95E-05	<4.02E-05
T-217		0.00013	<4.78E-05	0.00018	<4.75E-05	0.00019	<4.63E-05	<4.75E-05	<4.62E-05	<4.62E-05	<4.62E-05	<4.62E-05	<4.71E-05	<4.28E-05	<4.33E-05	<4.70E-05	<4.73E-05	<4.62E-05	<4.73E-05	<4.62E-05	<4.73E-05	0.00028	<4.51E-05	<4.37E-05	<4.71E-05	<4.62E-05	<4.69E-05
T-218		0.00073	0.19319	0.20371	0.07388	0.02495	<5.64E-05	0.01487	<5.63E-05	0.00237	0.00015	<5.63E-05	<5.74E-05	<5.22E-05	<5.28E-05	0.00358	0.00287	<5.63E-05	0.01353	0.00032	0.00101	0.00144	<5.49E-05	<5.33E-05	0.00064	0.00034	<5.72E-05
T-301		<4.65E-05	<5.19E-05	0.00014	<5.16E-05	0.00024	<5.02E-05	<5.15E-05	<5.01E-05	0.00011	<5.01E-05	<5.01E-05	<5.11E-05	<4.64E-05	<4.70E-05	<5.10E-05	<5.13E-05	<5.01E-05	<5.13E-05	<5.01E-05	<5.13E-05	<5.13E-05	<4.89E-05	<4.74E-05	<5.11E-05	<5.01E-05	<5.09E-05
T-302		<6.19E-05	<6.90E-05	0.00029	<6.86E-05	0.00053	<6.68E-05	<6.85E-05	<6.67E-05	<6.66E-05	<6.66E-05	<6.66E-05	<6.80E-05	<6.18E-05	<6.25E-05	<6.78E-05	<6.83E-05	<6.67E-05	<6.83E-05	<6.67E-05	<6.83E-05	0.00019	<6.50E-05	<6.31E-05	<6.80E-05	<6.67E-05	<6.77E-05
T-303		0.00019	<7.59E-05	0.00028	<7.54E-05	0.00066	0.00017	0.00070	<7.33E-05	<7.32E-05	<7.32E-05	<7.32E-05	<7.48E-05	<6.79E-05	<6.87E-05	<7.46E-05	<7.51E-05	<7.33E-05	<7.51E-05	<7.33E-05	<7.51E-05	0.00029	<7.15E-05	<6.93E-05	<7.48E-05	<7.33E-05	<7.45E-05
T-304		0.00019	0.00092	0.00160	0.00049	0.00097	0.00063	0.00035	0.00225	<5.91E-05	<5.91E-05	<5.91E-05	<6.03E-05	<5.48E-05	0.00020	0.00014	<6.05E-05	<5.91E-05	<6.05E-05	0.00027	<6.05E-05	<6.05E-05	<5.77E-05	<5.59E-05	<6.03E-05	<5.91E-05	<6.01E-05
T-305		0.00100	0.03040	0.08561	0.02292	0.00257	0.00239	0.00909	0.00950	0.00181	<9.30E-05	0.00316	0.00475	<8.62E-05	0.00248	0.00496	0.00291	0.00082	0.00272	0.00393	0.00317	0.00552	0.00059	0.00296	0.00248	<9.30E-05	<9.46E-05
T-306		0.00016	<7.18E-05	0.00059	<7.14E-05	0.00074	0.00052	0.00043	0.00026	<6.93E-05	<6.93E-05	<6.93E-05	<7.08E-05	<6.43E-05	<6.51E-05	<7.06E-05	<7.10E-05	<6.94E-05	<7.10E-05	<6.94E-05	<7.10E-05	0.00023	<6.77E-05	<6.56E-05	<7.08E-05	<6.94E-05	<7.05E-05
T-307		0.00233	<7.41E-05	0.00038	<7.37E-05	0.00066	<7.17E-05	<7.36E-05	<7.16E-05	<7.15E-05	<7.15E-05	<7.15E-05	<7.30E-05	<6.63E-05	<6.71E-05	<7.28E-05	<7.33E-05	<7.16E-05	<7.33E-05	<7.16E-05	<7.33E-05	<7.33E-05	<6.98E-05	<6.77E-05	<7.30E-05	<7.16E-05	<7.27E-05
T-308		<7.42E-05	0.00231	0.00239	0.00089	0.00066	0.00021	0.00056	0.00021	0.00117	<8.00E-05	0.00030	<8.16E-05	<7.41E-05	<7.50E-05	<8.14E-05	<8.19E-05	<8.00E-05	<8.19E-05	<8.00E-05	<8.19E-05	<8.19E-05	<7.80E-05	<7.57E-05	<8.16E-05	<8.00E-05	<8.13E-05
T-309		<7.79E-05	0.00122	0.00167	0.00053	0.00075	<8.41E-05	<8.63E-05	<8.40E-05	0.00086	<8.39E-05	<8.39E-05	<8.56E-05	<7.78E-05	<7.87E-05	<8.54E-05	<8.60E-05	<8.40E-05	0.00019	<8.39E-05	<8.60E-05	<8.60E-05	<8.19E-05	<7.94E-05	<8.56E-05	<8.39E-05	<8.53E-05
T-310		<2.72E-05	<3.04E-05	<3.07E-05	<3.02E-05	<3.14E-05	<2.94E-05	<3.01E-05	<2.93E-05	<2.93E-05	<2.93E-05	<2.93E-05	<2.99E-05	<2.72E-05	<2.75E-05	<2.98E-05	<3.00E-05	<2.93E-05	<3.00E-05	<2.93E-05	<3.00E-05	<3.00E-05	<2.86E-05	<2.77E-05	<2.99E-05	<2.93E-05	<2.98E-05
T-311		<1.73E-04	<1.93E-04	<1.95E-04	<1.92E-04	<2.00E-04	<1.87E-04	<1.91E-04	0.00101	0.00058	<1.86E-04	<1.86E-04	<1.90E-04	<1.73E-04	<1.75E-04	<1.90E-04	<1.91E-04	<1.86E-04	<1.91E-04	<1.91E-04	<1.86E-04	<1.91E-04	<1.82E-04	<1.76E-04	<1.90E-04	<1.86E-04	<1.89E-04
T-312		0.00032	0.00168	<1.41E-04	0.00189	<1.44E-04	0.00068	0.00052	0.00180	0.00096	<1.34E-04	<1.34E-04	<1.37E-04	<1.24E-04	0.00132	0.00080	0.00051	0.00050	0.00103	<1.34E-04	0.00059	<1.37E-04	<1.31E-04	0.00133	<1.37E-04	<1.34E-04	<1.36E-04
T-313		0.00055	<1.53E-04	0.00069	<1.52E-04	0.00108	0.00030	0.00048	<1.48E-04	<1.48E-04	<1.48E-04	<1.48E-04	<1.51E-04	<1.37E-04	<1.39E-04	<1.51E-04	<1.52E-04	<1.48E-04	<1.52E-04	<1.48E-04	<1.52E-04	<1.52E-04	<1.44E-04	<1.40E-04	<1.51E-04	<1.48E-04	<1.50E-04
T-314		0.00048	<1.56E-04	0.00100	0.00205	0.00103	<1.51E-04	<1.55E-04	0.00088	0.00144	<1.50E-04	<1.50E-04	<1.54E-04	<1.39E-04	0.00247	0.00358	0.00070	<1.51E-04	0.00150	0.00087	<1.54E-04	0.00132	<1.47E-04	0.00251	<1.54E-04	<1.50E-04	0.03280

Table 4
TO-14

Sample Number	Compound	Ethylbenzene	o-xylene	Cyclohexane	3-Methylhexane	2-Methylhexane	2,3-Dimethylpentane	t-2-Pentene	2,4-Dimethylhexane	n-Decane	2,3-Dimethylbutane	n-Octane	2,3,4-Trimethylpentane	2-Methylheptane	3-Methylheptane	1-Butene	4-Methylheptane	2,3-Dimethylhexane	i-Butane	c-2-Butene	2,5-Dimethylhexane	i-Propylbenzene	4-Ethyltoluene	Styrene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3-Diethylbenzene
	CAS	100-41-4	95-47-6	110-82-7	589-34-4	591-76-4	565-59-3	646-04-8	589-43-5	124-18-5	79-29-8	111-65-9	565-75-3	592-27-8	589-81-1	106-98-9	589-53-7	584-94-1	75-28-5	590-18-1	592-13-2	98-82-8	622-96-8	100-42-5	108-67-8	95-63-6	141-93-5
	MW	106.2	106.2	84.2	100.2	100.2	100.2	70.1	114.2	142.3	86.2	114.2	114.2	114.2	114.2	56.1	114.2	114.2	58.1	56.1	114.2	120.2	120.2	104.2	120.2	120.2	134.2
Lab Data (ppbv)																											
T-101		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-102		2.33	0.93	4.2	ND	ND	ND	1.14	ND	0.45	ND	ND	ND	ND	ND	2.4	ND	ND	ND	ND	ND	ND	ND	ND	0.46	ND
T-103		ND	ND	ND	ND	ND	ND	0.85	ND	ND	ND	ND	ND	ND	ND	0.93	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-104		0.75	1.04	ND	ND	ND	ND	ND	ND	ND	ND	0.93	ND	ND	ND	2.71	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-105		0.97	0.7	ND	ND	ND	ND	0.9	ND	0.98	ND	0.54	0.35	ND	ND	2.64	ND	ND	ND	ND	ND	ND	ND	ND	0.46	0.78	ND
T-106		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-107		0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.18
T-108		20.45	6.46	ND	6.74	20.35	13.84	ND	12.26	ND	21.72	8.9	ND	9.64	8.97	ND	8.05	6.26	ND	ND	ND	ND	0.74	ND	ND	ND	ND
T-109		3.55	3.77	0.48	0.76	ND	ND	3.22	0.4	ND	ND	ND	ND	1.2	1.27	ND	1.13	ND	ND	ND	ND	0.88	ND	1.31	ND	ND	ND
T-110		5.76	4.7	ND	1.1	0.61	ND	7.57	0.55	ND	ND	ND	0.73	1.31	1.09	1.64	1.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-111		1	0.91	ND	2.12	ND	1.32	ND	ND	ND	ND	0.71	0.93	0.87	ND	1.02	ND	ND	ND	ND	0.37	ND	ND	ND	ND	ND	ND
T-112		3.77	1.17	0.64	ND	0.6	ND	ND	2.56	ND	ND	ND	ND	ND	ND	ND	0.84	ND	ND	ND	1.98	ND	ND	ND	ND	ND	ND
T-113		ND	ND	ND	ND	0.77	ND	ND	ND	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.59	ND	0.3	ND	ND	ND	ND
T-114		2.4	2.81	0.44	0.47	ND	ND	1.06	0.33	ND	ND	4.4	0.58	0.93	1.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.89	ND	ND
T-115		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-116		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-117		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-118		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-201		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-202		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-203		11.18	22.5	ND	1.92	1.19	0.82	2.83	0.9	7.9	ND	3.3	0.68	1.56	1.67	ND	2.53	ND	ND	ND	ND	3.68	3.24	ND	ND	ND	ND
T-204		ND	ND	0.41	0.71	2.31	0.54	1	ND	ND	1.44	ND	0.49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-205		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-206		ND	3.55	24.48	19.51	11.24	13.55	7.68	5.47	ND	ND	ND	11.14	2.14	1.95	1.12	0.72	3.25	ND	ND	1.48	ND	ND	ND	ND	ND	ND
T-207		ND	0.35	1.36	ND	ND	0.6	ND	ND	ND	ND	ND	1.36	ND	ND	ND	ND	ND	ND	2.36	ND	ND	ND	ND	ND	ND	ND
T-208		ND	ND	ND	1.02	ND	3.25	ND	0.97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-209		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.72	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-210		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-211		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-212		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-213		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-214		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-215		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-216		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-217		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-218		ND	ND	5.22	2.57	1.74	3.58	3.57	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.99	6.12	ND	ND	ND	ND	ND	ND	ND
T-301		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.71	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-302		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-303		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-304		ND	0.43	0.59	0.65	0.35	ND	ND	ND	ND	ND	0.35	0.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.77	ND	ND	ND
T-305		1.17	1.14	12	10.96	6.41	5.98	2.99	3.01	ND	ND	1.68	ND	1.6	2.11	ND	3.33	2	0.9	ND	1.54	ND	ND	0.73	ND	ND	ND
T-306		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-307		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-308		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-309		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-310		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-311		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.84	ND	ND	ND	ND	ND	ND	ND	ND
T-312		ND	1.29	ND	0.94	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-313		ND	ND	ND	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-314		1.33	2.57	2.02	0.55	2.17	ND	ND	1.23	14.37	ND	ND	2.29	0.98	0.97	ND	0.43	1.6	ND	ND	0.56	ND	ND	ND	ND	ND	ND

Table 4

TO-14

Sample Number / Compound	Ethylbenzene	o-xylene	Cyclohexane	3-Methylhexane	2-Methylhexane	2,3-Dimethylpentane	t-2-Pentene	2,4-Dimethylhexane	n-Decane	2,3-Dimethylbutane	n-Octane	2,3,4-Trimethylpentane	2-Methylheptane	3-Methylheptane	1-Butene	4-Methylheptane	2,3-Dimethylhexane	i-Butane	c-2-Butene	2,5-Dimethylhexane	i-Propylbenzene	4-Ethyltoluene	Styrene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3-Diethylbenzene
CAS	100-41-4	95-47-6	110-82-7	589-34-4	591-76-4	565-59-3	646-04-8	589-43-5	124-18-5	79-29-8	111-65-9	565-75-3	592-27-8	589-81-1	106-98-9	589-53-7	584-94-1	75-28-5	590-18-1	592-13-2	98-82-8	622-96-8	100-42-5	108-67-8	95-63-6	141-93-5
MW	106.2	106.2	84.2	100.2	100.2	100.2	70.1	114.2	142.3	86.2	114.2	114.2	114.2	114.2	56.1	114.2	114.2	58.1	56.1	114.2	120.2	120.2	104.2	120.2	120.2	134.2
MDL (ppbv)																										
T-101	0.301	0.301	0.402	0.344	0.344	0.344	0.482	0.301	0.241	0.402	0.301	0.301	0.301	0.301	0.602	0.301	0.301	0.602	0.602	0.301	0.268	0.268	0.301	0.268	0.268	0.241
T-102	0.311	0.311	0.415	0.355	0.355	0.355	0.498	0.311	0.249	0.415	0.311	0.311	0.311	0.311	0.622	0.311	0.311	0.622	0.622	0.311	0.276	0.276	0.311	0.276	0.276	0.249
T-103	0.299	0.299	0.398	0.341	0.341	0.341	0.478	0.299	0.239	0.398	0.299	0.299	0.299	0.299	0.598	0.299	0.299	0.598	0.598	0.299	0.266	0.266	0.299	0.266	0.266	0.239
T-104	0.327	0.327	0.437	0.374	0.374	0.374	0.524	0.327	0.262	0.437	0.327	0.327	0.327	0.327	0.655	0.327	0.327	0.655	0.655	0.327	0.291	0.291	0.327	0.291	0.291	0.262
T-105	0.307	0.307	0.409	0.350	0.350	0.350	0.491	0.307	0.245	0.409	0.307	0.307	0.307	0.307	0.613	0.307	0.307	0.613	0.613	0.307	0.273	0.273	0.307	0.273	0.273	0.245
T-106	0.306	0.306	0.409	0.350	0.350	0.350	0.490	0.306	0.245	0.409	0.306	0.306	0.306	0.306	0.613	0.306	0.306	0.613	0.613	0.306	0.272	0.272	0.306	0.272	0.272	0.245
T-107	0.308	0.308	0.411	0.352	0.352	0.352	0.493	0.308	0.247	0.411	0.308	0.308	0.308	0.308	0.617	0.308	0.308	0.617	0.617	0.308	0.274	0.274	0.308	0.274	0.274	0.247
T-108	0.316	0.316	0.421	0.361	0.361	0.361	0.505	0.316	0.252	0.421	0.316	0.316	0.316	0.316	0.631	0.316	0.316	0.631	0.631	0.316	0.280	0.280	0.316	0.280	0.280	0.252
T-109	0.325	0.325	0.433	0.371	0.371	0.371	0.519	0.325	0.260	0.433	0.325	0.325	0.325	0.325	0.649	0.325	0.325	0.649	0.649	0.325	0.289	0.289	0.325	0.289	0.289	0.260
T-110	0.319	0.319	0.425	0.364	0.364	0.364	0.510	0.319	0.255	0.425	0.319	0.319	0.319	0.319	0.637	0.319	0.319	0.637	0.637	0.319	0.283	0.283	0.319	0.283	0.283	0.255
T-111	0.312	0.312	0.417	0.357	0.357	0.357	0.500	0.312	0.250	0.417	0.312	0.312	0.312	0.312	0.625	0.312	0.312	0.625	0.625	0.312	0.278	0.278	0.312	0.278	0.278	0.250
T-112	0.309	0.309	0.412	0.353	0.353	0.353	0.494	0.309	0.247	0.412	0.309	0.309	0.309	0.309	0.618	0.309	0.309	0.618	0.618	0.309	0.275	0.275	0.309	0.275	0.275	0.247
T-113	0.309	0.309	0.411	0.353	0.353	0.353	0.494	0.309	0.247	0.411	0.309	0.309	0.309	0.309	0.617	0.309	0.309	0.617	0.617	0.309	0.274	0.274	0.309	0.274	0.274	0.247
T-114	0.317	0.317	0.422	0.362	0.362	0.362	0.507	0.317	0.253	0.422	0.317	0.317	0.317	0.317	0.633	0.317	0.317	0.633	0.633	0.317	0.282	0.282	0.317	0.282	0.282	0.253
T-115	0.316	0.316	0.422	0.362	0.362	0.362	0.506	0.316	0.253	0.422	0.316	0.316	0.316	0.316	0.633	0.316	0.316	0.633	0.633	0.316	0.281	0.281	0.316	0.281	0.281	0.253
T-116	0.370	0.370	0.493	0.423	0.423	0.423	0.592	0.370	0.296	0.493	0.370	0.370	0.370	0.370	0.740	0.370	0.370	0.740	0.740	0.370	0.329	0.329	0.370	0.329	0.329	0.296
T-117	0.311	0.311	0.415	0.356	0.356	0.356	0.498	0.311	0.249	0.415	0.311	0.311	0.311	0.311	0.623	0.311	0.311	0.623	0.623	0.311	0.277	0.277	0.311	0.277	0.277	0.249
T-118	0.284	0.284	0.379	0.325	0.325	0.325	0.455	0.284	0.228	0.379	0.284	0.284	0.284	0.284	0.569	0.284	0.284	0.569	0.569	0.284	0.253	0.253	0.284	0.253	0.253	0.228
T-201	0.303	0.303	0.404	0.346	0.346	0.346	0.485	0.303	0.243	0.404	0.303	0.303	0.303	0.303	0.606	0.303	0.303	0.606	0.606	0.303	0.269	0.269	0.303	0.269	0.269	0.243
T-202	0.295	0.295	0.394	0.338	0.338	0.338	0.473	0.295	0.236	0.394	0.295	0.295	0.295	0.295	0.591	0.295	0.295	0.591	0.591	0.295	0.263	0.263	0.295	0.263	0.263	0.236
T-203	0.299	0.299	0.399	0.342	0.342	0.342	0.478	0.299	0.239	0.399	0.299	0.299	0.299	0.299	0.598	0.299	0.299	0.598	0.598	0.299	0.266	0.266	0.299	0.266	0.266	0.239
T-204	0.294	0.294	0.392	0.336	0.336	0.336	0.471	0.294	0.235	0.392	0.294	0.294	0.294	0.294	0.588	0.294	0.294	0.588	0.588	0.294	0.261	0.261	0.294	0.261	0.261	0.235
T-205	0.317	0.317	0.422	0.362	0.362	0.362	0.507	0.317	0.253	0.422	0.317	0.317	0.317	0.317	0.633	0.317	0.317	0.633	0.633	0.317	0.282	0.282	0.317	0.282	0.282	0.253
T-206	0.311	0.311	0.415	0.355	0.355	0.355	0.497	0.311	0.249	0.415	0.311	0.311	0.311	0.311	0.622	0.311	0.311	0.622	0.622	0.311	0.276	0.276	0.311	0.276	0.276	0.249
T-207	0.327	0.327	0.435	0.373	0.373	0.373	0.523	0.327	0.261	0.435	0.327	0.327	0.327	0.327	0.653	0.327	0.327	0.653	0.653	0.327	0.290	0.290	0.327	0.290	0.290	0.261
T-208	0.314	0.314	0.418	0.359	0.359	0.359	0.502	0.314	0.251	0.418	0.314	0.314	0.314	0.314	0.628	0.314	0.314	0.628	0.628	0.314	0.279	0.279	0.314	0.279	0.279	0.251
T-209	0.325	0.325	0.434	0.372	0.372	0.372	0.520	0.325	0.260	0.434	0.325	0.325	0.325	0.325	0.650	0.325	0.325	0.650	0.650	0.325	0.289	0.289	0.325	0.289	0.289	0.260
T-210	0.317	0.317	0.423	0.363	0.363	0.363	0.508	0.317	0.254	0.423	0.317	0.317	0.317	0.317	0.635	0.317	0.317	0.635	0.635	0.317	0.282	0.282	0.317	0.282	0.282	0.254
T-211	0.322	0.322	0.429	0.367	0.367	0.367	0.514	0.322	0.257	0.429	0.322	0.322	0.322	0.322	0.643	0.322	0.322	0.643	0.643	0.322	0.286	0.286	0.322	0.286	0.286	0.257
T-212	0.338	0.338	0.451	0.387	0.387	0.387	0.541	0.338	0.271	0.451	0.338	0.338	0.338	0.338	0.677	0.338	0.338	0.677	0.677	0.338	0.301	0.301	0.338	0.301	0.301	0.271
T-213	0.334	0.334	0.445	0.381	0.381	0.381	0.534	0.334	0.267	0.445	0.334	0.334	0.334	0.334	0.667	0.334	0.334	0.667	0.667	0.334	0.297	0.297	0.334	0.297	0.297	0.267
T-214	0.278	0.278	0.371	0.318	0.318	0.318	0.445	0.278	0.223	0.371	0.278	0.278	0.278	0.278	0.557	0.278	0.278	0.557	0.557	0.278	0.247	0.247	0.278	0.247	0.247	0.223
T-215	0.323	0.323	0.430	0.369	0.369	0.369	0.516	0.323	0.258	0.430	0.323	0.323	0.323	0.323	0.645	0.323	0.323	0.645	0.645	0.323	0.287	0.287	0.323	0.287	0.287	0.258
T-216	0.346	0.346	0.461	0.395	0.395	0.395	0.553	0.346	0.277	0.461	0.346	0.346	0.346	0.346	0.691	0.346	0.346	0.691	0.691	0.346	0.307	0.307	0.346	0.307	0.307	0.277
T-217	0.318	0.318	0.424	0.363	0.363	0.363	0.509	0.318	0.254	0.424	0.318	0.318	0.318	0.318	0.636	0.318	0.318	0.636	0.636	0.318	0.283	0.283	0.318	0.283	0.283	0.254
T-218	0.317	0.317	0.422	0.362	0.362	0.362	0.507	0.317	0.253	0.422	0.317	0.317	0.317	0.317	0.634	0.317	0.317	0.634	0.634	0.317	0.282	0.282	0.317	0.282	0.282	0.253
T-301	0.298	0.298	0.397	0.340	0.340	0.340	0.476	0.298	0.238	0.397	0.298	0.298	0.298	0.298	0.596	0.298	0.298	0.596	0.596	0.298	0.265	0.265	0.298	0.265	0.265	0.238
T-302	0.297	0.297	0.396	0.339	0.339	0.339	0.475	0.297	0.238	0.396	0.297	0.297	0.297	0.297	0.594	0.297	0.297	0.594	0.594	0.297	0.264	0.264	0.297	0.264	0.264	0.238
T-303	0.302	0.302	0.402	0.345	0.345	0.345	0.483	0.302	0.241	0.402	0.302	0.302	0.302	0.302	0.603	0.302	0.302	0.603	0.603	0.302	0.268	0.268	0.302	0.268	0.268	0.241
T-304	0.302	0.302	0.402	0.345	0.345	0.345	0.483	0.302	0.241	0.402	0.302	0.302	0.302	0.302	0.603	0.302	0.302	0.603	0.603	0.302	0.268	0.268	0.302	0.268	0.268	0.241
T-305	0.307	0.307	0.409	0.351	0.351	0.351	0.491	0.307	0.246	0.409	0.307	0.307	0.307	0.307	0.614	0.307	0.307	0.614	0.614	0.307	0.273	0.273	0.307	0.273	0.273	0.246
T-306	0.303	0.303	0.404	0.346	0.346	0.346	0.484	0.303	0.242	0.404	0.303	0.303	0.303	0.303	0.605	0.303	0.303	0.605	0.605	0.303	0.269	0.269	0.303	0.269	0.269	0.242
T-307	0.305	0.305	0.406	0.348	0.348	0.348	0.488	0.305	0.244	0.406	0.305	0.305	0.305	0.305	0.610	0.305	0.305	0.610	0.610	0.305	0.271	0.271	0.305	0.271	0.271	0.244
T-308	0.305	0.305	0.407	0.349	0.349	0.349	0.488	0.305	0.244	0.407	0.305	0.305	0.305	0.305	0.610	0.305	0.305	0.610	0.610	0.305	0.271	0.271	0.305	0.271	0.271	0.244
T-309	0.302	0.302	0.403	0.345	0.345	0.345	0.483	0.302	0.242	0.403	0.302	0.302	0.302	0.302	0.604	0.302	0.302	0.604	0.604	0.302	0.268	0.268	0.302	0.268	0.268	0.242
T-310	0.322	0.322	0.429	0.368	0.368	0.368	0.515	0.322	0.257	0.429	0.322	0.322	0.322	0.322	0.644	0.322	0.322	0.644	0.644	0.322	0.286	0.286	0.322	0.286	0.286	0.257
T-311	0.321	0.321	0.428	0.367	0.367	0.367	0.514	0.321	0.257	0.428	0.321	0.321	0.321	0.321	0.642	0.321	0.321	0.642	0.642	0.321	0.285	0.285	0.321	0.285	0.285	0.257
T-312	0.331	0.331	0.442	0.379	0.379	0.379	0.530	0.331	0.265	0.442	0.331	0.331	0.331	0.331	0.663	0.331	0.331	0.663	0.663	0.331	0.294	0.294	0.331	0.294	0.294	0.265
T-313	0.314	0.314	0.418	0.358	0.358	0.358	0.502	0.314	0.251	0.418	0.314	0.314	0.314	0.314	0.627	0.314	0.314	0.627	0.627	0.314	0.279	0.279	0.314	0.279	0.279	0.251
T-314	0.312	0.312	0.417	0.357	0.357	0.357	0.500	0.312	0.250	0.417	0.312	0.312	0.312	0.312	0.625	0.312	0.312	0.625	0.625	0.312	0.278	0.278	0.312	0.278	0.278	0.250

Table 4
TO-14

Sample Number / Compound	Ethylbenzene	o-xylene	Cyclohexane	3-Methylhexane	2-Methylhexane	2,3-Dimethylpentane	t-2-Pentene	2,4-Dimethylhexane	n-Decane	2,3-Dimethylbutane	n-Octane	2,3,4-Trimethylpentane	2-Methylheptane	3-Methylheptane	1-Butene	4-Methylheptane	2,3-Dimethylhexane	i-Butane	c-2-Butene	2,5-Dimethylhexane	i-Propylbenzene	4-Ethyltoluene	Styrene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3-Diethylbenzene
CAS	100-41-4	95-47-6	110-82-7	589-34-4	591-76-4	565-59-3	646-04-8	589-43-5	124-18-5	79-29-8	111-65-9	565-75-3	592-27-8	589-81-1	106-98-9	589-53-7	584-94-1	75-28-5	590-18-1	592-13-2	98-82-8	622-96-8	100-42-5	108-67-8	95-63-6	141-93-5
MW	106.2	106.2	84.2	100.2	100.2	100.2	70.1	114.2	142.3	86.2	114.2	114.2	114.2	114.2	56.1	114.2	114.2	58.1	56.1	114.2	120.2	120.2	104.2	120.2	120.2	134.2
Data Used (ug/l)																										
T-101	0.68	0.68	0.72	0.73	0.73	0.73	0.72	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.72	0.73	0.73	0.74	0.72	0.73	0.68	0.68	0.67	0.68	0.68	0.69
T-102	10.57	4.22	15.10	0.76	0.76	0.76	3.41	0.76	2.73	0.76	0.76	0.76	0.76	0.76	5.75	0.76	0.76	0.77	0.74	0.76	0.71	0.71	0.69	0.71	2.36	0.71
T-103	0.67	0.67	0.71	0.72	0.72	0.72	2.52	0.72	0.72	0.72	0.72	0.72	0.72	0.72	2.20	0.72	0.72	0.73	0.71	0.72	0.67	0.67	0.66	0.67	0.67	0.68
T-104	3.38	4.69	0.78	0.80	0.80	0.80	0.78	0.79	0.79	0.80	4.51	0.79	0.79	0.79	6.45	0.79	0.79	0.81	0.78	0.79	0.74	0.74	0.72	0.74	0.74	0.75
T-105	4.27	3.08	0.71	0.73	0.73	0.73	2.61	0.73	5.78	0.73	2.55	1.66	0.73	0.73	6.13	0.73	0.73	0.74	0.71	0.73	0.68	0.68	0.66	2.29	3.88	0.68
T-106	0.68	0.68	0.72	0.74	0.74	0.74	0.72	0.73	0.73	0.74	0.73	0.73	0.73	0.73	0.72	0.73	0.73	0.75	0.72	0.73	0.69	0.69	0.67	0.69	0.69	0.69
T-107	1.53	0.67	0.71	0.73	0.73	0.73	0.71	0.73	0.72	0.73	0.73	0.73	0.73	0.73	0.71	0.73	0.73	0.74	0.71	0.73	0.68	0.68	0.66	0.68	0.68	6.52
T-108	90.11	28.47	0.73	28.02	84.61	57.54	0.73	58.09	0.75	77.69	42.17	0.75	45.68	42.50	0.73	38.14	29.66	0.76	0.73	0.75	0.70	3.69	0.68	0.70	0.70	0.70
T-109	15.64	16.61	1.68	3.16	0.77	0.77	9.37	1.90	0.77	0.77	0.77	0.77	5.69	6.02	0.76	5.35	0.77	0.78	0.76	0.77	4.39	0.72	5.66	0.72	0.72	0.72
T-110	24.96	20.36	0.73	4.50	2.49	0.74	21.65	2.56	0.74	0.75	0.74	3.40	6.10	5.08	3.75	5.78	0.74	0.76	0.73	0.74	0.69	0.69	0.68	0.69	0.69	0.70
T-111	4.37	3.97	0.72	8.73	0.74	5.44	0.72	0.73	0.73	0.74	3.33	4.37	4.08	0.73	2.35	0.73	0.73	0.75	0.72	1.74	0.69	0.69	0.67	0.69	0.69	0.69
T-112	16.24	5.04	2.19	0.72	2.44	0.72	0.70	11.86	0.71	0.72	0.72	0.72	0.72	0.72	0.70	3.89	0.72	0.73	0.70	9.17	0.67	0.67	0.65	0.67	0.67	0.67
T-113	0.67	0.67	0.71	0.72	3.15	0.72	0.71	0.72	1.92	0.72	0.72	0.72	0.72	0.72	0.71	0.72	0.72	0.73	0.71	7.42	0.67	1.47	0.66	0.67	0.67	0.68
T-114	10.46	12.24	1.52	1.93	0.74	0.74	3.05	1.55	0.74	0.75	20.62	2.72	4.36	4.73	0.73	0.74	0.74	0.75	0.73	0.74	0.69	0.69	0.68	4.39	0.69	0.70
T-115	0.69	0.69	0.73	0.74	0.74	0.74	0.73	0.74	0.74	0.75	1.83	0.74	0.74	0.74	0.73	0.74	0.74	0.75	0.73	0.74	0.69	0.69	0.68	0.69	0.69	0.70
T-116	0.80	0.80	0.85	0.86	0.86	0.86	0.85	0.86	0.86	0.87	0.86	0.86	0.86	0.86	0.85	0.86	0.86	0.88	0.85	0.86	0.81	0.81	0.79	0.81	0.81	0.81
T-117	0.67	0.67	0.71	0.73	0.73	0.73	0.71	0.73	0.72	0.73	0.73	0.73	0.73	0.73	0.71	0.73	0.73	0.74	0.71	0.73	0.68	0.68	0.66	0.68	0.68	0.68
T-118	0.62	0.62	0.66	0.67	0.67	0.67	0.65	0.67	0.66	0.67	0.67	0.67	0.67	0.67	0.65	0.67	0.67	0.68	0.65	0.67	0.62	0.62	0.61	0.62	0.62	0.63
T-201	0.69	0.69	0.73	0.74	0.74	0.74	0.73	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.73	0.74	0.74	0.75	0.73	0.74	0.69	0.69	0.67	0.69	0.69	0.70
T-202	0.66	0.66	0.70	0.72	0.72	0.72	0.70	0.71	0.71	0.72	0.71	0.71	0.71	0.71	0.70	0.71	0.71	0.73	0.70	0.71	0.67	0.67	0.65	0.67	0.67	0.67
T-203	50.41	101.45	0.71	8.17	5.06	3.49	8.42	4.36	47.73	0.73	16.00	3.30	7.56	8.10	0.71	12.27	0.72	0.74	0.71	0.72	18.78	16.53	0.66	0.68	0.68	0.68
T-204	0.66	0.66	1.46	3.01	9.81	2.29	2.97	0.71	0.71	5.26	0.71	2.37	0.71	0.71	0.70	0.71	0.71	0.72	0.70	0.71	0.67	0.67	0.65	0.67	0.67	0.67
T-205	0.69	0.69	0.73	0.74	0.74	0.74	0.73	0.74	0.74	0.75	0.74	2.24	0.74	0.74	0.73	0.74	0.74	0.75	0.73	0.74	0.69	0.69	0.68	0.69	0.69	0.70
T-206	0.69	15.64	85.53	81.11	46.73	56.33	22.34	25.92	0.73	0.74	0.74	52.79	10.14	9.24	2.61	3.41	15.40	0.75	0.72	7.01	0.69	0.69	0.67	0.69	0.69	0.69
T-207	0.69	1.48	4.55	0.74	0.74	2.39	0.73	0.74	0.74	0.75	0.74	6.18	0.74	0.74	0.73	0.74	0.74	0.75	5.26	0.74	0.69	0.69	0.68	0.69	0.69	0.70
T-208	0.68	0.68	0.71	4.15	0.73	13.21	0.71	4.49	0.72	0.73	0.73	0.73	0.73	0.73	0.71	0.73	0.73	0.74	0.71	0.73	0.68	0.68	0.66	0.68	0.68	0.68
T-209	0.69	0.69	0.73	0.75	0.75	0.75	0.73	0.75	0.74	0.75	0.75	0.75	0.75	0.75	3.88	0.75	0.75	0.76	0.73	0.75	0.70	0.70	0.68	0.70	0.70	0.70
T-210	0.68	0.68	0.72	0.73	0.73	0.73	0.72	0.73	0.73	0.74	0.73	0.73	0.73	0.73	3.81	0.73	0.73	0.75	0.72	0.73	0.69	0.69	0.67	0.69	0.69	0.69
T-211	0.68	0.68	0.72	0.74	0.74	0.74	0.72	0.74	0.73	0.74	0.74	0.74	0.74	0.74	0.72	0.74	0.74	0.75	0.72	0.74	0.69	0.69	0.67	0.69	0.69	0.69
T-212	0.73	0.73	0.77	0.78	0.78	0.78	0.77	0.78	0.78	0.79	0.78	0.78	0.78	0.78	0.77	0.78	0.78	0.79	0.77	0.78	0.73	0.73	0.71	0.73	0.73	0.73
T-213	0.72	0.72	0.76	0.77	0.77	0.77	0.76	0.77	0.77	0.78	0.77	0.77	0.77	0.77	3.54	0.77	0.77	0.78	0.76	0.77	0.72	0.72	0.70	0.72	0.72	0.72
T-214	0.61	0.61	0.64	0.65	0.65	0.65	0.64	0.65	0.65	0.66	0.65	0.65	0.65	0.65	0.64	0.65	0.65	0.66	0.64	0.65	0.61	0.61	0.59	0.61	0.61	0.61
T-215	0.67	0.67	0.71	0.72	0.72	0.72	0.70	0.72	0.71	0.72	0.72	0.72	0.72	0.72	0.70	0.72	0.72	0.73	0.70	0.72	0.67	0.67	0.65	0.67	0.67	0.67
T-216	0.73	0.73	0.77	0.79	0.79	0.79	0.77	0.79	0.79	0.79	0.79	0.79	0.79	0.79	1.79	0.79	0.79	0.80	0.77	0.79	0.74	0.74	0.72	0.74	0.74	0.74
T-217	0.68	0.68	0.72	0.73	0.73	0.73	0.72	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.72	0.73	0.73	0.74	0.72	0.73	0.68	0.68	0.67	0.68	0.68	0.69
T-218	0.65	0.65	17.04	9.99	6.76	13.91	9.70	4.87	0.70	0.71	0.70	0.70	0.70	0.70	0.69	0.70	0.70	11.24	13.31	0.70	0.66	0.66	0.64	0.66	0.66	0.66
T-301	0.68	0.68	0.72	0.74	0.74	0.74	0.72	0.73	0.73	0.74	0.73	0.73	0.73	0.73	1.72	0.73	0.73	0.75	0.72	0.73	0.69	0.69	0.67	0.69	0.69	0.69
T-302	0.68	0.68	0.72	0.73	0.73	0.73	0.72	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.72	0.73	0.73	0.74	0.72	0.73	0.68	0.68	0.66	0.68	0.68	0.68
T-303	0.69	0.69	0.73	0.74	0.74	0.74	0.73	0.74	0.74	0.75	0.74	0.74	0.74	0.74	0.73	0.74	0.74	0.76	0.73	0.74	0.69	0.69	0.68	0.69	0.69	0.70
T-304	0.69	1.96	2.13	2.79	1.50	0.74	0.73	0.74	0.74	0.74	1.71	2.06	0.74	0.74	0.73	0.74	0.74	0.75	0.73	0.74	0.69	0.69	3.44	0.69	0.69	0.69
T-305	5.04	4.91	40.99	44.56	26.06	24.31	8.50	13.95	0.71	0.72	7.78	0.71	7.41	9.78	0.70	15.43	9.27	2.12	0.70	7.14	0.67	0.67	3.09	0.67	0.67	0.67
T-306	0.66	0.66	0.70	0.71	0.71	0.71	0.70	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.70	0.71	0.71	0.72	0.70	0.71	0.66	0.66	0.65	0.66	0.66	0.67
T-307	0.67	0.67	0.71	0.72	0.72	0.72	0.71	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.71	0.72	0.72	0.73	0.71	0.72	0.67	0.67	0.66	0.67	0.67	0.68
T-308	0.66	0.66	0.70	0.72	0.72	0.72	0.70	0.71	0.71	0.72	0.71	0.71	0.71	0.71	0.70	0.71	0.71	0.73	0.70	0.71	0.67	0.67	0.65	0.67	0.67	0.67
T-309	0.66	0.66	0.69	0.71	0.71	0.71	0.69	0.71	0.70	0.71	0.71	0.71	0.71	0.71	0.69	0.71	0.71	0.72	0.69	0.71	0.66	0.66	0.64	0.66	0.66	0.66
T-310	0.70	0.70	0.74	0.76	0.76	0.76	0.74	0.75	0.75	0.76	0.75	0.75	0.75	0.75	0.74	0.75	0.75	0.77	0.74	0.75	0.71	0.71	0.69	0.71	0.71	0.71
T-311	0.67	0.67	0.71	0.72	0.72	0.72	0.71	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.71	0.72	0.72	11.04	0.71	0.72	0.67	0.67	0.66	0.67	0.67	0.68
T-312	0.70	5.48	0.74	3.77	0.76	0.76	0.74	0.76	0.75	0.76	0.76	4.57	0.76	0.76	0.74	0.76	0.76	0.77	0.74	0.76	0.71	0.71	0.69	0.71	0.71	0.71
T-313	0.64	0.64	0.68	1.44	0.70	0.70	0.68	0.69	0.69	0.70	0.69	0.69	0.69	0.69	0.68	0.69	0.69	0.71	0.68	0.69	0.65	0.65	0.63	0.65	0.65	0.65
T-314	5.52	10.66	6.64	2.15	8.49	0.70	0.68	5.49	79.86	0.70	0.70	10.21	4.37	4.33	0.68	1.92	7.14	0.71	0.68	2.50	0.65	0.65	0.64	0.65	0.65	0.65

Table 4

TO-14

Sample Number	Compound	Ethylbenzene	o-xylene	Cyclohexane	3-Methylhexane	2-Methylhexane	2,3-Dimethylpentane	t-2-Pentene	2,4-Dimethylhexane	n-Decane	2,3-Dimethylbutane	n-Octane	2,3,4-Trimethylpentane	2-Methylheptane	3-Methylheptane	1-Butene	4-Methylheptane	2,3-Dimethylhexane	i-Butane	c-2-Butene	2,5-Dimethylhexane	i-Propylbenzene	4-Ethyltoluene	Styrene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3-Diethylbenzene
	CAS	100-41-4	95-47-6	110-82-7	589-34-4	591-76-4	565-59-3	646-04-8	589-43-5	124-18-5	79-29-8	111-65-9	565-75-3	592-27-8	589-81-1	106-98-9	589-53-7	584-94-1	75-28-5	590-18-1	592-13-2	98-82-8	622-96-8	100-42-5	108-67-8	95-63-6	141-93-5
	MW	106.2	106.2	84.2	100.2	100.2	100.2	70.1	114.2	142.3	86.2	114.2	114.2	114.2	114.2	56.1	114.2	114.2	58.1	56.1	114.2	120.2	120.2	104.2	120.2	120.2	134.2
Flux (mg/m2-min)																											
T-101		<5.98E-05	<5.98E-05	<6.32E-05	<6.44E-05	<6.44E-05	<6.44E-05	<6.31E-05	<6.43E-05	<6.41E-05	<6.47E-05	<6.43E-05	<6.43E-05	<6.43E-05	<6.43E-05	<6.31E-05	<6.43E-05	<6.43E-05	<6.54E-05	<6.31E-05	<6.43E-05	<6.01E-05	<6.01E-05	<5.86E-05	<6.01E-05	<6.01E-05	<6.04E-05
T-102		0.00100	0.00040	0.00142	<7.17E-05	<7.17E-05	<7.17E-05	0.00032	<7.15E-05	0.00026	<7.19E-05	<7.15E-05	<7.15E-05	<7.15E-05	<7.15E-05	0.00054	<7.15E-05	<7.15E-05	<7.27E-05	<7.02E-05	<7.15E-05	<6.69E-05	<6.69E-05	<6.52E-05	<6.69E-05	0.00022	<6.72E-05
T-103		<1.01E-04	<1.01E-04	<1.06E-04	<1.08E-04	<1.08E-04	<1.08E-04	0.00038	<1.08E-04	<1.08E-04	<1.09E-04	<1.08E-04	<1.08E-04	<1.08E-04	<1.08E-04	0.00033	<1.08E-04	<1.08E-04	<1.10E-04	<1.06E-04	<1.08E-04	<1.01E-04	<1.01E-04	<9.87E-05	<1.01E-04	<1.01E-04	<1.02E-04
T-104		0.00030	0.00041	<6.82E-05	<6.96E-05	<6.96E-05	<6.96E-05	<6.82E-05	<6.94E-05	<6.92E-05	<6.98E-05	0.00039	<6.94E-05	<6.94E-05	<6.94E-05	0.00056	<6.94E-05	<6.94E-05	<7.06E-05	<6.82E-05	<6.94E-05	<6.49E-05	<6.49E-05	<6.33E-05	<6.49E-05	<6.49E-05	<6.52E-05
T-105		0.00061	0.00044	<1.01E-04	<1.03E-04	<1.03E-04	<1.03E-04	0.00037	<1.03E-04	0.00082	<1.04E-04	0.00036	0.00023	<1.03E-04	<1.03E-04	0.00087	<1.03E-04	<1.03E-04	<1.05E-04	<1.01E-04	<1.03E-04	<9.63E-05	<9.63E-05	<9.39E-05	0.00032	0.00055	<9.68E-05
T-106		<1.71E-04	<1.71E-04	<1.80E-04	<1.84E-04	<1.84E-04	<1.84E-04	<1.80E-04	<1.83E-04	<1.83E-04	<1.85E-04	<1.83E-04	<1.83E-04	<1.83E-04	<1.83E-04	<1.80E-04	<1.83E-04	<1.83E-04	<1.87E-04	<1.80E-04	<1.83E-04	<1.72E-04	<1.72E-04	<1.67E-04	<1.72E-04	<1.72E-04	<1.72E-04
T-107		0.00015	<6.42E-05	<6.79E-05	<6.92E-05	<6.92E-05	<6.92E-05	<6.78E-05	<6.90E-05	<6.88E-05	<6.95E-05	<6.90E-05	<6.90E-05	<6.90E-05	<6.90E-05	<6.78E-05	<6.90E-05	<6.90E-05	<7.02E-05	<6.78E-05	<6.90E-05	<6.46E-05	<6.46E-05	<6.30E-05	<6.46E-05	<6.46E-05	0.00062
T-108		0.01716	0.00542	<1.40E-04	0.00534	0.01611	0.01096	<1.40E-04	0.01106	<1.42E-04	0.01479	0.00803	<1.42E-04	0.00870	0.00809	<1.40E-04	0.00726	0.00565	<1.45E-04	<1.40E-04	<1.42E-04	<1.33E-04	0.00070	<1.30E-04	<1.33E-04	<1.33E-04	<1.34E-04
T-109		0.00350	0.00371	0.00037	0.00071	<1.72E-04	<1.72E-04	0.00209	0.00042	<1.71E-04	<1.73E-04	<1.72E-04	<1.72E-04	0.00127	0.00135	<1.69E-04	0.00120	<1.72E-04	<1.75E-04	<1.69E-04	<1.72E-04	0.00098	<1.61E-04	0.00127	<1.61E-04	<1.61E-04	<1.62E-04
T-110		0.00366	0.00299	<1.07E-04	0.00066	0.00037	<1.09E-04	0.00318	0.00038	<1.09E-04	<1.10E-04	<1.09E-04	0.00050	0.00090	0.00075	0.00055	0.00085	<1.09E-04	<1.11E-04	<1.07E-04	<1.09E-04	<1.02E-04	<1.02E-04	<9.94E-05	<1.02E-04	<1.02E-04	<1.02E-04
T-111		0.00036	0.00032	<5.89E-05	0.00071	<6.00E-05	0.00044	<5.88E-05	<5.99E-05	<5.97E-05	<6.03E-05	0.00027	0.00036	0.00033	<5.99E-05	0.00019	<5.99E-05	<5.99E-05	<6.09E-05	<5.88E-05	0.00014	<5.60E-05	<5.60E-05	<5.46E-05	<5.60E-05	<5.60E-05	<5.63E-05
T-112		0.00088	0.00027	0.00012	<3.89E-05	0.00013	<3.89E-05	<3.81E-05	0.00064	<3.86E-05	<3.90E-05	<3.88E-05	<3.88E-05	<3.88E-05	<3.88E-05	<3.81E-05	0.00021	<3.88E-05	<3.94E-05	<3.81E-05	0.00050	<3.63E-05	<3.63E-05	<3.54E-05	<3.63E-05	<3.63E-05	<3.64E-05
T-113		<9.61E-05	<9.61E-05	<1.02E-04	<1.04E-04	0.00045	<1.04E-04	<1.01E-04	<1.03E-04	0.00028	<1.04E-04	<1.03E-04	<1.03E-04	<1.03E-04	<1.03E-04	<1.02E-04	<1.03E-04	<1.03E-04	<1.05E-04	<1.02E-04	0.00107	<9.67E-05	0.00021	<9.43E-05	<9.67E-05	<9.67E-05	<9.71E-05
T-114		0.00080	0.00094	0.00012	0.00015	<5.70E-05	<5.70E-05	0.00023	0.00012	<5.67E-05	<5.72E-05	0.00158	0.00021	0.00033	0.00036	<5.58E-05	<5.68E-05	<5.68E-05	<5.78E-05	<5.58E-05	<5.68E-05	<5.32E-05	<5.32E-05	<5.19E-05	0.00034	<5.32E-05	<5.34E-05
T-115		<3.58E-05	<3.58E-05	<3.79E-05	<3.86E-05	<3.86E-05	<3.86E-05	<3.78E-05	<3.85E-05	<3.84E-05	<3.88E-05	0.00009	<3.85E-05	<3.85E-05	<3.85E-05	<3.79E-05	<3.85E-05	<3.85E-05	<3.92E-05	<3.79E-05	<3.85E-05	<3.60E-05	<3.60E-05	<3.52E-05	<3.60E-05	<3.60E-05	<3.62E-05
T-116		<3.60E-05	<3.60E-05	<3.81E-05	<3.89E-05	<3.89E-05	<3.89E-05	<3.81E-05	<3.87E-05	<3.86E-05	<3.90E-05	<3.87E-05	<3.87E-05	<3.87E-05	<3.87E-05	<3.81E-05	<3.87E-05	<3.87E-05	<3.94E-05	<3.81E-05	<3.87E-05	<3.63E-05	<3.63E-05	<3.54E-05	<3.63E-05	<3.63E-05	<3.64E-05
T-117		<3.15E-05	<3.15E-05	<3.33E-05	<3.40E-05	<3.40E-05	<3.40E-05	<3.33E-05	<3.39E-05	<3.38E-05	<3.41E-05	<3.39E-05	<3.39E-05	<3.39E-05	<3.39E-05	<3.33E-05	<3.39E-05	<3.39E-05	<3.45E-05	<3.33E-05	<3.39E-05	<3.17E-05	<3.17E-05	<3.09E-05	<3.17E-05	<3.17E-05	<3.19E-05
T-118		<2.68E-05	<2.68E-05	<2.83E-05	<2.88E-05	<2.88E-05	<2.88E-05	<2.83E-05	<2.88E-05	<2.87E-05	<2.90E-05	<2.88E-05	<2.88E-05	<2.88E-05	<2.88E-05	<2.83E-05	<2.88E-05	<2.88E-05	<2.93E-05	<2.83E-05	<2.88E-05	<2.69E-05	<2.69E-05	<2.62E-05	<2.69E-05	<2.69E-05	<2.70E-05
T-201		<9.94E-05	<9.94E-05	<1.05E-04	<1.07E-04	<1.07E-04	<1.07E-04	<1.05E-04	<1.07E-04	<1.07E-04	<1.08E-04	<1.07E-04	<1.07E-04	<1.07E-04	<1.07E-04	<1.05E-04	<1.07E-04	<1.07E-04	<1.09E-04	<1.05E-04	<1.07E-04	<1.00E-04	<1.00E-04	<9.75E-05	<1.00E-04	<1.00E-04	<1.00E-04
T-202		<8.36E-05	<8.36E-05	<8.84E-05	<9.02E-05	<9.02E-05	<9.02E-05	<8.83E-05	<8.99E-05	<8.97E-05	<9.05E-05	<8.99E-05	<8.99E-05	<8.99E-05	<8.99E-05	<8.84E-05	<8.99E-05	<8.99E-05	<9.15E-05	<8.84E-05	<8.99E-05	<8.41E-05	<8.41E-05	<8.21E-05	<8.41E-05	<8.41E-05	<8.45E-05
T-203		0.00378	0.00761	<5.34E-05	0.00061	0.00038	0.00026	0.00063	0.00033	0.00358	<5.47E-05	0.00120	0.00025	0.00057	0.00061	<5.34E-05	0.00092	<5.43E-05	<5.53E-05	<5.34E-05	<5.43E-05	0.00141	0.00124	<4.96E-05	<5.08E-05	<5.08E-05	<5.11E-05
T-204		<3.03E-05	<3.03E-05	0.00007	0.00014	0.00045	0.00010	0.00014	<3.26E-05	<3.25E-05	0.00024	<3.26E-05	0.00011	<3.26E-05	<3.26E-05	<3.20E-05	<3.26E-05	<3.26E-05	<3.32E-05	<3.20E-05	<3.26E-05	<3.05E-05	<3.05E-05	<2.97E-05	<3.05E-05	<3.05E-05	<3.06E-05
T-205		<1.30E-04	<1.30E-04	<1.38E-04	<1.41E-04	<1.41E-04	<1.41E-04	<1.38E-04	<1.40E-04	<1.40E-04	<1.41E-04	<1.40E-04	0.00043	<1.40E-04	<1.40E-04	<1.38E-04	<1.40E-04	<1.40E-04	<1.43E-04	<1.38E-04	<1.40E-04	<1.31E-04	<1.31E-04	<1.28E-04	<1.31E-04	<1.31E-04	<1.32E-04
T-206		<9.55E-05	0.00218	0.01192	0.01130	0.00651	0.00785	0.00311	0.00361	<1.02E-04	<1.03E-04	<1.03E-04	0.00736	0.00141	0.00129	0.00036	0.00048	0.00215	<1.04E-04	<1.01E-04	0.00098	<9.60E-05	<9.60E-05	<9.37E-05	<9.60E-05	<9.60E-05	<9.65E-05
T-207		<1.28E-04	0.00027	0.00085	<1.38E-04	<1.38E-04	0.00044	<1.35E-04	<1.38E-04	<1.37E-04	<1.39E-04	<1.38E-04	0.00115	<1.38E-04	<1.38E-04	<1.35E-04	<1.38E-04	<1.38E-04	<1.40E-04	0.00098	<1.38E-04	<1.29E-04	<1.29E-04	<1.26E-04	<1.29E-04	<1.29E-04	<1.30E-04
T-208		<1.56E-04	<1.56E-04	<1.65E-04	0.00095	<1.68E-04	0.00304	<1.64E-04	0.00104	<1.67E-04	<1.69E-04	<1.67E-04	<1.67E-04	<1.67E-04	<1.67E-04	<1.65E-04	<1.67E-04	<1.67E-04	<1.70E-04	<1.65E-04	<1.67E-04	<1.57E-04	<1.57E-04	<1.53E-04	<1.57E-04	<1.57E-04	<1.57E-04
T-209		<3.93E-05	<3.93E-05	<4.16E-05	<4.24E-05	<4.24E-05	<4.24E-05	<4.15E-05	<4.23E-05	<4.21E-05	<4.25E-05	<4.23E-05	<4.23E-05	<4.23E-05	<4.23E-05	0.00022	<4.23E-05	<4.23E-05	<4.30E-05	<4.15E-05	<4.23E-05	<3.96E-05	<3.96E-05	<3.86E-05	<3.96E-05	<3.96E-05	<3.97E-05
T-210		<6.30E-05	<6.30E-05	<6.66E-05	<6.79E-05	<6.79E-05	<6.79E-05	<6.65E-05	<6.77E-05	<6.75E-05	<6.81E-05	<6.77E-05	<6.77E-05	<6.77E-05	<6.77E-05	0.00035	<6.77E-05	<6.77E-05	<6.89E-05	<6.65E-05	<6.77E-05	<6.33E-05	<6.33E-05	<6.18E-05	<6.33E-05	<6.33E-05	<6.36E-05
T-211		<3.39E-05	<3.39E-05	<3.58E-05	<3.65E-05	<3.65E-05	<3.65E-05	<3.57E-05	<3.64E-05	<3.63E-05	<3.66E-05	<3.64E-05	<3.64E-05	<3.64E-05	<3.64E-05	<3.58E-05	<3.64E-05	<3.64E-05	<3.70E-05	<3.58E-05	<3.64E-05	<3.41E-05	<3.41E-05	<3.32E-05	<3.41E-05	<3.41E-05	<3.42E-05
T-212		<3.70E-05	<3.70E-05	<3.91E-05	<3.99E-05	<3.99E-05	<3.99E-05	<3.91E-05	<3.98E-05	<3.97E-05	<4.00E-05	<3.98E-05	<3.98E-05	<3.98E-05	<3.98E-05	<3.91E-05	<3.98E-05	<3.98E-05	<4.05E-05	<3.91E-05	<3.98E-05	<3.72E-05	<3.72E-05	<3.63E-05	<3.72E-05	<3.72E-05	<3.74E-05
T-213		<3.84E-05	<3.84E-05	<4.06E-05	<4.14E-05	<4.14E-05	<4.14E-05	<4.05E-05	<4.13E-05	<4.11E-05	<4.15E-05	<4.13E-05	<4.13E-05	<4.13E-05	<4.13E-05	0.00019	<4.13E-05	<4.13E-05	<4.20E-05	<4.05E-05	<4.13E-05	<3.86E-05	<3.86E-05	<3.76E-05	<3.86E-05	<3.86E-05	<3.88E-05
T-214		<2.48E-05	<2.48E-05	<2.62E-05	<2.67E-05	<2.67E-05	<2.67E-05	<2.62E-05	<2.67E-05	<2.66E-05	<2.68E-05	<2.67E-05	<2.67E-05	<2.67E-05	<2.67E-05	<2.62E-05	<2.67E-05	<2.67E-05	<2.71E-05	<2.62E-05	<2.67E-05	<2.50E-05	<2.50E-05	<2.43E-05	<2.50E-05	<2.50E-05	<2.51E-05
T-215		<1.01E-04	<1.01E-04	<1.06E-04	<1.08E-04	<1.08E-04	<1.08E-04	<1.06E-04	<1.08E-04	<1.08E-04	<1.09E-04	<1.08E-04	<1.08E-04	<1.08E-04	<1.08E-04	<1.06E-04	<1.08E-04	<1.08E-04	<1.10E-04	<1.06E-04	<1.08E-04	<1.01E-04	<1.01E-04	<9.87E-05	<1.01E-04	<1.01E-04	<1.02E-04
T-216		<3.74E-05	<3.74E-05	<3.96E-05	<4.04E-05	<4.04E-05	<4.04E-05	<3.95E-05	<4.02E-05	<4.01E-05	<4.05E-05	<4.02E-05	<4.02E-05	<4.02E-05	<4.02E-05	0.00009	<4.02E-05	<4.02E-05	<4.09E-05	<3.95E-05	<4.02E-05	<3.76E-05	<3.76E-05	<3.67E-05	<3.76E-05	<3.76E-05	<3.78E-05
T-217		<4.37E-05	<4.37E-05	<4.62E-05	<4.71E-05	<4.71E-05	<4.71E-05	<4.62E-05	<4.70E-05	<4.69E-05	<4.73E-05	<4.70E-05	<4.70E-05	<4.70E-05	<4.70E-05	<4.62E-05	<4.70E-05	<4.70E-05	<4.78E-05	<4.62E-05	<4.70E-05	<4.40E-05	<4.40E-05	<4.29E-05	<4.40E-05	<4.40E-05	<4.42E-05
T-218		<5.33E-05	<5.33E-05	0.00139	0.00082	0.00055	0.00114	0.00079	0.00040	<5.71E-05	<5.77E-05	<5.73E-05	<5.73E-05	<5.73E-05	<5.73E-05	<5.63E-05	<5.73E-05	<5.73E-05	0.00092	0.00109	<5.73E-05	<5.36E-05	<5.36E-05	<5.23E-05	<5.36E-05	<5.36E-05	<5.39E-05
T-301		<4.74E-05	<4.74E-05	<5.01E-05	<5.11E-05	<5.11E-05	<5.11E-05	<5.01E-05	<5.10E-05	<5.08E-05	<5.13E-05	<5.10E-05	<5.10E-05	<5.10E-05	<5.10E-05	0.00012	<5.10E-05	<5.10E-05	<5.19E-05	<5.01E-05	<5.10E-05	<4.77E-05	<4.77E-05	<4.65E-05	<4.77E-05	<4.77E-05	<4.79E-05
T-302		<6.31E-05	<6.31E-05	<6.67E-05	<6.80E-05	<6.80E-05	<6.80E-05	<6.66E-05	<6.78E-05	<6.76E-05	<6.83E-05	<6.78E-05	<6.78E-05	<6.78E-05	<6.78E-05	<6.67E-05	<6.78E-05	<6.78E-05	<6.90E-05	<6.67E-05	<6.78E-05	<6.35E-05	<6.35E-05	<6.19E-05	<6.35E-05	<6.35E-05	<6.38E-05
T-303		<6.93E-05	<6.93E-05	<7.33E-05	<7.48E-05	<7.48E-05	<7.48E-05	<7.32E-05	<7.46E-05	<7.43E-05	<7.51E-05	<7.46E-05	<7.46E-05	<7.46E-05	<7.46E-05	<7.33E-05	<7.46E-05	<7.46E-05	<7.59E-05	<7.33E-05	<7.46E-05	<6.98E-05	<6.98E-05	<6.80E-05	<6.98E-05	<6.98E-05	<7.01E-05
T-304		<5.59E-05	0.00016	0.00017	0.00023	0.00012	<6.03E-05	<5.91E-05	<6.02E-05	<6.00E-05	<6.05E-05	0.00014	0.00017	<6.02E-05	<6.02E-05	<5.91E-05	<6.02E-05	<6.02E-05	<6.12E-05	<5.91E-05	<6.02E-05	<5.63E-05	<5.63E-05	0.00028	<5.63E-05	<5.63E-05	<5.66E-05
T-305		0.00067	0.00065	0.00546	0.00593	0.00347	0.00324	0.00113	0.00186	<9.44E-05	<9.53E-05	0.00104	<9.47E-05	0.00099	0.00130	<9.30E-05	0.00205	0.00123	0.00028	<9.30E-05	0.00095	<8.86E-05	<8.86E-05	0.00041	<8.86E-05	<8.86E-05	<8.90E-05
T-306		<6.56E-05	<6.56E-05	<6.94E-05	<7.08E-05	<7.08E-05	<7.08E-05	<6.93E-05	<7.06E-05	<7.04E-05	<7.10E-05	<7.06E-05	<7.06E-05	<7.06E-05	<7.06E-05	<6.94E-05	<7.06E-05	<7.06E-05	<7.18E-05	<6.94E-05	<7.06E-05	<6.60E-05	<6.60E-05	<6.44E-05	<6.60E-05	<6.60E-05	<6.64E-05
T-307		<6.77E-05	<6.77E-05	<7.16E-05	<7.30E-05	<7.30E-05	<7.30E-05	<7.15E-05	<7.28E-05	<7.26E-05	<7.33E-05	<7.28E-05	<7.28E-05	<7.28E-05	<7.28E-05	<7.16E-05	<7.28E-05	<7.28E-05	<7.41E-05	<7.16E-05	<7.28E-05	<6.81E-05	<6.81E-05	<6.65E-05	<6.81E-05	<6.81E-05	<6.85E-05
T-308		<7.57E-05	<7.57E-05	<8.00E-05	<8.16E-05	<8.16E-05	<8.16E-05	<8.00E-05	<8.14E-05	<8.12E-05	<8.19E-05	<8.14E-05	<8.14E-05	<8.14E-05	<8.14E-05	<8.00E-05	<8.14E-05	<8.14E-05	<8.28E-05	<8.00E-05	<8.14E-05	<7.62E-05	<7.62E-05	<7.43E-05	<7.62E-05	<7.62E-05	<7.65E-05
T-309		<7.94E-05	<7.94E-05	<8.40E-05	<8.56E-05	<8.56E-05	<8.56E-05	<8.39E-05	<8.54E-05	<8.51E-05	<8.60E-05	<8.54E-05	<8.54E-05	<8.54E-05	<8.54E-05	<8.39E-05	<8.54E-05	<8.54E-05	<8.69E-05	<8.39E-05	<8.54E-05	<7.99E-05	<7.99E-05	<7.79E-05	<7.99E-05	<7.99E-05	<8.03E-05
T-310		<2.77E-05	<2.77E-05	<2.93E-05	<2.99E-05	<2.99E-05	<2.99E-05	<2.93E-05	<2.98E-05	<2.97E-05	<3.00E-05	<2.98E-05	<2.98E-05	<2.98E-05	<2.98E-05	<2.93E-05	<2.98E-05	<2.98E-05	<3.04E-05	<2.93E-05	<2.98E-05	<2.79E-05	<2.79E-05	<2.72E-05	<2.79E-05	<2.79E-05	<2.80E-05
T-311		<1.76E-04	<1.76E-04	<1.86E-04	<1.90E-04	<1.90E-04	<1.90E-04	<1.86E-04	<1.90E-04	<1.89E-04	<1.91E-04	<1.90E-04	<1.90E-04	<1.90E-04	<1.90E-04	<1.86E-04	<1.90E-04	<1.90E-04	0.00291	<1.86E-04	<1.90E-04	<1.77E-04	<1.77E-04	<1.73E-04	<1.77E-04	<1.77E-04	<1.78E-04
T-312		<1.27E-04	0.00099	<1.34E-04	0.00068	<1.37E-04	<1.37E-04	<1.34E-04	<1.37E-04	<1.36E-04	<1.37E-04	<1.37E-04	0.00082	<1.37E-04	<1.37E-04	<1.34E-04	<1.37E-04	<1.37E-04	<1.39E-04	<1.34E-04	<1.37E-04	<1.28E-04	<1.28E-04	<1.25E-04	<1.28E-04	<1.28E-04	<1.28E-04
T-313		<1.40E-04	<1.40E-04	<1.48E-04	0.00031	<1.51E-04	<1.51E-04	<1.48E-04	<1.51E-04	<1.50E-04	<1.52E-04	<1.51E-04	<1.51E-04	<1.51E-04	<1.51E-04	<1.48E-04	<1.51E-04	<1.51E-04	<1.53E-04	<1.48E-04	<1.51E-04	<1.41E-04	<1.41E-04	<1.37E-04	<1.41E-04	<1.41E-04	<1.42E-04
T-314		0.00121	0.00234	0.00146	0.00047	0.00187	<1.54E-04	<1.50E-04	0.00121	0.01755	<1.54E-04	<1.53E-04	0.00224	0.00096	0.00095	<1.50E-04	0.00042	0.00157	<1.56E-04	<1.50E-04	0.00055	<1.43E-04	<1.43E-04	<1.40E-04	<1.43E-04	<1.43E-04	<1.44E-04

Table 4
TO-14

Sample Number / Compound	n-propylbenzene	1,4-Diethylbenzene	Cyclopentene	1-Hexene	3-Ethyltoluene	2-Ethyltoluene	1,2,3-Trimethylbenzene	n-Butylbenzene	Undecane	Naphthalene	Dodecane
CAS	103-65-1	105-05-5	142-29-0	592-41-6	620-14-4	611-14-3	526-73-8	104-51-8	1120-21-4	91-20-3	112-40-3
MW	120.2	134.2	68.1	84.2	120.2	120.2	120.2	134.2	156.3	128.2	170.3
Lab Data (ppbv)											
T-101	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-102	0.46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-103	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-104	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-105	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-106	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-107	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-108	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-109	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-111	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-112	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-113	ND	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-114	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-115	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-116	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-117	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-118	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-201	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-202	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-203	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-204	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-205	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-206	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-207	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-208	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-209	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-210	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-211	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-212	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-213	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-214	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-215	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-216	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-217	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-218	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-301	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-302	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-303	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-304	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-305	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-306	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-307	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-308	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-309	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-310	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-311	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-312	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-313	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-314	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 4
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Sample Number / Compound	n-propylbenzene	1,4-Diethylbenzene	Cyclopentene	1-Hexene	3-Ethyltoluene	2-Ethyltoluene	1,2,3-Trimethylbenzene	n-Butylbenzene	Undecane	Naphthalene	Dodecane
CAS	103-65-1	105-05-5	142-29-0	592-41-6	620-14-4	611-14-3	526-73-8	104-51-8	1120-21-4	91-20-3	112-40-3
MW	120.2	134.2	68.1	84.2	120.2	120.2	120.2	134.2	156.3	128.2	170.3
MDL (ppbv)											
T-101	0.268	0.241	0.482	0.402	0.268	0.268	0.268	0.241	0.219	0.241	0.201
T-102	0.276	0.249	0.498	0.415	0.276	0.276	0.276	0.249	0.226	0.249	0.207
T-103	0.266	0.239	0.478	0.398	0.266	0.266	0.266	0.239	0.217	0.239	0.199
T-104	0.291	0.262	0.524	0.437	0.291	0.291	0.291	0.262	0.238	0.262	0.218
T-105	0.273	0.245	0.491	0.409	0.273	0.273	0.273	0.245	0.223	0.245	0.204
T-106	0.272	0.245	0.490	0.409	0.272	0.272	0.272	0.245	0.223	0.245	0.204
T-107	0.274	0.247	0.493	0.411	0.274	0.274	0.274	0.247	0.224	0.247	0.206
T-108	0.280	0.252	0.505	0.421	0.280	0.280	0.280	0.252	0.229	0.252	0.210
T-109	0.289	0.260	0.519	0.433	0.289	0.289	0.289	0.260	0.236	0.260	0.216
T-110	0.283	0.255	0.510	0.425	0.283	0.283	0.283	0.255	0.232	0.255	0.212
T-111	0.278	0.250	0.500	0.417	0.278	0.278	0.278	0.250	0.227	0.250	0.208
T-112	0.275	0.247	0.494	0.412	0.275	0.275	0.275	0.247	0.225	0.247	0.206
T-113	0.274	0.247	0.494	0.411	0.274	0.274	0.274	0.247	0.224	0.247	0.206
T-114	0.282	0.253	0.507	0.422	0.282	0.282	0.282	0.253	0.230	0.253	0.211
T-115	0.281	0.253	0.506	0.422	0.281	0.281	0.281	0.253	0.230	0.253	0.211
T-116	0.329	0.296	0.592	0.493	0.329	0.329	0.329	0.296	0.269	0.296	0.247
T-117	0.277	0.249	0.498	0.415	0.277	0.277	0.277	0.249	0.226	0.249	0.208
T-118	0.253	0.228	0.455	0.379	0.253	0.253	0.253	0.228	0.207	0.228	0.190
T-201	0.269	0.243	0.485	0.404	0.269	0.269	0.269	0.243	0.220	0.243	0.202
T-202	0.263	0.236	0.473	0.394	0.263	0.263	0.263	0.236	0.215	0.236	0.197
T-203	0.266	0.239	0.478	0.399	0.266	0.266	0.266	0.239	0.217	0.239	0.199
T-204	0.261	0.235	0.471	0.392	0.261	0.261	0.261	0.235	0.214	0.235	0.196
T-205	0.282	0.253	0.507	0.422	0.282	0.282	0.282	0.253	0.230	0.253	0.211
T-206	0.276	0.249	0.497	0.415	0.276	0.276	0.276	0.249	0.226	0.249	0.207
T-207	0.290	0.261	0.523	0.435	0.290	0.290	0.290	0.261	0.238	0.261	0.218
T-208	0.279	0.251	0.502	0.418	0.279	0.279	0.279	0.251	0.228	0.251	0.209
T-209	0.289	0.260	0.520	0.434	0.289	0.289	0.289	0.260	0.236	0.260	0.217
T-210	0.282	0.254	0.508	0.423	0.282	0.282	0.282	0.254	0.231	0.254	0.212
T-211	0.286	0.257	0.514	0.429	0.286	0.286	0.286	0.257	0.234	0.257	0.214
T-212	0.301	0.271	0.541	0.451	0.301	0.301	0.301	0.271	0.246	0.271	0.226
T-213	0.297	0.267	0.534	0.445	0.297	0.297	0.297	0.267	0.243	0.267	0.222
T-214	0.247	0.223	0.445	0.371	0.247	0.247	0.247	0.223	0.202	0.223	0.186
T-215	0.287	0.258	0.516	0.430	0.287	0.287	0.287	0.258	0.235	0.258	0.215
T-216	0.307	0.277	0.553	0.461	0.307	0.307	0.307	0.277	0.251	0.277	0.230
T-217	0.283	0.254	0.509	0.424	0.283	0.283	0.283	0.254	0.231	0.254	0.212
T-218	0.282	0.253	0.507	0.422	0.282	0.282	0.282	0.253	0.230	0.253	0.211
T-301	0.265	0.238	0.476	0.397	0.265	0.265	0.265	0.238	0.217	0.238	0.199
T-302	0.264	0.238	0.475	0.396	0.264	0.264	0.264	0.238	0.216	0.238	0.198
T-303	0.268	0.241	0.483	0.402	0.268	0.268	0.268	0.241	0.219	0.241	0.201
T-304	0.268	0.241	0.483	0.402	0.268	0.268	0.268	0.241	0.219	0.241	0.201
T-305	0.273	0.246	0.491	0.409	0.273	0.273	0.273	0.246	0.223	0.246	0.205
T-306	0.269	0.242	0.484	0.404	0.269	0.269	0.269	0.242	0.220	0.242	0.202
T-307	0.271	0.244	0.488	0.406	0.271	0.271	0.271	0.244	0.222	0.244	0.203
T-308	0.271	0.244	0.488	0.407	0.271	0.271	0.271	0.244	0.222	0.244	0.203
T-309	0.268	0.242	0.483	0.403	0.268	0.268	0.268	0.242	0.220	0.242	0.201
T-310	0.286	0.257	0.515	0.429	0.286	0.286	0.286	0.257	0.234	0.257	0.215
T-311	0.285	0.257	0.514	0.428	0.285	0.285	0.285	0.257	0.233	0.257	0.214
T-312	0.294	0.265	0.530	0.442	0.294	0.294	0.294	0.265	0.241	0.265	0.221
T-313	0.279	0.251	0.502	0.418	0.279	0.279	0.279	0.251	0.228	0.251	0.209
T-314	0.278	0.250	0.500	0.417	0.278	0.278	0.278	0.250	0.227	0.250	0.208

Table 4

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Sample Number / Compound	n-propylbenzene	1,4-Diethylbenzene	Cyclopentene	1-Hexene	3-Ethyltoluene	2-Ethyltoluene	1,2,3-Trimethylbenzene	n-Butylbenzene	Undecane	Naphthalene	Dodecane
CAS	103-65-1	105-05-5	142-29-0	592-41-6	620-14-4	611-14-3	526-73-8	104-51-8	1120-21-4	91-20-3	112-40-3
MW	120.2	134.2	68.1	84.2	120.2	120.2	120.2	134.2	156.3	128.2	170.3
Data Used (ug/l)											
T-101	0.68	0.69	0.70	0.72	0.68	0.68	0.68	0.69	0.73	0.66	0.73
T-102	2.36	0.71	0.72	0.75	0.71	0.71	0.71	0.71	0.75	0.68	0.75
T-103	0.67	0.68	0.69	0.71	0.67	0.67	0.67	0.68	0.72	0.65	0.72
T-104	0.74	0.75	0.76	0.78	0.74	0.74	0.74	0.75	0.79	0.71	0.79
T-105	1.64	0.68	0.69	0.71	0.68	0.68	0.68	0.68	0.72	0.65	0.72
T-106	0.69	0.69	0.70	0.72	0.69	0.69	0.69	0.69	0.73	0.66	0.73
T-107	0.68	0.68	0.69	0.71	0.68	0.68	0.68	0.68	0.72	0.65	0.72
T-108	0.70	0.70	0.71	0.73	0.70	0.70	0.70	0.70	0.74	0.67	0.74
T-109	0.72	0.72	0.73	0.76	0.72	0.72	0.72	0.72	0.77	0.69	0.76
T-110	0.69	0.70	0.71	0.73	0.69	0.69	0.69	0.70	0.74	0.67	0.74
T-111	0.69	0.69	0.70	0.72	0.69	0.69	0.69	0.69	0.73	0.66	0.73
T-112	0.67	0.67	0.68	0.70	0.67	0.67	0.67	0.67	0.71	0.64	0.71
T-113	0.67	1.97	0.69	0.71	0.67	0.67	0.67	0.68	0.72	0.65	0.72
T-114	0.69	0.70	0.71	0.73	0.69	0.69	0.69	0.70	0.74	0.67	0.74
T-115	0.69	0.70	0.71	0.73	0.69	0.69	0.69	0.70	0.74	0.67	0.74
T-116	0.81	0.81	0.82	0.85	0.81	0.81	0.81	0.81	0.86	0.77	0.86
T-117	0.68	0.68	0.69	0.71	0.68	0.68	0.68	0.68	0.72	0.65	0.72
T-118	0.62	0.63	0.64	0.66	0.62	0.62	0.62	0.63	0.66	0.60	0.66
T-201	0.69	0.70	0.71	0.73	0.69	0.69	0.69	0.70	0.74	0.66	0.73
T-202	0.67	0.67	0.68	0.70	0.67	0.67	0.67	0.67	0.71	0.64	0.71
T-203	0.68	0.68	0.69	0.71	0.68	0.68	0.68	0.68	0.72	0.65	0.72
T-204	0.67	0.67	0.68	0.70	0.67	0.67	0.67	0.67	0.71	0.64	0.71
T-205	0.69	0.70	0.71	0.73	0.69	0.69	0.69	0.70	0.74	0.67	0.74
T-206	0.69	0.69	0.70	0.72	0.69	0.69	0.69	0.69	0.73	0.66	0.73
T-207	0.69	0.70	0.71	0.73	0.69	0.69	0.69	0.70	0.74	0.67	0.74
T-208	0.68	0.68	0.69	0.71	0.68	0.68	0.68	0.68	0.72	0.65	0.72
T-209	0.70	0.70	0.71	0.73	0.70	0.70	0.70	0.70	0.74	0.67	0.74
T-210	0.69	0.69	0.70	0.72	0.69	0.69	0.69	0.69	0.73	0.66	0.73
T-211	0.69	0.69	0.70	0.72	0.69	0.69	0.69	0.69	0.73	0.66	0.73
T-212	0.73	0.73	0.75	0.77	0.73	0.73	0.73	0.73	0.78	0.70	0.78
T-213	0.72	0.72	0.73	0.76	0.72	0.72	0.72	0.72	0.77	0.69	0.77
T-214	0.61	0.61	0.62	0.64	0.61	0.61	0.61	0.61	0.65	0.59	0.65
T-215	0.67	0.67	0.68	0.71	0.67	0.67	0.67	0.67	0.71	0.64	0.71
T-216	0.74	0.74	0.75	0.77	0.74	0.74	0.74	0.74	0.78	0.71	0.78
T-217	0.68	0.69	0.70	0.72	0.68	0.68	0.68	0.69	0.73	0.66	0.73
T-218	0.66	0.66	0.67	0.69	0.66	0.66	0.66	0.66	0.70	0.63	0.70
T-301	0.69	0.69	0.70	0.72	0.69	0.69	0.69	0.69	0.73	0.66	0.73
T-302	0.68	0.68	0.70	0.72	0.68	0.68	0.68	0.68	0.73	0.65	0.72
T-303	0.69	0.70	0.71	0.73	0.69	0.69	0.69	0.70	0.74	0.67	0.74
T-304	0.69	0.69	0.70	0.73	0.69	0.69	0.69	0.69	0.73	0.66	0.73
T-305	0.67	0.67	0.68	0.70	0.67	0.67	0.67	0.67	0.71	0.64	0.71
T-306	0.66	0.67	0.68	0.70	0.66	0.66	0.66	0.67	0.71	0.64	0.71
T-307	0.67	0.68	0.69	0.71	0.67	0.67	0.67	0.68	0.72	0.65	0.72
T-308	0.67	0.67	0.68	0.70	0.67	0.67	0.67	0.67	0.71	0.64	0.71
T-309	0.66	0.66	0.67	0.69	0.66	0.66	0.66	0.66	0.70	0.63	0.70
T-310	0.71	0.71	0.72	0.74	0.71	0.71	0.71	0.71	0.75	0.68	0.75
T-311	0.67	0.68	0.69	0.71	0.67	0.67	0.67	0.68	0.72	0.65	0.72
T-312	0.71	0.71	0.72	0.74	0.71	0.71	0.71	0.71	0.75	0.68	0.75
T-313	0.65	0.65	0.66	0.68	0.65	0.65	0.65	0.65	0.69	0.62	0.69
T-314	0.65	0.65	0.66	0.68	0.65	0.65	0.65	0.65	0.69	0.63	0.69

Temp. oF	0 oC	273.15 oK	0.082 RT
57	13.9	287.0	23.6
54	12.2	285.4	23.4
60	15.6	288.7	23.7
57	13.9	287.0	23.6
70	21.1	294.3	24.1
63	17.2	290.4	23.8
73	22.8	295.9	24.3
69	20.6	293.7	24.1
69	20.6	293.7	24.1
78	25.6	298.7	24.5
74	23.3	296.5	24.3
81	27.2	300.4	24.6
77	25.0	298.2	24.5
75	23.9	297.0	24.4
75	23.9	297.0	24.4
78	25.6	298.7	24.5
78	25.6	298.7	24.5
75	23.9	297.0	24.4
54	12.2	285.4	23.4
59	15.0	288.2	23.6
57	13.9	287.0	23.6
58	14.4	287.6	23.6
76	24.4	297.6	24.4
69	20.6	293.7	24.1
92	33.3	306.5	25.1
81	27.2	300.4	24.6
86	30.0	303.2	24.9
83	28.3	301.5	24.7
88	31.1	304.3	25.0
83	28.3	301.5	24.7
83	28.3	301.5	24.7
75	23.9	297.0	24.4
104	40.0	313.2	25.7
90	32.2	305.4	25.1
86	30.0	303.2	24.9
106	41.1	314.3	25.8
49	9.4	282.6	23.2
51	10.6	283.7	23.3
49	9.4	282.6	23.2
52	11.1	284.3	23.3
81	27.2	300.4	24.6
74	23.3	296.5	24.3
71	21.7	294.8	24.2
76	24.4	297.6	24.4
76	24.4	297.6	24.4
75	23.9	297.0	24.4
99	37.2	310.4	25.5
89	31.7	304.8	25.0
107	41.7	314.8	25.8
102	38.9	312.0	25.6

Table 4

TO-14

Sample Number / Compound	n-propylbenzene	1,4-Diethylbenzene	Cyclopentene	1-Hexene	3-Ethyltoluene	2-Ethyltoluene	1,2,3-Trimethylbenzene	n-Butylbenzene	Undecane	Naphthalene	Dodecane	Total Flow (m3/min)
CAS	103-65-1	105-05-5	142-29-0	592-41-6	620-14-4	611-14-3	526-73-8	104-51-8	1120-21-4	91-20-3	112-40-3	
MW	120.2	134.2	68.1	84.2	120.2	120.2	120.2	134.2	156.3	128.2	170.3	
Flux (mg/m2-min)												
T-101	<6.01E-05	<6.04E-05	<6.13E-05	<6.32E-05	<6.01E-05	<6.01E-05	<6.01E-05	<6.04E-05	<6.40E-05	<5.77E-05	<6.39E-05	0.011
T-102	0.00022	<6.72E-05	<6.82E-05	<7.03E-05	<6.69E-05	<6.69E-05	<6.69E-05	<6.72E-05	<7.12E-05	<6.42E-05	<7.11E-05	0.012
T-103	<1.01E-04	<1.02E-04	<1.03E-04	<1.06E-04	<1.01E-04	<1.01E-04	<1.01E-04	<1.02E-04	<1.08E-04	<9.72E-05	<1.08E-04	0.020
T-104	<6.49E-05	<6.52E-05	<6.62E-05	<6.82E-05	<6.49E-05	<6.49E-05	<6.49E-05	<6.52E-05	<6.91E-05	<6.23E-05	<6.90E-05	0.011
T-105	0.00023	<9.68E-05	<9.82E-05	<1.01E-04	<9.63E-05	<9.63E-05	<9.63E-05	<9.68E-05	<1.02E-04	<9.24E-05	<1.02E-04	0.018
T-106	<1.72E-04	<1.72E-04	<1.75E-04	<1.80E-04	<1.72E-04	<1.72E-04	<1.72E-04	<1.72E-04	<1.83E-04	<1.65E-04	<1.82E-04	0.032
T-107	<6.46E-05	<6.49E-05	<6.59E-05	<6.79E-05	<6.46E-05	<6.46E-05	<6.46E-05	<6.49E-05	<6.87E-05	<6.20E-05	<6.86E-05	0.012
T-108	<1.33E-04	<1.34E-04	<1.36E-04	<1.40E-04	<1.33E-04	<1.33E-04	<1.33E-04	<1.34E-04	<1.42E-04	<1.28E-04	<1.42E-04	0.025
T-109	<1.61E-04	<1.62E-04	<1.64E-04	<1.69E-04	<1.61E-04	<1.61E-04	<1.61E-04	<1.62E-04	<1.71E-04	<1.54E-04	<1.71E-04	0.029
T-110	<1.02E-04	<1.02E-04	<1.04E-04	<1.07E-04	<1.02E-04	<1.02E-04	<1.02E-04	<1.02E-04	<1.08E-04	<9.78E-05	<1.08E-04	0.019
T-111	<5.60E-05	<5.63E-05	<5.71E-05	<5.89E-05	<5.60E-05	<5.60E-05	<5.60E-05	<5.63E-05	<5.96E-05	<5.38E-05	<5.95E-05	0.011
T-112	<3.63E-05	<3.64E-05	<3.70E-05	<3.81E-05	<3.63E-05	<3.63E-05	<3.63E-05	<3.64E-05	<3.86E-05	<3.48E-05	<3.85E-05	0.007
T-113	<9.67E-05	0.00028	<9.86E-05	<1.02E-04	<9.67E-05	<9.67E-05	<9.67E-05	<9.71E-05	<1.03E-04	<9.28E-05	<1.03E-04	0.019
T-114	<5.32E-05	<5.34E-05	<5.42E-05	<5.59E-05	<5.32E-05	<5.32E-05	<5.32E-05	<5.34E-05	<5.66E-05	<5.10E-05	<5.65E-05	0.010
T-115	<3.60E-05	<3.62E-05	<3.68E-05	<3.79E-05	<3.60E-05	<3.60E-05	<3.60E-05	<3.62E-05	<3.84E-05	<3.46E-05	<3.83E-05	0.007
T-116	<3.63E-05	<3.64E-05	<3.70E-05	<3.81E-05	<3.63E-05	<3.63E-05	<3.63E-05	<3.64E-05	<3.86E-05	<3.48E-05	<3.85E-05	0.006
T-117	<3.17E-05	<3.19E-05	<3.23E-05	<3.33E-05	<3.17E-05	<3.17E-05	<3.17E-05	<3.19E-05	<3.37E-05	<3.04E-05	<3.37E-05	0.006
T-118	<2.69E-05	<2.70E-05	<2.74E-05	<2.83E-05	<2.69E-05	<2.69E-05	<2.69E-05	<2.70E-05	<2.86E-05	<2.58E-05	<2.86E-05	0.006
T-201	<1.00E-04	<1.00E-04	<1.02E-04	<1.05E-04	<1.00E-04	<1.00E-04	<1.00E-04	<1.00E-04	<1.06E-04	<9.60E-05	<1.06E-04	0.019
T-202	<8.41E-05	<8.45E-05	<8.58E-05	<8.84E-05	<8.41E-05	<8.41E-05	<8.41E-05	<8.45E-05	<8.95E-05	<8.08E-05	<8.94E-05	0.016
T-203	<5.08E-05	<5.11E-05	<5.18E-05	<5.34E-05	<5.08E-05	<5.08E-05	<5.08E-05	<5.11E-05	<5.41E-05	<4.88E-05	<5.40E-05	0.010
T-204	<3.05E-05	<3.06E-05	<3.11E-05	<3.20E-05	<3.05E-05	<3.05E-05	<3.05E-05	<3.06E-05	<3.24E-05	<2.93E-05	<3.24E-05	0.006
T-205	<1.31E-04	<1.32E-04	<1.34E-04	<1.38E-04	<1.31E-04	<1.31E-04	<1.31E-04	<1.32E-04	<1.40E-04	<1.26E-04	<1.40E-04	0.025
T-206	<9.60E-05	<9.65E-05	<9.79E-05	<1.01E-04	<9.60E-05	<9.60E-05	<9.60E-05	<9.65E-05	<1.02E-04	<9.22E-05	<1.02E-04	0.018
T-207	<1.29E-04	<1.30E-04	<1.31E-04	<1.35E-04	<1.29E-04	<1.29E-04	<1.29E-04	<1.30E-04	<1.37E-04	<1.24E-04	<1.37E-04	0.024
T-208	<1.57E-04	<1.57E-04	<1.60E-04	<1.65E-04	<1.57E-04	<1.57E-04	<1.57E-04	<1.57E-04	<1.67E-04	<1.50E-04	<1.66E-04	0.030
T-209	<3.96E-05	<3.97E-05	<4.03E-05	<4.16E-05	<3.96E-05	<3.96E-05	<3.96E-05	<3.97E-05	<4.21E-05	<3.80E-05	<4.20E-05	0.007
T-210	<6.33E-05	<6.36E-05	<6.46E-05	<6.66E-05	<6.33E-05	<6.33E-05	<6.33E-05	<6.36E-05	<6.74E-05	<6.08E-05	<6.73E-05	0.012
T-211	<3.41E-05	<3.42E-05	<3.47E-05	<3.58E-05	<3.41E-05	<3.41E-05	<3.41E-05	<3.42E-05	<3.62E-05	<3.27E-05	<3.62E-05	0.006
T-212	<3.72E-05	<3.74E-05	<3.80E-05	<3.91E-05	<3.72E-05	<3.72E-05	<3.72E-05	<3.74E-05	<3.96E-05	<3.57E-05	<3.96E-05	0.007
T-213	<3.86E-05	<3.88E-05	<3.94E-05	<4.06E-05	<3.86E-05	<3.86E-05	<3.86E-05	<3.88E-05	<4.11E-05	<3.71E-05	<4.10E-05	0.007
T-214	<2.50E-05	<2.51E-05	<2.55E-05	<2.62E-05	<2.50E-05	<2.50E-05	<2.50E-05	<2.51E-05	<2.66E-05	<2.40E-05	<2.65E-05	0.005
T-215	<1.01E-04	<1.02E-04	<1.03E-04	<1.06E-04	<1.01E-04	<1.01E-04	<1.01E-04	<1.02E-04	<1.08E-04	<9.71E-05	<1.08E-04	0.020
T-216	<3.76E-05	<3.78E-05	<3.84E-05	<3.96E-05	<3.76E-05	<3.76E-05	<3.76E-05	<3.78E-05	<4.01E-05	<3.61E-05	<4.00E-05	0.007
T-217	<4.40E-05	<4.42E-05	<4.48E-05	<4.62E-05	<4.40E-05	<4.40E-05	<4.40E-05	<4.42E-05	<4.68E-05	<4.22E-05	<4.67E-05	0.008
T-218	<5.36E-05	<5.39E-05	<5.47E-05	<5.63E-05	<5.36E-05	<5.36E-05	<5.36E-05	<5.39E-05	<5.70E-05	<5.14E-05	<5.70E-05	0.011
T-301	<4.77E-05	<4.79E-05	<4.87E-05	<5.01E-05	<4.77E-05	<4.77E-05	<4.77E-05	<4.79E-05	<5.08E-05	<4.58E-05	<5.07E-05	0.009
T-302	<6.35E-05	<6.38E-05	<6.47E-05	<6.67E-05	<6.35E-05	<6.35E-05	<6.35E-05	<6.38E-05	<6.75E-05	<6.09E-05	<6.74E-05	0.012
T-303	<6.98E-05	<7.01E-05	<7.12E-05	<7.33E-05	<6.98E-05	<6.98E-05	<6.98E-05	<7.01E-05	<7.42E-05	<6.70E-05	<7.41E-05	0.013
T-304	<5.63E-05	<5.66E-05	<5.74E-05	<5.91E-05	<5.63E-05	<5.63E-05	<5.63E-05	<5.66E-05	<5.99E-05	<5.40E-05	<5.98E-05	0.011
T-305	<8.86E-05	<8.90E-05	<9.03E-05	<9.31E-05	<8.86E-05	<8.86E-05	<8.86E-05	<8.90E-05	<9.43E-05	<8.50E-05	<9.41E-05	0.017
T-306	<6.60E-05	<6.64E-05	<6.74E-05	<6.94E-05	<6.60E-05	<6.60E-05	<6.60E-05	<6.64E-05	<7.03E-05	<6.34E-05	<7.02E-05	0.013
T-307	<6.81E-05	<6.85E-05	<6.95E-05	<7.16E-05	<6.81E-05	<6.81E-05	<6.81E-05	<6.85E-05	<7.25E-05	<6.54E-05	<7.24E-05	0.013
T-308	<7.62E-05	<7.65E-05	<7.77E-05	<8.00E-05	<7.62E-05	<7.62E-05	<7.62E-05	<7.65E-05	<8.10E-05	<7.31E-05	<8.09E-05	0.015
T-309	<7.99E-05	<8.03E-05	<8.15E-05	<8.40E-05	<7.99E-05	<7.99E-05	<7.99E-05	<8.03E-05	<8.50E-05	<7.67E-05	<8.49E-05	0.016
T-310	<2.79E-05	<2.80E-05	<2.85E-05	<2.93E-05	<2.79E-05	<2.79E-05	<2.79E-05	<2.80E-05	<2.97E-05	<2.68E-05	<2.97E-05	0.005
T-311	<1.77E-04	<1.78E-04	<1.81E-04	<1.86E-04	<1.77E-04	<1.77E-04	<1.77E-04	<1.78E-04	<1.89E-04	<1.70E-04	<1.88E-04	0.034
T-312	<1.28E-04	<1.28E-04	<1.30E-04	<1.34E-04	<1.28E-04	<1.28E-04	<1.28E-04	<1.28E-04	<1.36E-04	<1.23E-04	<1.36E-04	0.023
T-313	<1.41E-04	<1.42E-04	<1.44E-04	<1.48E-04	<1.41E-04	<1.41E-04	<1.41E-04	<1.42E-04	<1.50E-04	<1.35E-04	<1.50E-04	0.028
T-314	<1.43E-04	<1.44E-04	<1.46E-04	<1.51E-04	<1.43E-04	<1.43E-04	<1.43E-04	<1.44E-04	<1.52E-04	<1.38E-04	<1.52E-04	0.029

Table 5

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Sample Number	Compound	Total Reduced Sulfurs	Dimethyl Sulfide	sec-Butyl Mercaptan / Thiophene	Total Unidentified Sulfur	Isopropyl Mercaptan	3-Methylthiophene	iso-Butyl Mercaptan	Dimethyl Disulfide	Methylethylsulfide	Tetrahydrothiophene	Hydrogen Sulfide	Ethyl Mercaptan	tert-Butyl Mercaptan	Methyl Mercaptan	n-Propyl Mercaptan	Diethyl Sulfide	Diethyl Disulfide	2-Methylthiophene	COS / SO2	Carbon Disulfide	n-Butyl Mercaptan	Bromothiophene	Thiophenol
	CAS		75-18-3	513-53-1		75-33-2	616-44-4	513-44-0	624-92-0	624-89-5	110-01-0	7783-06-4	75-08-1	75-66-1	74-93-1	107-03-9	352-93-2	110-81-6	554-14-3	463-58-1	75-15-0	109-79-5	1003-09-4	108-98-5
	MW	34.08	62.134	90.186	34.08	76.16	98.17	90.186	94.19	76.16	88.17	34.08	62.134	90.186	48.11	76.16	90.19	122.252	98.16	60.08	76.14	90.186	163.04	110.18
Lab Data (ppmv)																								
T-101		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-102		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-103		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-104		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-105		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-106		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-107		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-108		27.8	18.5	3.52	1.72	1.46	0.73	0.646	0.474	0.278	0.197	0.097	0.055	0.054	0.042	0.025	ND	0.007	ND	ND	ND	ND	ND	ND
T-109		0.058	0.037	0.011	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND
T-110		0.032	0.016	0.008	ND	ND	ND	ND	ND	ND	ND	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-111		0.03	0.009	ND	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-112		0.014	0.009	ND	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-113		0.008	ND	ND	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-114		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-115		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-116		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-117		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-118		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-201		0.017	0.006	0.005	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-202		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-203		0.048	ND	0.01	0.026	0.007	ND	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-204		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-205		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-206		0.007	ND	ND	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-207		0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007	ND	ND	ND	ND	ND	ND	ND
T-208		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-209		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-210		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-211		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-212		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-213		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-214		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-215		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-216		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-217		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-218		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-301		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-302		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-303		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-304		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-305		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-306		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-307		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-308		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-309		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-310		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-311		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-312		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-313		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-314		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5

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Sample Number	Compound	Total Reduced Sulfurs	Dimethyl Sulfide	sec-Butyl Mercaptan / Thiophene	Total Unidentified Sulfur	Isopropyl Mercaptan	3-Methylthiophene	iso-Butyl Mercaptan	Dimethyl Disulfide	Methylethylsulfide	Tetrahydrothiophene	Hydrogen Sulfide	Ethyl Mercaptan	tert-Butyl Mercaptan	Methyl Mercaptan	n-Propyl Mercaptan	Diethyl Sulfide	Diethyl Disulfide	2-Methylthiophene	COS / SO2	Carbon Disulfide	n-Butyl Mercaptan	Bromothiophene	Thiophenol
	CAS		75-18-3	513-53-1		75-33-2	616-44-4	513-44-0	624-92-0	624-89-5	110-01-0	7783-06-4	75-08-1	75-66-1	74-93-1	107-03-9	352-93-2	110-81-6	554-14-3	463-58-1	75-15-0	109-79-5	1003-09-4	108-98-5
	MW	34.08	62.134	90.186	34.08	76.16	98.17	90.186	94.19	76.16	88.17	34.08	62.134	90.186	48.11	76.16	90.19	122.252	98.16	60.08	76.14	90.186	163.04	110.18
MDL (ppmv)																								
T-101		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-102		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-103		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-104		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-105		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-106		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-107		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-108		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-109		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-110		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-111		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-112		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-113		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-114		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-115		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-116		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-117		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-118		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-201		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-202		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-203		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-204		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-205		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-206		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-207		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-208		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-209		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-210		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-211		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-212		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-213		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-214		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-215		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-216		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-217		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-218		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-301		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-302		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-303		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-304		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-305		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-306		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-307		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-308		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-309		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-310		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-311		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-312		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-313		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
T-314		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005

Table 5

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Sample Number	Compound	Total Reduced Sulfurs	Dimethyl Sulfide	sec-Butyl Mercaptan / Thiophene	Total Unidentified Sulfur	Isopropyl Mercaptan	3-Methylthiophene	iso-Butyl Mercaptan	Dimethyl Disulfide	Methylethylsulfide	Tetrahydrothiophene	Hydrogen Sulfide	Ethyl Mercaptan	tert-Butyl Mercaptan	Methyl Mercaptan	n-Propyl Mercaptan	Diethyl Sulfide	Diethyl Disulfide	2-Methylthiophene	COS / SO2	Carbon Disulfide	n-Butyl Mercaptan	Bromothiophene	Thiophenol
	CAS		75-18-3	513-53-1		75-33-2	616-44-4	513-44-0	624-92-0	624-89-5	110-01-0	7783-06-4	75-08-1	75-66-1	74-93-1	107-03-9	352-93-2	110-81-6	554-14-3	463-58-1	75-15-0	109-79-5	1003-09-4	108-98-5
	MW	34.08	62.134	90.186	34.08	76.16	98.17	90.186	94.19	76.16	88.17	34.08	62.134	90.186	48.11	76.16	90.19	122.252	98.16	60.08	76.14	90.186	163.04	110.18
Data Used (mg/l)																								
T-101		<3.62E-03	<6.59E-03	<9.57E-03	<3.62E-03	<8.08E-03	<1.04E-02	<9.57E-03	<1.00E-02	<8.08E-03	<9.36E-03	<3.62E-03	<6.59E-03	<9.57E-03	<5.11E-03	<8.08E-03	<9.57E-03	<1.30E-02	<1.04E-02	<6.38E-03	<8.08E-03	<9.57E-03	<1.73E-02	<1.17E-02
T-102		<3.64E-03	<6.63E-03	<9.63E-03	<3.64E-03	<8.13E-03	<1.05E-02	<9.63E-03	<1.01E-02	<8.13E-03	<9.41E-03	<3.64E-03	<6.63E-03	<9.63E-03	<5.14E-03	<8.13E-03	<9.63E-03	<1.31E-02	<1.05E-02	<6.41E-03	<8.13E-03	<9.63E-03	<1.74E-02	<1.18E-02
T-103		<3.60E-03	<6.56E-03	<9.52E-03	<3.60E-03	<8.04E-03	<1.04E-02	<9.52E-03	<9.94E-03	<8.04E-03	<9.30E-03	<3.60E-03	<6.56E-03	<9.52E-03	<5.08E-03	<8.04E-03	<9.52E-03	<1.29E-02	<1.04E-02	<6.34E-03	<8.03E-03	<9.52E-03	<1.72E-02	<1.16E-02
T-104		<3.62E-03	<6.59E-03	<9.57E-03	<3.62E-03	<8.08E-03	<1.04E-02	<9.57E-03	<1.00E-02	<8.08E-03	<9.36E-03	<3.62E-03	<6.59E-03	<9.57E-03	<5.11E-03	<8.08E-03	<9.57E-03	<1.30E-02	<1.04E-02	<6.38E-03	<8.08E-03	<9.57E-03	<1.73E-02	<1.17E-02
T-105		<3.53E-03	<6.43E-03	<9.34E-03	<3.53E-03	<7.89E-03	<1.02E-02	<9.34E-03	<9.75E-03	<7.89E-03	<9.13E-03	<3.53E-03	<6.43E-03	<9.34E-03	<4.98E-03	<7.89E-03	<9.34E-03	<1.27E-02	<1.02E-02	<6.22E-03	<7.88E-03	<9.34E-03	<1.69E-02	<1.14E-02
T-106		<3.58E-03	<6.52E-03	<9.46E-03	<3.58E-03	<7.99E-03	<1.03E-02	<9.46E-03	<9.88E-03	<7.99E-03	<9.25E-03	<3.58E-03	<6.52E-03	<9.46E-03	<5.05E-03	<7.99E-03	<9.46E-03	<1.28E-02	<1.03E-02	<6.30E-03	<7.99E-03	<9.46E-03	<1.71E-02	<1.16E-02
T-107		<3.51E-03	<6.40E-03	<9.28E-03	<3.51E-03	<7.84E-03	<1.01E-02	<9.28E-03	<9.70E-03	<7.84E-03	<9.08E-03	<3.51E-03	<6.40E-03	<9.28E-03	<4.95E-03	<7.84E-03	<9.29E-03	<1.26E-02	<1.01E-02	<6.19E-03	<7.84E-03	<9.28E-03	<1.68E-02	<1.13E-02
T-108		39.31105	47.69483	13.17201	2.432194	4.613707	2.973527	2.417363	1.852479	0.8785	0.720705	0.137164	0.141795	0.202071	0.083841	0.079002	<9.36E-03	0.035508	<1.02E-02	<6.23E-03	<7.90E-03	<9.36E-03	<1.69E-02	<1.14E-02
T-109		0.082016	0.09539	0.041163	0.00707	<7.90E-03	<1.02E-02	<9.36E-03	<9.77E-03	<7.90E-03	<9.15E-03	<3.54E-03	<6.45E-03	<9.36E-03	<4.99E-03	<7.90E-03	<9.36E-03	<1.27E-02	0.020365	<6.23E-03	<7.90E-03	<9.36E-03	<1.69E-02	<1.14E-02
T-110		0.044493	0.040559	0.029435	<3.48E-03	<7.77E-03	<1.00E-02	<9.20E-03	<9.61E-03	<7.77E-03	<8.99E-03	0.011123	<6.34E-03	<9.20E-03	<4.91E-03	<7.77E-03	<9.20E-03	<1.25E-02	<1.00E-02	<6.13E-03	<7.77E-03	<9.20E-03	<1.66E-02	<1.12E-02
T-111		0.042025	0.022986	<9.27E-03	0.028016	<7.83E-03	<1.01E-02	<9.27E-03	<9.68E-03	<7.83E-03	<9.06E-03	<3.50E-03	<6.38E-03	<9.27E-03	<4.94E-03	<7.83E-03	<9.27E-03	<1.26E-02	<1.01E-02	<6.17E-03	<7.82E-03	<9.27E-03	<1.68E-02	<1.13E-02
T-112		0.019358	0.022688	<9.15E-03	0.006913	<7.72E-03	<9.96E-03	<9.15E-03	<9.55E-03	<7.72E-03	<8.94E-03	<3.46E-03	<6.30E-03	<9.15E-03	<4.88E-03	<7.72E-03	<9.15E-03	<1.24E-02	<9.96E-03	<6.09E-03	<7.72E-03	<9.15E-03	<1.65E-02	<1.12E-02
T-113		0.011144	<6.35E-03	<9.22E-03	0.011144	<7.78E-03	<1.00E-02	<9.22E-03	<9.62E-03	<7.78E-03	<9.01E-03	<3.48E-03	<6.35E-03	<9.22E-03	<4.92E-03	<7.78E-03	<9.22E-03	<1.25E-02	<1.00E-02	<6.14E-03	<7.78E-03	<9.22E-03	<1.67E-02	<1.13E-02
T-114		<3.50E-03	<6.37E-03	<9.25E-03	<3.50E-03	<7.81E-03	<1.01E-02	<9.25E-03	<9.66E-03	<7.81E-03	<9.04E-03	<3.50E-03	<6.37E-03	<9.25E-03	<4.93E-03	<7.81E-03	<9.25E-03	<1.25E-02	<1.01E-02	<6.16E-03	<7.81E-03	<9.25E-03	<1.67E-02	<1.13E-02
T-115		<3.50E-03	<6.37E-03	<9.25E-03	<3.50E-03	<7.81E-03	<1.01E-02	<9.25E-03	<9.66E-03	<7.81E-03	<9.04E-03	<3.50E-03	<6.37E-03	<9.25E-03	<4.93E-03	<7.81E-03	<9.25E-03	<1.25E-02	<1.01E-02	<6.16E-03	<7.81E-03	<9.25E-03	<1.67E-02	<1.13E-02
T-116		<3.48E-03	<6.34E-03	<9.20E-03	<3.48E-03	<7.77E-03	<1.00E-02	<9.20E-03	<9.61E-03	<7.77E-03	<8.99E-03	<3.48E-03	<6.34E-03	<9.20E-03	<4.91E-03	<7.77E-03	<9.20E-03	<1.25E-02	<1.00E-02	<6.13E-03	<7.77E-03	<9.20E-03	<1.66E-02	<1.12E-02
T-117		<3.48E-03	<6.34E-03	<9.20E-03	<3.48E-03	<7.77E-03	<1.00E-02	<9.20E-03	<9.61E-03	<7.77E-03	<8.99E-03	<3.48E-03	<6.34E-03	<9.20E-03	<4.91E-03	<7.77E-03	<9.20E-03	<1.25E-02	<1.00E-02	<6.13E-03	<7.77E-03	<9.20E-03	<1.66E-02	<1.12E-02
T-118		<3.50E-03	<6.37E-03	<9.25E-03	<3.50E-03	<7.81E-03	<1.01E-02	<9.25E-03	<9.66E-03	<7.81E-03	<9.04E-03	<3.50E-03	<6.37E-03	<9.25E-03	<4.93E-03	<7.81E-03	<9.25E-03	<1.25E-02	<1.01E-02	<6.16E-03	<7.81E-03	<9.25E-03	<1.67E-02	<1.13E-02
T-201		0.024741	0.01592	0.019257	0.008732	<8.13E-03	<1.05E-02	<9.63E-03	<1.01E-02	<8.13E-03	<9.41E-03	<3.64E-03	<6.63E-03	<9.63E-03	<5.14E-03	<8.13E-03	<9.63E-03	<1.31E-02	<1.05E-02	<6.41E-03	<8.13E-03	<9.63E-03	<1.74E-02	<1.18E-02
T-202		<3.60E-03	<6.57E-03	<9.54E-03	<3.60E-03	<8.05E-03	<1.04E-02	<9.54E-03	<9.96E-03	<8.05E-03	<9.32E-03	<3.60E-03	<6.57E-03	<9.54E-03	<5.09E-03	<8.05E-03	<9.54E-03	<1.29E-02	<1.04E-02	<6.35E-03	<8.05E-03	<9.54E-03	<1.72E-02	<1.16E-02
T-203		0.069452	<6.59E-03	0.03829	0.03762	0.022634	<1.04E-02	0.019145	<1.00E-02	<8.08E-03	<9.36E-03	<3.62E-03	<6.59E-03	<9.57E-03	<5.11E-03	<8.08E-03	<9.57E-03	<1.30E-02	<1.04E-02	<6.38E-03	<8.08E-03	<9.57E-03	<1.73E-02	<1.17E-02
T-204		<3.61E-03	<6.58E-03	<9.55E-03	<3.61E-03	<8.07E-03	<1.04E-02	<9.55E-03	<9.98E-03	<8.07E-03	<9.34E-03	<3.61E-03	<6.58E-03	<9.55E-03	<5.10E-03	<8.07E-03	<9.55E-03	<1.30E-02	<1.04E-02	<6.36E-03	<8.07E-03	<9.55E-03	<1.73E-02	<1.17E-02
T-205		<3.49E-03	<6.36E-03	<9.23E-03	<3.49E-03	<7.80E-03	<1.01E-02	<9.23E-03	<9.64E-03	<7.80E-03	<9.03E-03	<3.49E-03	<6.36E-03	<9.23E-03	<4.93E-03	<7.80E-03	<9.23E-03	<1.25E-02	<1.00E-02	<6.15E-03	<7.79E-03	<9.23E-03	<1.67E-02	<1.13E-02
T-206		0.009898	<6.45E-03	<9.36E-03	0.009898	<7.90E-03	<1.02E-02	<9.36E-03	<9.77E-03	<7.90E-03	<9.15E-03	<3.54E-03	<6.45E-03	<9.36E-03	<4.99E-03	<7.90E-03	<9.36E-03	<1.27E-02	<1.02E-02	<6.23E-03	<7.90E-03	<9.36E-03	<1.69E-02	<1.14E-02
T-207		0.009486	<6.18E-03	<8.97E-03	<3.39E-03	<7.57E-03	<9.76E-03	<8.97E-03	<9.36E-03	<7.57E-03	<8.76E-03	<3.39E-03	<6.18E-03	<8.97E-03	<4.78E-03	<7.57E-03	0.025103	<1.22E-02	<9.76E-03	<5.97E-03	<7.57E-03	<8.97E-03	<1.62E-02	<1.10E-02
T-208		<3.46E-03	<6.30E-03	<9.15E-03	<3.46E-03	<7.72E-03	<9.96E-03	<9.15E-03	<9.55E-03	<7.72E-03	<8.94E-03	<3.46E-03	<6.30E-03	<9.15E-03	<4.88E-03	<7.72E-03	<9.15E-03	<1.24E-02	<9.96E-03	<6.09E-03	<7.72E-03	<9.15E-03	<1.65E-02	<1.12E-02
T-209		<3.43E-03	<6.24E-03	<9.06E-03	<3.43E-03	<7.65E-03	<9.87E-03	<9.06E-03	<9.47E-03	<7.65E-03	<8.86E-03	<3.43E-03	<6.24E-03	<9.06E-03	<4.84E-03	<7.65E-03	<9.06E-03	<1.23E-02	<9.87E-03	<6.04E-03	<7.65E-03	<9.06E-03	<1.64E-02	<1.11E-02
T-210		<3.44E-03	<6.28E-03	<9.11E-03	<3.44E-03	<7.70E-03	<9.92E-03	<9.11E-03	<9.52E-03	<7.70E-03	<8.91E-03	<3.44E-03	<6.28E-03	<9.11E-03	<4.86E-03	<7.70E-03	<9.11E-03	<1.24E-02	<9.92E-03	<6.07E-03	<7.69E-03	<9.11E-03	<1.65E-02	<1.11E-02
T-211		<3.41E-03	<6.22E-03	<9.03E-03	<3.41E-03	<7.63E-03	<9.83E-03	<9.03E-03	<9.43E-03	<7.63E-03	<8.83E-03	<3.41E-03	<6.22E-03	<9.03E-03	<4.82E-03	<7.63E-03	<9.03E-03	<1.22E-02	<9.83E-03	<6.02E-03	<7.62E-03	<9.03E-03	<1.63E-02	<1.10E-02
T-212		<3.44E-03	<6.28E-03	<9.11E-03	<3.44E-03	<7.70E-03	<9.92E-03	<9.11E-03	<9.52E-03	<7.70E-03	<8.91E-03	<3.44E-03	<6.28E-03	<9.11E-03	<4.86E-03	<7.70E-03	<9.11E-03	<1.24E-02	<9.92E-03	<6.07E-03	<7.69E-03	<9.11E-03	<1.65E-02	<1.11E-02
T-213		<3.44E-03	<6.28E-03	<9.11E-03	<3.44E-03	<7.70E-03	<9.92E-03	<9.11E-03	<9.52E-03	<7.70E-03	<8.91E-03	<3.44E-03	<6.28E-03	<9.11E-03	<4.86E-03	<7.70E-03	<9.11E-03	<1.24E-02	<9.92E-03	<6.07E-03	<7.69E-03	<9.11E-03	<1.65E-02	<1.11E-02
T-214		<3.50E-03	<6.37E-03	<9.25E-03	<3.50E-03	<7.81E-03	<1.01E-02	<9.25E-03	<9.66E-03	<7.81E-03	<9.04E-03	<3.50E-03	<6.37E-03	<9.25E-03	<4.93E-03	<7.81E-03	<9.25E-03	<1.25E-02	<1.01E-02	<6.16E-03	<7.81E-03	<9.25E-03	<1.67E-02	<1.13E-02
T-215		<3.32E-03	<6.05E-03	<8.77E-03	<3.32E-03	<7.41E-03	<9.55E-03	<8.77E-03	<9.16E-03	<7.41E-03	<8.58E-03	<3.32E-03	<6.05E-03	<8.77E-03	<4.68E-03	<7.41E-03	<8.77E-03	<1.19E-02	<9.55E-03	<5.85E-03	<7.41E-03	<8.77E-03	<1.59E-02	<1.07E-02
T-216		<3.40E-03	<6.20E-03	<9.00E-03	<3.40E-03	<7.60E-03	<9.79E-03	<9.00E-03	<9.40E-03	<7.60E-03	<8.80E-03	<3.40E-03	<6.20E-03	<9.00E-03	<4.80E-03	<7.60E-03	<9.00E-03	<1.22E-02	<9.79E-03	<5.99E-03	<7.60E-03	<9.00E-03	<1.63E-02	<1.10E-02
T-217		<3.43E-03	<6.24E-03	<9.06E-03	<3.43E-03	<7.65E-03	<9.87E-03	<9.06E-03	<9.47E-03	<7.65E-03	<8.86E-03	<3.43E-03	<6.24E-03	<9.06E-03	<4.84E-03	<7.65E-03	<9.06E-03	<1.23E-02	<9.87E-03	<6.04E-03	<7.65E-03	<9.06E-03	<1.64E-02	<1.11E-02
T-218		<3.30E-03	<6.02E-03	<8.74E-03	<3.30E-03	<7.38E-03	<9.52E-03	<8.74E-03	<9.13E-03	<7.38E-03	<8.55E-03	<3.30E-03	<6.02E-03	<8.74E-03	<4.66E-03	<7.38E-03	<8.74E-03	<1.19E-02	<9.52E-03	<5.82E-03	<7.38E-03	<8.74E-03	<1.58E-02	<1.07E-02
T-301		<3.67E-03	<6.70E-03	<9.72E-03	<3.67E-03	<8.21E-03	<1.06E-02	<9.72E-03	<1.02E-02	<8.21E-03	<9.51E-03	<3.67E-03	<6.70E-03	<9.72E-03	<5.19E-03	<8.21E-03	<9.72E-03	<1.32E-02	<1.06E-02	<6.48E-03	<8.21E-03	<9.72E-03	<1.76E-02	<1.19E-02
T-302		<3.66E-03	<6.67E-03	<9.68E-03	<3.66E-03	<8.18E-03	<1.05E-02	<9.68E-03	<1.01E-02	<8.18E-03	<9.47E-03	<3.66E-03	<6.67E-03	<9.68E-03	<5.17E-03	<8.18E-03	<9.69E-03	<1.31E-02	<1.05E-02	<6.45E-03	<8.18E-03	<9.68E-03	<1.75E-02	<1.18E-02
T-303		<3.67E-03	<6.70E-03	<9.72E-03	<3.67E-03	<8.21E-03	<1.06E-02	<9.72E-03	<1.02E-02	<8.21E-03	<9.51E-03	<3.67E-03	<6.70E-03	<9.72E-03	<5.19E-03	<8.21E-03	<9.72E-03	<1.32E-02	<1.06E-02	<6.48E-03	<8.21E-03	<9.72E-03	<1.76E-02	<1.19E-02
T-304		<3.65E-03	<6.66E-03	<9.67E-03	<3.65E-03	<8.16E-03	<1.05E-02	<9.67E-03	<1.01E-02	<8.16E-03	<9.45E-03	<3.65E-03	<6.66E-03	<9.67E-03	<5.16E-03	<8.16E-03	<9.67E-03	<1.31E-02	<1.05E-02	<6.44E-03	<8.16E-03	<9.67E-03	<1.75E-02	<1.18E-02
T-305		<3.46E-03	<6.30E-03	<9.15E-03	<3.46E-03	<7.72E-03	<9.96E-03	<9.15E-03	<9.55E-03	<7.72E-03	<8.94E-03	<3.46E-03	<6.30E-03	<9.15E-03	<4.88E-03	<7.72E-03	<9.15E-03	<1.24E-02	<9.96E-03	<6.09E-03	<7.72E-03	<9.15E-03	<1.65E-02	<1.12E-02
T-306		<3.50E-03	<6.38E-03	<9.27E-03	<3.50E-03	<7.83E-03	<1.01E-02	<9.27E-03	<9.68E-03	<7.83E-03	<9.06E-03	<3.50E-03	<6.38E-03	<9.27E-03	<4.94E-03	<7.83E-03	<9.27E-03	<1.26E-02	<1.01E-02	<6.17E-03	<7.82E-03	<9.27E-03	<1.68E-02	<1.13E-02
T-307		<3.52E-03	<6.42E-03	<9.32E-03	<3.52E-03	<7.87E-03	<1.01E-02	<9.32E-03	<9.73E-03	<7.87E-03	<9.11E-03	<3.52E-03	<6.42E-03	<9.32E-03	<4.97E-03	<7.87E-03	<9.32E-03	<1.26E-02	<1.01E-02	<6.21E-03	<7.87E-03	<9.32E-03	<1.68E-02	<1.14E-02
T-308		<3.49E-03	<6.36E-03	<9.23E-03	<3.49E-03	<7.80E-03	<1.01E-02	<9.23E-03	<9.64E-03	<7.80E-03	<9.03E-03	<3.49E-03	<6.36E-03	<9.23E-03	<4.93E-03	<7.80E-03	<9.23E-03	<1.25E-02	<1.00E-02	<6.15E-03	<7.79E-03	<9.23E-03	<1.67E-02	<1.13E-02
T-309		<3.49E-03	<6.36E-03	<9.23E-03	<3.49E-03	<7.80E-03	<1.01E-02	<9.23E-03	<9.64E-03	<7.80E-03	<9.03E-03	<3.49E-03	<6.36E-03	<9.23E-03	<4.93E-03	<7.80E-03	<9.23E-03	<1.25E-02	<1.00E-02	<6.15E-03	<7.79E-03	<9.23E-03	<1.67E-02	<1.13E-02
T-310		<3.50E-03	<6.37E-03	<9.25E-03	<3.50E-03	<7.81E-03	<1.01E-02	<9.25E-03	<9.66E-03	<7.81E-03	<9.04E-03	<3.50E-03	<6.37E-03	<9.25E-03	<4.93E-03	<7.81E-03	<9.25E-03	<1.25E-02	<1.01E-02	<6.16E-03	<7.81E-03	<9.25E-03	<1.67E-02	<1.13E-02
T-311		<3.35E-03	<6.10E-03	<8.85E-03	<3.35E-03	<7.48E-03	<9.64E-03	<8.85E-03	<9.25E-03	<7.48E-03	<8.65E-03	<3.35E-03	<6.10E-03	<8.85E-03	<4.72E-03	<7.48E-03	<8.85E-03	<1.20E-02	<9.64E-03	<5.90E-03	<7.47E-03	<8.85E-03	<1.60E-02	<1.08E-02
T-312		<3.41E-03	<6.21E-03	<9.01E-03	<3.41E-03	<7.61E-03	<9.81E-03	<9.01E-03	<9.41E-03	<7.61E-03	<8.81E-03	<3.41E-03	<6.21E-03	<9.01E-03	<4.81E-03	<7.61E-03	<9.01E-03	<1.22E-02	<9.81E-03	<6.01E-03	<7.61E-03	<9.01E-03	<1.63E-02	<1.10E-02
T-313		<3.30E-03	<6.01E-03	<8.73E-03	<3.30E-03	<7.37E-03	<9.50E-03	<8.73E-03	<9.12E-03	<7.37E-03	<8.53E-03	<3.30E-03	<6.01E-03	<8.73E-03	<4.66E-03	<7.37E-03	<8.73E-03	<1.18E-02	<9.50E-03	<5.81E-03	<7.37E-03	<8.73E-03	<1.58E-02	<1.07E-02
T-314		<3.33E-03	<6.07E-03	<8.81E-03	<3.33E-03	<7.44E-03	<9.59E-03	<8.81E-03	<9.20E-03	<7.44E-03	<8.61E-03	<3.33E-03	<6.07E-03	<8.81E-03	<4.70E-03	<7.44E-03	<8.81E-03	<1.19E-02	<9.58E-03	<5.87E-03	<7.43E-03	<8.81E-03	<1.59E-02	<1.08E-02

Table 5

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Sample Number	Compound	Total Reduced Sulfurs	Dimethyl Sulfide	sec-Butyl Mercaptan / Thiophene	Total Unidentified Sulfur	Isopropyl Mercaptan	3-Methylthiophene	iso-Butyl Mercaptan	Dimethyl Disulfide	Methylethylsulfide	Tetrahydrothiophene	Hydrogen Sulfide	Ethyl Mercaptan	tert-Butyl Mercaptan	Methyl Mercaptan	n-Propyl Mercaptan	Diethyl Sulfide	Diethyl Disulfide	2-Methylthiophene	COS / SO2	Carbon Disulfide	n-Butyl Mercaptan	Bromothiophene	Thiophenol
	CAS		75-18-3	513-53-1		75-33-2	616-44-4	513-44-0	624-92-0	624-89-5	110-01-0	7783-06-4	75-08-1	75-66-1	74-93-1	107-03-9	352-93-2	110-81-6	554-14-3	463-58-1	75-15-0	109-79-5	1003-09-4	108-98-5
	MW	34.08	62.134	90.186	34.08	76.16	98.17	90.186	94.19	76.16	88.17	34.08	62.134	90.186	48.11	76.16	90.19	122.252	98.16	60.08	76.14	90.186	163.04	110.18
Flux (mg/m2-min)																								
T-101		<3.18E-04	<5.80E-04	<8.42E-04	<3.18E-04	<7.11E-04	<9.17E-04	<8.42E-04	<8.80E-04	<7.11E-04	<8.24E-04	<3.18E-04	<5.80E-04	<8.42E-04	<4.49E-04	<7.11E-04	<8.43E-04	<1.14E-03	<9.17E-04	<5.61E-04	<7.11E-04	<8.42E-04	<1.52E-03	<1.03E-03
T-102		<3.43E-04	<6.25E-04	<9.08E-04	<3.43E-04	<7.66E-04	<9.88E-04	<9.08E-04	<9.48E-04	<7.66E-04	<8.87E-04	<3.43E-04	<6.25E-04	<9.08E-04	<4.84E-04	<7.66E-04	<9.08E-04	<1.23E-03	<9.88E-04	<6.05E-04	<7.66E-04	<9.08E-04	<1.64E-03	<1.11E-03
T-103		<5.40E-04	<9.85E-04	<1.43E-03	<5.40E-04	<1.21E-03	<1.56E-03	<1.43E-03	<1.49E-03	<1.21E-03	<1.40E-03	<5.40E-04	<9.85E-04	<1.43E-03	<7.63E-04	<1.21E-03	<1.43E-03	<1.94E-03	<1.56E-03	<9.53E-04	<1.21E-03	<1.43E-03	<2.58E-03	<1.75E-03
T-104		<3.16E-04	<5.76E-04	<8.37E-04	<3.16E-04	<7.07E-04	<9.11E-04	<8.37E-04	<8.74E-04	<7.07E-04	<8.18E-04	<3.16E-04	<5.76E-04	<8.37E-04	<4.46E-04	<7.07E-04	<8.37E-04	<1.13E-03	<9.11E-04	<5.57E-04	<7.06E-04	<8.37E-04	<1.51E-03	<1.02E-03
T-105		<5.01E-04	<9.13E-04	<1.33E-03	<5.01E-04	<1.12E-03	<1.44E-03	<1.33E-03	<1.38E-03	<1.12E-03	<1.30E-03	<5.01E-04	<9.13E-04	<1.33E-03	<7.07E-04	<1.12E-03	<1.33E-03	<1.80E-03	<1.44E-03	<8.83E-04	<1.12E-03	<1.33E-03	<2.40E-03	<1.62E-03
T-106		<8.93E-04	<1.63E-03	<2.36E-03	<8.93E-04	<2.00E-03	<2.57E-03	<2.36E-03	<2.47E-03	<2.00E-03	<2.31E-03	<8.93E-04	<1.63E-03	<2.36E-03	<1.26E-03	<2.00E-03	<2.36E-03	<3.20E-03	<2.57E-03	<1.57E-03	<2.00E-03	<2.36E-03	<4.27E-03	<2.89E-03
T-107		<3.34E-04	<6.09E-04	<8.84E-04	<3.34E-04	<7.46E-04	<9.62E-04	<8.84E-04	<9.23E-04	<7.46E-04	<8.64E-04	<3.34E-04	<6.09E-04	<8.84E-04	<4.72E-04	<7.46E-04	<8.84E-04	<1.20E-03	<9.62E-04	<5.89E-04	<7.46E-04	<8.84E-04	<1.60E-03	<1.08E-03
T-108		7.48497	9.08127	2.50800	0.46310	0.87847	0.56617	0.46027	0.35272	0.16727	0.13722	0.02612	0.02700	0.03847	0.01596	0.01504	<1.78E-03	0.00676	<1.94E-03	<1.19E-03	<1.50E-03	<1.78E-03	<3.22E-03	<2.18E-03
T-109		0.01834	0.02133	0.00920	0.00158	<1.77E-03	<2.28E-03	<2.09E-03	<2.18E-03	<1.77E-03	<2.05E-03	<7.91E-04	<1.44E-03	<2.09E-03	<1.12E-03	<1.77E-03	<2.09E-03	<2.84E-03	0.00455	<1.39E-03	<1.77E-03	<2.09E-03	<3.78E-03	<2.56E-03
T-110		0.00653	0.00595	0.00432	<5.10E-04	<1.14E-03	<1.47E-03	<1.35E-03	<1.41E-03	<1.14E-03	<1.32E-03	0.00163	<9.30E-04	<1.35E-03	<7.20E-04	<1.14E-03	<1.35E-03	<1.83E-03	<1.47E-03	<9.00E-04	<1.14E-03	<1.35E-03	<2.44E-03	<1.65E-03
T-111		0.00343	0.00188	<7.57E-04	0.00229	<6.39E-04	<8.24E-04	<7.57E-04	<7.90E-04	<6.39E-04	<7.40E-04	<2.86E-04	<5.21E-04	<7.57E-04	<4.04E-04	<6.39E-04	<7.57E-04	<1.03E-03	<8.24E-04	<5.04E-04	<6.39E-04	<7.57E-04	<1.37E-03	<9.25E-04
T-112		0.00105	0.00123	<4.96E-04	0.00037	<4.18E-04	<5.39E-04	<4.96E-04	<5.18E-04	<4.18E-04	<4.84E-04	<1.87E-04	<3.41E-04	<4.96E-04	<2.64E-04	<4.18E-04	<4.96E-04	<6.72E-04	<5.39E-04	<3.30E-04	<4.18E-04	<4.96E-04	<8.96E-04	<6.05E-04
T-113		0.00160	<9.11E-04	<1.32E-03	0.00160	<1.12E-03	<1.44E-03	<1.32E-03	<1.38E-03	<1.12E-03	<1.29E-03	<5.00E-04	<9.11E-04	<1.32E-03	<7.06E-04	<1.12E-03	<1.32E-03	<1.79E-03	<1.44E-03	<8.81E-04	<1.12E-03	<1.32E-03	<2.39E-03	<1.62E-03
T-114		<2.68E-04	<4.88E-04	<7.09E-04	<2.68E-04	<5.98E-04	<7.71E-04	<7.09E-04	<7.40E-04	<5.98E-04	<6.93E-04	<2.68E-04	<4.88E-04	<7.09E-04	<3.78E-04	<5.98E-04	<7.09E-04	<9.61E-04	<7.71E-04	<4.72E-04	<5.98E-04	<7.09E-04	<1.28E-03	<8.66E-04
T-115		<1.82E-04	<3.31E-04	<4.81E-04	<1.82E-04	<4.06E-04	<5.23E-04	<4.81E-04	<5.02E-04	<4.06E-04	<4.70E-04	<1.82E-04	<3.31E-04	<4.81E-04	<2.56E-04	<4.06E-04	<4.81E-04	<6.52E-04	<5.23E-04	<3.20E-04	<4.06E-04	<4.81E-04	<8.69E-04	<5.87E-04
T-116		<1.56E-04	<2.85E-04	<4.14E-04	<1.56E-04	<3.49E-04	<4.50E-04	<4.14E-04	<4.32E-04	<3.49E-04	<4.05E-04	<1.56E-04	<2.85E-04	<4.14E-04	<2.21E-04	<3.49E-04	<4.14E-04	<5.61E-04	<4.50E-04	<2.76E-04	<3.49E-04	<4.14E-04	<7.48E-04	<5.06E-04
T-117		<1.62E-04	<2.96E-04	<4.30E-04	<1.62E-04	<3.63E-04	<4.68E-04	<4.30E-04	<4.49E-04	<3.63E-04	<4.20E-04	<1.62E-04	<2.96E-04	<4.30E-04	<2.29E-04	<3.63E-04	<4.30E-04	<5.83E-04	<4.68E-04	<2.86E-04	<3.63E-04	<4.30E-04	<7.77E-04	<5.25E-04
T-118		<1.51E-04	<2.75E-04	<3.99E-04	<1.51E-04	<3.37E-04	<4.35E-04	<3.99E-04	<4.17E-04	<3.37E-04	<3.90E-04	<1.51E-04	<2.75E-04	<3.99E-04	<2.13E-04	<3.37E-04	<3.99E-04	<5.41E-04	<4.35E-04	<2.66E-04	<3.37E-04	<3.99E-04	<7.22E-04	<4.88E-04
T-201		0.00358	0.00230	0.00278	0.00126	<1.18E-03	<1.52E-03	<1.39E-03	<1.45E-03	<1.18E-03	<1.36E-03	<5.26E-04	<9.59E-04	<1.39E-03	<7.43E-04	<1.18E-03	<1.39E-03	<1.89E-03	<1.52E-03	<9.27E-04	<1.18E-03	<1.39E-03	<2.52E-03	<1.70E-03
T-202		<4.54E-04	<8.28E-04	<1.20E-03	<4.54E-04	<1.02E-03	<1.31E-03	<1.20E-03	<1.26E-03	<1.02E-03	<1.18E-03	<4.54E-04	<8.28E-04	<1.20E-03	<6.41E-04	<1.02E-03	<1.20E-03	<1.63E-03	<1.31E-03	<8.01E-04	<1.02E-03	<1.20E-03	<2.17E-03	<1.47E-03
T-203		0.00521	<4.94E-04	0.00287	0.00282	0.00170	<7.81E-04	0.00144	<7.50E-04	<6.06E-04	<7.02E-04	<2.71E-04	<4.94E-04	<7.18E-04	<3.83E-04	<6.06E-04	<7.18E-04	<9.73E-04	<7.81E-04	<4.78E-04	<6.06E-04	<7.18E-04	<1.30E-03	<8.77E-04
T-204		<1.65E-04	<3.01E-04	<4.37E-04	<1.65E-04	<3.69E-04	<4.76E-04	<4.37E-04	<4.57E-04	<3.69E-04	<4.28E-04	<1.65E-04	<3.01E-04	<4.37E-04	<2.33E-04	<3.69E-04	<4.37E-04	<5.93E-04	<4.76E-04	<2.91E-04	<3.69E-04	<4.37E-04	<7.91E-04	<5.34E-04
T-205		<6.61E-04	<1.21E-03	<1.75E-03	<6.61E-04	<1.48E-03	<1.90E-03	<1.75E-03	<1.83E-03	<1.48E-03	<1.71E-03	<6.61E-04	<1.21E-03	<1.75E-03	<9.33E-04	<1.48E-03	<1.75E-03	<2.37E-03	<1.90E-03	<1.17E-03	<1.48E-03	<1.75E-03	<3.16E-03	<2.14E-03
T-206		0.00138	<8.98E-04	<1.30E-03	0.00138	<1.10E-03	<1.42E-03	<1.30E-03	<1.36E-03	<1.10E-03	<1.27E-03	<4.93E-04	<8.98E-04	<1.30E-03	<6.95E-04	<1.10E-03	<1.30E-03	<1.77E-03	<1.42E-03	<8.68E-04	<1.10E-03	<1.30E-03	<2.36E-03	<1.59E-03
T-207		0.00176	<1.15E-03	<1.67E-03	<6.29E-04	<1.41E-03	<1.81E-03	<1.67E-03	<1.74E-03	<1.41E-03	<1.63E-03	<6.29E-04	<1.15E-03	<1.67E-03	<8.89E-04	<1.41E-03	0.00466	<2.26E-03	<1.81E-03	<1.11E-03	<1.41E-03	<1.67E-03	<3.01E-03	<2.04E-03
T-208		<7.96E-04	<1.45E-03	<2.11E-03	<7.96E-04	<1.78E-03	<2.29E-03	<2.11E-03	<2.20E-03	<1.78E-03	<2.06E-03	<7.96E-04	<1.45E-03	<2.11E-03	<1.12E-03	<1.78E-03	<2.11E-03	<2.86E-03	<2.29E-03	<1.40E-03	<1.78E-03	<2.11E-03	<3.81E-03	<2.57E-03
T-209		<1.94E-04	<3.54E-04	<5.13E-04	<1.94E-04	<4.34E-04	<5.59E-04	<5.13E-04	<5.36E-04	<4.34E-04	<5.02E-04	<1.94E-04	<3.54E-04	<5.13E-04	<2.74E-04	<4.34E-04	<5.13E-04	<6.96E-04	<5.59E-04	<3.42E-04	<4.33E-04	<5.13E-04	<9.28E-04	<6.27E-04
T-210		<3.18E-04	<5.81E-04	<8.43E-04	<3.18E-04	<7.12E-04	<9.17E-04	<8.43E-04	<8.80E-04	<7.12E-04	<8.24E-04	<3.18E-04	<5.81E-04	<8.43E-04	<4.49E-04	<7.12E-04	<8.43E-04	<1.14E-03	<9.17E-04	<5.61E-04	<7.11E-04	<8.43E-04	<1.52E-03	<1.03E-03
T-211		<1.69E-04	<3.08E-04	<4.47E-04	<1.69E-04	<3.77E-04	<4.87E-04	<4.47E-04	<4.67E-04	<3.77E-04	<4.37E-04	<1.69E-04	<3.08E-04	<4.47E-04	<2.38E-04	<3.77E-04	<4.47E-04	<6.06E-04	<4.87E-04	<2.98E-04	<3.77E-04	<4.47E-04	<8.08E-04	<5.46E-04
T-212		<1.75E-04	<3.20E-04	<4.64E-04	<1.75E-04	<3.92E-04	<5.05E-04	<4.64E-04	<4.85E-04	<3.92E-04	<4.54E-04	<1.75E-04	<3.20E-04	<4.64E-04	<2.48E-04	<3.92E-04	<4.64E-04	<6.29E-04	<5.05E-04	<3.09E-04	<3.92E-04	<4.64E-04	<8.39E-04	<5.67E-04
T-213		<1.84E-04	<3.36E-04	<4.88E-04	<1.84E-04	<4.12E-04	<5.31E-04	<4.88E-04	<5.10E-04	<4.12E-04	<4.77E-04	<1.84E-04	<3.36E-04	<4.88E-04	<2.60E-04	<4.12E-04	<4.88E-04	<6.62E-04	<5.31E-04	<3.25E-04	<4.12E-04	<4.88E-04	<8.83E-04	<5.96E-04
T-214		<1.43E-04	<2.61E-04	<3.78E-04	<1.43E-04	<3.20E-04	<4.12E-04	<3.78E-04	<3.95E-04	<3.20E-04	<3.70E-04	<1.43E-04	<2.61E-04	<3.78E-04	<2.02E-04	<3.20E-04	<3.79E-04	<5.13E-04	<4.12E-04	<2.52E-04	<3.20E-04	<3.78E-04	<6.84E-04	<4.62E-04
T-215		<5.00E-04	<9.12E-04	<1.32E-03	<5.00E-04	<1.12E-03	<1.44E-03	<1.32E-03	<1.38E-03	<1.12E-03	<1.29E-03	<5.00E-04	<9.12E-04	<1.32E-03	<7.06E-04	<1.12E-03	<1.32E-03	<1.79E-03	<1.44E-03	<8.82E-04	<1.12E-03	<1.32E-03	<2.39E-03	<1.62E-03
T-216		<1.74E-04	<3.17E-04	<4.60E-04	<1.74E-04	<3.88E-04	<5.00E-04	<4.60E-04	<4.80E-04	<3.88E-04	<4.49E-04	<1.74E-04	<3.17E-04	<4.60E-04	<2.45E-04	<3.88E-04	<4.60E-04	<6.23E-04	<5.00E-04	<3.06E-04	<3.88E-04	<4.60E-04	<8.31E-04	<5.61E-04
T-217		<2.21E-04	<4.02E-04	<5.84E-04	<2.21E-04	<4.93E-04	<6.36E-04	<5.84E-04	<6.10E-04	<4.93E-04	<5.71E-04	<2.21E-04	<4.02E-04	<5.84E-04	<3.11E-04	<4.93E-04	<5.84E-04	<7.92E-04	<6.36E-04	<3.89E-04	<4.93E-04	<5.84E-04	<1.06E-03	<7.13E-04
T-218		<2.70E-04	<4.92E-04	<7.14E-04	<2.70E-04	<6.03E-04	<7.77E-04	<7.14E-04	<7.46E-04	<6.03E-04	<6.98E-04	<2.70E-04	<4.92E-04	<7.14E-04	<3.81E-04	<6.03E-04	<7.14E-04	<9.68E-04	<7.77E-04	<4.76E-04	<6.03E-04	<7.14E-04	<1.29E-03	<8.72E-04
T-301		<2.56E-04	<4.66E-04	<6.76E-04	<2.56E-04	<5.71E-04	<7.36E-04	<6.76E-04	<7.06E-04	<5.71E-04	<6.61E-04	<2.56E-04	<4.66E-04	<6.76E-04	<3.61E-04	<5.71E-04	<6.76E-04	<9.17E-04	<7.36E-04	<4.50E-04	<5.71E-04	<6.76E-04	<1.22E-03	<8.26E-04
T-302		<3.41E-04	<6.21E-04	<9.02E-04	<3.41E-04	<7.62E-04	<9.82E-04	<9.02E-04	<9.42E-04	<7.62E-04	<8.82E-04	<3.41E-04	<6.21E-04	<9.02E-04	<4.81E-04	<7.62E-04	<9.02E-04	<1.22E-03	<9.82E-04	<6.01E-04	<7.61E-04	<9.02E-04	<1.63E-03	<1.10E-03
T-303		<3.69E-04	<6.73E-04	<9.76E-04	<3.69E-04	<8.25E-04	<1.06E-03	<9.76E-04	<1.02E-03	<8.25E-04	<9.55E-04	<3.69E-04	<6.73E-04	<9.76E-04	<5.21E-04	<8.25E-04	<9.76E-04	<1.32E-03	<1.06E-03	<6.50E-04	<8.24E-04	<9.76E-04	<1.77E-03	<1.19E-03
T-304		<2.98E-04	<5.43E-04	<7.88E-04	<2.98E-04	<6.65E-04	<8.57E-04	<7.88E-04	<8.23E-04	<6.65E-04	<7.70E-04	<2.98E-04	<5.43E-04	<7.88E-04	<4.20E-04	<6.65E-04	<7.88E-04	<1.07E-03	<8.57E-04	<5.25E-04	<6.65E-04	<7.88E-04	<1.42E-03	<9.62E-04
T-305		<4.60E-04	<8.39E-04	<1.22E-03	<4.60E-04	<1.03E-03	<1.33E-03	<1.22E-03	<1.27E-03	<1.03E-03	<1.19E-03	<4.60E-04	<8.39E-04	<1.22E-03	<6.49E-04	<1.03E-03	<1.22E-03	<1.65E-03	<1.33E-03	<8.11E-04	<1.03E-03	<1.22E-03	<2.20E-03	<1.49E-03
T-306		<3.48E-04	<6.35E-04	<9.21E-04	<3.48E-04	<7.78E-04	<1.00E-03	<9.21E-04	<9.62E-04	<7.78E-04	<9.00E-04	<3.48E-04	<6.35E-04	<9.21E-04	<4.91E-04	<7.78E-04	<9.21E-04	<1.25E-03	<1.00E-03	<6.14E-04	<7.78E-04	<9.21E-04	<1.67E-03	<1.13E-03
T-307		<3.56E-04	<6.50E-04	<9.43E-04	<3.56E-04	<7.97E-04	<1.03E-03	<9.43E-04	<9.85E-04	<7.97E-04	<9.22E-04	<3.56E-04	<6.50E-04	<9.43E-04	<5.03E-04	<7.97E-04	<9.43E-04	<1.28E-03	<1.03E-03	<6.28E-04	<7.96E-04	<9.43E-04	<1.71E-03	<1.15E-03
T-308		<3.98E-04	<7.26E-04	<1.05E-03	<3.98E-04	<8.90E-04	<1.15E-03	<1.05E-03	<1.10E-03	<8.90E-04	<1.03E-03	<3.98E-04	<7.26E-04	<1.05E-03	<5.62E-04	<8.90E-04	<1.05E-03	<1.43E-03	<1.15E-03	<7.02E-04	<8.90E-04	<1.05E-03	<1.90E-03	<1.29E-03
T-309		<4.22E-04	<7.69E-04	<1.12E-03	<4.22E-04	<9.43E-04	<1.22E-03	<1.12E-03	<1.17E-03	<9.43E-04	<1.09E-03	<4.22E-04	<7.69E-04	<1.12E-03	<5.96E-04	<9.43E-04	<1.12E-03	<1.51E-03	<1.22E-03	<7.44E-04	<9.43E-04	<1.12E-03	<2.02E-03	<1.36E-03
T-310		<1.38E-04	<2.52E-04	<3.66E-04	<1.38E-04	<3.09E-04	<3.98E-04	<3.66E-04	<3.82E-04	<3.09E-04	<3.58E-04	<1.38E-04	<2.52E-04	<3.66E-04	<1.95E-04	<3.09E-04	<3.66E-04	<4.96E-04	<3.98E-04	<2.44E-04	<3.09E-04	<3.66E-04	<6.62E-04	<4.47E-04
T-311		<8.81E-04	<1.61E-03	<2.33E-03	<8.81E-04	<1.97E-03	<2.54E-03	<2.33E-03	<2.44E-03	<1.97E-03	<2.28E-03	<8.81E-04	<1.61E-03	<2.33E-03	<1.24E-03	<1.97E-03	<2.33E-03	<3.16E-03	<2.54E-03	<1.55E-03	<1.97E-03	<2.33E-03	<4.22E-03	<2.85E-03
T-312		<6.15E-04	<1.12E-03	<1.63E-03	<6.15E-04	<1.37E-03	<1.77E-03	<1.63E-03	<1.70E-03	<1.37E-03	<1.59E-03	<6.15E-04	<1.12E-03	<1.63E-03	<8.68E-04	<1.37E-03	<1.63E-03	<2.21E-03	<1.77E-03	<1.08E-03	<1.37E-03	<1.63E-03	<2.94E-03	<1.99E-03
T-313		<7.17E-04	<1.31E-03	<1.90E-03	<7.17E-04	<1.60E-03	<2.06E-03	<1.90E-03	<1.98E-03	<1.60E-03	<1.85E-03	<7.17E-04	<1.31E-03	<1.90E-03	<1.01E-03	<1.60E-03	<1.90E-03	<2.57E-03	<2.06E-03	<1.26E-03	<1.60E-03	<1.90E-03	<3.43E-03	<2.32E-03
T-313		<7.31E-04	<1.33E-03	<1.94E-03	<7.31E-04	<1.63E-03	<2.11E-03	<1.94E-03	<2.02E-03	<1.63E-03	<1.89E-03	<7.31E-04	<1.33E-03	<1.94E-03	<1.03E-03	<1.63E-03	<1.94E-03	<2.62E-03	<2.11E-03	<1.29E-03	<1.63E-03	<1.94E-03	<3.50E-03	<2.36E-03

CE Schmidt, Ph.D.
Environmental Consultant

ATTACHMENT A

EMISSION MEASUREMENT DATA SHEETS

19200 Live Oak Road Red Bluff, CA 96080 (530) 529-4256 Fax- 4878

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/19/25 SAMPLERS LES TRC JDS RCW

LOCATION Chiquita Canyon Landfill CELL #76 L#1

SURFACE DESCRIPTION ~~CELL #76 L#1~~ DIRT

CURRENT ACTIVITY

INSTRUMENT TYPE _____ I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. E PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UAP+He CC EB 8171140 SUPPLIER OA PSIG START 2002 PSIG STOP _____

Time	10.04% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
0800	5	0						2033:			
↓	5	1						0.009		S 1019	
↓	5	2					N/F, F			S 1016	
0818	5	3	55	57	50	53	0.2/-0.2	1631:	5.3	T101	#668
	5	4						0.000		Δt	0840-0845
0830	5	5									

COMMENTS:

N/F, F
FID Outside: 2.5 / 2.5
H_2S Outside: 2033: 0.008
1631: 0.000

NEAR WELLPIPE

Coordinates
11 S 348,749
3,811,756

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/19/25 SAMPLERS CES TPC JDA PCW

LOCATION Chiquita Canyon Landfill CELL #76 LA2

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. G PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL V CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP-HC CC EB 0171140 SUPPLIER OA PSIG START 2000 PSIG STOP

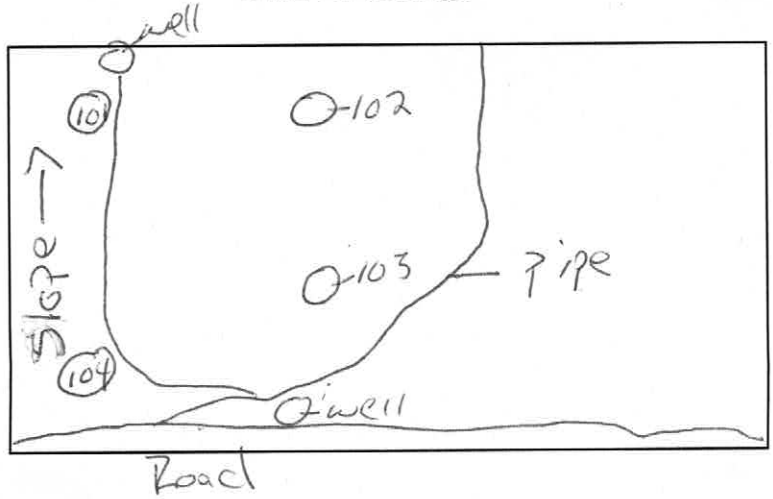
Time	10.04% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
0800	5	0						2033:			
↓	5	1						0.006		S1029	
↓	5	2					N/F F			S1026	
0818	5	3	54	54	48	54	0.8/2.5	1631:	4.6	T102	# 895
	5	4						0.000		At	0850 - 0853
0830	5	5									

COMMENTS:

N/F P
FID Outside: 4.2/5.2
H_2S Outside: 2033: 0.17
1631: 0.002

Coordinates
11 S 348,740
3,811,751

SITE DIAGRAM



SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/19/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL #76 L#3

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE _____ I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. F PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL V CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP He CC EB0149547 SUPPLIER UA PSIG START 2000 PSIG STOP _____

Time	99.98% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
0800	5	0						2033:			
	5	1						0.003		S103a	
↓	5	2					NF F			S103b	
0818	5	3	61	60	57	55	5.2/26	1631:	2.5	T103	#881
	5	4						0.000		At	0844-0848
0830	5	5									

COMMENTS:

N/F F
FID Outside: 7.5/ ~~220~~ 15
H_2S Outside: 2033: 0.009
1631: 0.000

Coordinates
11 S 348,733
3,811,760

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/19/25 SAMPLERS LCS TPL JMA REW

LOCATION Chiquita Canyon Landfill CELL #76 L#4

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. B PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☐ PURGED PRIOR TO SAMPLING ☐ New ☐ Used ☐

SWEEP AIR UHP+He CC eb 0424457 SUPPLIER OA PSIG START 2000 PSIG STOP

Time	Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
0800	5	0						2033:			
↓	5	1						0.12		S104a	
↓	5	2					N/F ~~F~~			S104b	
0818	5	3	58	57	52	54	920 / 790	1631:	4.7	T104	#860
	5	4						0.000		Δt	0837-0842
0830	5	5									

COMMENTS:

N/F ~~F~~

FID Outside: 110 / ~~110~~ 13

H_2S Outside: 2033: 0.007

1631: 0.000

Coordinates

11 S 348,743

3,811,765

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/19/25 SAMPLERS CES TDC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 1 7 4 L # 1 SYNTH MEMS

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. F PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP+He CC EB 07APR25 SUPPLIER CA PSIG START 1800 PSIG STOP

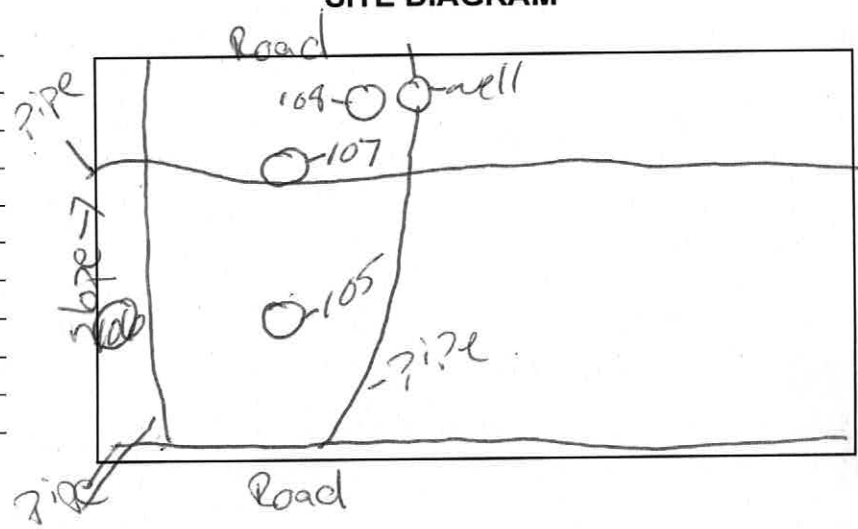
Time	9.9709% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
0941	5	0						2033:			
↓	5	1						0.006		S105a	
↓	5	2					NF F			S105b	
0959	5	3	71	~~67~~ 70	68	65	11 / 18.2	1631:	4.2	T105	# 685
	5	4						0.000		At	1016-1022
1011	5	5									

COMMENTS:

N/F, F
FID Outside: 23 / 12
H_2S Outside: 2033: 0.007
1631: 0.16

Coordinates
11 S 348,347
3,811,526

SITE DIAGRAM



SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/19/25 SAMPLERS CES TJC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 174 L#2

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. E PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☑ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☑ New ☐ Used ☐

SWEEP AIR UHP+He CC EB 0145547 SUPPLIER ON PSIG START 1800 PSIG STOP

Time	9.978% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
0941	5	0					~~0~~ 20331	~~0.000~~			
↓	5	1					1631	0.006		S1069	
↓	5	2					NF/~~NF~~F			S1070	
0959	5	3	61	63	63	60	3.0/1.3		8.0	T106	# 621
	5	4								At	1022-1027
1011	5	5									

COMMENTS:

NF/F
FID Outside: 19/12
H_2S Outside: 20,331: 0.16
1631: 0.34

Coordinates
11 S 348,344
3,811,543

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/19/25 SAMPLERS LES TDC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 174 L#3

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE _____ I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. _____ PHOTO TAKEN: Yes ☒ No ☐ _____

CHAMBER SEAL V CONDENSATION: Yes ☐ No ☐ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐ _____

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP+He CC EB 0171140 SUPPLIER OA PSIG START 1800 PSIG STOP _____

Time	16.04% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
0941	5	0						2033:			
↓	5	1						0.005		S1079	
↓	5	2					N/F, F			S107b	
0959	5	3	72	73	70	65	4.9/4.2	1631:	5.8	T107	# 644
	5	4						0.008		Δt	1022-1026
1011	5	5									

COMMENTS:

N/F F
FID Outside: 7.9/ 14
H_2S Outside: 2033: 0.007
1631: 0.20

Coordinates
11 S 348,364
3,811,519

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

1164 POINT

DATE 3/19/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 1/4 L # 4

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL V CONDENSATION: Yes ☐ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR VHP+He CC SUPPLIER OA PSIG START PSIG STOP

Time	Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	H_2		
			Surf	Air	Surf	Air					
0941	5	0						2033:			
↓	5	1						3.0		S108a	
↓	5	2					N/F F			S108b	
0959	5	3	66	69	67	67	FO/	1631:	2.7	T108	#556
	5	4						3↓		At	1030-1035
1011	5	5									

COMMENTS:

	N/F	F
FID Outside:	12 /	8.2
H_2S Outside:	2033	0.10
	1631	0.21

Coordinates
11 S 348,379
3,811,520

SITE DIAGRAM

SCREENED @ 163 3/19
HIGHER 3/19
★ TEAR IN PART ~5" LNT

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/19/25 SAMPLERS CES TDC JDA RCO

LOCATION Chiquita Canyon Landfill CELL# 169 L#1 CAN MSW

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE _____ I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. B PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL 4 CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP+He CC EB 0717140 SUPPLIER OA PSIG START 1602 PSIG STOP _____

Time	10.04% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
1052	5	0						2033:			
↓	5	1						0.011		S109a	
↓	5	2					NF, F		2.0	S109b	
1110	5	3	74	69	72	66	22/25	1631:		J109	#694
	5	4						1.1		At	1125-1130
1122	5	5									

COMMENTS:

NF / F
FID Outside: 20 / 18
H_2S Outside: 2033: 0.19
1631: 0.27

Coordinates
11 S 348,372
3,811,504

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/19/25 SAMPLERS LES TDC JDA RCW

LOCATION Chiquita Canyon Landfill CELL# 169 L#2

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. F PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL 1/ CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP He CC (2) G1711O SUPPLIER OA PSIG START 1600 PSIG STOP

Time	10.04% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
1052	5	0						2033			
↓	5	1						0.007			
↓	5	2					NF, F			S1109	
1110	5	3	76	78	76	72	30/18	1631	3.5	S1106	
	5	4						0.013		T109	#837
1122	5	5								Δt	1132-1136

COMMENTS:

NF / F
FID Outside: 18 / 19
H_2S Outside: 2033 0.066
1631 0.059

Coordinates
11 S 342,372
3,811,491

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/19/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 169 L#3

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL V CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UAP+He CC EB 01495417 SUPPLIER OA PSIG START 1600 PSIG STOP

Time	Sweep Air (L/min) 9.978% He	Res. Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) FID No Filter/ Filter	H_2S	He	Sample Number	Comments
1052	5	0						2033:			1142
↓	5	1						0.010		S111a	1138
↓	5	2					NF F			S111b	
1110	5	3	72	74	75	69	8 / 8	1631:	5.0	T111	#504
	5	4						0.000		At 4	
1122	5	5									

COMMENTS:

NF F
FID Outside: 8 / 8
H_2S Outside: 2033: ~~0.000~~ 0.010
1631: 0.000

Coordinates
11 S 348,394
3,811,476

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/19/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL #162 L#3/4

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. E PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL V CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UAP+He CC EB 0147547 SUPPLIER OM PSIG START 1600 PSIG STOP

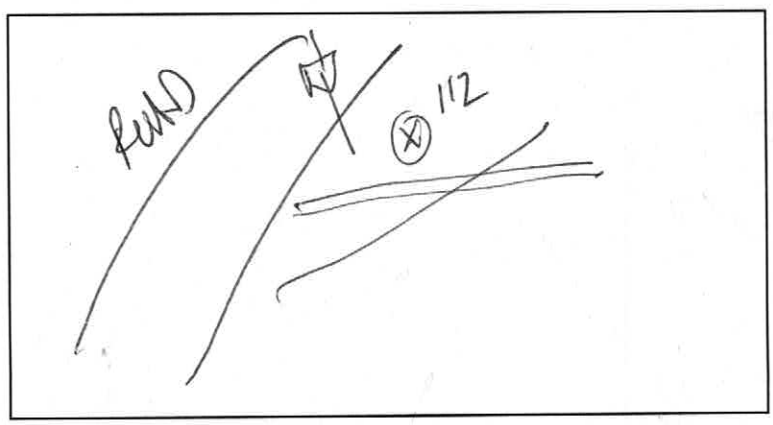
Time	9.97% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
1052	5	0						2033:	0.008		
↓	5	1								S1129	1135
↓	5	2					NF F		7.8	S1126	#31
1110	5	3	87	81	83	72	15/04	1631:	0.022	T112	#631
	5	4								At	4 MIN
1122	5	5									

COMMENTS:

NF / F
FID Outside: 90 / 70
H_2S Outside: 2033: 0.000
1631: 0.000

Coordinates
11 S 348,393
3,811,482

SITE DIAGRAM



SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/19/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 153 L#1

SURFACE DESCRIPTION MEMBRANE

CURRENT ACTIVITY

INSTRUMENT TYPE _____ I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. F PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UAP+He CC EB 017140 SUPPLIER OA PSIG START 1400 PSIG STOP _____

Time	10.04% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
1220	5	0						2033:			
↓	5	1						0.007		S1139	
↓	5	2					NF / F			S113b	
1238	5	3	81	77	78	72	6.5 / 4.5	1631:	5.7	S113	# 690
	5	4						0.000		At	4 1305
1250	5	5									1309

COMMENTS:

	NF	F
FID Outside:	11	7
H_2S Outside:	2033:	0.006
	1631:	0.026

Coordinates
11 S 348,608
3,811,615

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/19/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 153 L#2

SURFACE DESCRIPTION MEMBRANE

CURRENT ACTIVITY

INSTRUMENT TYPE _____ I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. B PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP+He CC EB 017140 SUPPLIER OA PSIG START 1460 PSIG STOP _____

Time	Sweep Air (L/min) 10.04% He	Res. Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) FID No Filter/ Filter	H_2S	He	Sample Number	Comments
1220	5	0						2033:			1:11
↓	5	1						0.005		S1149	1:17
↓	5	2					NF, F			S1146	
1238	5	3	80	75	71	67	13/1.6	1631	6	S114	#645
	5	4						0.003		At 6	
1250	5	5									

COMMENTS:

NF / F
FID Outside: 7 / 7
H_2S Outside: 2033: 0.024
1631: 0.004

Coordinates
11 S 348,599
3,811,610

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/19/25 SAMPLERS LES TRC JMA REW

LOCATION Chiquita Canyon Landfill GELC # 153 L# 3

SURFACE DESCRIPTION DIRT

CURRENT ACTIVITY

INSTRUMENT TYPE _____ I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. G PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UAP+He CC EB 0119547 SUPPLIER OA PSIG START 1400 PSIG STOP _____

Time	9.978% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
1220	5	0						2033:			
↓	5	1						0.007		S115a	
↓	5	2					NF, F			S115b	
1238	5	3	76	75	73	72	12 / 12	1631:	8.1	J115	* 6521
	5	4						0.012		At	1253-1258
1250	5	5									

COMMENTS:

NF / F
FID Outside: 32 / 23
H_2S Outside: 2033: 0.017
1631: 0.000

Coordinates
11 S 340,639
3,811,633

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/19/25 SAMPLERS LES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 153 L#4

SURFACE DESCRIPTION DIRT

CURRENT ACTIVITY

INSTRUMENT TYPE _____ I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. E PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UAH+He CC CB 0124547 SUPPLIER OA PSIG START 1400 PSIG STOP _____

Time	Sweep Air (L/min) 9.978% He	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
1220	5	0						2033:		S1169	
↓	5	1						0.012		S1166	
↓	5	2					NF / F			T116	# 782
1238	5	3	84	78	78	70	6 / 4	1631:	8.8	Δt	1303-1307
	5	4						0.000		S1179	
1250	5	5								S1176	
										T117	# 643
										Δt	1308-1311

COMMENTS:

NF / F
FID Outside: 17 / 15
H_2S Outside: 2033: 0.007
1631: 0.020

Coordinates
11 S 348,637
3,811,627

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/20/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 87 L#1 MPT

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. G PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL V CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UAP+He CC 0149547 SUPPLIER OA PSIG START 1000 PSIG STOP

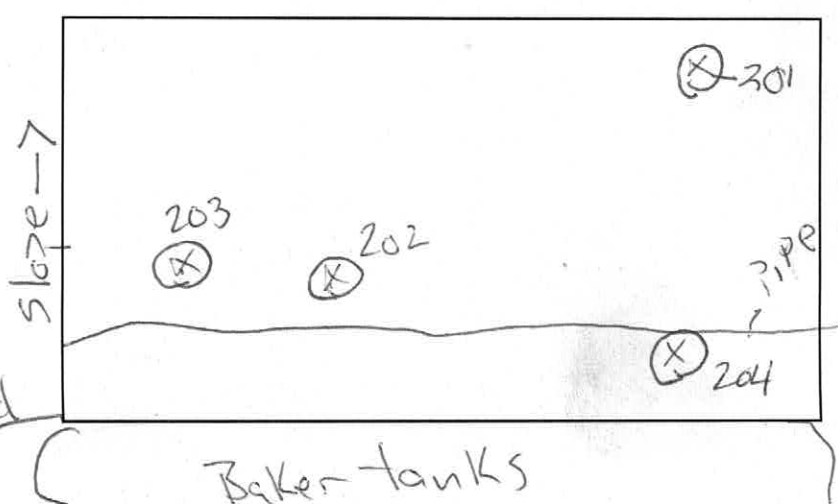
Time	Sweep Air (L/min) 9.978% He	Res. Number	Temperature (°F) Chamber Surf	Temperature (°F) Chamber Air	Temperature (°F) Ambient Surf	Temperature (°F) Ambient Air	Real-Time (ppmv) FID No Filter/ Filter	Real-Time (ppmv) H_2S	Real-Time (ppmv) He	Sample Number	Comments
0751	5	0						2033:			
↓	5	1						1.2		S201a	
V	5	2					NF F			S201b	
0809	5	3	55	54	54	50	9 / 9	1631:	3.6	T201	#726
	5	4						0.000		Δt	0823-0830
0821	5	5									

COMMENTS:

	NF	F
FID Outside:	15 /	13
H_2S Outside:	2033:	1.5
	1631:	0.000

Coordinates
11 S 348,850
3,811,230

SITE DIAGRAM



SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/20/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 87 LA2

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. B PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL V CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UAP+He CC (2L) 017140 SUPPLIER OA PSIG START 1600 PSIG STOP

Time	10.04% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
0751	5	0						2033:			
↓	5	1						0.000		S202a	
↓	5	2					NF / F			S202b	
0809	5	3					160 / 180	1631:		T202	# 883
	5	4	69	59	63	57		0.000	3.9	Δt	0838-0842
0821	5	5									

COMMENTS:

NF / F
FID Outside: 46 / 46
H_2S Outside: 2033: 0.014
1631: 0.001

Coordinates
11 S 348,819
3,811,201

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/20/25 SAMPLERS CJS TRC JMA RCW

LOCATION Chiquita Canyon Landfill CELL # 87 LH3

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. E PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP He CC RB 8171140 SUPPLIER OA PSIG START 1000 PSIG STOP

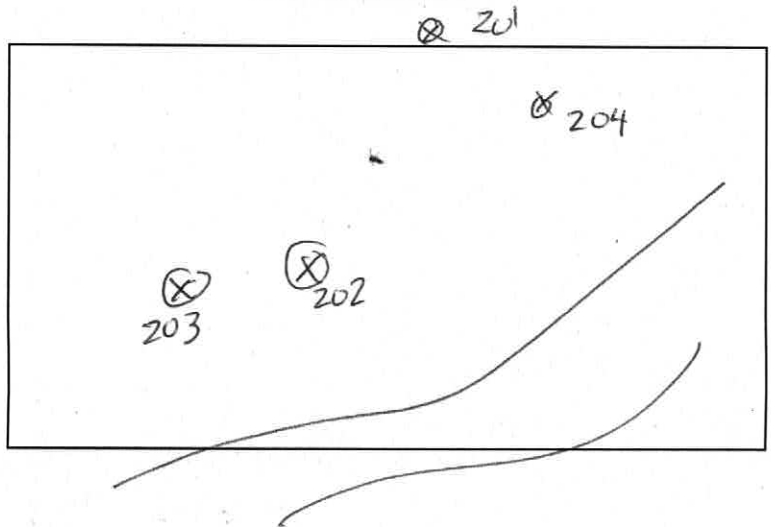
Time	10.04% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
0751	5	0						2033:			
↓	5	1						11		S203a	
↓	5	2					NF, F			S203b	
0809	5	3					6700/5600	1631:		T203	# 858
	5	4	58	57	55	52		0.000	5.4	Δt	0833-0836
0821	5	5									

COMMENTS:

NF / F
FID Outside: 160 / 250
H_2S Outside: 2033: 0.015
1631: 0.004

Coordinates
11 S 348,812
3,811,199

SITE DIAGRAM



SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/20/25 SAMPLERS CES TRL JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 87 LA 4

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. F PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP+He CC 0149547 (ES) SUPPLIER OA PSIG START 1000 PSIG STOP

Time	9.978% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
0751	5	0						2033:			
↓	5	1						0.14		S204a	
↓	5	2					NF / F			S204b	
0809	5	3	57	58	57	53	413/360	1631:	8.9	T204	# 158
	5	4						0.000		At	0829-0836
0821	5	5									

COMMENTS:

	NF	F
FID Outside:	650	450
H_2S Outside:	2033:	0.13
	1631:	0.12

Coordinates
11 S 348,855
3,811,208

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/20/25 SAMPLERS CES TDC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 197 L#1 AIR/CH4

SURFACE DESCRIPTION _____

CURRENT ACTIVITY _____

INSTRUMENT TYPE _____ I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS _____

CHAMBER I.D. B PHOTO TAKEN: Yes ☒ No ☐ _____

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐ _____

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP He CC EB 047547 SUPPLIER GA PSIG START 600 PSIG STOP _____

Time	9.978% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
0921	5	0						2033:			
↓	5	1						0.010		S205a	
↓	5	2					NF, F			S205b	
0939	5	3	79	76	77	64	20 / 21	1631:	1.2	T205	# 659
	5	4						0.000		Δt	1000-1005
0951	5	5									

COMMENTS:

NF F
FID Outside: 15 / 14
H_2S Outside: 2033: 0.012
1631: 0.000

Coordinates
11 S 348,599
3,811,188

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/20/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 197 L#2

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. G PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☒ (LIGHT) No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UAP+He CC 6/19/17 SUPPLIER OA PSIG START 800 PSIG STOP

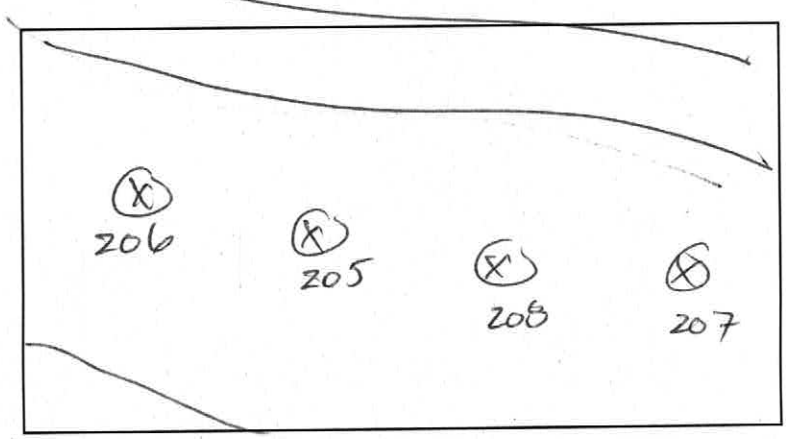
Time	9.97 00 706 He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
0921	5	0						2033:			
↓	5	1						~~1.1~~		S206a	
↓	5	2					NF, F	1.4		S206b	
0939	5	3	76	69	74	56	2700/2400	1631:	4.1	~~S~~206	#882
	5	4						~~0.000~~		At	0955-1002
0951	5	5						0.000			

COMMENTS:

NF F
FID Outside: 33 / ~~40~~ 30
H_2S Outside: 2033: 1.1
1631: 0.000

Coordinates
11 S 348,587
3,811,188

SITE DIAGRAM



SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/20/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 197 L# 3

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. F PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR VAP-Air CC EB 07/1HO SUPPLIER OA PSIG START 800 PSIG STOP

Time	10.04% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
0921	5	0						2033:			
↓	5	1						0.35		S207a	
↓	5	2					NF / F			S207b	
0939	5	3	105	92	77	70	900/640	1631:	2.1	T207	# 627
	5	4						0.000		At 5	1005
0951	5	5									1000

COMMENTS:

FID Outside: NF 24 / F 29

H_2S Outside:

2033: 0.010

1631: 0.004

Coordinates

11 S 348,615

3,811,194

SITE DIAGRAM

6Z SCREEN

100X FLUX (POST LANDFILL SCREEN)

* ALL OF GRID

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/20/25 SAMPLERS CES TRC JDA RCW

OCATION Chiquita Canyon Landfill CELL #197 L#4

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS [X] BLANK MEASUREMENTS [X] REPLICATE MEASUREMENTS [X]
AMBIENT CONCENTRATIONS

CHAMBER I.D. E PHOTO TAKEN: Yes [X] No [ ]

CHAMBER SEAL X CONDENSATION: Yes [ ] No [X] BARM PRESS

AMBIENT CONDITIONS: Sun [X] P.Sun [ ] Cloudy [ ] Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes [ ] No [X] Comment

PRIOR CHAMBER CLEANING: Full Wash [ ] Wet Wipe [ ] Dry Wipe [X] None [ ]

SAMPLE LINE: BACK FLUSHED PRIOR TO START [X] PURGED PRIOR TO SAMPLING [X] New [ ] Used [ ]

SWEEP AIR UAP+He CC EB 8171140 SUPPLIER OA PSIG START 800 PSIG STOP

Time	10.04% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
0921	5	0						2033:			
↓	5	1						0.15		5208a	
V	5	2					NF / F			5208b	
0939	5	3	86	81	78	63	470/~~470~~	1631:	2.7	T208	#791
	5	4					353	0.000		Δt 4	1008-1012
0951	5	5									

COMMENTS:

NF / F
FID Outside: 28 / 13
H_2S Outside: 2033: 0.011
1631: 0.006

Coordinates
11 S 348,606
3,811,191

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/20/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 108 L#1 DRY

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. E PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☒ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP+He CC EB 0149548 SUPPLIER OA PSIG START 600 PSIG STOP

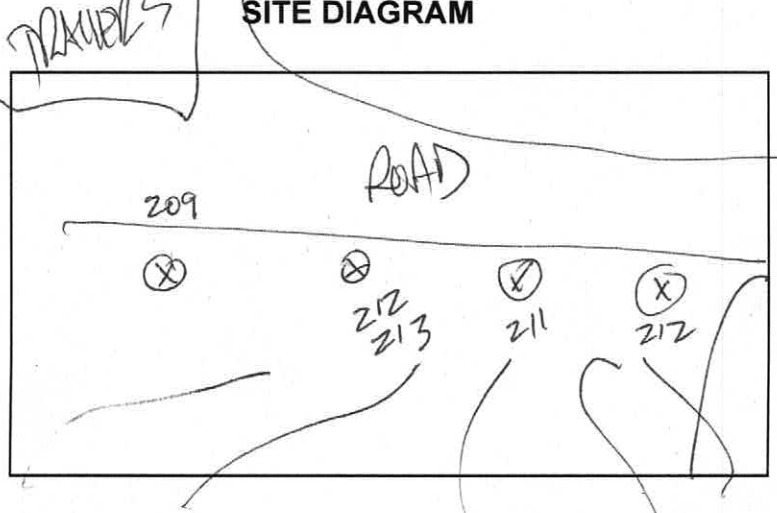
Time	9.978% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
1042	5	0						2033:			
↓	5	1						1.1		S209a	
↓	5	2					NF F			S209b	
1600	5	3	91	86	68	68	0 / -0.3	1631:	7.0	T209	#778
	5	4						~~0.001~~		AT3	1124
1112	5	5						0.000			1121

COMMENTS:

NF / F
FID Outside: 5 / 4
H_2S Outside: 2033: 0.011
1631: 0.001

Coordinates
11 S 348,984
3,811,081

SITE DIAGRAM



SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/20/25 SAMPLERS CES TRC JMA RCW

LOCATION Chiquita Canyon Landfill CELL # 108 L#2

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE _____ I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. G PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL V CONDENSATION: Yes ☒ No ☐ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5 SLIGHT, ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UAP-Ae CC EB 0171140 SUPPLIER UA PSIG START 500 PSIG STOP _____

Time	10.04% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	Ae		
			Surf	Air	Surf	Air					
1042	5	0						2033:			
↓	5	1						0.019		[illegible]	
↓	5	2					NF / F			S2109	
1100	5	3	84	83	63	69	-2.1 / -2.3	1631:	6.2	S2105	
	5	4						0.000		T210	#714
1112	5	5								Δt	1121-1127

COMMENTS:

	NF	F
FID Outside:	2.1	0.6
H_2S Outside:	2033: 0.021	
	1631: 0.000	

Coordinates
11 S 348,951
3,811,103

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/20/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 108 L#3

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. F PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☒ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', SLIGHT mph Wind at Seal, mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP He CC EB 017140 SUPPLIER OA PSIG START 500 PSIG STOP

Time	10.04% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
1042	5	0						2033			
↓	5	1						1.3		S211a	
↓	5	2					NF, F			S211b	
1100	5	3	90	88	75	74	2.4/2.4	1631	7.7	T211	# 629
	5	4						0.000		Δt	1126-1130
1112	5	5									

COMMENTS:

NF / F
FID Outside: 1.7 / 0.7
H_2S Outside: 2033 : 0.013
1631 : 0.000

Coordinates
11 S 348,958
3,811,097

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/20/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 108 L# 4

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. B PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☒ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR VHP He CC RB 0149547 SUPPLIER OA PSIG START 600 PSIG STOP

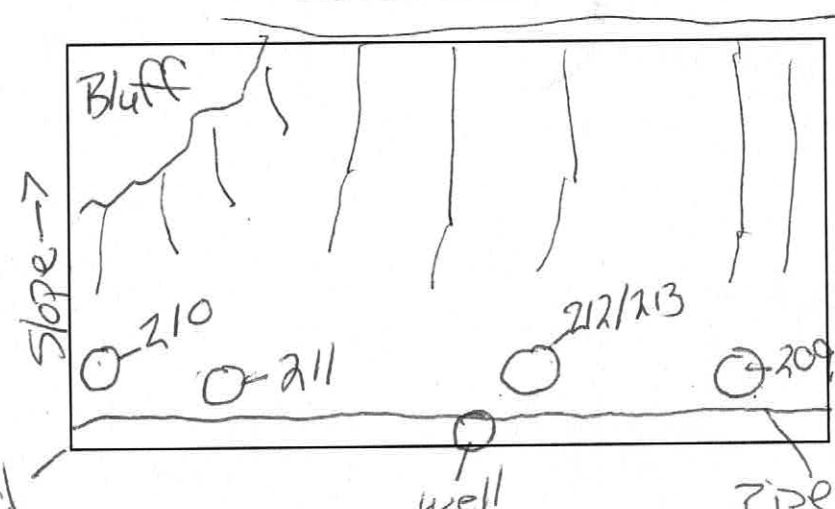
Time	9.978% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
1042	5	0						2033		S212a	1133
↓	5	1						0.017		S212b	1130
↓	5	2					NF / F			T212	# 502
1100	5	3	91	83	67	71	-0.6 / -1	1631:	7.5	At 3	
	5	4						0.000		S213a	
1112	5	5								S213b	
										T213	# 712
										At 3	1136
											1133

COMMENTS:

	NF	F
FID Outside:	3.8 /	2.6
H_2S Outside:	2033 :	0.020
	1631 :	0.000

Coordinates
11 S 348,978
3,811,088

SITE DIAGRAM



SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/20/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL A 250 LA1

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. B PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UAP+He CC EB 017140 SUPPLIER CA PSIG START 400 PSIG STOP

Time	Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	Ae		
			Surf	Air	Surf	Air					
1206	5	0						2033:			
↓	5	1						1.1		S215a	
↓	5	2					NF, F			S215b	
1224	5	3				~~80~~	~~0.7/1.7~~	1631:	4.3	J215	# 751
	5	4	108	104	101	74	1.1/0.7	0.000		Δt 3	1247
1236	5	5									1244

COMMENTS:

NF / F
FID Outside: 4.2 / 2.6
H_2S Outside: 2033: 0.008
1631: 0.000

~~BLANK~~ ~~EB105K~~ 104457
cc EB
T-214 1257

Coordinates
11 S 34 8,537
3,81 0,773

SITE DIAGRAM

~~1054~~
EB 149547 9.978 He

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/20/25 SAMPLERS LES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 250 L#2

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE _____ I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. F PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL V CONDENSATION: Yes ☒ No ☐ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph (LIGHT) Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR VAP+He CC EB 017140 SUPPLIER OA PSIG START 400 PSIG STOP _____

Time	Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
1206	5	0						2033			
↓	5	1						0.007		5216a	
↓	5	2					NF, F			5216b	
1224	5	3	90	90	83	79	2.3/-1.4	1631	8.6	T216	#896
	5	4						0.000		Δt 3	1249
1236	5	5									1246

COMMENTS:

FID Outside: NF/F 4.5/3.2
H_2S Outside: 2033: 0.14
1631: 0.018

Coordinates
11 S 348,540
3,810,762

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/2/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 250 L#3

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. E PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☒ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', LIGHT mph Wind at Seal, mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP+He CC EB 0149547 SUPPLIER OA PSIG START 400 PSIG STOP

Time	9.97% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	Ae		
			Surf	Air	Surf	Air					
1206	5	0						2033			
↓	5	1						0.008		S217a	
↓	5	2					NF, F			S217b	
1224	5	3	93	86	86	80	7.3/6.2	1631	5.9	T217	# 634
	5	4						0.000		Δt	1248-1251
1236	5	5									

COMMENTS:

FID Outside: NF 3.3 / F 4.5
H_2S Outside: 2033: 0.005
1631: 0.012

Coordinates
11 S 348,541
3,810,749

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/20/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 250 L#4 D/A

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE _____ I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. G PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☒ No ☐ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP He CC EB 0149547 SUPPLIER OA PSIG START 400 PSIG STOP _____

Time	9.578% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
1206	5	0						2033			
|	5	1						0.018		S2184	
↓	5	2					NF / F			S2185	
1224	5	3	116	106	89	80	9800/9100	1631	4.1	S218	# 698
	5	4						0.000		Δt	1242-1249
1236	5	5									

COMMENTS:

NF F
FID Outside: ~~1~~ 50 / ~~70~~ 78
H_2S Outside: 2033 : 0.009
1631 : 0.000

Coordinates
11 S 348,546
3,810,739

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/21/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 76 L#1 DIRT

SURFACE DESCRIPTION GRAVEL ROAD

CURRENT ACTIVITY

INSTRUMENT TYPE _____ I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. E PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☒ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP+He CC EB 247252 SUPPLIER CA PSIG START 2000 PSIG STOP _____

Time	10.04% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
0723	5	0						2033			
	5	1						0.22		S301a	
↓	5	2					NF, F			S301b	
0741	5	3	50	49	50	51	1950/1750	1631	6.4	S301	# 529
	5	4						0.000		Amb 4	0902
0753	5	5									0758

COMMENTS:

FID Outside: NF/F 18/~~50~~ 66

H_2S Outside: 2033 : 0.29

1631 : 0.000

Coordinates

11 S 348,742

3,811,766

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/21/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 76 L # 2

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE _____ I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. B PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☒ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP+He CC 2370914 SUPPLIER OA PSIG START 2000 PSIG STOP _____

Time	9.978% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
0723	5	0						2033:			
↓	5	1						0.006		S302a	
↓	5	2					NF, F			S302b	
0741	5	3	51	51	51	51	-0.2/-0.2	1631	6.7	T302	# 638
	5	4						0.000		ΔES	0803
0753	5	5									0758

COMMENTS:

NF F
FID Outside: 2.1 / 3.2
H_2S Outside: 2033 : 0.002
1631 : 0.000

Coordinates
11 S 348,748
3,811,757

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/21/2552 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 76 L#3

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE _____ I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. G PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☒ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP He CC EB 0171252 SUPPLIER OA PSIG START 2000 PSIG STOP _____

Time	10.04% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
0723	5	0						2033:			
↓	5	1						0.12		S303a	
↓	5	2					NF, F			S303b	
0741	5	3	53	49	51	48	25/30	1631:	5.3	T303	# 552
	5	4						0.000		At	0805
0753	5	5									0810

COMMENTS:

NF / F

FID Outside: ~~2033~~ 43 / 41

H_2S Outside: 2033: 0.008

1631: 0.000

Coordinates

11 S 34 8, 733

3,81 1, 760

SITE DIAGRAM

REPEAT

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/21/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 76 LH4

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. F PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☒ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UAP+He CC EB 070914 SUPPLIER CA PSIG START 2000 PSIG STOP

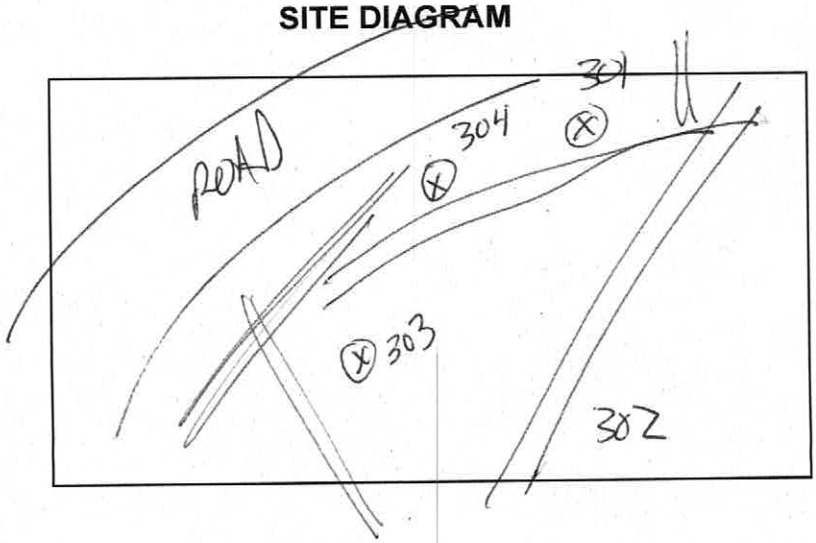
Time	Sweep Air (L/min) 9.970% He	Res. Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) FID No Filter/ Filter	H_2S	Ae	Sample Number	Comments
0723	5	0						2033			
↓	5	1						0.12		S304b	
↓	5	2	51	52	50	52	NF F			S304b	
0741	5	3					1.2 / ~~0.2~~	1631	5.7	T304	#857
	5	4					3.0	0.000		At	0804-0809
0753	5	5									
		1									

COMMENTS:

NF F
FID Outside: 3.2 / 4.3
H_2S Outside: 2033: 0.002
1631: 0.004

Coordinates
11 S 348,739
3,811,752

SITE DIAGRAM



SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/21/25 SAMPLERS CES TRL JDA RCW

LOCATION Chiquita Canyon Landfill CELL A 237 LM1 Dirt

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. G PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☒ Cloudy ☐ Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP He CC EB 070914 SUPPLIER CA PSIG START 1800 PSIG STOP

Time	9.978% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
0838	5	0						2033	0.010		
	5	1								S305a	
	5	2					NF F			S305b	
0856	5	3					1100 /	1631	3.3	T305	# 660
	5	4							0.000	Δt	0922
0908	5	5	83	81	84	67					0926

COMMENTS:

NF / F
FID Outside: 3.0 / 6.4
H_2S Outside: 2033 / 0.010
1631 0.005

Coordinates
11 S 348,541
3,810,890

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/21/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 237 L#2

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. F PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL V CONDENSATION: Yes ☒ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☒ Cloudy ☐ Wind at 5', SLIGHT mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP He CC EB 5170914 SUPPLIER OA PSIG START 1800 PSIG STOP

Time	9.978% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	Ae		
			Surf	Air	Surf	Air					
0838	5	0						2033			
↓	5	1						0.25		S306a	
↓	5	2					NF, F			S306b	
0856	5	3	82	74	66	62	5.5/4.6	1631	3.5	T306	#859
	5	4						0.000		At	0913
0908	5	5									0919

COMMENTS:

NF / F
FID Outside: 4.5 / 4.0
H_2S Outside: 2033 : 0.13
1631 : 0.000

MEDIA BLANK S310a-1046
S310b-1047
#177 / T310-1048

EB 5170914
9.978% He

Coordinates
11 S 348,540
3,810,878

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/21/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL #237 L#3

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. B PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☒ Cloudy ☐ Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☒ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP He CC EB 0171752 SUPPLIER OA PSIG START 1800 PSIG STOP

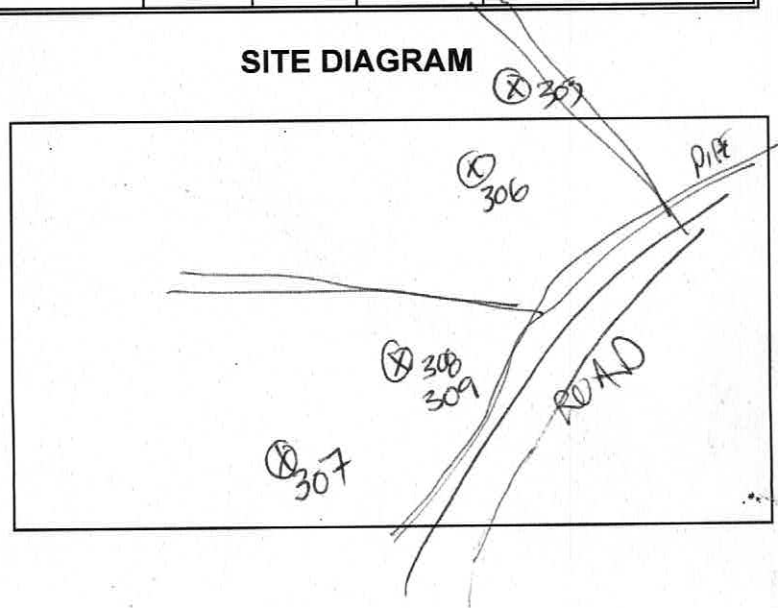
Time	10.04 He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S	He		
			Surf	Air	Surf	Air					
0838	5	0						2033			
1	5	1						0.16		5307a	
1	5	2					NF F			5307b	
0856	5	3	72	71	66	62	4.1 / 83.2	1631	3.2	T307	#636
1	5	4						0.000		At	0910-0918
0908	5	5									

COMMENTS:

	NF	F
FID Outside:	8	3.3
H_2S Outside:	2033	0.31
	1631	0.004

Coordinates
11 S 348,540
3,810,833

SITE DIAGRAM



SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/21/25 SAMPLERS CES TRC JDA RCW

LOCATION Chiquita Canyon Landfill CELL # 237 L#4

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE I.D. NO. TYPE ID NO.

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. E PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL V CONDENSATION: Yes ☒ (SLIGHT) No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☒ Cloudy ☐ Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UAP+He cc CB 0171252 SUPPLIER UA PSIG START 1800 PSIG STOP

Time	Sweep Air (L/min) (10.04% He)	Res. Number	Temperature (°F) Chamber Surf	Temperature (°F) Chamber Air	Temperature (°F) Ambient Surf	Temperature (°F) Ambient Air	Real-Time (ppmv) FID No Filter/ Filter	Real-Time (ppmv) H_2S	Real-Time (ppmv) He	Sample Number	Comments
0838	5	0						2033			
↓	5	1						0.014		S308a	
↓	5	2					NF F			S308b	
0856	5	3	87	76	68	64	240/220	1631	4.3	T308	#661
	5	4						0.000		Δt	0918-0924
0908	5	5								S309a	
										S309b	
										T309	#539
										Δt	0924-0929

COMMENTS:

FID Outside: NF 50 / F 32

H_2S Outside: 2033: 0.010
1631: 0.000

Coordinates
11 S 340,5+1
3,81_,___

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/21/25 SAMPLERS CES TDC JDA RCW

LOCATION ~~BIOFILTRO - Fanelli~~ CHIQUITA CANYON LANDFILL CELL# 174, L#1

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE _____ I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☑
AMBIENT CONCENTRATIONS

CHAMBER I.D. B PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☒ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☑ New ☐ Used ☐

SWEEP AIR UHP-He CC EB 8170914 SUPPLIER OA PSIG START 1600 PSIG STOP _____

Time	9.9787% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S ~~NH_3~~	He		
			Surf	Air	Surf	Air					
0956	5	0						2033			
	5	1						0.11		S311a	
↓	5	2					NF / F			S311b	
1014	5	3	104	99	85	75	28 / 35	1631	2.2	T311	# 605
	5	4						0.011		At4	1039
1026	5	5									1035

COMMENTS:

60 NF / F
FID OUT: ~~700~~ / 60
H_2S OUT: 2033: 0.011
1631: 0.000

Coord.
N S 34 8601
3,81 1189

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/21/25 SAMPLERS LES TRC JDA RCW

LOCATION ~~BIOFILTRO - Fanelli~~ CHIQUITA CANYON LANDFILL CELL #1/174L#2

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE _____ I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. F PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☒ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP+He cc 0170917 SUPPLIER OA PSIG START 1600 PSIG STOP _____

Time	Sweep Air (L/min) 9.978% He	Res. Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) FID No Filter/ Filter	H_2S ~~NH_3~~	He	Sample Number	Comments
0956	5	0						2033			
↓	5	1						1.3		5312a	
↓	5	2					NF / F			5312a	
1014	5	3	105	89	86	72	990/920	1631	3.6	T32	#990
	5	4						0.000		At 3	1033
1026	5	5									1030

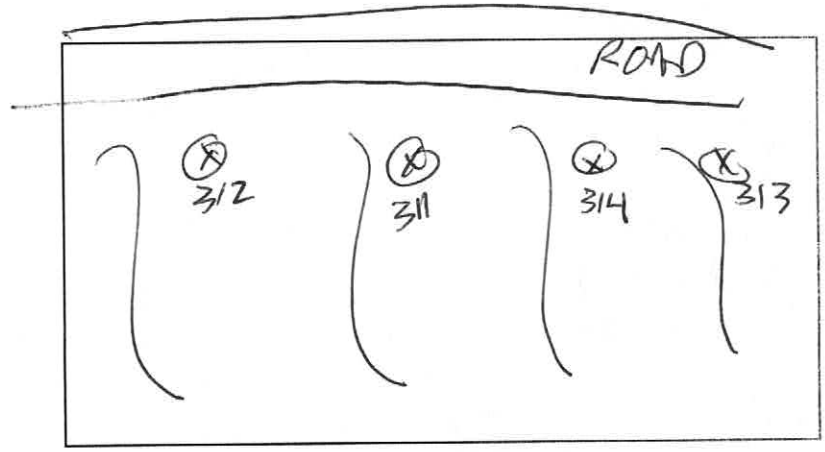
COMMENTS:

FID OUT: NF 15 / F 14
H_2S OUT: 2033: 0.012
1631: 0.000

REPEAT

LOGED
11s 34 8587
3,81 1186

SITE DIAGRAM



SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/21/25 SAMPLERS CES TRC JDA RCW

LOCATION ~~BIOFILTRO - Fanelli~~ CHIQUITA CANYON LANDFILL CELL #1/#3

SURFACE DESCRIPTION #197

CURRENT ACTIVITY

INSTRUMENT TYPE _____ I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. E PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☒ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP+He CC CES 0171252 SUPPLIER OA PSIG START 1600 PSIG STOP _____

Time	10.04% He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S ~~NH_3~~	He		
			Surf	Air	Surf	Air					
0956	5	0						2033			
↓	5	1						0.006		S313Q	
↓	5	2					NF / F			S313A	
1014	5	3	117	107	91	75	11 / 7	1631	1.4	T313	# 5419
	5	4						0.012		At	1031-1038
1026	5	5									

COMMENTS:

NF F
FID OUT: 6 / 5
H_2S OUT: 2033 : 0.004
1631 : 0.035

COORD
11s 34 8616
3,81 1197

SITE DIAGRAM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 3/21/25 SAMPLERS CES TRC JDA RCW

LOCATION ~~BIOFILTRO - Fanelli~~ CHIQUITA CANYON LANDFILL CELL #1~~7~~4 L#4 #97

SURFACE DESCRIPTION

CURRENT ACTIVITY

INSTRUMENT TYPE _____ I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. G PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☒ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP+He CC EIS 0171252 SUPPLIER OA PSIG START 1600 PSIG STOP _____

Time	10.04½ He Sweep Air (L/min)	Res. Number	Temperature (°F)				Real-Time (ppmv)			Sample Number	Comments
			Chamber		Ambient		FID No Filter/ Filter	H_2S ~~NH_3~~	He		
			Surf	Air	Surf	Air					
0956	5	0						2033:			
↓	5	1						0.011		5314	
↓	5	2					NF / F			5314	
1014	5	3	120	102	92	76	440/340	1631:	1.7	T314	#784
	5	4						0.002		At	1038-1042
1026	5	5									

COMMENTS:

NF / F
FID OUT: 12 / 9
H_2S OUT: 2033: 0.006
1631: 0.008

COOLD
11s 34 8606
3,81 1192

SITE DIAGRAM

CE Schmidt, Ph.D.
Environmental Consultant

ATTACHMENT B

CHAIN OF CUSTODY

19200 Live Oak Road Red Bluff, CA 96080 (530) 529-4256 Fax- 4878

CE Schmidt, PhD, Environmental Consultant 225100 **TO-15 Day 1**

Chain of Custody Record

Form Serial Number: CES F1-02106	For Information Regarding These Samples Please Contact:	Client Address and Phone Number: *3900 Kilroy Airport Way, Suite 100, Long Beach, CA 90806 562-743-7895*
Client Name: *SCS* / *Chiquita Canyon Landfill*	**Dr. Charles E. Schmidt**	Laboratory Name: *EAS* 17807
Project Manager: *Pat Sullivan*	19200 Live Oak Road, Red Bluff, CA 96080	Laboratory Address: *173 Cross Street, San Luis Obispo, CA 93401*
Requested Completion Date	530-529-4256 Cell: 530-200-2473	Laboratory Phone: *805-781-3585*
	E-Mail: SCHMIDTCE@aol.com	Laboratory Contact: *Dr. Steve Hoyt, stevehoyt@easlab.com*

Station Number	Date	Time	COMP	GRAB	Sample ID Number	Can ID Number	# OF CONTAINERS	Sample Container: Vial	Can	Tube	Analysis Requested: TO-12 FID (TNMHC)	TO-14 FID (See back)	TO-15 (List on back)	Fixed gases (List on back)		Can Pressure In (Inches Hg)	Can Pressure Out (Inches	Remarks
	3/19/2025	840		x	T - 101	168	1		x		x	x	x	x		-29	0	01
	3/19/2025	856		x	T - 102	615	1		x		x	x	x	x		-29	0	02
	3/19/2025	844		x	T - 103	831	1		x		x	x	x	x		-29	0	03
	3/19/2025	837		x	T - 104	860	1		x		x	x	x	x		-29	0	04
	3/19/2025	106		x	T - 105	625	1		x		x	x	x	x		-29	0	05
	3/19/2025	1022		x	T - 106	621	1		x		x	x	x	x		-29	0	06
	3/19/2025	1122		x	T - 107	644	1		x		x	x	x	x		-29	0	07
	3/19/2025	1080		x	T - 108	556	1		x		x	x	x	x		-29	0	08
	3/19/2025	1125		x	T - 109	654	1		x		x	x	x	x		-29	0	09
	3/19/2025	1132		x	T - 110	837	1		x		x	x	x	x		-29	0	10
	3/19/2025	1138		x	T - 111	604	1		x		x	x	x	x		-29	0	11
	3/19/2025	1131		x	T - 112	631	1		x		x	x	x	x		-29	0	12
	3/19/2025	1305		x	T - 113	690	1		x		x	x	x	x		-29	0	13
	3/19/2025	1311		x	T - 114	645	1		x		x	x	x	x		-29	0	14
	3/19/2025	1253		x	T - 115	654/654	1		x		x	x	x	x		-29	0	15
	3/19/2025	1303		x	T - 116	782	1		x		x	x	x	x		-29	0	16
	3/19/2025	1303		x	T - 117	643	1		x		x	x	x	x		-29	0	17
	3/19/2025	1315		x	T - 118	553	1		x		x	x	x	x		-29	0	18

Sampler: CESCHMIDT	Date/Time: 3/21/25 1130	Relinquished by: CESCHMIDT	Date/Time: 3/21/25 1130
Recieved by: CHS	Date/Time	Relinquished by	Date/Time
Recieved by	Date/Time	Relinquished by	Date/Time
Recieved by Laboratory: [illegible]	Date/Time: 3/21/2025 1430	Sample Shipped Via: UPS FEDEX BUS Other	
Remarks: 0	**Do Not Pressurize with Helium**		

HAZWRAP/NEESA Y N
QC Level 1 2 3
COC
Ana Req
Cust Seal
Sample Condition

File: Chiquita Cyn Forms TO-15.xlsb Form: COC TO-15 D1

0001178 of 0004929

CE Schmidt, PhD, Environmental Consultant — TO-15 Day 2

Chain of Custody Record — 22510D

Form Serial Number: CES F1-02106	For Information Regarding These Samples Please Contact:	# OF CONTAINERS	Client Address and Phone Number: *3900 Kilroy Airport Way, Suite 100, Long Beach, CA 90806 562-743-7895*
Client Name: *SCS* / *Chiquita Canyon Landfill*	**Dr. Charles E. Schmidt**		Analysis Requested
Project Manager: *Pat Sullivan*	19200 Live Oak Road, Red Bluff, CA 96080		Laboratory Name: *EAS* 17807
Requested Completion Date	530-529-4256 Cell: 530-200-2473		Laboratory Address: *173 Cross Street, San Luis Obispo, CA 93401*
	E-Mail: SCHMIDTCE@aol.com		Laboratory Phone: *805-781-3585*
			Laboratory Contact: *Dr. Steve Hoyt* *stevehoyt@easlab.com*

Station Number	Date	Time	COMP	GRAB	Sample ID Number	Can ID Number	Sample Container: Vial	Can	Tube	TO-12 FID (TNMHC)	TO-14 FID (See back)	TO-15 (List on back)	Fixed gases (List on back)		Can Pressure In (Inches Hg)	Can Pressure Out (Inches	Remarks
	3/20/2025	825		x	T - 201	726	1	x		x	x	x	x		-29	0	19
	3/20/2025	838		x	T - 202	883	1	x		x	x	x	x		-29	0	20
	3/20/2025	833		x	T - 203	858	1	x		x	x	x	x		-29	0	21
	3/20/2025	827		x	T - 204	768	1	x		x	x	x	x		-29	0	22
	3/20/2025	1000		x	T - 205	959	1	x		x	x	x	x		-29	0	23
	3/20/2025	955		x	T - 206	892	1	x		x	x	x	x		-29	0	24
	3/20/2025	1005		x	T - 207	627	1	x		x	x	x	x		-29	0	25
	3/20/2025	1000		x	T - 208	791	1	x		x	x	x	x		-29	0	26
	3/20/2025	1121		x	T - 209	728	1	x		x	x	x	x		-29	0	27
	3/20/2025	1121		x	T - 210	714	1	x		x	x	x	x		-29	0	28
	3/20/2025	1126		x	T - 211	629	1	x		x	x	x	x		-29	0	29
	3/20/2025	1130		x	T - 212	502	1	x		x	x	x	x		-29	0	30
	3/20/2025	1130		x	T - 213	712	1	x		x	x	x	x		-29	0	31
	3/20/2025	1257		x	T - 214	610	1	x		x	x	x	x		-29	0	32
	11	1244		x	T 215	751	1	x		x	x	x	x		-29	0	33
	11	1246		x	T 216	816	1	x		x	x	x	x		-29	0	34
	11	1248		x	T 217	858	1	x		x	x	x	x		-29	0	35
	11	1242		x	T 218	618	1	x		x	x	x	x		-29	0	36

Sampler: CE Schmidt	Date/Time: 3/21/25 1130	Relinquished by: CE Schmidt	Date/Time: 3/21/25 1130
Recieved by: CES	Date/Time	Relinquished by	Date/Time
Recieved by	Date/Time	Relinquished by	Date/Time
Recieved by Laboratory: [illegible]	Date/Time: 3/21/2025 1430	Sample Shipped Via: UPS FEDEX BUS Other	
Remarks	**Do Not Pressurize with Helium**		

HAZWRAP/NEESA Y N
QC Level 1 2 3
COC
Ana Req
Cust Seal
Sample Condition

File: Chiquita Cyn Forms TO-15.xlsb Form: COC TO-15 D2

0000179 of 0004929

CE Schmidt, PhD, Environmental Consultant 225100 **TO-15 Day 3**

Chain of Custody Record

Form Serial Number CES F1-02106	For Information Regarding These Samples Please Contact:	Client Address and Phone Number *3900 Kilroy Airport Way, Suite 100* *Long Beach, CA 90806 562-743-7895*
Client Name *SCS* *Chiquita Canyon Landfill*	**Dr. Charles E. Schmidt** 19200 Live Oak Road, Red Bluff, CA 96080 530-529-4256 Cell: 530-200-2473 E-Mail: SCHMIDTCE@aol.com	Laboratory Name *EAS* 17807
Project Manager *Pat Sullivan*		Laboratory Address *173 Cross Street* *San Luis Obispo, CA 93401*
Requested Completion Date		Laboratory Phone *805-781-3585*
		Laboratory Contact *Dr. Steve Hoyt* *stevehoyt@easlab.com*

Station Number	Date	Time	COMP	GRAB	Sample ID Number	Can ID Number	# OF CONTAINERS	Sample Container: Vial	Can	Tube	Analysis Requested: TO-12 FID (TNMHC)	TO-14 FID (See back)	TO-15 (List on back)	Fixed gases (List on back)		Can Pressure In (Inches Hg)	Can Pressure Out (Inches)	Remarks
	3/21/2025	753		x	T - 301	638	1		x		x	x	x	x		-29	0	37
	3/21/2025	804		x	T - 302	857	1		x		x	x	x	x		-29	0	38
	3/21/2025	805		x	T - 303	552	1		x		x	x	x	x		-29	0	39
	3/21/2025	758		x	T - 304	529	1		x		x	x	x	x		-29	0	40
	3/21/2025	912		x	T - 305	760	1		x		x	x	x	x		-28	0	41
	3/21/2025	913		x	T - 306	654	1		x		x	x	x	x		-29	0	42
	3/21/2025	910		x	T - 307	636	1		x		x	x	x	x		-29	0	43
	3/21/2025	918		x	T - 308	661	1		x		x	x	x	x		-29	0	44
	3/21/2025	924		x	T - 309	579	1		x		x	x	x	x		-29	0	45
	3/21/2025	1018		x	T - 310	771	1		x		x	x	x	x		-29	0	46
	3/21/2025	1035		x	T - 311	605	1		x		x	x	x	x		-29	0	47
	3/21/2025	1030		x	T - 312	990	1		x		x	x	x	x		-29	0	48
	3/21/2025	1031		x	T - 313	549	1		x		x	x	x	x		-29	0	49
	3/21/2025	1038		x	T - 314	784	1		x		x	x	x	x		-29	0	50

Sampler: CE Schmidt	Date/Time: 3/21/25 1130	Relinquished by: CE Schmidt	Date/Time: 3/21/25 1130
Recieved by: EHS	Date/Time	Relinquished by	Date/Time
Recieved by	Date/Time	Relinquished by	Date/Time
Recieved by Laboratory: BH	Date/Time: 3/21/2025 1430	Sample Shipped Via: UPS FEDEX BUS Other	
Remarks	**Do Not Pressurize with Helium**		

HAZWRAP/NEESA Y N
QC Level 1 2 3
COC
Ana Req
Cust Seal
Sample Condition

File: Chiquita Cyn Forms TO-15.xlsb Form: COC TO-15 D3

000180 of 004929

250692

CE Schmidt, PhD, Environmental Consultant
Chain of Custody Record

Sulfur D1

| | | |

250702

CE Schmidt, PhD, Environmental Consultant
Chain of Custody Record

Sulfur D2

Form Serial Number **CES F1-02106**	For Information Regarding These Samples Please Contact: **Dr. Charles E. Schmidt** 19200 Live Oak Road, Red Bluff, CA 96080 530-529-4256 Cell: 530-200-2473 SCHMIDTCE@aol.com	Client Address and Phone Number ***3900 Kilroy Airport Way, Suite 100*** ***Long Beach, CA 90806 562-743-7895***
Client Name ***SCS*** ***Chiquita Canyon Landfill***		Laboratory Name ***Atmospheric Analysis and Consulting***
Project Manager ***Pat Sullivan***		Laboratory Address ***2225 Sperry Avenue*** ***Ventura, CA 93003***
Requested Completion Date		Laboratory Phone ***805-650-1642***
		Laboratory Contact ***John Yokoyama*** jyokoyama@aaclab.com

Station Number	Date	Time	COMP	GRAB	Sample ID Number	# OF CONTAINERS	Sample Container: Bag	Can	Tube	SCAQMD Method 307-91	Analysis Requested	Field H2S (ppmv)	Remarks
	3/20/2025	821		x	S- 201 a/b 72989 72990	2	X			X		72989 72990	720 72967
	3/20/2025	837		x	S- 202 a/b 72991 72992	2	X			X		72968	72969
	3/20/2025	850		x	S- 203 a/b 72993 72994	2	X			X		72970	72971
	3/20/2025	871		x	S- 204 a/b 72995 72996	2	X			X		72972	72973
	3/20/2025	959		x	S- 205 a/b 72997 72998 M	2	X			X		72974	72975
	3/20/2025	953		x	S- 206 a/b 72999 73000	2	X			X		72976	72977
	3/20/2025	1000		x	S- 207 a/b 73001 73002	2	X			X		72978	72979
	3/20/2025	1005		x	S- 208 a/b	2	X			X		72980	72981
	3/20/2025	1120		x	S- 209 a/b	2	X			X		72982	72983
	3/20/2025	1120		x	S- 210 a/b	2	X			X		72984	72985
	3/20/2025	1125		x	S- 211 a/b	2	X			X		72986	72987
	3/20/2025	1128		x	S- 212 a/b	2	X			X		72988	72989
	3/20/2025	1123		x	S- 213 a/b	2	X			X		72990	72991
	3/20/2025	300		x	S- 214 a/b	2	X			X		72992	72993
	"	1241		x	S 215 "	x	x			x		72994	72995
	"	1247		x	S 216 "	x	x			x		72996	72997
	"	1247		x	S 217 "	x	x			x		72998	72999
	"	1241		x	S 218 "	x	x			x		73000	73001

Sampler CE SCHMIDT	Date/Time 3/20/25 1320	Relinquished by CE SCHMIDT	Date/Time 3/20/25 1320	HAZWRAP/NEESA Y N QC Level 1 2 3	
Recieved by AAC	Date/Time 3/20/25 1425	Relinquished by	Date/Time	COC	Ice
Recieved by	Date/Time	Relinquished by SOB 1445/25	Date/Time 3/21/25 1345	Ana Req	Temp ***AMB***
Recieved by Laboratory	Date/Time 3/20/25 1538	Sample Shipped Via UPS FEDEX BUS Hand Other	Air Bill No.	Cust Seal	pH
Remarks				Sample Condition	

File: Sulfur Forms.xlsb Form: Sulfur COC D2

250721

CE Schmidt, PhD, Environmental Consultant — **Sulfur D3**

Chain of Custody Record

Form Serial Number	For Information Regarding These Samples Please Contact:	# OF CONTAINERS	Client Address and Phone Number	Laboratory Name
CES F1-02106			***3900 Kilroy Airport Way, Suite 100***	***Atmospheric Analysis and Consulting***
Client Name	**Dr. Charles E. Schmidt**		***Long Beach, CA 90806 562-743-7895***	Laboratory Address
SCS	19200 Live Oak Road, Red Bluff, CA 96080		Analysis Requested	***2225 Sperry Avenue***
Chiquita Canyon Landfill	530-529-4256 Cell: 530-200-2473			***Ventura, CA 93003***
Project Manager	SCHMIDTCE@aol.com			Laboratory Phone
Pat Sullivan				***805-650-1642***
Requested Completion Date				Laboratory Contact
				John Yokoyama
				jyokoyama@aaclab.com

Station Number	Date	Time	COMP	GRAB	Sample ID Number	# OF CONTAINERS	Sample Container: Bag	Can	Tube	SCAQMD Method 307-91	Field H2S (ppmv)	Remarks
	3/21/2025	1158		x	S- 301 a/b	2	X			X	73070	73071
	3/21/2025	1203		x	S- 302 a/b	2	X			X	73072	73073
	3/21/2025	802		x	S- 303 a/b	2	X			X	73074	73075
	3/21/2025	755		x	S- 304 a/b	2	X			X	73076	73077
	3/21/2025	921		x	S- 305 a/b	2	X			X	73078	73079
	3/21/2025	911		x	S- 306 a/b	2	X			X	73080	73081
	3/21/2025	909		x	S- 307 a/b	2	X			X	73082	73083
	3/21/2025	916		x	S- 308 a/b	2	X			X	73084	73085
	3/21/2025	917		x	S- 309 a/b	2	X			X	73086	73087
	3/21/2025	1029		x	S- 310 a/b	2	X			X	73088	73089
	3/21/2025	1029		x	S- 311 a/b	2	X			X	73090	73091
	3/21/2025	1030		x	S- 312 a/b	2	X			X	73092	73093
	3/21/2025	1030		x	S- 313 a/b	2	X			X	73094	73095
	3/21/2025	1031		x	S- 314 a/b	2	X			X	73096	73097

Sampler	Date/Time	Relinquished by	Date/Time	HAZWRAP/NEESA Y N
C Schmidt	3/21/25 1130	C Schmidt	3/21/25 0730	QC Level 1 2 3
Recieved by	Date/Time	Relinquished by	Date/Time	COC / Ice
ATC				Ana Req / Temp ***AMB***
Recieved by	Date/Time	Relinquished by	Date/Time	Cust Seal / pH
2nd	3/21/25 1211			Sample Condition
Recieved by Laboratory	Date/Time	Sample Shipped Via: UPS FEDEX BUS Hand Other	Air Bill No.	
Remarks				

File: Sulfur Forms.xlsb Form: Sulfur COC D3

CE Schmidt, Ph.D.
Environmental Consultant
Confidential Attorney Client Privileged Communication and Attorney Work Product

ATTACHMENT C

LABORATORY REPORTS

19200 Live Oak Road Red Bluff, CA 96080 (530) 529-4256 Fax- 4878

ENVIRONMENTAL
Analytical Service, Inc.

Data Deliverable Package

Prepared For:
C.E. Schmidt
19200 Live Oak Road
Red Bluff CA 96080

EAS SDG Number: **225100**
Project Number: 17807
Report Sent: 4/11/2025
Sample Event Date:),3/20,3/21/2025

Client Project Manager: Chuck Schmidt
Project Name: Chiquita Canyon
Project Number: Data Package GC TO-15

This is the Laboratory Data Deliverable Package for the samples in the indicated Sample Delivery Group (SDG).

INDEX TO DATA PACKAGE:

Section 1 **Project Summary**
- Laboratory Work Order
- Sample Data
- Laboratory Case Narrative and Chain of Custody

Section 2 **Quality Control**
- Project QC Criteria
- DAB QC Reports

Section 3 **Analytical Methods**
- Analytical Method Description(s)
- Analytical Reports

Section 4 **Data Package with Quant Report and Chromatogram**
- DAB Run Logs and Preparation Log
- Sample Data Package
- Blank Data Package
- Continuing Calibration Package
- Initial Calibration Package

Section 5 **Standard Certificates**

Section 6 **SDG Documentation, Notes, Correspondence**

173 Cross Street, San Luis Obispo, California, 93401 (805) 781-3585

Section 1 Project Summary

The following pages provide detailed information about the sample receipt, log-in, and sample preparation. The Laboratory Work Order provides a cross reference between the Client ID number and the EAS Lab Number as well as a list of the analytical tests preformed. The items included in this section are listed below.

Section Contents

Laboratory Work Order

Sample Data

Laboratory Case Narrative

Chain of Custody

Laboratory Work Order

SDG Number: 225100
Client: Chuck Schmidt
C.E. Schmidt

Project Number: 17807
Received: 3/21/2025

SAMPLE DESCRIPTION AND ANALYSIS REQUESTED

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-101	225100 1	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-101	225100 1	ASTM D3416 Low Level Methane	3/19/2025
T-101	225100 1	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-101	225100 1	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-101	225100 1	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-102	225100 2	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-102	225100 2	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-102	225100 2	ASTM D3416 Low Level Methane	3/19/2025
T-102	225100 2	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-102	225100 2	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-103	225100 3	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-103	225100 3	ASTM D3416 Low Level Methane	3/19/2025
T-103	225100 3	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-103	225100 3	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-103	225100 3	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-104	225100 4	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-104	225100 4	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-104	225100 4	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-104	225100 4	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-104	225100 4	ASTM D3416 Low Level Methane	3/19/2025
T-105	225100 5	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-105	225100 5	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-105	225100 5	ASTM D3416 Low Level Methane	3/19/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-105	225100 5	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-105	225100 5	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-106	225100 6	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-106	225100 6	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-106	225100 6	ASTM D3416 Low Level Methane	3/19/2025
T-106	225100 6	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-106	225100 6	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-107	225100 7	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-107	225100 7	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-107	225100 7	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-107	225100 7	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-107	225100 7	ASTM D3416 Low Level Methane	3/19/2025
T-108	225100 8	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-108	225100 8	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-108	225100 8	ASTM D3416 Low Level Methane	3/19/2025
T-108	225100 8	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-108	225100 8	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-109	225100 9	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-109	225100 9	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-109	225100 9	ASTM D3416 Low Level Methane	3/19/2025
T-109	225100 9	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-110	225100 9	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-110	225100 10	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-110	225100 10	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-110	225100 10	ASTM D3416 Low Level Methane	3/19/2025
T-110	225100 10	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-110	225100 10	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-111	225100 11	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-111	225100 11	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-111	225100 11	ASTM D3416 Low Level Methane	3/19/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-111	225100 11	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-111	225100 11	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-112	225100 12	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-112	225100 12	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-112	225100 12	ASTM D3416 Low Level Methane	3/19/2025
T-112	225100 12	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-112	225100 12	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-113	225100 13	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-113	225100 13	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-113	225100 13	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-113	225100 13	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-113	225100 13	ASTM D3416 Low Level Methane	3/19/2025
T-114	225100 14	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-114	225100 14	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-114	225100 14	ASTM D3416 Low Level Methane	3/19/2025
T-114	225100 14	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-114	225100 14	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-115	225100 15	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-115	225100 15	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-115	225100 15	ASTM D3416 Low Level Methane	3/19/2025
T-115	225100 15	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-115	225100 15	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-116	225100 16	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-116	225100 16	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-116	225100 16	ASTM D3416 Low Level Methane	3/19/2025
T-116	225100 16	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-116	225100 16	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-117	225100 17	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-117	225100 17	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-117	225100 17	ASTM D3416 Low Level Methane	3/19/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-117	225100 17	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-117	225100 17	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-118	225100 18	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-118	225100 18	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-118	225100 18	ASTM D3416 Low Level Methane	3/19/2025
T-118	225100 18	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-118	225100 18	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-201	225100 19	ASTM D3416 Low Level Methane	3/20/2025
T-201	225100 19	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-201	225100 19	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-201	225100 19	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-201	225100 19	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-202	225100 20	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-202	225100 20	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-202	225100 20	ASTM D3416 Low Level Methane	3/20/2025
T-202	225100 20	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-202	225100 20	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-203	225100 21	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-203	225100 21	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-203	225100 21	ASTM D3416 Low Level Methane	3/20/2025
T-203	225100 21	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-203	225100 21	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-204	225100 22	ASTM D3416 Low Level Methane	3/20/2025
T-204	225100 22	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-204	225100 22	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-204	225100 22	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-204	225100 22	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-205	225100 23	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-205	225100 23	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-205	225100 23	ASTM D3416 Low Level Methane	3/20/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-205	225100 23	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-205	225100 23	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-206	225100 24	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-206	225100 24	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-206	225100 24	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-206	225100 24	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-206	225100 24	ASTM D3416 Low Level Methane	3/20/2025
T-207	225100 25	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-207	225100 25	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-207	225100 25	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-207	225100 25	ASTM D3416 Low Level Methane	3/20/2025
T-207	225100 25	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-208	225100 26	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-208	225100 26	ASTM D3416 Low Level Methane	3/20/2025
T-208	225100 26	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-208	225100 26	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-208	225100 26	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-209	225100 27	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-209	225100 27	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-209	225100 27	ASTM D3416 Low Level Methane	3/20/2025
T-209	225100 27	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-209	225100 27	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-210	225100 28	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-210	225100 28	ASTM D3416 Low Level Methane	3/20/2025
T-210	225100 28	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-210	225100 28	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-210	225100 28	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-211	225100 29	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-211	225100 29	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-211	225100 29	EPA TO-12 C2 to C12 CRYO	3/20/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-211	225100 29	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-211	225100 29	ASTM D3416 Low Level Methane	3/20/2025
T-212	225100 30	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-212	225100 30	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-212	225100 30	ASTM D3416 Low Level Methane	3/20/2025
T-212	225100 30	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-212	225100 30	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-213	225100 31	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-213	225100 31	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-213	225100 31	ASTM D3416 Low Level Methane	3/20/2025
T-213	225100 31	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-213	225100 31	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-214	225100 32	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-214	225100 32	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-214	225100 32	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-214	225100 32	ASTM D3416 Low Level Methane	3/20/2025
T-214	225100 32	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-215	225100 33	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-215	225100 33	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-215	225100 33	ASTM D3416 Low Level Methane	3/20/2025
T-215	225100 33	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-215	225100 33	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-216	225100 34	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-216	225100 34	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-216	225100 34	ASTM D3416 Low Level Methane	3/20/2025
T-216	225100 34	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-216	225100 34	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-217	225100 35	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-217	225100 35	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-217	225100 35	ASTM D3416 Low Level Methane	3/20/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-217	225100 35	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-217	225100 35	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-218	225100 36	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-218	225100 36	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-218	225100 36	ASTM D3416 Low Level Methane	3/20/2025
T-218	225100 36	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-218	225100 36	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-301	225100 37	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-301	225100 37	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-301	225100 37	ASTM D3416 Low Level Methane	3/21/2025
T-301	225100 37	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-301	225100 37	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-302	225100 38	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-302	225100 38	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-302	225100 38	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-302	225100 38	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-302	225100 38	ASTM D3416 Low Level Methane	3/21/2025
T-303	225100 39	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-303	225100 39	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-303	225100 39	ASTM D3416 Low Level Methane	3/21/2025
T-303	225100 39	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-303	225100 39	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-304	225100 40	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-304	225100 40	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-304	225100 40	ASTM D3416 Low Level Methane	3/21/2025
T-304	225100 40	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-304	225100 40	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-305	225100 41	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-305	225100 41	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-305	225100 41	ASTM D3416 Low Level Methane	3/21/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-305	225100 41	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-305	225100 41	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-306	225100 42	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-306	225100 42	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-306	225100 42	ASTM D3416 Low Level Methane	3/21/2025
T-306	225100 42	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-306	225100 42	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-307	225100 43	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-307	225100 43	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-307	225100 43	ASTM D3416 Low Level Methane	3/21/2025
T-307	225100 43	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-307	225100 43	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-308	225100 44	ASTM D3416 Low Level Methane	3/21/2025
T-308	225100 44	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-308	225100 44	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-308	225100 44	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-308	225100 44	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-309	225100 45	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-309	225100 45	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-309	225100 45	ASTM D3416 Low Level Methane	3/21/2025
T-309	225100 45	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-309	225100 45	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-310	225100 46	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-310	225100 46	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-310	225100 46	ASTM D3416 Low Level Methane	3/21/2025
T-310	225100 46	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-310	225100 46	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-311	225100 47	ASTM D3416 Low Level Methane	3/21/2025
T-311	225100 47	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-311	225100 47	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-311	225100 47	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-311	225100 47	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-312	225100 48	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-312	225100 48	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-312	225100 48	ASTM D3416 Low Level Methane	3/21/2025
T-312	225100 48	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-312	225100 48	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-313	225100 49	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-313	225100 49	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-313	225100 49	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-313	225100 49	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-313	225100 49	ASTM D3416 Low Level Methane	3/21/2025
T-314	225100 50	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-314	225100 50	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-314	225100 50	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-314	225100 50	ASTM D3416 Low Level Methane	3/21/2025
T-314	225100 50	EPA TO-12 C2 to C12 CRYO	3/21/2025

Project Sample Media

SDG Number: 225100

The following sample media was used for this Sample Delivery Group (SDG). The Sample Media column identifies the type of media. For canisters, the Sample Media Batch gives the canister number followed by the cleaning batch number, which is a unique identification. The initial pressure of the canister when it is received is recorded. If the canister is not pressurized, the final pressure will be the same as the initial pressure. If the canister is pessurized the final pressure will be recorded, and the canister dilution factor is calculated as the ratio of the final to initial pressure. The results are adjusted for the can dilution factor.

SDG	Lab ID	Client Sample No.	Sample Media	Batch	Pressure, torr Initial	Final	Can Factor
225100	1	T-101	668		723	871	1.20
225100	2	T-102	895		734	913	1.24
225100	3	T-103	881		728	870	1.20
225100	4	T-104	860		723	947	1.31
225100	5	T-105	685		719	882	1.23
225100	6	T-106	621		718	880	1.23
225100	7	T-107	644		720	888	1.23
225100	8	T-108	556		702	886	1.26
225100	9	T-109	694		713	926	1.30
225100	10	T-110	857		707	901	1.27
225100	11	T-111	504		697	871	1.25
225100	12	T-112	631		714	882	1.24
225100	13	T-113	690		705	870	1.23
225100	14	T-114	645		701	888	1.27
225100	15	T-115	654		696	881	1.27
225100	16	T-116	782		706	881	1.25
225100	17	T-117	643		709	883	1.25
225100	18	T-118	553		783	891	1.14
225100	19	T-201	726		738	895	1.21
225100	20	T-202	883		739	873	1.18
225100	21	T-203	858		735	879	1.20
225100	22	T-204	758		743	874	1.18
225100	23	T-205	659		708	897	1.27
225100	24	T-206	882		710	883	1.24
225100	25	T-207	627		692	904	1.31

SDG	Lab ID	Client Sample No.	Sample Media	Batch	Pressure, torr Initial	Final	Can Factor
225100	26	T-208	791		709	890	1.26
225100	27	T-209	778		682	887	1.30
225100	28	T-210	714		695	882	1.27
225100	29	T-211	629		685	881	1.29
225100	30	T-212	502		687	930	1.35
225100	31	T-213	712		678	905	1.33
225100	32	T-214	610		786	875	1.11
225100	33	T-215	751		677	874	1.29
225100	34	T-216	896		632	874	1.38
225100	35	T-217	634		693	881	1.27
225100	36	T-218	698		692	877	1.27
225100	37	T-301	638		738	879	1.19
225100	38	T-302	857		734	872	1.19
225100	39	T-303	552		727	877	1.21
225100	40	T-304	529		731	878	1.20
225100	41	T-305	660		709	871	1.23
225100	42	T-306	859		722	874	1.21
225100	43	T-307	636		720	878	1.22
225100	44	T-308	661		717	875	1.22
225100	45	T-309	579		726	877	1.21
225100	46	T-310	771		679	874	1.29
225100	47	T-311	605		680	873	1.28
225100	48	T-312	990		689	913	1.33
225100	49	T-313	549		695	872	1.25
225100	50	T-314	784		701	876	1.25

Laboratory Case Narrative

EAS SDG Number: 225100 **Project Number:** 17807

Client: C.E. Schmidt

The Laboratory Case Narrative for the SDG is below. The Chain of Custody form(s) follow the Laboratory Case Narrative.

Sample Control Narrative

The samples were all received in good condition and with proper preservation.

Analytical Methods

The methods used for sample analysis are listed on the Analytyical Report header, and have been modified as described in the EAS Quality Manual..

Case Narrative

QC Narrative

All analyses met EAS method criteria as defined in the Quality Manual, except as noted in the report or QC reports with data qualifiers.

Subcontract Narrative

No sample analysis was subcontracted for this project

Laboratory Certification

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness other than the condition(s) noted above. The Laboratory Report is property of EAS and its client. The entire report has been reviewed and approved.

Date Approved: 4/15/2025

Steven D. Hoyt, Ph.D.
Environmental Analytical Service
Laboratory Director

000199 of 004929

CE Schmidt, PhD, Environmental Consultant

Chain of Custody Record

225100

TO-15 Day 1

Form Serial Number: CES F1-02106	For Information Regarding These Samples Please Contact:	Client Address and Phone Number: *3900 Kilroy Airport Way, Suite 100, Long Beach, CA 90806 562-743-7895*
Client Name: *SCS Chiquita Canyon Landfill*	**Dr. Charles E. Schmidt**	Laboratory Name: *EAS* 17807
Project Manager: *Pat Sullivan*	19200 Live Oak Road, Red Bluff, CA 96080	Laboratory Address: *173 Cross Street, San Luis Obispo, CA 93401*
Requested Completion Date	530-529-4256 Cell: 530-200-2473	Laboratory Phone: *805-781-3585*
	E-Mail: SCHMIDTCE@aol.com	Laboratory Contact: *Dr. Steve Hoyt, stevehoyt@easlab.com*

Station Number	Date	Time	COMP	GRAB	Sample ID Number	Can ID Number	# OF CONTAINERS	Sample Container: Vial	Can	Tube	Analysis Requested: TO-12 FID (TNMHC)	TO-14 FID (See back)	TO-15 (List on back)	Fixed gases (List on back)		Can Pressure In (Inches Hg)	Can Pressure Out (Inches	Remarks
	3/19/2025	840		x	T - 101	168	1		x		x	x	x	x		-29	0	01
	3/19/2025	856		x	T - 102	615	1		x		x	x	x	x		-29	0	02
	3/19/2025	914		x	T - 103	831	1		x		x	x	x	x		-29	0	03
	3/19/2025	937		x	T - 104	860	1		x		x	x	x	x		-29	0	04
	3/19/2025	1006		x	T - 105	625	1		x		x	x	x	x		-29	0	05
	3/19/2025	1022		x	T - 106	621	1		x		x	x	x	x		-29	0	06
	3/19/2025	1122		x	T - 107	644	1		x		x	x	x	x		-29	0	07
	3/19/2025	1080		x	T - 108	556	1		x		x	x	x	x		-29	0	08
	3/19/2025	1125		x	T - 109	654	1		x		x	x	x	x		-29	0	09
	3/19/2025	1132		x	T - 110	837	1		x		x	x	x	x		-29	0	10
	3/19/2025	1138		x	T - 111	604	1		x		x	x	x	x		-29	0	11
	3/19/2025	1131		x	T - 112	631	1		x		x	x	x	x		-29	0	12
	3/19/2025	1305		x	T - 113	690	1		x		x	x	x	x		-29	0	13
	3/19/2025	1311		x	T - 114	645	1		x		x	x	x	x		-29	0	14
	3/19/2025	1253		x	T - 115	654/654	1		x		x	x	x	x		-29	0	15
	3/19/2025	1303		x	T - 116	782	1		x		x	x	x	x		-29	0	16
	3/19/2025	1303		x	T - 117	643	1		x		x	x	x	x		-29	0	17
	3/19/2025	1325		x	T - 118	553	1		x		x	x	x	x		-29	0	18

Sampler: CESCHMIDT	Date/Time: 3/21/25 1130	Relinquished by: CESCHMIDT	Date/Time: 3/21/25 1130
Recieved by: CES	Date/Time	Relinquished by	Date/Time
Recieved by	Date/Time	Relinquished by	Date/Time
Recieved by Laboratory	Date/Time: 3/21/2025 1430	Sample Shipped Via: UPS FEDEX BUS Other	
Remarks	**Do Not Pressurize with Helium**		

HAZWRAP/NEESA Y N
QC Level 1 2 3
COC
Ana Req
Cust Seal
Sample Condition

File: Chiquita Cyn Forms TO-15.xlsb Form: COC TO-15 D1

CE Schmidt, PhD, Environmental Consultant

Chain of Custody Record

22510D

TO-15 Day 2

Form Serial Number: CES F1-02106	For Information Regarding These Samples Please Contact:
Client Name: *SCS* / *Chiquita Canyon Landfill*	**Dr. Charles E. Schmidt**
Project Manager: *Pat Sullivan*	19200 Live Oak Road, Red Bluff, CA 96080
Requested Completion Date	530-529-4256 Cell: 530-200-2473
	E-Mail: SCHMIDTCE@aol.com

Client Address and Phone Number: ***3900 Kilroy Airport Way, Suite 100*** / ***Long Beach, CA 90806 562-743-7895***

Laboratory Name: *EAS* 17807

Laboratory Address: ***173 Cross Street*** / ***San Luis Obispo, CA 93401***

Laboratory Phone: ***805-781-3585***

Laboratory Contact: ***Dr. Steve Hoyt*** / *stevehoyt@easlab.com*

Station Number	Date	Time	COMP	GRAB	Sample ID Number	Can ID Number	# OF CONTAINERS	Sample Container: Vial	Can	Tube	Analysis Requested: TO-12 FID (TNMHC)	TO-14 FID (See back)	TO-15 (List on back)	Fixed gases (List on back)		Can Pressure In (Inches Hg)	Can Pressure Out (Inches	Remarks
	3/20/2025	825		x	T - 201	726	1		x		x	x	x	x		-29	0	19
	3/20/2025	838		x	T - 202	883	1		x		x	x	x	x		-29	0	20
	3/20/2025	833		x	T - 203	858	1		x		x	x	x	x		-29	0	21
	3/20/2025	827		x	T - 204	768	1		x		x	x	x	x		-29	0	22
	3/20/2025	1000		x	T - 205	959	1		x		x	x	x	x		-29	0	23
	3/20/2025	955		x	T - 206	892	1		x		x	x	x	x		-29	0	24
	3/20/2025	1005		x	T - 207	627	1		x		x	x	x	x		-29	0	25
	3/20/2025	1000		x	T - 208	791	1		x		x	x	x	x		-29	0	26
	3/20/2025	1121		x	T - 209	728	1		x		x	x	x	x		-29	0	27
	3/20/2025	1121		x	T - 210	714	1		x		x	x	x	x		-29	0	28
	3/20/2025	1126		x	T - 211	629	1		x		x	x	x	x		-29	0	29
	3/20/2025	1130		x	T - 212	502	1		x		x	x	x	x		-29	0	30
	3/20/2025	1130		x	T - 213	712	1		x		x	x	x	x		-29	0	31
	3/20/2025	1257		x	T - 214	610	1		x		x	x	x	x		-29	0	32
	11	1244		x	T 215	751	1		x		x	x	x	x		-29	0	33
	11	1246		x	T 216	576	1		x		x	x	x	x		-29	0	34
	11	1248		x	T 217	654	1		x		x	x	x	x		-29	0	35
	11	1242		x	T 218	678	1		x		x	x	x	x		-29	0	36

Sampler: CE Schmidt	Date/Time: 3/21/25 1130	Relinquished by: CE Schmidt	Date/Time: 3/21/25 1130
Recieved by: CES	Date/Time	Relinquished by	Date/Time
Recieved by	Date/Time	Relinquished by	Date/Time
Recieved by Laboratory: [illegible]	Date/Time: 3/21/2025 1430	Sample Shipped Via: UPS FEDEX BUS Other	
Remarks	**Do Not Pressurize with Helium**		

HAZWRAP/NEESA Y N

QC Level 1 2 3

COC

Ana Req

Cust Seal

Sample Condition

File: Chiquita Cyn Forms TO-15.xlsb Form: COC TO-15 D2

000201 of 004929

CE Schmidt, PhD, Environmental Consultant

Chain of Custody Record

225100

TO-15 Day 3

Form Serial Number: CES F1-02106	For Information Regarding These Samples Please Contact:
Client Name: *SCS* / *Chiquita Canyon Landfill*	**Dr. Charles E. Schmidt**
Project Manager: *Pat Sullivan*	19200 Live Oak Road, Red Bluff, CA 96080
Requested Completion Date	530-529-4256 Cell: 530-200-2473
	E-Mail: SCHMIDTCE@aol.com

Client Address and Phone Number: ***3900 Kilroy Airport Way, Suite 100, Long Beach, CA 90806 562-743-7895***

Laboratory Name: *EAS* 17807

Laboratory Address: ***173 Cross Street, San Luis Obispo, CA 93401***

Laboratory Phone: ***805-781-3585***

Laboratory Contact: ***Dr. Steve Hoyt*** *stevehoyt@easlab.com*

Station Number	Date	Time	COMP	GRAB	Sample ID Number	Can ID Number	# OF CONTAINERS	Sample Container: Vial	Can	Tube	Analysis Requested: TO-12 FID (TNMHC)	TO-14 FID (See back)	TO-15 (List on back)	Fixed gases (List on back)		Can Pressure In (Inches Hg)	Can Pressure Out (Inches)	Remarks
	3/21/2025	953		x	T - 301	638	1		x		x	x	x	x		-29	0	37
	3/21/2025	804		x	T - 302	857	1		x		x	x	x	x		-29	0	38
	3/21/2025	805		x	T - 303	552	1		x		x	x	x	x		-29	0	39
	3/21/2025	758		x	T - 304	529	1		x		x	x	x	x		-29	0	40
	3/21/2025	922		x	T - 305	760	1		x		x	x	x	x		-28	0	41
	3/21/2025	913		x	T - 306	854	1		x		x	x	x	x		-29	0	42
	3/21/2025	910		x	T - 307	636	1		x		x	x	x	x		-29	0	43
	3/21/2025	918		x	T - 308	641	1		x		x	x	x	x		-29	0	44
	3/21/2025	924		x	T - 309	579	1		x		x	x	x	x		-29	0	45
	3/21/2025	1018		x	T - 310	711	1		x		x	x	x	x		-29	0	46
	3/21/2025	1035		x	T - 311	605	1		x		x	x	x	x		-29	0	47
	3/21/2025	1030		x	T - 312	990	1		x		x	x	x	x		-29	0	48
	3/21/2025	1031		x	T - 313	549	1		x		x	x	x	x		-29	0	49
	3/21/2025	1038		x	T - 314	784	1		x		x	x	x	x		-29	0	50

Sampler: CE Schmidt	Date/Time: 3/21/25 1130	Relinquished by: CE Schmidt	Date/Time: 3/21/25 1130
Recieved by: EHS	Date/Time	Relinquished by	Date/Time
Recieved by	Date/Time	Relinquished by	Date/Time
Recieved by Laboratory: BH	Date/Time: 3/21/2025 1430	Sample Shipped Via: UPS FEDEX BUS Other	
Remarks	**Do Not Pressurize with Helium**		

HAZWRAP/NEESA Y N

QC Level 1 2 3

COC

Ana Req

Cust Seal

Sample Condition

File: Chiquita Cyn Forms TO-15.xlsb Form: COC TO-15 D3

Section 2 Quality Control

This section contains the QC Reports for each Daily Analytical Batch (DAB) which make up the Sample Delivery Group (SDG). It also contains either the EAS or Project QC criteria that was used for the DAB. The methods used for this project have been modified from the original method. The modifications include modifications to the QC for the method. This is either because the method did not specify certain aspects of the QC, the method was originally designed for a different matrix, or additional compounds were added to the target list of the method which required modified QC. The QC modifications used by EAS follows those used by other air testing laboratories.

The Daily Analytical Batch data was checked against the QC criteria for the method. Any deviations from the QC criteria are listed on the QC Reports for each DAB, which are summarized in this section and are given in more detail in Section 4 which has the Quantitation Reports and Calculations for the Samples, Method Blank, Lab Control Spikes, as well as the Initial Calibration and Continuing Calibration. This section contains the following:

Section Contents

Project QC Critera

DAB Quality Control Reports

- Method Blank
- Laboratory Control Spike
- Laboratory Control Duplicate

Quality Control Report

EAS SDG Number: 225100

Project Number: 17807

QC Narrative

Samples were anlayzed in a daily analytical batch (DAB) designated by a QC batch number, and were analyzed using EAS standard laboratory QC specified in the EAS Quality Manual which may be different then the referrenced agency method. Any deviations from the EAS QC criteria are flagged in the Laboratory Control Reports or in the sample Analytical Reports.

Standard Laboratory QC Report

Unless project specific QC was requested, this Section containing the standard laboratory QC (Level 2) supplied with the Analytical Reports. Each sample is analyzed in a Daily Analytical Batch (DAB) which includes the method blank, a laboratory control spike (LCS) and a laboratory control duplicate (LCD). A Daily Analytical Batch QC report is supplied for each method requested.

Method Blank

The method blank is a laboratory generated sample which assesses the degree to which laboratory operations cause a false positive. The target analytes in the analytical reports for a daily analytical batch are "B" flagged if their concentrations are present in the Method Blank above the RL, unless the result is greater then ten times the blank value..

Laboratory Control Spike

A laboratory control spike is a well characterized matrix similar to the sample which is spiked and run in duplicate with each Daily Analytical Batch. The laboratory control spike results are reported as a percent recovery. The QC Criteria for the control spike is listed in the Laboratory Control Report. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report. The control spike contains an abbreviated list of compounds in the method, and may contain compounds not on the target list for the specified report.

Laboratory Control Duplicate

The laboratory control duplicate is a duplicate analysis of the laboratory control spike, a standard, or a sample depending on the method. The results are reported as a relative percent difference (RPD). The criteria for the duplicate is in the Laboratory Control Report for the Daily Analytical Batch. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report.

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC
Laboratory ID: B03315

File Name: B03315D.D
Description: METHOD BLANK
Canister:
QC_Batch: 033125-MA1

Date Sampled: **Time:**
Date Analyzed: 3/31/2025 **Time:** 11:43
Can Dilution Factor: 1.00
Air Volume: 200 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.50	1.25	ND	0.86	2.15	ND	
75-71-8	Dichlorodifluoromethane	0.75	1.25	ND	3.71	6.19	ND	
67-56-1	Methanol	2.50	3.00	ND	3.28	3.93	ND	
74-87-3	Chloromethane	0.75	1.25	ND	1.55	2.59	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.50	1.25	ND	3.50	8.75	ND	
75-01-4	Vinyl chloride	0.25	1.25	ND	0.64	3.20	ND	
106-99-0	1,3-Butadiene	0.25	1.25	ND	0.56	2.77	ND	
74-83-9	Bromomethane	0.50	1.25	ND	1.94	4.86	ND	
75-00-3	Chloroethane	0.50	1.25	ND	1.32	3.30	ND	
64-17-5	Ethanol	2.50	16.05	ND	4.72	30.30	ND	
107-02-8	Acrolein	0.50	1.50	ND	1.15	3.45	ND	
75-69-4	Trichlorofluoromethane	0.50	1.25	ND	2.81	7.03	ND	
67-64-1	Acetone	2.50	3.00	ND	5.95	7.14	ND	
67-63-0	2-propanol (isopropylalcohol)	1.00	6.25	ND	2.46	15.38	ND	
75-65-0	t-Butyl alcohol	0.50	5.00	ND	1.52	15.17	ND	
4227-95-6	Methyl iodide	0.50	1.50	ND	2.93	8.78	ND	
75-35-4	1,1-Dichloroethene	0.25	1.25	ND	0.99	4.96	ND	
107-13-1	Acrylonitrile	1.00	1.50	ND	2.17	3.26	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	1.25	ND	1.92	9.59	ND	
107-05-1	Allyl chloride	0.25	5.00	ND	0.78	15.67	ND	
75-09-2	Methylene chloride	0.25	1.25	ND	0.87	4.35	ND	
75-15-0	Carbon disulfide	0.50	1.25	ND	1.56	3.90	ND	
156-60-5	trans-1,2-Dichloroethene	0.25	1.00	ND	0.99	3.97	ND	
1634-04-4	Methyl tert butyl ether	0.50	1.00	ND	1.80	3.61	ND	
107-12-0	Propionitrile	1.25	2.00	ND	2.82	4.51	ND	
75-34-3	1,1-Dichloroethane	0.25	1.25	ND	1.01	5.07	ND	
637-92-3	Ethyl tert butyl ether	0.50	1.25	ND	2.09	5.23	ND	
108-05-4	Vinyl acetate	0.25	5.00	ND	0.88	17.63	ND	
78-93-3	2-Butanone (MEK)	0.50	1.50	ND	1.48	4.43	ND	
108-20-3	Diisopropyl ether	0.50	3.00	ND	2.09	12.56	ND	
110-54-3	Hexane	0.50	1.25	ND	1.77	4.41	ND	
126-98-7	Methacrylonitrile	0.50	1.25	ND	1.37	3.44	ND	
141-78-6	Ethyl acetate	0.50	1.25	ND	1.80	4.51	ND	
74-97-5	Bromochloromethane	0.25	1.25	ND	1.32	6.62	ND	
96-33-3	Methyl acrylate	0.50	2.50	ND	1.76	8.82	ND	
109-99-9	Tetrahydrofuran	0.25	1.50	ND	0.74	4.43	ND	
78-83-1	Isobutyl alcohol	1.00	4.00	ND	3.03	12.14	ND	
156-59-2	cis-1,2-Dichloroethene	0.25	1.25	ND	0.99	4.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
594-20-7	2,2-Dichloropropane	0.25	1.25	ND	1.16	5.78	ND	
67-66-3	Chloroform	0.25	1.25	ND	1.23	6.11	ND	
71-55-6	1,1,1-Trichloroethane	0.25	1.25	ND	1.37	6.83	ND	
107-06-2	1,2-Dichloroethane	0.25	1.25	ND	1.01	5.07	ND	
563-58-6	1,1-Dichloropropene	0.25	1.25	ND	1.14	5.68	ND	
110-82-7	Cyclohexane	0.25	1.25	ND	0.86	4.31	ND	
71-43-2	Benzene	1.75	2.50	ND	5.60	8.00	ND	
56-23-5	Carbon tetrachloride	0.25	1.25	ND	1.57	7.87	ND	
994-05-8	t-Amyl methyl ether	0.50	2.50	ND	2.09	10.46	ND	
540-84-1	2,2,4-Trimethylpentane	0.25	1.25	ND	1.17	5.85	ND	
142-82-5	n-Heptane	0.50	1.25	ND	2.05	5.13	ND	
78-87-5	1,2-Dichloropropane	0.25	1.25	ND	1.16	5.78	ND	
123-91-1	1,4 Dioxane	0.50	2.50	ND	1.80	9.02	ND	
74-95-3	Dibromomethane	0.25	1.25	ND	1.78	8.90	ND	
79-01-6	Trichloroethene (TCE)	0.13	1.25	ND	0.67	6.73	ND	
75-27-4	Bromodichloromethane	0.25	1.25	ND	1.68	8.39	ND	
80-62-6	Methyl methacrylate	0.50	1.25	ND	2.05	5.12	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.50	4.00	ND	2.05	16.41	ND	
10061-01-5	cis-1,3-Dichloropropene	0.25	1.25	ND	1.14	5.68	ND	
108-88-3	Toluene	1.00	1.25	ND	3.77	4.71	ND	
10061-02-6	trans-1,3-Dichloropropene	0.25	1.25	ND	1.14	5.68	ND	
79-00-5	1,1,2-Trichloroethane	0.25	1.25	ND	1.37	6.83	ND	
97-63-2	Ethyl methacrylate	0.50	1.25	ND	2.34	5.85	ND	
591-78-6	2-Hexanone	0.50	4.00	ND	2.05	16.41	ND	
142-28-9	1,3-Dichloropropane	0.25	3.50	ND	1.16	16.20	ND	
111-65-9	Octane	0.50	1.25	ND	2.34	5.85	ND	
124-48-1	Dibromochloromethane	0.50	1.25	ND	4.27	10.66	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.50	1.25	ND	3.85	9.62	ND	
127-18-4	Tetrachloroethene (PCE)	0.13	1.25	ND	0.85	8.49	ND	
108-90-7	Chlorobenzene	0.50	1.25	ND	2.31	5.76	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.50	1.25	ND	3.44	8.59	ND	
100-41-4	Ethylbenzene	0.50	1.25	ND	2.17	5.44	ND	
1330-20-7	m,p-Xylenes	0.50	1.25	ND	2.17	5.44	ND	
111-84-2	Nonane	0.50	1.25	ND	2.63	6.57	ND	
100-42-5	Styrene	0.75	1.25	ND	3.20	5.33	ND	
75-25-2	Bromoform	0.50	1.25	ND	5.17	12.94	ND	
95-47-6	o-Xylene	0.50	1.25	ND	2.17	5.44	ND	
79-34-5	1,1,2,2-Tetrachloroethane	1.00	2.50	ND	6.87	17.18	ND	
96-18-4	1,2,3-Trichloropropane	1.00	3.00	ND	6.04	18.11	ND	
110-57-6	t-1,4-Dichloro-2-butene	1.00	3.00	ND	5.12	15.36	ND	
103-65-1	n-Propylbenzene	1.00	3.50	ND	4.92	17.23	ND	
98-82-8	Isopropylbenzene	1.00	3.50	ND	4.92	17.23	ND	
622-96-8	4-Ethyltoluene	1.00	8.00	ND	4.92	39.38	ND	
108-67-8	1,3,5-Trimethylbenzene	1.00	4.50	ND	4.92	22.15	ND	
124-18-5	Decane	1.00	3.00	ND	5.83	17.48	ND	
98-06-6	tert-butyl benzene	1.00	3.00	ND	5.50	16.49	ND	
95-63-6	1,2,4-Trimethylbenzene	1.00	4.50	ND	4.92	22.15	ND	
538-93-2	i-Butylbenzene	1.00	3.00	ND	5.50	16.49	ND	
135-98-8	sec-butylbenzene	1.00	3.50	ND	5.50	19.24	ND	
541-73-1	1,3-Dichlorobenzene	1.00	4.00	ND	6.02	24.08	ND	
99-87-6	Isopropyltoluene	1.00	3.00	ND	5.50	16.49	ND	
100-44-7	Benzyl chloride	1.00	2.50	ND	5.18	12.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
106-46-7	1,4-Dichlorobenzene	1.00	2.50	ND	6.02	15.05	ND	
104-51-8	n-Butylbenzene	1.00	3.00	ND	5.50	16.49	ND	
95-50-1	1,2-Dichlorobenzene	1.00	3.50	ND	6.02	21.07	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.50	3.50	ND	14.52	33.87	ND	
120-82-1	1,2,4-Trichlorobenzene	1.50	2.50	ND	11.14	18.57	ND	
91-20-3	Naphthalene	2.50	0.50	ND	13.13	2.63	ND	
87-61-6	1,2,3-Trichlorobenzene	1.50	2.50	ND	11.14	18.57	ND	
87-68-3	Hexachlorobutadiene	1.25	1.50	ND	13.35	16.02	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	98	70	130	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC
Laboratory ID: B04015

File Name: B04015D.D
Description: METHOD BLANK
Canister:
QC_Batch: 040125-MA1

Date Sampled: **Time:**
Date Analyzed: 4/1/2025 **Time:** 12:10
Can Dilution Factor: 1.00
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.33	0.83	ND	0.57	1.44	ND	
75-71-8	Dichlorodifluoromethane	0.50	0.83	ND	2.48	4.13	ND	
67-56-1	Methanol	1.67	2.00	ND	2.18	2.62	ND	
74-87-3	Chloromethane	0.50	0.83	ND	1.03	1.72	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.33	0.83	ND	2.33	5.83	ND	
75-01-4	Vinyl chloride	0.17	0.83	ND	0.43	2.13	ND	
106-99-0	1,3-Butadiene	0.17	0.83	ND	0.37	1.85	ND	
74-83-9	Bromomethane	0.33	0.83	ND	1.30	3.24	ND	
75-00-3	Chloroethane	0.33	0.83	ND	0.88	2.20	ND	
64-17-5	Ethanol	1.67	10.70	ND	3.15	20.20	ND	
107-02-8	Acrolein	0.33	1.00	ND	0.77	2.30	ND	
75-69-4	Trichlorofluoromethane	0.33	0.83	ND	1.88	4.69	ND	
67-64-1	Acetone	1.67	2.00	ND	3.97	4.76	ND	
67-63-0	2-propanol (isopropylalcohol)	0.67	4.17	ND	1.64	10.26	ND	
75-65-0	t-Butyl alcohol	0.33	3.33	ND	1.01	10.12	ND	
4227-95-6	Methyl iodide	0.33	1.00	ND	1.95	5.85	ND	
75-35-4	1,1-Dichloroethene	0.17	0.83	ND	0.66	3.31	ND	
107-13-1	Acrylonitrile	0.67	1.00	ND	1.45	2.17	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.17	0.83	ND	1.28	6.40	ND	
107-05-1	Allyl chloride	0.17	3.33	ND	0.52	10.44	ND	
75-09-2	Methylene chloride	0.17	0.83	ND	0.58	2.90	ND	
75-15-0	Carbon disulfide	0.33	0.83	ND	1.04	2.60	ND	
156-60-5	trans-1,2-Dichloroethene	0.17	0.67	ND	0.66	2.65	ND	
1634-04-4	Methyl tert butyl ether	0.33	0.67	ND	1.20	2.41	ND	
107-12-0	Propionitrile	0.83	1.33	ND	1.88	3.01	ND	
75-34-3	1,1-Dichloroethane	0.17	0.83	ND	0.67	3.38	ND	
637-92-3	Ethyl tert butyl ether	0.33	0.83	ND	1.40	3.49	ND	
108-05-4	Vinyl acetate	0.17	3.33	ND	0.59	11.75	ND	
78-93-3	2-Butanone (MEK)	0.33	1.00	ND	0.98	2.95	ND	
108-20-3	Diisopropyl ether	0.33	2.00	ND	1.40	8.37	ND	
110-54-3	Hexane	0.33	0.83	ND	1.18	2.94	ND	
126-98-7	Methacrylonitrile	0.33	0.83	ND	0.92	2.29	ND	
141-78-6	Ethyl acetate	0.33	0.83	ND	1.20	3.01	ND	
74-97-5	Bromochloromethane	0.17	0.83	ND	0.88	4.42	ND	
96-33-3	Methyl acrylate	0.33	1.67	ND	1.18	5.88	ND	
109-99-9	Tetrahydrofuran	0.17	1.00	ND	0.50	2.95	ND	
78-83-1	Isobutyl alcohol	0.67	2.67	ND	2.02	8.09	ND	
156-59-2	cis-1,2-Dichloroethene	0.17	0.83	ND	0.66	3.31	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
594-20-7	2,2-Dichloropropane	0.17	0.83	ND	0.77	3.86	ND	
67-66-3	Chloroform	0.17	0.83	ND	0.82	4.08	ND	
71-55-6	1,1,1-Trichloroethane	0.17	0.83	ND	0.91	4.55	ND	
107-06-2	1,2-Dichloroethane	0.17	0.83	ND	0.68	3.38	ND	
563-58-6	1,1-Dichloropropene	0.17	0.83	ND	0.76	3.79	ND	
110-82-7	Cyclohexane	0.17	0.83	ND	0.57	2.87	ND	
71-43-2	Benzene	1.17	1.67	ND	3.73	5.33	ND	
56-23-5	Carbon tetrachloride	0.17	0.83	ND	1.05	5.25	ND	
994-05-8	t-Amyl methyl ether	0.33	1.67	ND	1.40	6.98	ND	
540-84-1	2,2,4-Trimethylpentane	0.17	0.83	ND	0.78	3.90	ND	
142-82-5	n-Heptane	0.33	0.83	ND	1.37	3.42	ND	
78-87-5	1,2-Dichloropropane	0.17	0.83	ND	0.77	3.86	ND	
123-91-1	1,4 Dioxane	0.33	1.67	ND	1.20	6.01	ND	
74-95-3	Dibromomethane	0.17	0.83	ND	1.19	5.93	ND	
79-01-6	Trichloroethene (TCE)	0.08	0.83	ND	0.45	4.48	ND	
75-27-4	Bromodichloromethane	0.17	0.83	ND	1.12	5.59	ND	
80-62-6	Methyl methacrylate	0.33	0.83	ND	1.37	3.42	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.33	2.67	ND	1.37	10.94	ND	
10061-01-5	cis-1,3-Dichloropropene	0.17	0.83	ND	0.76	3.79	ND	
108-88-3	Toluene	0.67	0.83	ND	2.51	3.14	ND	
10061-02-6	trans-1,3-Dichloropropene	0.17	0.83	ND	0.76	3.79	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.83	ND	0.91	4.55	ND	
97-63-2	Ethyl methacrylate	0.33	0.83	ND	1.56	3.90	ND	
591-78-6	2-Hexanone	0.33	2.67	ND	1.37	10.94	ND	
142-28-9	1,3-Dichloropropane	0.17	2.33	ND	0.77	10.80	ND	
111-65-9	Octane	0.33	0.83	ND	1.56	3.90	ND	
124-48-1	Dibromochloromethane	0.33	0.83	ND	2.84	7.11	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.33	0.83	ND	2.57	6.41	ND	
127-18-4	Tetrachloroethene (PCE)	0.08	0.83	ND	0.57	5.66	ND	
108-90-7	Chlorobenzene	0.33	0.83	ND	1.54	3.84	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.33	0.83	ND	2.29	5.73	ND	
100-41-4	Ethylbenzene	0.33	0.83	ND	1.45	3.62	ND	
1330-20-7	m,p-Xylenes	0.33	0.83	ND	1.45	3.62	ND	
111-84-2	Nonane	0.33	0.83	ND	1.75	4.38	ND	
100-42-5	Styrene	0.50	0.83	ND	2.13	3.56	ND	
75-25-2	Bromoform	0.33	0.83	ND	3.45	8.62	ND	
95-47-6	o-Xylene	0.33	0.83	ND	1.45	3.62	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.67	1.67	ND	4.58	11.45	ND	
96-18-4	1,2,3-Trichloropropane	0.67	2.00	ND	4.02	12.07	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.67	2.00	ND	3.41	10.24	ND	
103-65-1	n-Propylbenzene	0.67	2.33	ND	3.28	11.49	ND	
98-82-8	Isopropylbenzene	0.67	2.33	ND	3.28	11.49	ND	
622-96-8	4-Ethyltoluene	0.67	5.33	ND	3.28	26.25	ND	
108-67-8	1,3,5-Trimethylbenzene	0.67	3.00	ND	3.28	14.77	ND	
124-18-5	Decane	0.67	2.00	ND	3.89	11.66	ND	
98-06-6	tert-butyl benzene	0.67	2.00	ND	3.66	10.99	ND	
95-63-6	1,2,4-Trimethylbenzene	0.67	3.00	ND	3.28	14.77	ND	
538-93-2	i-Butylbenzene	0.67	2.00	ND	3.66	10.99	ND	
135-98-8	sec-butylbenzene	0.67	2.33	ND	3.66	12.82	ND	
541-73-1	1,3-Dichlorobenzene	0.67	2.67	ND	4.01	16.05	ND	
99-87-6	Isopropyltoluene	0.67	2.00	ND	3.66	10.99	ND	
100-44-7	Benzyl chloride	0.67	1.67	ND	3.46	8.64	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
106-46-7	1,4-Dichlorobenzene	0.67	1.67	ND	4.01	10.03	ND	
104-51-8	n-Butylbenzene	0.67	2.00	ND	3.66	10.99	ND	
95-50-1	1,2-Dichlorobenzene	0.67	2.33	ND	4.01	14.05	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.00	2.33	ND	9.68	22.58	ND	
120-82-1	1,2,4-Trichlorobenzene	1.00	1.67	ND	7.43	12.38	ND	
91-20-3	Naphthalene	1.67	0.33	ND	8.75	1.75	ND	
87-61-6	1,2,3-Trichlorobenzene	1.00	1.67	ND	7.43	12.38	ND	
87-68-3	Hexachlorobutadiene	0.83	1.00	ND	8.90	10.68	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	99	70	130	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC
Laboratory ID: B04025

File Name: B04025D.D
Description: METHOD BLANK
Canister:
QC_Batch: 040225-MA1

Date Sampled: **Time:**
Date Analyzed: 4/2/2025 **Time:** 11:10
Can Dilution Factor: 1.00
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.33	0.83	ND	0.57	1.44	ND	
75-71-8	Dichlorodifluoromethane	0.50	0.83	ND	2.48	4.13	ND	
67-56-1	Methanol	1.67	2.00	ND	2.18	2.62	ND	
74-87-3	Chloromethane	0.50	0.83	ND	1.03	1.72	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.33	0.83	ND	2.33	5.83	ND	
75-01-4	Vinyl chloride	0.17	0.83	ND	0.43	2.13	ND	
106-99-0	1,3-Butadiene	0.17	0.83	ND	0.37	1.85	ND	
74-83-9	Bromomethane	0.33	0.83	ND	1.30	3.24	ND	
75-00-3	Chloroethane	0.33	0.83	ND	0.88	2.20	ND	
64-17-5	Ethanol	1.67	10.70	ND	3.15	20.20	ND	
107-02-8	Acrolein	0.33	1.00	ND	0.77	2.30	ND	
75-69-4	Trichlorofluoromethane	0.33	0.83	ND	1.88	4.69	ND	
67-64-1	Acetone	1.67	2.00	ND	3.97	4.76	ND	
67-63-0	2-propanol (isopropylalcohol)	0.67	4.17	ND	1.64	10.26	ND	
75-65-0	t-Butyl alcohol	0.33	3.33	ND	1.01	10.12	ND	
4227-95-6	Methyl iodide	0.33	1.00	ND	1.95	5.85	ND	
75-35-4	1,1-Dichloroethene	0.17	0.83	ND	0.66	3.31	ND	
107-13-1	Acrylonitrile	0.67	1.00	ND	1.45	2.17	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.17	0.83	ND	1.28	6.40	ND	
107-05-1	Allyl chloride	0.17	3.33	ND	0.52	10.44	ND	
75-09-2	Methylene chloride	0.17	0.83	ND	0.58	2.90	ND	
75-15-0	Carbon disulfide	0.33	0.83	ND	1.04	2.60	ND	
156-60-5	trans-1,2-Dichloroethene	0.17	0.67	ND	0.66	2.65	ND	
1634-04-4	Methyl tert butyl ether	0.33	0.67	ND	1.20	2.41	ND	
107-12-0	Propionitrile	0.83	1.33	ND	1.88	3.01	ND	
75-34-3	1,1-Dichloroethane	0.17	0.83	ND	0.67	3.38	ND	
637-92-3	Ethyl tert butyl ether	0.33	0.83	ND	1.40	3.49	ND	
108-05-4	Vinyl acetate	0.17	3.33	ND	0.59	11.75	ND	
78-93-3	2-Butanone (MEK)	0.33	1.00	ND	0.98	2.95	ND	
108-20-3	Diisopropyl ether	0.33	2.00	ND	1.40	8.37	ND	
110-54-3	Hexane	0.33	0.83	ND	1.18	2.94	ND	
126-98-7	Methacrylonitrile	0.33	0.83	ND	0.92	2.29	ND	
141-78-6	Ethyl acetate	0.33	0.83	ND	1.20	3.01	ND	
74-97-5	Bromochloromethane	0.17	0.83	ND	0.88	4.42	ND	
96-33-3	Methyl acrylate	0.33	1.67	ND	1.18	5.88	ND	
109-99-9	Tetrahydrofuran	0.17	1.00	ND	0.50	2.95	ND	
78-83-1	Isobutyl alcohol	0.67	2.67	ND	2.02	8.09	ND	
156-59-2	cis-1,2-Dichloroethene	0.17	0.83	ND	0.66	3.31	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
594-20-7	2,2-Dichloropropane	0.17	0.83	ND	0.77	3.86	ND	
67-66-3	Chloroform	0.17	0.83	ND	0.82	4.08	ND	
71-55-6	1,1,1-Trichloroethane	0.17	0.83	ND	0.91	4.55	ND	
107-06-2	1,2-Dichloroethane	0.17	0.83	ND	0.68	3.38	ND	
563-58-6	1,1-Dichloropropene	0.17	0.83	ND	0.76	3.79	ND	
110-82-7	Cyclohexane	0.17	0.83	ND	0.57	2.87	ND	
71-43-2	Benzene	1.17	1.67	ND	3.73	5.33	ND	
56-23-5	Carbon tetrachloride	0.17	0.83	ND	1.05	5.25	ND	
994-05-8	t-Amyl methyl ether	0.33	1.67	ND	1.40	6.98	ND	
540-84-1	2,2,4-Trimethylpentane	0.17	0.83	ND	0.78	3.90	ND	
142-82-5	n-Heptane	0.33	0.83	ND	1.37	3.42	ND	
78-87-5	1,2-Dichloropropane	0.17	0.83	ND	0.77	3.86	ND	
123-91-1	1,4 Dioxane	0.33	1.67	ND	1.20	6.01	ND	
74-95-3	Dibromomethane	0.17	0.83	ND	1.19	5.93	ND	
79-01-6	Trichloroethene (TCE)	0.08	0.83	ND	0.45	4.48	ND	
75-27-4	Bromodichloromethane	0.17	0.83	ND	1.12	5.59	ND	
80-62-6	Methyl methacrylate	0.33	0.83	ND	1.37	3.42	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.33	2.67	ND	1.37	10.94	ND	
10061-01-5	cis-1,3-Dichloropropene	0.17	0.83	ND	0.76	3.79	ND	
108-88-3	Toluene	0.67	0.83	ND	2.51	3.14	ND	
10061-02-6	trans-1,3-Dichloropropene	0.17	0.83	ND	0.76	3.79	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.83	ND	0.91	4.55	ND	
97-63-2	Ethyl methacrylate	0.33	0.83	ND	1.56	3.90	ND	
591-78-6	2-Hexanone	0.33	2.67	ND	1.37	10.94	ND	
142-28-9	1,3-Dichloropropane	0.17	2.33	ND	0.77	10.80	ND	
111-65-9	Octane	0.33	0.83	ND	1.56	3.90	ND	
124-48-1	Dibromochloromethane	0.33	0.83	ND	2.84	7.11	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.33	0.83	ND	2.57	6.41	ND	
127-18-4	Tetrachloroethene (PCE)	0.08	0.83	ND	0.57	5.66	ND	
108-90-7	Chlorobenzene	0.33	0.83	ND	1.54	3.84	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.33	0.83	ND	2.29	5.73	ND	
100-41-4	Ethylbenzene	0.33	0.83	ND	1.45	3.62	ND	
1330-20-7	m,p-Xylenes	0.33	0.83	ND	1.45	3.62	ND	
111-84-2	Nonane	0.33	0.83	ND	1.75	4.38	ND	
100-42-5	Styrene	0.50	0.83	ND	2.13	3.56	ND	
75-25-2	Bromoform	0.33	0.83	ND	3.45	8.62	ND	
95-47-6	o-Xylene	0.33	0.83	ND	1.45	3.62	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.67	1.67	ND	4.58	11.45	ND	
96-18-4	1,2,3-Trichloropropane	0.67	2.00	ND	4.02	12.07	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.67	2.00	ND	3.41	10.24	ND	
103-65-1	n-Propylbenzene	0.67	2.33	ND	3.28	11.49	ND	
98-82-8	Isopropylbenzene	0.67	2.33	ND	3.28	11.49	ND	
622-96-8	4-Ethyltoluene	0.67	5.33	ND	3.28	26.25	ND	
108-67-8	1,3,5-Trimethylbenzene	0.67	3.00	ND	3.28	14.77	ND	
124-18-5	Decane	0.67	2.00	ND	3.89	11.66	ND	
98-06-6	tert-butyl benzene	0.67	2.00	ND	3.66	10.99	ND	
95-63-6	1,2,4-Trimethylbenzene	0.67	3.00	ND	3.28	14.77	ND	
538-93-2	i-Butylbenzene	0.67	2.00	ND	3.66	10.99	ND	
135-98-8	sec-butylbenzene	0.67	2.33	ND	3.66	12.82	ND	
541-73-1	1,3-Dichlorobenzene	0.67	2.67	ND	4.01	16.05	ND	
99-87-6	Isopropyltoluene	0.67	2.00	ND	3.66	10.99	ND	
100-44-7	Benzyl chloride	0.67	1.67	ND	3.46	8.64	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
106-46-7	1,4-Dichlorobenzene	0.67	1.67	ND	4.01	10.03	ND	
104-51-8	n-Butylbenzene	0.67	2.00	ND	3.66	10.99	ND	
95-50-1	1,2-Dichlorobenzene	0.67	2.33	ND	4.01	14.05	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.00	2.33	ND	9.68	22.58	ND	
120-82-1	1,2,4-Trichlorobenzene	1.00	1.67	ND	7.43	12.38	ND	
91-20-3	Naphthalene	1.67	0.33	ND	8.75	1.75	ND	
87-61-6	1,2,3-Trichlorobenzene	1.00	1.67	ND	7.43	12.38	ND	
87-68-3	Hexachlorobutadiene	0.83	1.00	ND	8.90	10.68	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	101	70	130	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC
Laboratory ID: B04035

File Name: B04035D.D
Description: METHOD BLANK
Canister:
QC_Batch: 040325-MA1

Date Sampled: **Time:**
Date Analyzed: 4/3/2025 **Time:** 11:42
Can Dilution Factor: 1.00
Air Volume: 200 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.50	1.25	ND	0.86	2.15	ND	
75-71-8	Dichlorodifluoromethane	0.75	1.25	ND	3.71	6.19	ND	
67-56-1	Methanol	2.50	3.00	ND	3.28	3.93	ND	
74-87-3	Chloromethane	0.75	1.25	ND	1.55	2.59	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.50	1.25	ND	3.50	8.75	ND	
75-01-4	Vinyl chloride	0.25	1.25	ND	0.64	3.20	ND	
106-99-0	1,3-Butadiene	0.25	1.25	ND	0.56	2.77	ND	
74-83-9	Bromomethane	0.50	1.25	ND	1.94	4.86	ND	
75-00-3	Chloroethane	0.50	1.25	ND	1.32	3.30	ND	
64-17-5	Ethanol	2.50	16.05	ND	4.72	30.30	ND	
107-02-8	Acrolein	0.50	1.50	ND	1.15	3.45	ND	
75-69-4	Trichlorofluoromethane	0.50	1.25	ND	2.81	7.03	ND	
67-64-1	Acetone	2.50	3.00	ND	5.95	7.14	ND	
67-63-0	2-propanol (isopropylalcohol)	1.00	6.25	ND	2.46	15.38	ND	
75-65-0	t-Butyl alcohol	0.50	5.00	ND	1.52	15.17	ND	
4227-95-6	Methyl iodide	0.50	1.50	ND	2.93	8.78	ND	
75-35-4	1,1-Dichloroethene	0.25	1.25	ND	0.99	4.96	ND	
107-13-1	Acrylonitrile	1.00	1.50	ND	2.17	3.26	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	1.25	ND	1.92	9.59	ND	
107-05-1	Allyl chloride	0.25	5.00	ND	0.78	15.67	ND	
75-09-2	Methylene chloride	0.25	1.25	ND	0.87	4.35	ND	
75-15-0	Carbon disulfide	0.50	1.25	ND	1.56	3.90	ND	
156-60-5	trans-1,2-Dichloroethene	0.25	1.00	ND	0.99	3.97	ND	
1634-04-4	Methyl tert butyl ether	0.50	1.00	ND	1.80	3.61	ND	
107-12-0	Propionitrile	1.25	2.00	ND	2.82	4.51	ND	
75-34-3	1,1-Dichloroethane	0.25	1.25	ND	1.01	5.07	ND	
637-92-3	Ethyl tert butyl ether	0.50	1.25	ND	2.09	5.23	ND	
108-05-4	Vinyl acetate	0.25	5.00	ND	0.88	17.63	ND	
78-93-3	2-Butanone (MEK)	0.50	1.50	ND	1.48	4.43	ND	
108-20-3	Diisopropyl ether	0.50	3.00	ND	2.09	12.56	ND	
110-54-3	Hexane	0.50	1.25	ND	1.77	4.41	ND	
126-98-7	Methacrylonitrile	0.50	1.25	ND	1.37	3.44	ND	
141-78-6	Ethyl acetate	0.50	1.25	ND	1.80	4.51	ND	
74-97-5	Bromochloromethane	0.25	1.25	ND	1.32	6.62	ND	
96-33-3	Methyl acrylate	0.50	2.50	ND	1.76	8.82	ND	
109-99-9	Tetrahydrofuran	0.25	1.50	ND	0.74	4.43	ND	
78-83-1	Isobutyl alcohol	1.00	4.00	ND	3.03	12.14	ND	
156-59-2	cis-1,2-Dichloroethene	0.25	1.25	ND	0.99	4.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
594-20-7	2,2-Dichloropropane	0.25	1.25	ND	1.16	5.78	ND	
67-66-3	Chloroform	0.25	1.25	ND	1.23	6.11	ND	
71-55-6	1,1,1-Trichloroethane	0.25	1.25	ND	1.37	6.83	ND	
107-06-2	1,2-Dichloroethane	0.25	1.25	ND	1.01	5.07	ND	
563-58-6	1,1-Dichloropropene	0.25	1.25	ND	1.14	5.68	ND	
110-82-7	Cyclohexane	0.25	1.25	ND	0.86	4.31	ND	
71-43-2	Benzene	1.75	2.50	ND	5.60	8.00	ND	
56-23-5	Carbon tetrachloride	0.25	1.25	ND	1.57	7.87	ND	
994-05-8	t-Amyl methyl ether	0.50	2.50	ND	2.09	10.46	ND	
540-84-1	2,2,4-Trimethylpentane	0.25	1.25	ND	1.17	5.85	ND	
142-82-5	n-Heptane	0.50	1.25	ND	2.05	5.13	ND	
78-87-5	1,2-Dichloropropane	0.25	1.25	ND	1.16	5.78	ND	
123-91-1	1,4 Dioxane	0.50	2.50	ND	1.80	9.02	ND	
74-95-3	Dibromomethane	0.25	1.25	ND	1.78	8.90	ND	
79-01-6	Trichloroethene (TCE)	0.13	1.25	ND	0.67	6.73	ND	
75-27-4	Bromodichloromethane	0.25	1.25	ND	1.68	8.39	ND	
80-62-6	Methyl methacrylate	0.50	1.25	ND	2.05	5.12	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.50	4.00	ND	2.05	16.41	ND	
10061-01-5	cis-1,3-Dichloropropene	0.25	1.25	ND	1.14	5.68	ND	
108-88-3	Toluene	1.00	1.25	ND	3.77	4.71	ND	
10061-02-6	trans-1,3-Dichloropropene	0.25	1.25	ND	1.14	5.68	ND	
79-00-5	1,1,2-Trichloroethane	0.25	1.25	ND	1.37	6.83	ND	
97-63-2	Ethyl methacrylate	0.50	1.25	ND	2.34	5.85	ND	
591-78-6	2-Hexanone	0.50	4.00	ND	2.05	16.41	ND	
142-28-9	1,3-Dichloropropane	0.25	3.50	ND	1.16	16.20	ND	
111-65-9	Octane	0.50	1.25	ND	2.34	5.85	ND	
124-48-1	Dibromochloromethane	0.50	1.25	ND	4.27	10.66	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.50	1.25	ND	3.85	9.62	ND	
127-18-4	Tetrachloroethene (PCE)	0.13	1.25	ND	0.85	8.49	ND	
108-90-7	Chlorobenzene	0.50	1.25	ND	2.31	5.76	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.50	1.25	ND	3.44	8.59	ND	
100-41-4	Ethylbenzene	0.50	1.25	ND	2.17	5.44	ND	
1330-20-7	m,p-Xylenes	0.50	1.25	ND	2.17	5.44	ND	
111-84-2	Nonane	0.50	1.25	ND	2.63	6.57	ND	
100-42-5	Styrene	0.75	1.25	ND	3.20	5.33	ND	
75-25-2	Bromoform	0.50	1.25	ND	5.17	12.94	ND	
95-47-6	o-Xylene	0.50	1.25	ND	2.17	5.44	ND	
79-34-5	1,1,2,2-Tetrachloroethane	1.00	2.50	ND	6.87	17.18	ND	
96-18-4	1,2,3-Trichloropropane	1.00	3.00	ND	6.04	18.11	ND	
110-57-6	t-1,4-Dichloro-2-butene	1.00	3.00	ND	5.12	15.36	ND	
103-65-1	n-Propylbenzene	1.00	3.50	ND	4.92	17.23	ND	
98-82-8	Isopropylbenzene	1.00	3.50	ND	4.92	17.23	ND	
622-96-8	4-Ethyltoluene	1.00	8.00	ND	4.92	39.38	ND	
108-67-8	1,3,5-Trimethylbenzene	1.00	4.50	ND	4.92	22.15	ND	
124-18-5	Decane	1.00	3.00	ND	5.83	17.48	ND	
98-06-6	tert-butyl benzene	1.00	3.00	ND	5.50	16.49	ND	
95-63-6	1,2,4-Trimethylbenzene	1.00	4.50	ND	4.92	22.15	ND	
538-93-2	i-Butylbenzene	1.00	3.00	ND	5.50	16.49	ND	
135-98-8	sec-butylbenzene	1.00	3.50	ND	5.50	19.24	ND	
541-73-1	1,3-Dichlorobenzene	1.00	4.00	ND	6.02	24.08	ND	
99-87-6	Isopropyltoluene	1.00	3.00	ND	5.50	16.49	ND	
100-44-7	Benzyl chloride	1.00	2.50	ND	5.18	12.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
106-46-7	1,4-Dichlorobenzene	1.00	2.50	ND	6.02	15.05	ND	
104-51-8	n-Butylbenzene	1.00	3.00	ND	5.50	16.49	ND	
95-50-1	1,2-Dichlorobenzene	1.00	3.50	ND	6.02	21.07	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.50	3.50	ND	14.52	33.87	ND	
120-82-1	1,2,4-Trichlorobenzene	1.50	2.50	ND	11.14	18.57	ND	
91-20-3	Naphthalene	2.50	0.50	ND	13.13	2.63	ND	
87-61-6	1,2,3-Trichlorobenzene	1.50	2.50	ND	11.14	18.57	ND	
87-68-3	Hexachlorobutadiene	1.25	1.50	ND	13.35	16.02	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	99	70	130	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC
Laboratory ID: B04045

File Name: B04045D.D
Description: METHOD BLANK
Canister:
QC_Batch: 040425-MA1

Date Sampled: **Time:**
Date Analyzed: 4/4/2025 **Time:** 11:46
Can Dilution Factor: 1.00
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.33	0.83	ND	0.57	1.44	ND	
75-71-8	Dichlorodifluoromethane	0.50	0.83	ND	2.48	4.13	ND	
67-56-1	Methanol	1.67	2.00	ND	2.18	2.62	ND	
74-87-3	Chloromethane	0.50	0.83	ND	1.03	1.72	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.33	0.83	ND	2.33	5.83	ND	
75-01-4	Vinyl chloride	0.17	0.83	ND	0.43	2.13	ND	
106-99-0	1,3-Butadiene	0.17	0.83	ND	0.37	1.85	ND	
74-83-9	Bromomethane	0.33	0.83	ND	1.30	3.24	ND	
75-00-3	Chloroethane	0.33	0.83	ND	0.88	2.20	ND	
64-17-5	Ethanol	1.67	10.70	ND	3.15	20.20	ND	
107-02-8	Acrolein	0.33	1.00	ND	0.77	2.30	ND	
75-69-4	Trichlorofluoromethane	0.33	0.83	ND	1.88	4.69	ND	
67-64-1	Acetone	1.67	2.00	ND	3.97	4.76	ND	
67-63-0	2-propanol (isopropylalcohol)	0.67	4.17	ND	1.64	10.26	ND	
75-65-0	t-Butyl alcohol	0.33	3.33	ND	1.01	10.12	ND	
4227-95-6	Methyl iodide	0.33	1.00	ND	1.95	5.85	ND	
75-35-4	1,1-Dichloroethene	0.17	0.83	ND	0.66	3.31	ND	
107-13-1	Acrylonitrile	0.67	1.00	ND	1.45	2.17	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.17	0.83	ND	1.28	6.40	ND	
107-05-1	Allyl chloride	0.17	3.33	ND	0.52	10.44	ND	
75-09-2	Methylene chloride	0.17	0.83	ND	0.58	2.90	ND	
75-15-0	Carbon disulfide	0.33	0.83	ND	1.04	2.60	ND	
156-60-5	trans-1,2-Dichloroethene	0.17	0.67	ND	0.66	2.65	ND	
1634-04-4	Methyl tert butyl ether	0.33	0.67	ND	1.20	2.41	ND	
107-12-0	Propionitrile	0.83	1.33	ND	1.88	3.01	ND	
75-34-3	1,1-Dichloroethane	0.17	0.83	ND	0.67	3.38	ND	
637-92-3	Ethyl tert butyl ether	0.33	0.83	ND	1.40	3.49	ND	
108-05-4	Vinyl acetate	0.17	3.33	ND	0.59	11.75	ND	
78-93-3	2-Butanone (MEK)	0.33	1.00	ND	0.98	2.95	ND	
108-20-3	Diisopropyl ether	0.33	2.00	ND	1.40	8.37	ND	
110-54-3	Hexane	0.33	0.83	ND	1.18	2.94	ND	
126-98-7	Methacrylonitrile	0.33	0.83	ND	0.92	2.29	ND	
141-78-6	Ethyl acetate	0.33	0.83	ND	1.20	3.01	ND	
74-97-5	Bromochloromethane	0.17	0.83	ND	0.88	4.42	ND	
96-33-3	Methyl acrylate	0.33	1.67	ND	1.18	5.88	ND	
109-99-9	Tetrahydrofuran	0.17	1.00	ND	0.50	2.95	ND	
78-83-1	Isobutyl alcohol	0.67	2.67	22.58	2.02	8.09	68.52	
156-59-2	cis-1,2-Dichloroethene	0.17	0.83	ND	0.66	3.31	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
594-20-7	2,2-Dichloropropane	0.17	0.83	ND	0.77	3.86	ND	
67-66-3	Chloroform	0.17	0.83	ND	0.82	4.08	ND	
71-55-6	1,1,1-Trichloroethane	0.17	0.83	ND	0.91	4.55	ND	
107-06-2	1,2-Dichloroethane	0.17	0.83	ND	0.68	3.38	ND	
563-58-6	1,1-Dichloropropene	0.17	0.83	ND	0.76	3.79	ND	
110-82-7	Cyclohexane	0.17	0.83	2.05	0.57	2.87	7.08	
71-43-2	Benzene	1.17	1.67	ND	3.73	5.33	ND	
56-23-5	Carbon tetrachloride	0.17	0.83	ND	1.05	5.25	ND	
994-05-8	t-Amyl methyl ether	0.33	1.67	0.47	1.40	6.98	1.96	J
540-84-1	2,2,4-Trimethylpentane	0.17	0.83	3.38	0.78	3.90	15.79	
142-82-5	n-Heptane	0.33	0.83	ND	1.37	3.42	ND	
78-87-5	1,2-Dichloropropane	0.17	0.83	ND	0.77	3.86	ND	
123-91-1	1,4 Dioxane	0.33	1.67	ND	1.20	6.01	ND	
74-95-3	Dibromomethane	0.17	0.83	ND	1.19	5.93	ND	
79-01-6	Trichloroethene (TCE)	0.08	0.83	ND	0.45	4.48	ND	
75-27-4	Bromodichloromethane	0.17	0.83	ND	1.12	5.59	ND	
80-62-6	Methyl methacrylate	0.33	0.83	ND	1.37	3.42	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.33	2.67	ND	1.37	10.94	ND	
10061-01-5	cis-1,3-Dichloropropene	0.17	0.83	ND	0.76	3.79	ND	
108-88-3	Toluene	0.67	0.83	ND	2.51	3.14	ND	
10061-02-6	trans-1,3-Dichloropropene	0.17	0.83	ND	0.76	3.79	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.83	ND	0.91	4.55	ND	
97-63-2	Ethyl methacrylate	0.33	0.83	ND	1.56	3.90	ND	
591-78-6	2-Hexanone	0.33	2.67	ND	1.37	10.94	ND	
142-28-9	1,3-Dichloropropane	0.17	2.33	ND	0.77	10.80	ND	
111-65-9	Octane	0.33	0.83	ND	1.56	3.90	ND	
124-48-1	Dibromochloromethane	0.33	0.83	ND	2.84	7.11	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.33	0.83	ND	2.57	6.41	ND	
127-18-4	Tetrachloroethene (PCE)	0.08	0.83	ND	0.57	5.66	ND	
108-90-7	Chlorobenzene	0.33	0.83	ND	1.54	3.84	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.33	0.83	ND	2.29	5.73	ND	
100-41-4	Ethylbenzene	0.33	0.83	ND	1.45	3.62	ND	
1330-20-7	m,p-Xylenes	0.33	0.83	ND	1.45	3.62	ND	
111-84-2	Nonane	0.33	0.83	ND	1.75	4.38	ND	
100-42-5	Styrene	0.50	0.83	ND	2.13	3.56	ND	
75-25-2	Bromoform	0.33	0.83	ND	3.45	8.62	ND	
95-47-6	o-Xylene	0.33	0.83	ND	1.45	3.62	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.67	1.67	ND	4.58	11.45	ND	
96-18-4	1,2,3-Trichloropropane	0.67	2.00	ND	4.02	12.07	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.67	2.00	ND	3.41	10.24	ND	
103-65-1	n-Propylbenzene	0.67	2.33	ND	3.28	11.49	ND	
98-82-8	Isopropylbenzene	0.67	2.33	ND	3.28	11.49	ND	
622-96-8	4-Ethyltoluene	0.67	5.33	ND	3.28	26.25	ND	
108-67-8	1,3,5-Trimethylbenzene	0.67	3.00	ND	3.28	14.77	ND	
124-18-5	Decane	0.67	2.00	ND	3.89	11.66	ND	
98-06-6	tert-butyl benzene	0.67	2.00	ND	3.66	10.99	ND	
95-63-6	1,2,4-Trimethylbenzene	0.67	3.00	ND	3.28	14.77	ND	
538-93-2	i-Butylbenzene	0.67	2.00	ND	3.66	10.99	ND	
135-98-8	sec-butylbenzene	0.67	2.33	ND	3.66	12.82	ND	
541-73-1	1,3-Dichlorobenzene	0.67	2.67	ND	4.01	16.05	ND	
99-87-6	Isopropyltoluene	0.67	2.00	ND	3.66	10.99	ND	
100-44-7	Benzyl chloride	0.67	1.67	ND	3.46	8.64	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
106-46-7	1,4-Dichlorobenzene	0.67	1.67	ND	4.01	10.03	ND	
104-51-8	n-Butylbenzene	0.67	2.00	ND	3.66	10.99	ND	
95-50-1	1,2-Dichlorobenzene	0.67	2.33	ND	4.01	14.05	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.00	2.33	ND	9.68	22.58	ND	
120-82-1	1,2,4-Trichlorobenzene	1.00	1.67	1.00	7.43	12.38	7.45	J
91-20-3	Naphthalene	1.67	0.33	ND	8.75	1.75	ND	
87-61-6	1,2,3-Trichlorobenzene	1.00	1.67	ND	7.43	12.38	ND	
87-68-3	Hexachlorobutadiene	0.83	1.00	ND	8.90	10.68	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	97	70	130	

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 **Volatile Organic Compounds by GC/MS**

QC_Batch: 033125-MSA
Date: 3/31/2025

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
75-01-4	Vinyl chloride	103		98		70	130	6	25	
75-35-4	1,1-Dichloroethene	100		97		70	130	3	25	
75-09-2	Dichloromethane	99		97		70	130	3	25	
75-34-3	1,1-Dichloroethane	101		98		70	130	3	25	
67-66-3	Chloroform	100		98		70	130	3	25	
71-55-6	1,1,1-Trichloroethane	105		108		70	130	3	25	
107-06-2	1,2-Dichloroethane	101		100		70	130	1	25	
71-43-2	Benzene	98		101		70	130	3	25	
56-23-5	Carbon tetrachloride	123		124		70	130	1	25	
79-01-6	Trichloroethene	106		106		70	130	0	25	
108-88-3	Toluene	107		104		70	130	3	25	
106-93-4	1,2-Dibromoethane	101		97		70	130	5	25	
127-18-4	Tetrachloroethene	116		108		70	130	7	25	
100-41-4	Ethylbenzene	117		105		70	130	11	25	
1330-20-7	m,p-Xylenes	117		111		70	130	6	25	
95-47-6	o-Xylene	118		109		70	130	8	25	
108-67-8	1,3,5-Trimethylbenzene	111		109		70	130	2	25	
95-63-6	1,2,4-Trimethylbenzene	113		105		70	130	8	25	

LCS - Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 **Volatile Organic Compounds by GC/MS**

QC_Batch: 040125-MA1
Date: 4/1/2025

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
75-01-4	Vinyl chloride	91		92		70	130	2	25	
75-35-4	1,1-Dichloroethene	91		91		70	130	0	25	
75-09-2	Dichloromethane	94		92		70	130	3	25	
75-34-3	1,1-Dichloroethane	91		93		70	130	2	25	
67-66-3	Chloroform	95		95		70	130	0	25	
71-55-6	1,1,1-Trichloroethane	104		104		70	130	0	25	
107-06-2	1,2-Dichloroethane	99		96		70	130	4	25	
71-43-2	Benzene	108		97		70	130	11	25	
56-23-5	Carbon tetrachloride	109		105		70	130	4	25	
79-01-6	Trichloroethene	112		104		70	130	8	25	
108-88-3	Toluene	105		100		70	130	5	25	
106-93-4	1,2-Dibromoethane	93		96		70	130	2	25	
127-18-4	Tetrachloroethene	116		117		70	130	1	25	
100-41-4	Ethylbenzene	125		116		70	130	8	25	
1330-20-7	m,p-Xylenes	123		117		70	130	5	25	
95-47-6	o-Xylene	119		118		70	130	1	25	
108-67-8	1,3,5-Trimethylbenzene	114		113		70	130	1	25	
95-63-6	1,2,4-Trimethylbenzene	112		109		70	130	3	25	

LCS - Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 **Volatile Organic Compounds by GC/MS**

QC_Batch: 040225-MA1
Date: 4/2/2025

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
75-01-4	Vinyl chloride	98		93		70	130	5	25	
75-35-4	1,1-Dichloroethene	95		93		70	130	2	25	
75-09-2	Dichloromethane	93		97		70	130	4	25	
75-34-3	1,1-Dichloroethane	94		92		70	130	2	25	
67-66-3	Chloroform	94		96		70	130	2	25	
71-55-6	1,1,1-Trichloroethane	103		102		70	130	0	25	
107-06-2	1,2-Dichloroethane	99		95		70	130	5	25	
71-43-2	Benzene	102		97		70	130	5	25	
56-23-5	Carbon tetrachloride	114		113		70	130	1	25	
79-01-6	Trichloroethene	116		107		70	130	8	25	
108-88-3	Toluene	107		101		70	130	6	25	
106-93-4	1,2-Dibromoethane	98		99		70	130	1	25	
127-18-4	Tetrachloroethene	123		116		70	130	6	25	
100-41-4	Ethylbenzene	124		118		70	130	4	25	
1330-20-7	m,p-Xylenes	127		118		70	130	7	25	
95-47-6	o-Xylene	127		116		70	130	9	25	
108-67-8	1,3,5-Trimethylbenzene	118		114		70	130	3	25	
95-63-6	1,2,4-Trimethylbenzene	117		108		70	130	8	25	

LCS - Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 **Volatile Organic Compounds by GC/MS**

QC_Batch: 040325-MA1
Date: 4/3/2025

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
75-01-4	Vinyl chloride	98		92		70	130	7	25	
75-35-4	1,1-Dichloroethene	96		93		70	130	3	25	
75-09-2	Dichloromethane	99		96		70	130	3	25	
75-34-3	1,1-Dichloroethane	93		91		70	130	3	25	
67-66-3	Chloroform	97		93		70	130	4	25	
71-55-6	1,1,1-Trichloroethane	102		97		70	130	5	25	
107-06-2	1,2-Dichloroethane	99		91		70	130	8	25	
71-43-2	Benzene	106		104		70	130	2	25	
56-23-5	Carbon tetrachloride	104		93		70	130	10	25	
79-01-6	Trichloroethene	117		106		70	130	9	25	
108-88-3	Toluene	104		97		70	130	7	25	
106-93-4	1,2-Dibromoethane	101		104		70	130	3	25	
127-18-4	Tetrachloroethene	121		121		70	130	0	25	
100-41-4	Ethylbenzene	128		124		70	130	3	25	
1330-20-7	m,p-Xylenes	128		122		70	130	5	25	
95-47-6	o-Xylene	129		125		70	130	3	25	
108-67-8	1,3,5-Trimethylbenzene	127		122		70	130	4	25	
95-63-6	1,2,4-Trimethylbenzene	120		121		70	130	0	25	

LCS - Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 **Volatile Organic Compounds by GC/MS**

QC_Batch: 040425-MA1
Date: 4/4/2025

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
75-01-4	Vinyl chloride	93		95		70	130	2	25	
75-35-4	1,1-Dichloroethene	95		91		70	130	4	25	
75-09-2	Dichloromethane	99		95		70	130	5	25	
75-34-3	1,1-Dichloroethane	95		91		70	130	5	25	
67-66-3	Chloroform	96		93		70	130	3	25	
71-55-6	1,1,1-Trichloroethane	102		97		70	130	5	25	
107-06-2	1,2-Dichloroethane	101		92		70	130	9	25	
71-43-2	Benzene	108		104		70	130	4	25	
56-23-5	Carbon tetrachloride	103		98		70	130	5	25	
79-01-6	Trichloroethene	110		106		70	130	3	25	
108-88-3	Toluene	104		100		70	130	3	25	
106-93-4	1,2-Dibromoethane	105		103		70	130	2	25	
127-18-4	Tetrachloroethene	119		113		70	130	5	25	
100-41-4	Ethylbenzene	122		111		70	130	9	25	
1330-20-7	m,p-Xylenes	120		109		70	130	9	25	
95-47-6	o-Xylene	119		111		70	130	7	25	
108-67-8	1,3,5-Trimethylbenzene	124		112		70	130	10	25	
95-63-6	1,2,4-Trimethylbenzene	118		104		70	130	13	25	

LCS - Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

Section 3 Analytical Methods

This section has information on the analytial methods and a copy of the analytical reports for the Sample Delivery Group (SDG) listed below. The reports are organized in order of the EAS Laboratory Number.

Section Contents

Analytical Method Description(s)

Analytical Reports

Analytical Reports

EAS SDG Number: 225100

Project Number: 17807

The following pages contain the certified Analytical Reports for the samples submitted in the Sample Delivery Group (SDG) and are in order of the EAS Lab ID number. All of the analytical methods used are modifications of the published methods. Procedural method modifications, QC modifications, QC Criteria modifications, target lists, definitions of detection limits, and flags are all explained in detail in the EAS Quality Manual. The Analytical Report has columns for the method detection limit (MDL), the reporting limit (RL), and the Amount. The Amount is the concentration of the compound in the sample. The report usually has the results reported with two commonly used units. The MDL, RL, and Amount are adjusted for the canister dilution factor and any dilution caused by sample matrix effects.

NELAC CERTIFICATION

EAS is accredited by the National Environmental Laboratory Accreditation (NELAC) with the Florida Department of Health, one of the NELAC certifying states. EAS is certified for the EPA TO-15, EPA TO-11 and EPA TO-4 methods. A list of accredited compounds is available on request.

DETECTION LIMITS

MDL: The MDL is lowest concentration that can be measured to be statistically above the noise level and is determined using the EPA 2016 method which uses the standard deviation of replicate measurements made over time. The method also incorporates systematic instrumentation blank levels. See Quality Manual for detailed explanation.

RL: The reporting limit (RL) is the lowest concentration that can be reliably reported for each compound that meets the QC Criteria for the method, background levels, or project specific considerations. The QC criteria level for the method blank is to be less then the RL See Quality Manual for more information.

DATA FLAGS

In the standard report, if a compound is not detected above the method detection limit, a "ND" is in the Amount column. The flag column is used for both the not detect flag and for any data flags.

B - This compound was detected in the batch method blank above the reporting limit and is greater then one tenth the amount in the sample.

E - This compound exceeds the calibration range for this sample volume.

J - The amount reported is estimated because it was below the RL and could be below the lowest calibration point, have higher uncertainty, or could be the result of system background

SIGNIFICANT FIGURES

Based on the uncertainty in the methods, the numbers on the Analytical Reports should be used with only two significant digits. Additional significant figures are reported for ease of use and to avoid rounding errors when used in further calculations.

UNITS

PPBV or PPMV: Parts-per-billion (or million) by volume is a mole (volume) ratio of the moles of analyte divided by the moles of air (gas). This is the primary unit used to report air or gas concentrations and is independent of temperature and pressure.

UG/M3 OR MG/M3: The reported result was calculated based on 1 atm pressure and a temperature of 25C. The conversion from PPBV is: UG/M3 = PPBV x MW/24.46 where 24.26 is the gas constant and MW is the Compounds Molecular Weight (sometimes called Formula Weight)

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 01**

File Name: 2510001A.D
Description: T-101
Canister: 668
QC_Batch: 040325-MA1

Date Sampled: 03/19/25 **Time:** 08:40
Date Analyzed: 04/03/25 **Time:** 17:20
Can Dilution Factor: 1.20
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	1.00	0.47	0.69	1.72	0.81	J
75-71-8	Dichlorodifluoromethane	0.60	1.00	ND	2.97	4.95	ND	
67-56-1	Methanol	2.00	2.40	ND	2.62	3.15	ND	
74-87-3	Chloromethane	0.60	1.00	ND	1.24	2.07	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	1.00	ND	2.80	7.00	ND	
75-01-4	Vinyl chloride	0.20	1.00	ND	0.52	2.56	ND	
106-99-0	1,3-Butadiene	0.20	1.00	ND	0.45	2.22	ND	
74-83-9	Bromomethane	0.40	1.00	ND	1.55	3.89	ND	
75-00-3	Chloroethane	0.40	1.00	ND	1.06	2.64	ND	
64-17-5	Ethanol	2.00	12.84	ND	3.78	24.24	ND	
107-02-8	Acrolein	0.40	1.20	1.30	0.92	2.76	2.99	
75-69-4	Trichlorofluoromethane	0.40	1.00	ND	2.25	5.63	ND	
67-64-1	Acetone	2.00	2.40	27.93	4.76	5.71	66.47	
67-63-0	2-propanol (isopropylalcohol)	0.80	5.00	ND	1.97	12.31	ND	
75-65-0	t-Butyl alcohol	0.40	4.00	ND	1.21	12.14	ND	
4227-95-6	Methyl iodide	0.40	1.20	ND	2.34	7.02	ND	
75-35-4	1,1-Dichloroethene	0.20	1.00	ND	0.79	3.97	ND	
107-13-1	Acrylonitrile	0.80	1.20	ND	1.74	2.61	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.00	ND	1.53	7.67	ND	
107-05-1	Allyl chloride	0.20	4.00	ND	0.63	12.53	ND	
75-09-2	Methylene chloride	0.20	1.00	ND	0.70	3.48	ND	
75-15-0	Carbon disulfide	0.40	1.00	ND	1.25	3.12	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.80	ND	0.79	3.17	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.80	ND	1.44	2.89	ND	
107-12-0	Propionitrile	1.00	1.60	ND	2.26	3.61	ND	
75-34-3	1,1-Dichloroethane	0.20	1.00	ND	0.81	4.05	ND	
637-92-3	Ethyl tert butyl ether	0.40	1.00	ND	1.67	4.19	ND	
108-05-4	Vinyl acetate	0.20	4.00	ND	0.71	14.10	ND	
78-93-3	2-Butanone (MEK)	0.40	1.20	1.32	1.18	3.54	3.91	
108-20-3	Diisopropyl ether	0.40	2.40	ND	1.67	10.05	ND	
110-54-3	Hexane	0.40	1.00	ND	1.41	3.53	ND	
126-98-7	Methacrylonitrile	0.40	1.00	ND	1.10	2.75	ND	
141-78-6	Ethyl acetate	0.40	1.00	ND	1.44	3.61	ND	
74-97-5	Bromochloromethane	0.20	1.00	ND	1.06	5.30	ND	
96-33-3	Methyl acrylate	0.40	2.00	ND	1.41	7.05	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.20	ND	0.59	3.54	ND	
78-83-1	Isobutyl alcohol	0.80	3.20	ND	2.43	9.71	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.00	ND	0.79	3.97	ND	
594-20-7	2,2-Dichloropropane	0.20	1.00	ND	0.93	4.63	ND	
67-66-3	Chloroform	0.20	1.00	ND	0.98	4.89	ND	
71-55-6	1,1,1-Trichloroethane	0.20	1.00	ND	1.09	5.46	ND	
107-06-2	1,2-Dichloroethane	0.20	1.00	ND	0.81	4.05	ND	
563-58-6	1,1-Dichloropropene	0.20	1.00	ND	0.91	4.55	ND	
110-82-7	Cyclohexane	0.20	1.00	ND	0.69	3.45	ND	
71-43-2	Benzene	1.40	2.00	2.22	4.48	6.40	7.11	
56-23-5	Carbon tetrachloride	0.20	1.00	ND	1.26	6.30	ND	
994-05-8	t-Amyl methyl ether	0.40	2.00	ND	1.67	8.37	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.00	ND	0.94	4.68	ND	
142-82-5	n-Heptane	0.40	1.00	ND	1.64	4.10	ND	
78-87-5	1,2-Dichloropropane	0.20	1.00	ND	0.93	4.63	ND	
123-91-1	1,4 Dioxane	0.40	2.00	ND	1.44	7.22	ND	
74-95-3	Dibromomethane	0.20	1.00	ND	1.42	7.12	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.00	ND	0.54	5.38	ND	
75-27-4	Bromodichloromethane	0.20	1.00	ND	1.34	6.71	ND	
80-62-6	Methyl methacrylate	0.40	1.00	ND	1.64	4.10	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.20	ND	1.64	13.13	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.00	ND	0.91	4.55	ND	
108-88-3	Toluene	0.80	1.00	ND	3.02	3.77	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.00	ND	0.91	4.55	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.00	ND	1.09	5.46	ND	
97-63-2	Ethyl methacrylate	0.40	1.00	ND	1.87	4.68	ND	
591-78-6	2-Hexanone	0.40	3.20	ND	1.64	13.13	ND	
142-28-9	1,3-Dichloropropane	0.20	2.80	ND	0.93	12.96	ND	
111-65-9	Octane	0.40	1.00	ND	1.87	4.68	ND	
124-48-1	Dibromochloromethane	0.40	1.00	ND	3.41	8.53	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	1.00	ND	3.08	7.70	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.00	ND	0.68	6.79	ND	
108-90-7	Chlorobenzene	0.40	1.00	ND	1.84	4.61	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	1.00	ND	2.75	6.87	ND	
100-41-4	Ethylbenzene	0.40	1.00	ND	1.74	4.35	ND	
1330-20-7	m,p-Xylenes	0.40	1.00	ND	1.74	4.35	ND	
111-84-2	Nonane	0.40	1.00	ND	2.10	5.25	ND	
100-42-5	Styrene	0.60	1.00	ND	2.56	4.27	ND	
75-25-2	Bromoform	0.40	1.00	ND	4.14	10.35	ND	
95-47-6	o-Xylene	0.40	1.00	ND	1.74	4.35	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.80	2.00	ND	5.50	13.74	ND	
96-18-4	1,2,3-Trichloropropane	0.80	2.40	ND	4.83	14.49	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.80	2.40	ND	4.10	12.29	ND	
103-65-1	n-Propylbenzene	0.80	2.80	ND	3.94	13.78	ND	
98-82-8	Isopropylbenzene	0.80	2.80	ND	3.94	13.78	ND	
622-96-8	4-Ethyltoluene	0.80	6.40	ND	3.94	31.51	ND	
108-67-8	1,3,5-Trimethylbenzene	0.80	3.60	ND	3.94	17.72	ND	
124-18-5	Decane	0.80	2.40	ND	4.66	13.99	ND	
98-06-6	tert-butyl benzene	0.80	2.40	ND	4.40	13.19	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.80	3.60	ND	3.94	17.72	ND	
538-93-2	i-Butylbenzene	0.80	2.40	ND	4.40	13.19	ND	
135-98-8	sec-butylbenzene	0.80	2.80	ND	4.40	15.39	ND	
541-73-1	1,3-Dichlorobenzene	0.80	3.20	ND	4.82	19.27	ND	
99-87-6	Isopropyltoluene	0.80	2.40	ND	4.40	13.19	ND	
100-44-7	Benzyl chloride	0.80	2.00	ND	4.15	10.37	ND	
106-46-7	1,4-Dichlorobenzene	0.80	2.00	ND	4.82	12.04	ND	
104-51-8	n-Butylbenzene	0.80	2.40	ND	4.40	13.19	ND	
95-50-1	1,2-Dichlorobenzene	0.80	2.80	ND	4.82	16.86	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.20	2.80	ND	11.61	27.10	ND	
120-82-1	1,2,4-Trichlorobenzene	1.20	2.00	ND	8.92	14.86	ND	
91-20-3	Naphthalene	2.00	0.40	ND	10.50	2.10	ND	
87-61-6	1,2,3-Trichlorobenzene	1.20	2.00	ND	8.92	14.86	ND	
87-68-3	Hexachlorobutadiene	1.00	1.20	ND	10.68	12.82	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	100	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 02

File Name: 2510002A.D
Description: T-102
Canister: 895
QC_Batch: 033125-MA1

Date Sampled: 03/19/25 **Time:** 08:50
Date Analyzed: 03/31/25 **Time:** 15:11
Can Dilution Factor: 1.24
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.41	1.03	ND	0.71	1.78	ND	
75-71-8	Dichlorodifluoromethane	0.62	1.03	ND	3.07	5.12	ND	
67-56-1	Methanol	2.07	2.48	ND	2.71	3.25	ND	
74-87-3	Chloromethane	0.62	1.03	ND	1.28	2.14	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.41	1.03	ND	2.89	7.23	ND	
75-01-4	Vinyl chloride	0.21	1.03	ND	0.53	2.65	ND	
106-99-0	1,3-Butadiene	0.21	1.03	ND	0.46	2.29	ND	
74-83-9	Bromomethane	0.41	1.03	ND	1.61	4.02	ND	
75-00-3	Chloroethane	0.41	1.03	ND	1.09	2.73	ND	
64-17-5	Ethanol	2.07	13.27	2.21	3.90	25.05	4.17	J
107-02-8	Acrolein	0.41	1.24	ND	0.95	2.85	ND	
75-69-4	Trichlorofluoromethane	0.41	1.03	ND	2.33	5.81	ND	
67-64-1	Acetone	2.07	2.48	2.39	4.92	5.90	5.68	J
67-63-0	2-propanol (isopropylalcohol)	0.83	5.17	ND	2.03	12.72	ND	
75-65-0	t-Butyl alcohol	0.41	4.13	ND	1.25	12.54	ND	
4227-95-6	Methyl iodide	0.41	1.24	ND	2.42	7.26	ND	
75-35-4	1,1-Dichloroethene	0.21	1.03	ND	0.82	4.10	ND	
107-13-1	Acrylonitrile	0.83	1.24	ND	1.80	2.70	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.03	ND	1.59	7.93	ND	
107-05-1	Allyl chloride	0.21	4.13	ND	0.65	12.95	ND	
75-09-2	Methylene chloride	0.21	1.03	ND	0.72	3.59	ND	
75-15-0	Carbon disulfide	0.41	1.03	ND	1.29	3.22	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.83	ND	0.82	3.28	ND	
1634-04-4	Methyl tert butyl ether	0.41	0.83	ND	1.49	2.98	ND	
107-12-0	Propionitrile	1.03	1.65	ND	2.33	3.73	ND	
75-34-3	1,1-Dichloroethane	0.21	1.03	ND	0.84	4.19	ND	
637-92-3	Ethyl tert butyl ether	0.41	1.03	ND	1.73	4.33	ND	
108-05-4	Vinyl acetate	0.21	4.13	ND	0.73	14.58	ND	
78-93-3	2-Butanone (MEK)	0.41	1.24	ND	1.22	3.66	ND	
108-20-3	Diisopropyl ether	0.41	2.48	ND	1.73	10.38	ND	
110-54-3	Hexane	0.41	1.03	ND	1.46	3.65	ND	
126-98-7	Methacrylonitrile	0.41	1.03	ND	1.14	2.84	ND	
141-78-6	Ethyl acetate	0.41	1.03	ND	1.49	3.73	ND	
74-97-5	Bromochloromethane	0.21	1.03	ND	1.10	5.48	ND	
96-33-3	Methyl acrylate	0.41	2.07	ND	1.46	7.29	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.24	ND	0.61	3.66	ND	
78-83-1	Isobutyl alcohol	0.83	3.31	ND	2.51	10.03	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.03	ND	0.82	4.10	ND	
594-20-7	2,2-Dichloropropane	0.21	1.03	ND	0.96	4.78	ND	
67-66-3	Chloroform	0.21	1.03	ND	1.01	5.05	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.03	ND	1.13	5.65	ND	
107-06-2	1,2-Dichloroethane	0.21	1.03	ND	0.84	4.19	ND	
563-58-6	1,1-Dichloropropene	0.21	1.03	ND	0.94	4.70	ND	
110-82-7	Cyclohexane	0.21	1.03	ND	0.71	3.56	ND	
71-43-2	Benzene	1.45	2.07	ND	4.63	6.61	ND	
56-23-5	Carbon tetrachloride	0.21	1.03	ND	1.30	6.51	ND	
994-05-8	t-Amyl methyl ether	0.41	2.07	ND	1.73	8.65	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.03	ND	0.97	4.83	ND	
142-82-5	n-Heptane	0.41	1.03	ND	1.70	4.24	ND	
78-87-5	1,2-Dichloropropane	0.21	1.03	ND	0.96	4.78	ND	
123-91-1	1,4 Dioxane	0.41	2.07	ND	1.49	7.46	ND	
74-95-3	Dibromomethane	0.21	1.03	ND	1.47	7.36	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.03	ND	0.56	5.56	ND	
75-27-4	Bromodichloromethane	0.21	1.03	ND	1.39	6.93	ND	
80-62-6	Methyl methacrylate	0.41	1.03	ND	1.69	4.24	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.41	3.31	ND	1.70	13.57	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.03	ND	0.94	4.70	ND	
108-88-3	Toluene	0.83	1.03	ND	3.12	3.90	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.03	ND	0.94	4.70	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.03	ND	1.13	5.65	ND	
97-63-2	Ethyl methacrylate	0.41	1.03	ND	1.93	4.83	ND	
591-78-6	2-Hexanone	0.41	3.31	ND	1.70	13.57	ND	
142-28-9	1,3-Dichloropropane	0.21	2.89	ND	0.96	13.39	ND	
111-65-9	Octane	0.41	1.03	ND	1.93	4.83	ND	
124-48-1	Dibromochloromethane	0.41	1.03	ND	3.53	8.82	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.41	1.03	ND	3.18	7.95	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.03	ND	0.70	7.02	ND	
108-90-7	Chlorobenzene	0.41	1.03	ND	1.91	4.77	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.41	1.03	ND	2.84	7.10	ND	
100-41-4	Ethylbenzene	0.41	1.03	ND	1.80	4.49	ND	
1330-20-7	m,p-Xylenes	0.41	1.03	ND	1.80	4.49	ND	
111-84-2	Nonane	0.41	1.03	ND	2.17	5.43	ND	
100-42-5	Styrene	0.62	1.03	ND	2.65	4.41	ND	
75-25-2	Bromoform	0.41	1.03	ND	4.28	10.69	ND	
95-47-6	o-Xylene	0.41	1.03	ND	1.80	4.49	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.83	2.07	ND	5.68	14.20	ND	
96-18-4	1,2,3-Trichloropropane	0.83	2.48	ND	4.99	14.97	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.83	2.48	ND	4.23	12.70	ND	
103-65-1	n-Propylbenzene	0.83	2.89	ND	4.07	14.24	ND	
98-82-8	Isopropylbenzene	0.83	2.89	ND	4.07	14.24	ND	
622-96-8	4-Ethyltoluene	0.83	6.61	ND	4.07	32.56	ND	
108-67-8	1,3,5-Trimethylbenzene	0.83	3.72	ND	4.07	18.31	ND	
124-18-5	Decane	0.83	2.48	ND	4.82	14.45	ND	
98-06-6	tert-butyl benzene	0.83	2.48	ND	4.54	13.63	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.83	3.72	ND	4.07	18.31	ND	
538-93-2	i-Butylbenzene	0.83	2.48	ND	4.54	13.63	ND	
135-98-8	sec-butylbenzene	0.83	2.89	ND	4.54	15.90	ND	
541-73-1	1,3-Dichlorobenzene	0.83	3.31	ND	4.98	19.91	ND	
99-87-6	Isopropyltoluene	0.83	2.48	ND	4.54	13.63	ND	
100-44-7	Benzyl chloride	0.83	2.07	ND	4.29	10.72	ND	
106-46-7	1,4-Dichlorobenzene	0.83	2.07	ND	4.98	12.44	ND	
104-51-8	n-Butylbenzene	0.83	2.48	ND	4.54	13.63	ND	
95-50-1	1,2-Dichlorobenzene	0.83	2.89	ND	4.98	17.42	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.24	2.89	ND	12.00	28.00	ND	
120-82-1	1,2,4-Trichlorobenzene	1.24	2.07	ND	9.21	15.35	ND	
91-20-3	Naphthalene	2.07	0.41	ND	10.85	2.17	ND	
87-61-6	1,2,3-Trichlorobenzene	1.24	2.07	ND	9.21	15.35	ND	
87-68-3	Hexachlorobutadiene	1.03	1.24	ND	11.04	13.24	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	103	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 03

File Name: 2510003A.D
Description: T-103
Canister: 881
QC_Batch: 033125-MA1

Date Sampled: 03/19/25 **Time:** 08:44
Date Analyzed: 03/31/25 **Time:** 15:48
Can Dilution Factor: 1.20
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	1.00	0.42	0.69	1.72	0.73	J
75-71-8	Dichlorodifluoromethane	0.60	1.00	ND	2.97	4.95	ND	
67-56-1	Methanol	2.00	2.40	ND	2.62	3.15	ND	
74-87-3	Chloromethane	0.60	1.00	ND	1.24	2.07	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	1.00	ND	2.80	7.00	ND	
75-01-4	Vinyl chloride	0.20	1.00	ND	0.52	2.56	ND	
106-99-0	1,3-Butadiene	0.20	1.00	ND	0.45	2.22	ND	
74-83-9	Bromomethane	0.40	1.00	ND	1.55	3.89	ND	
75-00-3	Chloroethane	0.40	1.00	ND	1.06	2.64	ND	
64-17-5	Ethanol	2.00	12.84	4.11	3.78	24.24	7.75	J
107-02-8	Acrolein	0.40	1.20	1.04	0.92	2.76	2.39	J
75-69-4	Trichlorofluoromethane	0.40	1.00	ND	2.25	5.63	ND	
67-64-1	Acetone	2.00	2.40	4.67	4.76	5.71	11.12	
67-63-0	2-propanol (isopropylalcohol)	0.80	5.00	ND	1.97	12.31	ND	
75-65-0	t-Butyl alcohol	0.40	4.00	ND	1.21	12.14	ND	
4227-95-6	Methyl iodide	0.40	1.20	ND	2.34	7.02	ND	
75-35-4	1,1-Dichloroethene	0.20	1.00	ND	0.79	3.97	ND	
107-13-1	Acrylonitrile	0.80	1.20	ND	1.74	2.61	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.00	ND	1.53	7.67	ND	
107-05-1	Allyl chloride	0.20	4.00	ND	0.63	12.53	ND	
75-09-2	Methylene chloride	0.20	1.00	ND	0.70	3.48	ND	
75-15-0	Carbon disulfide	0.40	1.00	ND	1.25	3.12	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.80	ND	0.79	3.17	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.80	ND	1.44	2.89	ND	
107-12-0	Propionitrile	1.00	1.60	ND	2.26	3.61	ND	
75-34-3	1,1-Dichloroethane	0.20	1.00	ND	0.81	4.05	ND	
637-92-3	Ethyl tert butyl ether	0.40	1.00	ND	1.67	4.19	ND	
108-05-4	Vinyl acetate	0.20	4.00	ND	0.71	14.10	ND	
78-93-3	2-Butanone (MEK)	0.40	1.20	ND	1.18	3.54	ND	
108-20-3	Diisopropyl ether	0.40	2.40	ND	1.67	10.05	ND	
110-54-3	Hexane	0.40	1.00	ND	1.41	3.53	ND	
126-98-7	Methacrylonitrile	0.40	1.00	ND	1.10	2.75	ND	
141-78-6	Ethyl acetate	0.40	1.00	ND	1.44	3.61	ND	
74-97-5	Bromochloromethane	0.20	1.00	ND	1.06	5.30	ND	
96-33-3	Methyl acrylate	0.40	2.00	ND	1.41	7.05	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.20	ND	0.59	3.54	ND	
78-83-1	Isobutyl alcohol	0.80	3.20	ND	2.43	9.71	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.00	ND	0.79	3.97	ND	
594-20-7	2,2-Dichloropropane	0.20	1.00	ND	0.93	4.63	ND	
67-66-3	Chloroform	0.20	1.00	ND	0.98	4.89	ND	
71-55-6	1,1,1-Trichloroethane	0.20	1.00	ND	1.09	5.46	ND	
107-06-2	1,2-Dichloroethane	0.20	1.00	ND	0.81	4.05	ND	
563-58-6	1,1-Dichloropropene	0.20	1.00	ND	0.91	4.55	ND	
110-82-7	Cyclohexane	0.20	1.00	ND	0.69	3.45	ND	
71-43-2	Benzene	1.40	2.00	ND	4.48	6.40	ND	
56-23-5	Carbon tetrachloride	0.20	1.00	ND	1.26	6.30	ND	
994-05-8	t-Amyl methyl ether	0.40	2.00	ND	1.67	8.37	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.00	ND	0.94	4.68	ND	
142-82-5	n-Heptane	0.40	1.00	ND	1.64	4.10	ND	
78-87-5	1,2-Dichloropropane	0.20	1.00	ND	0.93	4.63	ND	
123-91-1	1,4 Dioxane	0.40	2.00	ND	1.44	7.22	ND	
74-95-3	Dibromomethane	0.20	1.00	ND	1.42	7.12	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.00	ND	0.54	5.38	ND	
75-27-4	Bromodichloromethane	0.20	1.00	ND	1.34	6.71	ND	
80-62-6	Methyl methacrylate	0.40	1.00	ND	1.64	4.10	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.20	ND	1.64	13.13	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.00	ND	0.91	4.55	ND	
108-88-3	Toluene	0.80	1.00	ND	3.02	3.77	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.00	ND	0.91	4.55	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.00	ND	1.09	5.46	ND	
97-63-2	Ethyl methacrylate	0.40	1.00	ND	1.87	4.68	ND	
591-78-6	2-Hexanone	0.40	3.20	ND	1.64	13.13	ND	
142-28-9	1,3-Dichloropropane	0.20	2.80	ND	0.93	12.96	ND	
111-65-9	Octane	0.40	1.00	ND	1.87	4.68	ND	
124-48-1	Dibromochloromethane	0.40	1.00	ND	3.41	8.53	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	1.00	ND	3.08	7.70	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.00	ND	0.68	6.79	ND	
108-90-7	Chlorobenzene	0.40	1.00	ND	1.84	4.61	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	1.00	ND	2.75	6.87	ND	
100-41-4	Ethylbenzene	0.40	1.00	ND	1.74	4.35	ND	
1330-20-7	m,p-Xylenes	0.40	1.00	ND	1.74	4.35	ND	
111-84-2	Nonane	0.40	1.00	ND	2.10	5.25	ND	
100-42-5	Styrene	0.60	1.00	ND	2.56	4.27	ND	
75-25-2	Bromoform	0.40	1.00	ND	4.14	10.35	ND	
95-47-6	o-Xylene	0.40	1.00	ND	1.74	4.35	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.80	2.00	ND	5.50	13.74	ND	
96-18-4	1,2,3-Trichloropropane	0.80	2.40	ND	4.83	14.49	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.80	2.40	ND	4.10	12.29	ND	
103-65-1	n-Propylbenzene	0.80	2.80	ND	3.94	13.78	ND	
98-82-8	Isopropylbenzene	0.80	2.80	ND	3.94	13.78	ND	
622-96-8	4-Ethyltoluene	0.80	6.40	ND	3.94	31.51	ND	
108-67-8	1,3,5-Trimethylbenzene	0.80	3.60	ND	3.94	17.72	ND	
124-18-5	Decane	0.80	2.40	ND	4.66	13.99	ND	
98-06-6	tert-butyl benzene	0.80	2.40	ND	4.40	13.19	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.80	3.60	ND	3.94	17.72	ND	
538-93-2	i-Butylbenzene	0.80	2.40	ND	4.40	13.19	ND	
135-98-8	sec-butylbenzene	0.80	2.80	ND	4.40	15.39	ND	
541-73-1	1,3-Dichlorobenzene	0.80	3.20	ND	4.82	19.27	ND	
99-87-6	Isopropyltoluene	0.80	2.40	ND	4.40	13.19	ND	
100-44-7	Benzyl chloride	0.80	2.00	ND	4.15	10.37	ND	
106-46-7	1,4-Dichlorobenzene	0.80	2.00	ND	4.82	12.04	ND	
104-51-8	n-Butylbenzene	0.80	2.40	ND	4.40	13.19	ND	
95-50-1	1,2-Dichlorobenzene	0.80	2.80	ND	4.82	16.86	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.20	2.80	ND	11.61	27.10	ND	
120-82-1	1,2,4-Trichlorobenzene	1.20	2.00	ND	8.92	14.86	ND	
91-20-3	Naphthalene	2.00	0.40	ND	10.50	2.10	ND	
87-61-6	1,2,3-Trichlorobenzene	1.20	2.00	ND	8.92	14.86	ND	
87-68-3	Hexachlorobutadiene	1.00	1.20	ND	10.68	12.82	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	103	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 04

File Name: 2510004A.D
Description: T-104
Canister: 860
QC_Batch: 033125-MA1

Date Sampled: 03/19/25 **Time:** 08:37
Date Analyzed: 03/31/25 **Time:** 16:34
Can Dilution Factor: 1.31
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.44	1.09	1.08	0.75	1.88	1.87	J
75-71-8	Dichlorodifluoromethane	0.66	1.09	ND	3.24	5.41	ND	
67-56-1	Methanol	2.18	2.62	ND	2.86	3.43	ND	
74-87-3	Chloromethane	0.66	1.09	ND	1.35	2.26	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.44	1.09	ND	3.06	7.64	ND	
75-01-4	Vinyl chloride	0.22	1.09	ND	0.56	2.79	ND	
106-99-0	1,3-Butadiene	0.22	1.09	ND	0.49	2.42	ND	
74-83-9	Bromomethane	0.44	1.09	ND	1.70	4.24	ND	
75-00-3	Chloroethane	0.44	1.09	ND	1.15	2.88	ND	
64-17-5	Ethanol	2.18	14.02	3.16	4.12	26.46	5.97	J
107-02-8	Acrolein	0.44	1.31	ND	1.00	3.01	ND	
75-69-4	Trichlorofluoromethane	0.44	1.09	ND	2.46	6.14	ND	
67-64-1	Acetone	2.18	2.62	8.98	5.20	6.23	21.37	
67-63-0	2-propanol (isopropylalcohol)	0.87	5.46	ND	2.15	13.44	ND	
75-65-0	t-Butyl alcohol	0.44	4.37	ND	1.33	13.25	ND	
4227-95-6	Methyl iodide	0.44	1.31	ND	2.56	7.67	ND	
75-35-4	1,1-Dichloroethene	0.22	1.09	ND	0.87	4.33	ND	
107-13-1	Acrylonitrile	0.87	1.31	ND	1.90	2.85	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.22	1.09	ND	1.68	8.38	ND	
107-05-1	Allyl chloride	0.22	4.37	ND	0.68	13.68	ND	
75-09-2	Methylene chloride	0.22	1.09	ND	0.76	3.80	ND	
75-15-0	Carbon disulfide	0.44	1.09	ND	1.36	3.40	ND	
156-60-5	trans-1,2-Dichloroethene	0.22	0.87	ND	0.87	3.47	ND	
1634-04-4	Methyl tert butyl ether	0.44	0.87	ND	1.58	3.15	ND	
107-12-0	Propionitrile	1.09	1.75	ND	2.46	3.94	ND	
75-34-3	1,1-Dichloroethane	0.22	1.09	ND	0.88	4.43	ND	
637-92-3	Ethyl tert butyl ether	0.44	1.09	ND	1.83	4.57	ND	
108-05-4	Vinyl acetate	0.22	4.37	ND	0.77	15.40	ND	
78-93-3	2-Butanone (MEK)	0.44	1.31	ND	1.29	3.87	ND	
108-20-3	Diisopropyl ether	0.44	2.62	ND	1.83	10.97	ND	
110-54-3	Hexane	0.44	1.09	ND	1.54	3.85	ND	
126-98-7	Methacrylonitrile	0.44	1.09	ND	1.20	3.00	ND	
141-78-6	Ethyl acetate	0.44	1.09	ND	1.58	3.94	ND	
74-97-5	Bromochloromethane	0.22	1.09	ND	1.16	5.79	ND	
96-33-3	Methyl acrylate	0.44	2.18	ND	1.54	7.70	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.22	1.31	0.84	0.65	3.87	2.49	J
78-83-1	Isobutyl alcohol	0.87	3.49	ND	2.65	10.60	ND	
156-59-2	cis-1,2-Dichloroethene	0.22	1.09	ND	0.87	4.33	ND	
594-20-7	2,2-Dichloropropane	0.22	1.09	ND	1.01	5.05	ND	
67-66-3	Chloroform	0.22	1.09	ND	1.07	5.34	ND	
71-55-6	1,1,1-Trichloroethane	0.22	1.09	ND	1.19	5.96	ND	
107-06-2	1,2-Dichloroethane	0.22	1.09	ND	0.89	4.43	ND	
563-58-6	1,1-Dichloropropene	0.22	1.09	ND	0.99	4.96	ND	
110-82-7	Cyclohexane	0.22	1.09	ND	0.75	3.76	ND	
71-43-2	Benzene	1.53	2.18	ND	4.89	6.98	ND	
56-23-5	Carbon tetrachloride	0.22	1.09	ND	1.38	6.88	ND	
994-05-8	t-Amyl methyl ether	0.44	2.18	ND	1.83	9.14	ND	
540-84-1	2,2,4-Trimethylpentane	0.22	1.09	ND	1.02	5.11	ND	
142-82-5	n-Heptane	0.44	1.09	ND	1.79	4.48	ND	
78-87-5	1,2-Dichloropropane	0.22	1.09	ND	1.01	5.05	ND	
123-91-1	1,4 Dioxane	0.44	2.18	ND	1.58	7.88	ND	
74-95-3	Dibromomethane	0.22	1.09	ND	1.55	7.77	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.09	ND	0.59	5.87	ND	
75-27-4	Bromodichloromethane	0.22	1.09	ND	1.46	7.32	ND	
80-62-6	Methyl methacrylate	0.44	1.09	ND	1.79	4.48	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.44	3.49	ND	1.79	14.34	ND	
10061-01-5	cis-1,3-Dichloropropene	0.22	1.09	ND	0.99	4.96	ND	
108-88-3	Toluene	0.87	1.09	ND	3.29	4.12	ND	
10061-02-6	trans-1,3-Dichloropropene	0.22	1.09	ND	0.99	4.96	ND	
79-00-5	1,1,2-Trichloroethane	0.22	1.09	ND	1.19	5.96	ND	
97-63-2	Ethyl methacrylate	0.44	1.09	ND	2.04	5.11	ND	
591-78-6	2-Hexanone	0.44	3.49	ND	1.79	14.34	ND	
142-28-9	1,3-Dichloropropane	0.22	3.06	ND	1.01	14.15	ND	
111-65-9	Octane	0.44	1.09	ND	2.04	5.11	ND	
124-48-1	Dibromochloromethane	0.44	1.09	ND	3.73	9.31	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.44	1.09	ND	3.36	8.40	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.09	ND	0.74	7.41	ND	
108-90-7	Chlorobenzene	0.44	1.09	ND	2.01	5.03	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.44	1.09	ND	3.00	7.50	ND	
100-41-4	Ethylbenzene	0.44	1.09	ND	1.90	4.75	ND	
1330-20-7	m,p-Xylenes	0.44	1.09	2.28	1.90	4.75	9.90	
111-84-2	Nonane	0.44	1.09	0.57	2.29	5.74	3.00	J
100-42-5	Styrene	0.66	1.09	ND	2.80	4.66	ND	
75-25-2	Bromoform	0.44	1.09	ND	4.52	11.30	ND	
95-47-6	o-Xylene	0.44	1.09	0.97	1.90	4.75	4.24	J
79-34-5	1,1,2,2-Tetrachloroethane	0.87	2.18	ND	6.00	15.00	ND	
96-18-4	1,2,3-Trichloropropane	0.87	2.62	ND	5.27	15.82	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.87	2.62	ND	4.47	13.41	ND	
103-65-1	n-Propylbenzene	0.87	3.06	ND	4.30	15.05	ND	
98-82-8	Isopropylbenzene	0.87	3.06	ND	4.30	15.05	ND	
622-96-8	4-Ethyltoluene	0.87	6.99	ND	4.30	34.39	ND	
108-67-8	1,3,5-Trimethylbenzene	0.87	3.93	ND	4.30	19.35	ND	
124-18-5	Decane	0.87	2.62	ND	5.09	15.27	ND	
98-06-6	tert-butyl benzene	0.87	2.62	ND	4.80	14.40	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.87	3.93	ND	4.30	19.35	ND	
538-93-2	i-Butylbenzene	0.87	2.62	ND	4.80	14.40	ND	
135-98-8	sec-butylbenzene	0.87	3.06	ND	4.80	16.80	ND	
541-73-1	1,3-Dichlorobenzene	0.87	3.49	ND	5.26	21.03	ND	
99-87-6	Isopropyltoluene	0.87	2.62	ND	4.80	14.40	ND	
100-44-7	Benzyl chloride	0.87	2.18	ND	4.53	11.32	ND	
106-46-7	1,4-Dichlorobenzene	0.87	2.18	ND	5.26	13.14	ND	
104-51-8	n-Butylbenzene	0.87	2.62	ND	4.80	14.40	ND	
95-50-1	1,2-Dichlorobenzene	0.87	3.06	ND	5.26	18.40	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.31	3.06	ND	12.68	29.58	ND	
120-82-1	1,2,4-Trichlorobenzene	1.31	2.18	ND	9.73	16.22	ND	
91-20-3	Naphthalene	2.18	0.44	ND	11.46	2.29	ND	
87-61-6	1,2,3-Trichlorobenzene	1.31	2.18	ND	9.73	16.22	ND	
87-68-3	Hexachlorobutadiene	1.09	1.31	ND	11.66	13.99	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	94	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 05**

File Name: 2510005A.D
Description: T-105
Canister: 685
QC_Batch: 033125-MA1

Date Sampled: 03/19/25 **Time:** 10:16
Date Analyzed: 03/31/25 **Time:** 17:14
Can Dilution Factor: 1.23
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.41	1.03	0.55	0.71	1.77	0.95	J
75-71-8	Dichlorodifluoromethane	0.62	1.03	ND	3.05	5.08	ND	
67-56-1	Methanol	2.05	2.46	ND	2.69	3.22	ND	
74-87-3	Chloromethane	0.62	1.03	ND	1.27	2.12	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.41	1.03	ND	2.87	7.17	ND	
75-01-4	Vinyl chloride	0.21	1.03	ND	0.53	2.62	ND	
106-99-0	1,3-Butadiene	0.21	1.03	ND	0.46	2.27	ND	
74-83-9	Bromomethane	0.41	1.03	ND	1.59	3.98	ND	
75-00-3	Chloroethane	0.41	1.03	ND	1.08	2.71	ND	
64-17-5	Ethanol	2.05	13.16	ND	3.87	24.85	ND	
107-02-8	Acrolein	0.41	1.23	ND	0.94	2.83	ND	
75-69-4	Trichlorofluoromethane	0.41	1.03	ND	2.31	5.77	ND	
67-64-1	Acetone	2.05	2.46	2.72	4.88	5.85	6.47	
67-63-0	2-propanol (isopropylalcohol)	0.82	5.13	ND	2.02	12.61	ND	
75-65-0	t-Butyl alcohol	0.41	4.10	ND	1.24	12.44	ND	
4227-95-6	Methyl iodide	0.41	1.23	ND	2.40	7.20	ND	
75-35-4	1,1-Dichloroethene	0.21	1.03	ND	0.81	4.07	ND	
107-13-1	Acrylonitrile	0.82	1.23	ND	1.78	2.67	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.03	ND	1.57	7.87	ND	
107-05-1	Allyl chloride	0.21	4.10	ND	0.64	12.85	ND	
75-09-2	Methylene chloride	0.21	1.03	ND	0.71	3.56	ND	
75-15-0	Carbon disulfide	0.41	1.03	ND	1.28	3.19	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.82	ND	0.81	3.25	ND	
1634-04-4	Methyl tert butyl ether	0.41	0.82	ND	1.48	2.96	ND	
107-12-0	Propionitrile	1.03	1.64	ND	2.31	3.70	ND	
75-34-3	1,1-Dichloroethane	0.20	1.03	ND	0.83	4.16	ND	
637-92-3	Ethyl tert butyl ether	0.41	1.03	ND	1.72	4.29	ND	
108-05-4	Vinyl acetate	0.21	4.10	ND	0.72	14.46	ND	
78-93-3	2-Butanone (MEK)	0.41	1.23	ND	1.21	3.63	ND	
108-20-3	Diisopropyl ether	0.41	2.46	ND	1.72	10.30	ND	
110-54-3	Hexane	0.41	1.03	ND	1.45	3.62	ND	
126-98-7	Methacrylonitrile	0.41	1.03	ND	1.13	2.82	ND	
141-78-6	Ethyl acetate	0.41	1.03	ND	1.48	3.70	ND	
74-97-5	Bromochloromethane	0.21	1.03	ND	1.09	5.43	ND	
96-33-3	Methyl acrylate	0.41	2.05	ND	1.45	7.23	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.23	ND	0.61	3.63	ND	
78-83-1	Isobutyl alcohol	0.82	3.28	ND	2.49	9.95	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.03	ND	0.81	4.07	ND	
594-20-7	2,2-Dichloropropane	0.21	1.03	ND	0.95	4.74	ND	
67-66-3	Chloroform	0.21	1.03	ND	1.01	5.01	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.03	ND	1.12	5.60	ND	
107-06-2	1,2-Dichloroethane	0.21	1.03	ND	0.83	4.16	ND	
563-58-6	1,1-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
110-82-7	Cyclohexane	0.21	1.03	ND	0.71	3.53	ND	
71-43-2	Benzene	1.44	2.05	3.62	4.59	6.56	11.59	
56-23-5	Carbon tetrachloride	0.21	1.03	ND	1.29	6.46	ND	
994-05-8	t-Amyl methyl ether	0.41	2.05	ND	1.72	8.58	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.03	ND	0.96	4.79	ND	
142-82-5	n-Heptane	0.41	1.03	ND	1.68	4.21	ND	
78-87-5	1,2-Dichloropropane	0.21	1.03	ND	0.95	4.74	ND	
123-91-1	1,4 Dioxane	0.41	2.05	ND	1.48	7.40	ND	
74-95-3	Dibromomethane	0.21	1.03	ND	1.46	7.30	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.03	ND	0.55	5.52	ND	
75-27-4	Bromodichloromethane	0.21	1.03	ND	1.38	6.88	ND	
80-62-6	Methyl methacrylate	0.41	1.03	ND	1.68	4.20	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.41	3.28	ND	1.68	13.46	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
108-88-3	Toluene	0.82	1.03	1.22	3.09	3.87	4.58	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.03	ND	1.12	5.60	ND	
97-63-2	Ethyl methacrylate	0.41	1.03	ND	1.92	4.79	ND	
591-78-6	2-Hexanone	0.41	3.28	ND	1.68	13.46	ND	
142-28-9	1,3-Dichloropropane	0.21	2.87	ND	0.95	13.28	ND	
111-65-9	Octane	0.41	1.03	ND	1.92	4.79	ND	
124-48-1	Dibromochloromethane	0.41	1.03	ND	3.50	8.74	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.41	1.03	ND	3.16	7.89	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.03	ND	0.70	6.96	ND	
108-90-7	Chlorobenzene	0.41	1.03	ND	1.89	4.73	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.41	1.03	ND	2.82	7.04	ND	
100-41-4	Ethylbenzene	0.41	1.03	0.63	1.78	4.46	2.76	J
1330-20-7	m,p-Xylenes	0.41	1.03	1.13	1.78	4.46	4.93	
111-84-2	Nonane	0.41	1.03	ND	2.15	5.39	ND	
100-42-5	Styrene	0.62	1.03	ND	2.62	4.37	ND	
75-25-2	Bromoform	0.41	1.03	ND	4.24	10.61	ND	
95-47-6	o-Xylene	0.41	1.03	ND	1.78	4.46	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.82	2.05	ND	5.64	14.09	ND	
96-18-4	1,2,3-Trichloropropane	0.82	2.46	ND	4.95	14.85	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.82	2.46	ND	4.20	12.59	ND	
103-65-1	n-Propylbenzene	0.82	2.87	ND	4.04	14.13	ND	
98-82-8	Isopropylbenzene	0.82	2.87	ND	4.04	14.13	ND	
622-96-8	4-Ethyltoluene	0.82	6.56	ND	4.04	32.29	ND	
108-67-8	1,3,5-Trimethylbenzene	0.82	3.69	ND	4.04	18.17	ND	
124-18-5	Decane	0.82	2.46	ND	4.78	14.34	ND	
98-06-6	tert-butyl benzene	0.82	2.46	ND	4.51	13.52	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.82	3.69	ND	4.04	18.17	ND	
538-93-2	i-Butylbenzene	0.82	2.46	ND	4.51	13.52	ND	
135-98-8	sec-butylbenzene	0.82	2.87	ND	4.51	15.77	ND	
541-73-1	1,3-Dichlorobenzene	0.82	3.28	ND	4.94	19.75	ND	
99-87-6	Isopropyltoluene	0.82	2.46	ND	4.51	13.52	ND	
100-44-7	Benzyl chloride	0.82	2.05	ND	4.25	10.63	ND	
106-46-7	1,4-Dichlorobenzene	0.82	2.05	ND	4.94	12.34	ND	
104-51-8	n-Butylbenzene	0.82	2.46	ND	4.51	13.52	ND	
95-50-1	1,2-Dichlorobenzene	0.82	2.87	ND	4.94	17.28	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.23	2.87	ND	11.90	27.77	ND	
120-82-1	1,2,4-Trichlorobenzene	1.23	2.05	ND	9.14	15.23	ND	
91-20-3	Naphthalene	2.05	0.41	ND	10.76	2.15	ND	
87-61-6	1,2,3-Trichlorobenzene	1.23	2.05	ND	9.14	15.23	ND	
87-68-3	Hexachlorobutadiene	1.03	1.23	ND	10.95	13.14	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	97	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 06

File Name: 2510006A.D
Description: T-106
Canister: 621
QC_Batch: 033125-MA1

Date Sampled: 03/19/25 **Time:** 10:22
Date Analyzed: 03/31/25 **Time:** 17:56
Can Dilution Factor: 1.23
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.41	1.03	0.64	0.71	1.77	1.10	J
75-71-8	Dichlorodifluoromethane	0.62	1.03	ND	3.05	5.08	ND	
67-56-1	Methanol	2.05	2.46	ND	2.69	3.22	ND	
74-87-3	Chloromethane	0.62	1.03	ND	1.27	2.12	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.41	1.03	ND	2.87	7.17	ND	
75-01-4	Vinyl chloride	0.21	1.03	ND	0.53	2.62	ND	
106-99-0	1,3-Butadiene	0.21	1.03	ND	0.46	2.27	ND	
74-83-9	Bromomethane	0.41	1.03	ND	1.59	3.98	ND	
75-00-3	Chloroethane	0.41	1.03	ND	1.08	2.71	ND	
64-17-5	Ethanol	2.05	13.16	ND	3.87	24.85	ND	
107-02-8	Acrolein	0.41	1.23	ND	0.94	2.83	ND	
75-69-4	Trichlorofluoromethane	0.41	1.03	ND	2.31	5.77	ND	
67-64-1	Acetone	2.05	2.46	2.70	4.88	5.85	6.42	
67-63-0	2-propanol (isopropylalcohol)	0.82	5.13	ND	2.02	12.61	ND	
75-65-0	t-Butyl alcohol	0.41	4.10	ND	1.24	12.44	ND	
4227-95-6	Methyl iodide	0.41	1.23	ND	2.40	7.20	ND	
75-35-4	1,1-Dichloroethene	0.21	1.03	ND	0.81	4.07	ND	
107-13-1	Acrylonitrile	0.82	1.23	ND	1.78	2.67	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.03	ND	1.57	7.87	ND	
107-05-1	Allyl chloride	0.21	4.10	ND	0.64	12.85	ND	
75-09-2	Methylene chloride	0.21	1.03	ND	0.71	3.56	ND	
75-15-0	Carbon disulfide	0.41	1.03	ND	1.28	3.19	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.82	ND	0.81	3.25	ND	
1634-04-4	Methyl tert butyl ether	0.41	0.82	ND	1.48	2.96	ND	
107-12-0	Propionitrile	1.03	1.64	ND	2.31	3.70	ND	
75-34-3	1,1-Dichloroethane	0.20	1.03	ND	0.83	4.16	ND	
637-92-3	Ethyl tert butyl ether	0.41	1.03	ND	1.72	4.29	ND	
108-05-4	Vinyl acetate	0.21	4.10	ND	0.72	14.46	ND	
78-93-3	2-Butanone (MEK)	0.41	1.23	ND	1.21	3.63	ND	
108-20-3	Diisopropyl ether	0.41	2.46	ND	1.72	10.30	ND	
110-54-3	Hexane	0.41	1.03	ND	1.45	3.62	ND	
126-98-7	Methacrylonitrile	0.41	1.03	ND	1.13	2.82	ND	
141-78-6	Ethyl acetate	0.41	1.03	ND	1.48	3.70	ND	
74-97-5	Bromochloromethane	0.21	1.03	ND	1.09	5.43	ND	
96-33-3	Methyl acrylate	0.41	2.05	ND	1.45	7.23	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.23	0.53	0.61	3.63	1.55	J
78-83-1	Isobutyl alcohol	0.82	3.28	ND	2.49	9.95	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.03	ND	0.81	4.07	ND	
594-20-7	2,2-Dichloropropane	0.21	1.03	ND	0.95	4.74	ND	
67-66-3	Chloroform	0.21	1.03	ND	1.01	5.01	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.03	ND	1.12	5.60	ND	
107-06-2	1,2-Dichloroethane	0.21	1.03	ND	0.83	4.16	ND	
563-58-6	1,1-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
110-82-7	Cyclohexane	0.21	1.03	ND	0.71	3.53	ND	
71-43-2	Benzene	1.44	2.05	1.90	4.59	6.56	6.06	J
56-23-5	Carbon tetrachloride	0.21	1.03	ND	1.29	6.46	ND	
994-05-8	t-Amyl methyl ether	0.41	2.05	ND	1.72	8.58	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.03	ND	0.96	4.79	ND	
142-82-5	n-Heptane	0.41	1.03	ND	1.68	4.21	ND	
78-87-5	1,2-Dichloropropane	0.21	1.03	ND	0.95	4.74	ND	
123-91-1	1,4 Dioxane	0.41	2.05	ND	1.48	7.40	ND	
74-95-3	Dibromomethane	0.21	1.03	ND	1.46	7.30	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.03	ND	0.55	5.52	ND	
75-27-4	Bromodichloromethane	0.21	1.03	ND	1.38	6.88	ND	
80-62-6	Methyl methacrylate	0.41	1.03	ND	1.68	4.20	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.41	3.28	ND	1.68	13.46	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
108-88-3	Toluene	0.82	1.03	ND	3.09	3.87	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.03	ND	1.12	5.60	ND	
97-63-2	Ethyl methacrylate	0.41	1.03	ND	1.92	4.79	ND	
591-78-6	2-Hexanone	0.41	3.28	ND	1.68	13.46	ND	
142-28-9	1,3-Dichloropropane	0.21	2.87	ND	0.95	13.28	ND	
111-65-9	Octane	0.41	1.03	ND	1.92	4.79	ND	
124-48-1	Dibromochloromethane	0.41	1.03	ND	3.50	8.74	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.41	1.03	ND	3.16	7.89	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.03	ND	0.70	6.96	ND	
108-90-7	Chlorobenzene	0.41	1.03	ND	1.89	4.73	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.41	1.03	ND	2.82	7.04	ND	
100-41-4	Ethylbenzene	0.41	1.03	ND	1.78	4.46	ND	
1330-20-7	m,p-Xylenes	0.41	1.03	ND	1.78	4.46	ND	
111-84-2	Nonane	0.41	1.03	ND	2.15	5.39	ND	
100-42-5	Styrene	0.62	1.03	ND	2.62	4.37	ND	
75-25-2	Bromoform	0.41	1.03	ND	4.24	10.61	ND	
95-47-6	o-Xylene	0.41	1.03	ND	1.78	4.46	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.82	2.05	ND	5.64	14.09	ND	
96-18-4	1,2,3-Trichloropropane	0.82	2.46	ND	4.95	14.85	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.82	2.46	ND	4.20	12.59	ND	
103-65-1	n-Propylbenzene	0.82	2.87	ND	4.04	14.13	ND	
98-82-8	Isopropylbenzene	0.82	2.87	ND	4.04	14.13	ND	
622-96-8	4-Ethyltoluene	0.82	6.56	ND	4.04	32.29	ND	
108-67-8	1,3,5-Trimethylbenzene	0.82	3.69	ND	4.04	18.17	ND	
124-18-5	Decane	0.82	2.46	ND	4.78	14.34	ND	
98-06-6	tert-butyl benzene	0.82	2.46	ND	4.51	13.52	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.82	3.69	ND	4.04	18.17	ND	
538-93-2	i-Butylbenzene	0.82	2.46	ND	4.51	13.52	ND	
135-98-8	sec-butylbenzene	0.82	2.87	ND	4.51	15.77	ND	
541-73-1	1,3-Dichlorobenzene	0.82	3.28	ND	4.94	19.75	ND	
99-87-6	Isopropyltoluene	0.82	2.46	ND	4.51	13.52	ND	
100-44-7	Benzyl chloride	0.82	2.05	ND	4.25	10.63	ND	
106-46-7	1,4-Dichlorobenzene	0.82	2.05	ND	4.94	12.34	ND	
104-51-8	n-Butylbenzene	0.82	2.46	ND	4.51	13.52	ND	
95-50-1	1,2-Dichlorobenzene	0.82	2.87	ND	4.94	17.28	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.23	2.87	ND	11.90	27.77	ND	
120-82-1	1,2,4-Trichlorobenzene	1.23	2.05	ND	9.14	15.23	ND	
91-20-3	Naphthalene	2.05	0.41	ND	10.76	2.15	ND	
87-61-6	1,2,3-Trichlorobenzene	1.23	2.05	ND	9.14	15.23	ND	
87-68-3	Hexachlorobutadiene	1.03	1.23	ND	10.95	13.14	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	96	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 07**

File Name: 2510007A.D **Date Sampled:** 03/19/25 **Time:** 10:22
Description: T-107 **Date Analyzed:** 03/31/25 **Time:** 18:34
Canister: 644 **Can Dilution Factor:** 1.23
QC_Batch: 033125-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.41	1.03	0.60	0.71	1.77	1.04	J
75-71-8	Dichlorodifluoromethane	0.62	1.03	ND	3.05	5.08	ND	
67-56-1	Methanol	2.05	2.46	ND	2.69	3.22	ND	
74-87-3	Chloromethane	0.62	1.03	ND	1.27	2.12	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.41	1.03	ND	2.87	7.17	ND	
75-01-4	Vinyl chloride	0.21	1.03	ND	0.53	2.62	ND	
106-99-0	1,3-Butadiene	0.21	1.03	ND	0.46	2.27	ND	
74-83-9	Bromomethane	0.41	1.03	ND	1.59	3.98	ND	
75-00-3	Chloroethane	0.41	1.03	ND	1.08	2.71	ND	
64-17-5	Ethanol	2.05	13.16	ND	3.87	24.85	ND	
107-02-8	Acrolein	0.41	1.23	ND	0.94	2.83	ND	
75-69-4	Trichlorofluoromethane	0.41	1.03	ND	2.31	5.77	ND	
67-64-1	Acetone	2.05	2.46	2.05	4.88	5.85	4.88	J
67-63-0	2-propanol (isopropylalcohol)	0.82	5.13	ND	2.02	12.61	ND	
75-65-0	t-Butyl alcohol	0.41	4.10	ND	1.24	12.44	ND	
4227-95-6	Methyl iodide	0.41	1.23	ND	2.40	7.20	ND	
75-35-4	1,1-Dichloroethene	0.21	1.03	ND	0.81	4.07	ND	
107-13-1	Acrylonitrile	0.82	1.23	ND	1.78	2.67	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.03	ND	1.57	7.87	ND	
107-05-1	Allyl chloride	0.21	4.10	ND	0.64	12.85	ND	
75-09-2	Methylene chloride	0.21	1.03	ND	0.71	3.56	ND	
75-15-0	Carbon disulfide	0.41	1.03	ND	1.28	3.19	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.82	ND	0.81	3.25	ND	
1634-04-4	Methyl tert butyl ether	0.41	0.82	ND	1.48	2.96	ND	
107-12-0	Propionitrile	1.03	1.64	ND	2.31	3.70	ND	
75-34-3	1,1-Dichloroethane	0.20	1.03	ND	0.83	4.16	ND	
637-92-3	Ethyl tert butyl ether	0.41	1.03	ND	1.72	4.29	ND	
108-05-4	Vinyl acetate	0.21	4.10	ND	0.72	14.46	ND	
78-93-3	2-Butanone (MEK)	0.41	1.23	ND	1.21	3.63	ND	
108-20-3	Diisopropyl ether	0.41	2.46	ND	1.72	10.30	ND	
110-54-3	Hexane	0.41	1.03	ND	1.45	3.62	ND	
126-98-7	Methacrylonitrile	0.41	1.03	ND	1.13	2.82	ND	
141-78-6	Ethyl acetate	0.41	1.03	ND	1.48	3.70	ND	
74-97-5	Bromochloromethane	0.21	1.03	ND	1.09	5.43	ND	
96-33-3	Methyl acrylate	0.41	2.05	ND	1.45	7.23	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.23	ND	0.61	3.63	ND	
78-83-1	Isobutyl alcohol	0.82	3.28	ND	2.49	9.95	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.03	ND	0.81	4.07	ND	
594-20-7	2,2-Dichloropropane	0.21	1.03	ND	0.95	4.74	ND	
67-66-3	Chloroform	0.21	1.03	ND	1.01	5.01	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.03	ND	1.12	5.60	ND	
107-06-2	1,2-Dichloroethane	0.21	1.03	ND	0.83	4.16	ND	
563-58-6	1,1-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
110-82-7	Cyclohexane	0.21	1.03	ND	0.71	3.53	ND	
71-43-2	Benzene	1.44	2.05	2.92	4.59	6.56	9.35	
56-23-5	Carbon tetrachloride	0.21	1.03	ND	1.29	6.46	ND	
994-05-8	t-Amyl methyl ether	0.41	2.05	ND	1.72	8.58	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.03	ND	0.96	4.79	ND	
142-82-5	n-Heptane	0.41	1.03	ND	1.68	4.21	ND	
78-87-5	1,2-Dichloropropane	0.21	1.03	ND	0.95	4.74	ND	
123-91-1	1,4 Dioxane	0.41	2.05	ND	1.48	7.40	ND	
74-95-3	Dibromomethane	0.21	1.03	ND	1.46	7.30	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.03	ND	0.55	5.52	ND	
75-27-4	Bromodichloromethane	0.21	1.03	ND	1.38	6.88	ND	
80-62-6	Methyl methacrylate	0.41	1.03	ND	1.68	4.20	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.41	3.28	ND	1.68	13.46	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
108-88-3	Toluene	0.82	1.03	ND	3.09	3.87	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.03	ND	1.12	5.60	ND	
97-63-2	Ethyl methacrylate	0.41	1.03	ND	1.92	4.79	ND	
591-78-6	2-Hexanone	0.41	3.28	ND	1.68	13.46	ND	
142-28-9	1,3-Dichloropropane	0.21	2.87	ND	0.95	13.28	ND	
111-65-9	Octane	0.41	1.03	ND	1.92	4.79	ND	
124-48-1	Dibromochloromethane	0.41	1.03	ND	3.50	8.74	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.41	1.03	ND	3.16	7.89	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.03	ND	0.70	6.96	ND	
108-90-7	Chlorobenzene	0.41	1.03	ND	1.89	4.73	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.41	1.03	ND	2.82	7.04	ND	
100-41-4	Ethylbenzene	0.41	1.03	ND	1.78	4.46	ND	
1330-20-7	m,p-Xylenes	0.41	1.03	0.59	1.78	4.46	2.57	J
111-84-2	Nonane	0.41	1.03	ND	2.15	5.39	ND	
100-42-5	Styrene	0.62	1.03	ND	2.62	4.37	ND	
75-25-2	Bromoform	0.41	1.03	ND	4.24	10.61	ND	
95-47-6	o-Xylene	0.41	1.03	ND	1.78	4.46	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.82	2.05	ND	5.64	14.09	ND	
96-18-4	1,2,3-Trichloropropane	0.82	2.46	ND	4.95	14.85	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.82	2.46	ND	4.20	12.59	ND	
103-65-1	n-Propylbenzene	0.82	2.87	ND	4.04	14.13	ND	
98-82-8	Isopropylbenzene	0.82	2.87	ND	4.04	14.13	ND	
622-96-8	4-Ethyltoluene	0.82	6.56	ND	4.04	32.29	ND	
108-67-8	1,3,5-Trimethylbenzene	0.82	3.69	ND	4.04	18.17	ND	
124-18-5	Decane	0.82	2.46	ND	4.78	14.34	ND	
98-06-6	tert-butyl benzene	0.82	2.46	ND	4.51	13.52	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.82	3.69	ND	4.04	18.17	ND	
538-93-2	i-Butylbenzene	0.82	2.46	ND	4.51	13.52	ND	
135-98-8	sec-butylbenzene	0.82	2.87	ND	4.51	15.77	ND	
541-73-1	1,3-Dichlorobenzene	0.82	3.28	ND	4.94	19.75	ND	
99-87-6	Isopropyltoluene	0.82	2.46	ND	4.51	13.52	ND	
100-44-7	Benzyl chloride	0.82	2.05	ND	4.25	10.63	ND	
106-46-7	1,4-Dichlorobenzene	0.82	2.05	ND	4.94	12.34	ND	
104-51-8	n-Butylbenzene	0.82	2.46	ND	4.51	13.52	ND	
95-50-1	1,2-Dichlorobenzene	0.82	2.87	ND	4.94	17.28	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.23	2.87	ND	11.90	27.77	ND	
120-82-1	1,2,4-Trichlorobenzene	1.23	2.05	ND	9.14	15.23	ND	
91-20-3	Naphthalene	2.05	0.41	ND	10.76	2.15	ND	
87-61-6	1,2,3-Trichlorobenzene	1.23	2.05	ND	9.14	15.23	ND	
87-68-3	Hexachlorobutadiene	1.03	1.23	ND	10.95	13.14	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	96	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 08**

File Name: 2510008A.D **Date Sampled:** 03/19/25 **Time:** 10:30
Description: T-108 **Date Analyzed:** 04/04/25 **Time:** 12:29
Canister: 556 **Can Dilution Factor:** 1.26
QC_Batch: 040425-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.05	92.30	0.72	1.81	159.06	
75-71-8	Dichlorodifluoromethane	0.63	1.05	ND	3.12	5.20	ND	
67-56-1	Methanol	2.10	2.52	2.90	2.75	3.30	3.79	
74-87-3	Chloromethane	0.63	1.05	ND	1.30	2.17	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.05	ND	2.94	7.35	ND	
75-01-4	Vinyl chloride	0.21	1.05	ND	0.54	2.69	ND	
106-99-0	1,3-Butadiene	0.21	1.05	ND	0.47	2.33	ND	
74-83-9	Bromomethane	0.42	1.05	ND	1.63	4.08	ND	
75-00-3	Chloroethane	0.42	1.05	ND	1.11	2.77	ND	
64-17-5	Ethanol	2.10	13.48	ND	3.96	25.45	ND	
107-02-8	Acrolein	0.42	1.26	ND	0.96	2.89	ND	
75-69-4	Trichlorofluoromethane	0.42	1.05	ND	2.36	5.91	ND	
67-64-1	Acetone	2.10	2.52	19.47	5.00	6.00	46.33	
67-63-0	2-propanol (isopropylalcohol)	0.84	5.25	ND	2.07	12.92	ND	
75-65-0	t-Butyl alcohol	0.42	4.20	ND	1.27	12.75	ND	
4227-95-6	Methyl iodide	0.42	1.26	ND	2.46	7.37	ND	
75-35-4	1,1-Dichloroethene	0.21	1.05	ND	0.83	4.17	ND	
107-13-1	Acrylonitrile	0.84	1.26	ND	1.83	2.74	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.05	ND	1.61	8.06	ND	
107-05-1	Allyl chloride	0.21	4.20	ND	0.66	13.16	ND	
75-09-2	Methylene chloride	0.21	1.05	ND	0.73	3.65	ND	
75-15-0	Carbon disulfide	0.42	1.05	ND	1.31	3.27	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.84	ND	0.83	3.33	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.84	ND	1.52	3.03	ND	
107-12-0	Propionitrile	1.05	1.68	ND	2.37	3.79	ND	
75-34-3	1,1-Dichloroethane	0.21	1.05	ND	0.85	4.26	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.05	ND	1.76	4.39	ND	
108-05-4	Vinyl acetate	0.21	4.20	ND	0.74	14.81	ND	
78-93-3	2-Butanone (MEK)	0.42	1.26	ND	1.24	3.72	ND	
108-20-3	Diisopropyl ether	0.42	2.52	ND	1.76	10.55	ND	
110-54-3	Hexane	0.42	1.05	28.72	1.48	3.71	101.39	
126-98-7	Methacrylonitrile	0.42	1.05	ND	1.15	2.89	ND	
141-78-6	Ethyl acetate	0.42	1.05	ND	1.52	3.79	ND	
74-97-5	Bromochloromethane	0.21	1.05	ND	1.11	5.56	ND	
96-33-3	Methyl acrylate	0.42	2.10	ND	1.48	7.41	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
78-83-1	Isobutyl alcohol	0.84	3.36	ND	2.55	10.20	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.05	ND	0.83	4.17	ND	
594-20-7	2,2-Dichloropropane	0.21	1.05	ND	0.97	4.86	ND	
67-66-3	Chloroform	0.21	1.05	ND	1.03	5.13	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.05	ND	1.15	5.74	ND	
107-06-2	1,2-Dichloroethane	0.21	1.05	ND	0.85	4.26	ND	
563-58-6	1,1-Dichloropropene	0.21	1.05	ND	0.95	4.77	ND	
110-82-7	Cyclohexane	0.21	1.05	ND	0.72	3.62	ND	
56-23-5	Carbon tetrachloride	0.21	1.05	ND	1.32	6.61	ND	
994-05-8	t-Amyl methyl ether	0.42	2.10	ND	1.76	8.79	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.05	72.81	0.98	4.91	340.53	
142-82-5	n-Heptane	0.42	1.05	146.36	1.72	4.31	600.61	
78-87-5	1,2-Dichloropropane	0.21	1.05	ND	0.97	4.86	ND	
123-91-1	1,4 Dioxane	0.42	2.10	ND	1.52	7.58	ND	
74-95-3	Dibromomethane	0.21	1.05	ND	1.50	7.48	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.05	ND	0.57	5.65	ND	
75-27-4	Bromodichloromethane	0.21	1.05	ND	1.41	7.04	ND	
80-62-6	Methyl methacrylate	0.42	1.05	ND	1.72	4.30	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.36	ND	1.72	13.79	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.05	ND	0.95	4.77	ND	
108-88-3	Toluene	0.84	1.05	173.51	3.17	3.96	654.46	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.05	ND	0.95	4.77	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.05	ND	1.15	5.74	ND	
97-63-2	Ethyl methacrylate	0.42	1.05	ND	1.96	4.91	ND	
591-78-6	2-Hexanone	0.42	3.36	ND	1.72	13.79	ND	
142-28-9	1,3-Dichloropropane	0.21	2.94	ND	0.97	13.61	ND	
111-65-9	Octane	0.42	1.05	3.80	1.96	4.91	17.77	
124-48-1	Dibromochloromethane	0.42	1.05	ND	3.58	8.96	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.05	ND	3.23	8.08	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.05	16.28	0.71	7.13	110.57	
108-90-7	Chlorobenzene	0.42	1.05	ND	1.94	4.84	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.05	ND	2.89	7.22	ND	
100-41-4	Ethylbenzene	0.42	1.05	165.94	1.83	4.57	721.72	
1330-20-7	m,p-Xylenes	0.42	1.05	145.92	1.83	4.57	634.67	
111-84-2	Nonane	0.42	1.05	35.43	2.21	5.52	186.18	
100-42-5	Styrene	0.63	1.05	0.86	2.69	4.48	3.65	J
75-25-2	Bromoform	0.42	1.05	ND	4.35	10.87	ND	
95-47-6	o-Xylene	0.42	1.05	48.65	1.83	4.57	211.58	
79-34-5	1,1,2,2-Tetrachloroethane	0.84	2.10	ND	5.77	14.43	ND	
96-18-4	1,2,3-Trichloropropane	0.84	2.52	ND	5.07	15.21	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.84	2.52	ND	4.30	12.90	ND	
103-65-1	n-Propylbenzene	0.84	2.94	ND	4.14	14.47	ND	
98-82-8	Isopropylbenzene	0.84	2.94	ND	4.14	14.47	ND	
622-96-8	4-Ethyltoluene	0.84	6.72	1.48	4.14	33.08	7.28	J
108-67-8	1,3,5-Trimethylbenzene	0.84	3.78	ND	4.14	18.61	ND	
124-18-5	Decane	0.84	2.52	ND	4.90	14.69	ND	
98-06-6	tert-butyl benzene	0.84	2.52	ND	4.62	13.85	ND	
95-63-6	1,2,4-Trimethylbenzene	0.84	3.78	0.90	4.14	18.61	4.41	J
538-93-2	i-Butylbenzene	0.84	2.52	ND	4.62	13.85	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
135-98-8	sec-butylbenzene	0.84	2.94	ND	4.62	16.16	ND	
541-73-1	1,3-Dichlorobenzene	0.84	3.36	ND	5.06	20.23	ND	
99-87-6	Isopropyltoluene	0.84	2.52	ND	4.62	13.85	ND	
100-44-7	Benzyl chloride	0.84	2.10	ND	4.36	10.89	ND	
106-46-7	1,4-Dichlorobenzene	0.84	2.10	ND	5.06	12.64	ND	
104-51-8	n-Butylbenzene	0.84	2.52	ND	4.62	13.85	ND	
95-50-1	1,2-Dichlorobenzene	0.84	2.94	ND	5.06	17.70	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.26	2.94	ND	12.19	28.45	ND	
120-82-1	1,2,4-Trichlorobenzene	1.26	2.10	ND	9.36	15.60	ND	
91-20-3	Naphthalene	2.10	0.42	ND	11.03	2.21	ND	
87-61-6	1,2,3-Trichlorobenzene	1.26	2.10	ND	9.36	15.60	ND	
87-68-3	Hexachlorobutadiene	1.05	1.26	ND	11.22	13.46	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	QC Limits UCL	Flag
2037-26-5	Toluene-d8	56	70	130	Q

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 08**

File Name:	2510008B.D	**Date Sampled:**	03/19/25	**Time:**	10:30
Description:	T-108	**Date Analyzed:**	04/04/25	**Time:**	13:16
Canister:	556	**Can Dilution Factor:**	1.26		
QC_Batch:	040425-MA1	**Air Volume:**	5 ml		

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	12.7	75.6	4,801.5	37.4	223.2	14,178.1	
71-43-2	Benzene	88.2	126.0	10,111.6	282.1	403.0	32,342.9	

	Surrogate Recovery	% Rec.	QC Limits LCL	QC Limits UCL	Flag
2037-26-5	Toluene-d8	98	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 09

File Name: 2510009A.D
Description: T-109
Canister: 694
QC_Batch: 040125-MA1

Date Sampled: 03/19/25 **Time:** 11:25
Date Analyzed: 04/01/25 **Time:** 14:57
Can Dilution Factor: 1.30
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.43	1.08	1.70	0.75	1.87	2.93	
75-71-8	Dichlorodifluoromethane	0.65	1.08	ND	3.22	5.36	ND	
67-56-1	Methanol	2.17	2.60	ND	2.84	3.41	ND	
74-87-3	Chloromethane	0.65	1.08	ND	1.34	2.24	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.43	1.08	ND	3.03	7.58	ND	
75-01-4	Vinyl chloride	0.22	1.08	ND	0.56	2.77	ND	
106-99-0	1,3-Butadiene	0.22	1.08	ND	0.48	2.40	ND	
74-83-9	Bromomethane	0.43	1.08	ND	1.68	4.21	ND	
75-00-3	Chloroethane	0.43	1.08	ND	1.14	2.86	ND	
64-17-5	Ethanol	2.17	13.91	ND	4.09	26.26	ND	
107-02-8	Acrolein	0.43	1.30	ND	1.00	2.99	ND	
75-69-4	Trichlorofluoromethane	0.43	1.08	ND	2.44	6.10	ND	
67-64-1	Acetone	2.17	2.60	4.25	5.16	6.19	10.10	
67-63-0	2-propanol (isopropylalcohol)	0.87	5.42	1.21	2.13	13.33	2.98	J
75-65-0	t-Butyl alcohol	0.43	4.33	ND	1.32	13.15	ND	
4227-95-6	Methyl iodide	0.43	1.30	ND	2.54	7.61	ND	
75-35-4	1,1-Dichloroethene	0.22	1.08	ND	0.86	4.30	ND	
107-13-1	Acrylonitrile	0.87	1.30	ND	1.88	2.83	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.22	1.08	ND	1.66	8.31	ND	
107-05-1	Allyl chloride	0.22	4.33	ND	0.68	13.58	ND	
75-09-2	Methylene chloride	0.22	1.08	ND	0.75	3.77	ND	
75-15-0	Carbon disulfide	0.43	1.08	ND	1.35	3.38	ND	
156-60-5	trans-1,2-Dichloroethene	0.22	0.87	ND	0.86	3.44	ND	
1634-04-4	Methyl tert butyl ether	0.43	0.87	ND	1.56	3.13	ND	
107-12-0	Propionitrile	1.08	1.73	ND	2.44	3.91	ND	
75-34-3	1,1-Dichloroethane	0.22	1.08	ND	0.88	4.39	ND	
637-92-3	Ethyl tert butyl ether	0.43	1.08	ND	1.81	4.53	ND	
108-05-4	Vinyl acetate	0.22	4.33	ND	0.76	15.28	ND	
78-93-3	2-Butanone (MEK)	0.43	1.30	1.73	1.28	3.84	5.11	
108-20-3	Diisopropyl ether	0.43	2.60	ND	1.81	10.88	ND	
110-54-3	Hexane	0.43	1.08	ND	1.53	3.82	ND	
126-98-7	Methacrylonitrile	0.43	1.08	ND	1.19	2.98	ND	
141-78-6	Ethyl acetate	0.43	1.08	ND	1.56	3.91	ND	
74-97-5	Bromochloromethane	0.22	1.08	ND	1.15	5.74	ND	
96-33-3	Methyl acrylate	0.43	2.17	ND	1.53	7.64	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.22	1.30	5.96	0.64	3.84	17.59	
78-83-1	Isobutyl alcohol	0.87	3.47	ND	2.63	10.52	ND	
156-59-2	cis-1,2-Dichloroethene	0.22	1.08	ND	0.86	4.30	ND	
594-20-7	2,2-Dichloropropane	0.22	1.08	ND	1.00	5.01	ND	
67-66-3	Chloroform	0.22	1.08	ND	1.06	5.30	ND	
71-55-6	1,1,1-Trichloroethane	0.22	1.08	ND	1.18	5.92	ND	
107-06-2	1,2-Dichloroethane	0.22	1.08	ND	0.88	4.39	ND	
563-58-6	1,1-Dichloropropene	0.22	1.08	ND	0.98	4.92	ND	
110-82-7	Cyclohexane	0.22	1.08	ND	0.75	3.74	ND	
71-43-2	Benzene	1.52	2.17	20.44	4.85	6.93	65.39	
56-23-5	Carbon tetrachloride	0.22	1.08	ND	1.36	6.82	ND	
994-05-8	t-Amyl methyl ether	0.43	2.17	ND	1.81	9.07	ND	
540-84-1	2,2,4-Trimethylpentane	0.22	1.08	ND	1.01	5.07	ND	
142-82-5	n-Heptane	0.43	1.08	ND	1.78	4.45	ND	
78-87-5	1,2-Dichloropropane	0.22	1.08	ND	1.00	5.01	ND	
123-91-1	1,4 Dioxane	0.43	2.17	ND	1.56	7.82	ND	
74-95-3	Dibromomethane	0.22	1.08	ND	1.54	7.71	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.08	ND	0.58	5.83	ND	
75-27-4	Bromodichloromethane	0.22	1.08	ND	1.45	7.27	ND	
80-62-6	Methyl methacrylate	0.43	1.08	ND	1.78	4.44	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.43	3.47	ND	1.78	14.23	ND	
10061-01-5	cis-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.92	ND	
108-88-3	Toluene	0.87	1.08	4.02	3.27	4.09	15.16	
10061-02-6	trans-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.92	ND	
79-00-5	1,1,2-Trichloroethane	0.22	1.08	ND	1.18	5.92	ND	
97-63-2	Ethyl methacrylate	0.43	1.08	ND	2.03	5.07	ND	
591-78-6	2-Hexanone	0.43	3.47	ND	1.78	14.23	ND	
142-28-9	1,3-Dichloropropane	0.22	3.03	ND	1.00	14.04	ND	
111-65-9	Octane	0.43	1.08	ND	2.03	5.07	ND	
124-48-1	Dibromochloromethane	0.43	1.08	ND	3.70	9.24	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.43	1.08	ND	3.33	8.34	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.08	0.14	0.74	7.36	0.94	J
108-90-7	Chlorobenzene	0.43	1.08	ND	2.00	5.00	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.43	1.08	ND	2.98	7.44	ND	
100-41-4	Ethylbenzene	0.43	1.08	2.86	1.88	4.71	12.43	
1330-20-7	m,p-Xylenes	0.43	1.08	3.85	1.88	4.71	16.76	
111-84-2	Nonane	0.43	1.08	2.07	2.28	5.69	10.87	
100-42-5	Styrene	0.65	1.08	ND	2.77	4.62	ND	
75-25-2	Bromoform	0.43	1.08	ND	4.48	11.21	ND	
95-47-6	o-Xylene	0.43	1.08	1.23	1.88	4.71	5.34	
79-34-5	1,1,2,2-Tetrachloroethane	0.87	2.17	ND	5.96	14.89	ND	
96-18-4	1,2,3-Trichloropropane	0.87	2.60	ND	5.23	15.70	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.87	2.60	ND	4.44	13.31	ND	
103-65-1	n-Propylbenzene	0.87	3.03	ND	4.27	14.93	ND	
98-82-8	Isopropylbenzene	0.87	3.03	ND	4.27	14.93	ND	
622-96-8	4-Ethyltoluene	0.87	6.93	ND	4.27	34.13	ND	
108-67-8	1,3,5-Trimethylbenzene	0.87	3.90	ND	4.27	19.20	ND	
124-18-5	Decane	0.87	2.60	1.06	5.05	15.15	6.16	J
98-06-6	tert-butyl benzene	0.87	2.60	ND	4.76	14.29	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.87	3.90	ND	4.27	19.20	ND	
538-93-2	i-Butylbenzene	0.87	2.60	ND	4.76	14.29	ND	
135-98-8	sec-butylbenzene	0.87	3.03	ND	4.76	16.67	ND	
541-73-1	1,3-Dichlorobenzene	0.87	3.47	ND	5.22	20.87	ND	
99-87-6	Isopropyltoluene	0.87	2.60	4.09	4.76	14.29	22.48	
100-44-7	Benzyl chloride	0.87	2.17	ND	4.49	11.23	ND	
106-46-7	1,4-Dichlorobenzene	0.87	2.17	ND	5.22	13.04	ND	
104-51-8	n-Butylbenzene	0.87	2.60	ND	4.76	14.29	ND	
95-50-1	1,2-Dichlorobenzene	0.87	3.03	ND	5.22	18.26	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.30	3.03	ND	12.58	29.36	ND	
120-82-1	1,2,4-Trichlorobenzene	1.30	2.17	ND	9.66	16.10	ND	
91-20-3	Naphthalene	2.17	0.43	ND	11.38	2.28	ND	
87-61-6	1,2,3-Trichlorobenzene	1.30	2.17	ND	9.66	16.10	ND	
87-68-3	Hexachlorobutadiene	1.08	1.30	ND	11.57	13.89	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	105	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 10**

File Name: 2510010A.D
Description: T-110
Canister: 857
QC_Batch: 033125-MA1

Date Sampled: 03/19/25 **Time:** 11:32
Date Analyzed: 03/31/25 **Time:** 19:15
Can Dilution Factor: 1.27
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.06	1.73	0.73	1.82	2.99	
75-71-8	Dichlorodifluoromethane	0.64	1.06	ND	3.14	5.24	ND	
67-56-1	Methanol	2.12	2.54	ND	2.77	3.33	ND	
74-87-3	Chloromethane	0.64	1.06	ND	1.31	2.19	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.06	ND	2.96	7.41	ND	
75-01-4	Vinyl chloride	0.21	1.06	ND	0.55	2.71	ND	
106-99-0	1,3-Butadiene	0.21	1.06	ND	0.47	2.34	ND	
74-83-9	Bromomethane	0.42	1.06	ND	1.65	4.11	ND	
75-00-3	Chloroethane	0.42	1.06	ND	1.12	2.80	ND	
64-17-5	Ethanol	2.12	13.59	ND	4.00	25.66	ND	
107-02-8	Acrolein	0.42	1.27	ND	0.97	2.92	ND	
75-69-4	Trichlorofluoromethane	0.42	1.06	ND	2.38	5.96	ND	
67-64-1	Acetone	2.12	2.54	4.93	5.04	6.04	11.73	
67-63-0	2-propanol (isopropylalcohol)	0.85	5.29	ND	2.08	13.02	ND	
75-65-0	t-Butyl alcohol	0.42	4.23	ND	1.28	12.85	ND	
4227-95-6	Methyl iodide	0.42	1.27	ND	2.48	7.43	ND	
75-35-4	1,1-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
107-13-1	Acrylonitrile	0.85	1.27	ND	1.84	2.76	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.06	ND	1.62	8.12	ND	
107-05-1	Allyl chloride	0.21	4.23	ND	0.66	13.26	ND	
75-09-2	Methylene chloride	0.21	1.06	ND	0.74	3.68	ND	
75-15-0	Carbon disulfide	0.42	1.06	ND	1.32	3.30	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.85	ND	0.84	3.36	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.85	ND	1.53	3.05	ND	
107-12-0	Propionitrile	1.06	1.69	ND	2.39	3.82	ND	
75-34-3	1,1-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.06	ND	1.77	4.43	ND	
108-05-4	Vinyl acetate	0.21	4.23	ND	0.75	14.93	ND	
78-93-3	2-Butanone (MEK)	0.42	1.27	1.68	1.25	3.75	4.95	
108-20-3	Diisopropyl ether	0.42	2.54	ND	1.77	10.63	ND	
110-54-3	Hexane	0.42	1.06	ND	1.49	3.74	ND	
126-98-7	Methacrylonitrile	0.42	1.06	ND	1.16	2.91	ND	
141-78-6	Ethyl acetate	0.42	1.06	ND	1.53	3.82	ND	
74-97-5	Bromochloromethane	0.21	1.06	ND	1.12	5.61	ND	
96-33-3	Methyl acrylate	0.42	2.12	ND	1.49	7.46	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.27	6.07	0.63	3.75	17.93	
78-83-1	Isobutyl alcohol	0.85	3.39	ND	2.57	10.28	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
594-20-7	2,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
67-66-3	Chloroform	0.21	1.06	ND	1.04	5.18	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
107-06-2	1,2-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
563-58-6	1,1-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
110-82-7	Cyclohexane	0.21	1.06	ND	0.73	3.65	ND	
71-43-2	Benzene	1.48	2.12	26.98	4.74	6.77	86.29	
56-23-5	Carbon tetrachloride	0.21	1.06	ND	1.33	6.67	ND	
994-05-8	t-Amyl methyl ether	0.42	2.12	ND	1.77	8.86	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.06	ND	0.99	4.95	ND	
142-82-5	n-Heptane	0.42	1.06	0.61	1.74	4.34	2.51	J
78-87-5	1,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
123-91-1	1,4 Dioxane	0.42	2.12	ND	1.53	7.64	ND	
74-95-3	Dibromomethane	0.21	1.06	ND	1.51	7.53	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.06	ND	0.57	5.70	ND	
75-27-4	Bromodichloromethane	0.21	1.06	ND	1.42	7.10	ND	
80-62-6	Methyl methacrylate	0.42	1.06	ND	1.74	4.34	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.39	ND	1.74	13.90	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
108-88-3	Toluene	0.85	1.06	6.65	3.19	3.99	25.09	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
97-63-2	Ethyl methacrylate	0.42	1.06	ND	1.98	4.95	ND	
591-78-6	2-Hexanone	0.42	3.39	ND	1.74	13.90	ND	
142-28-9	1,3-Dichloropropane	0.21	2.96	ND	0.98	13.71	ND	
111-65-9	Octane	0.42	1.06	1.86	1.98	4.95	8.72	
124-48-1	Dibromochloromethane	0.42	1.06	ND	3.61	9.03	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.06	ND	3.26	8.14	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.06	0.33	0.72	7.19	2.23	J
108-90-7	Chlorobenzene	0.42	1.06	ND	1.95	4.88	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.06	ND	2.91	7.27	ND	
100-41-4	Ethylbenzene	0.42	1.06	3.62	1.84	4.60	15.72	
1330-20-7	m,p-Xylenes	0.42	1.06	6.36	1.84	4.60	27.66	
111-84-2	Nonane	0.42	1.06	2.43	2.22	5.56	12.77	
100-42-5	Styrene	0.64	1.06	ND	2.71	4.52	ND	
75-25-2	Bromoform	0.42	1.06	ND	4.38	10.95	ND	
95-47-6	o-Xylene	0.42	1.06	1.56	1.84	4.60	6.79	
79-34-5	1,1,2,2-Tetrachloroethane	0.85	2.12	ND	5.82	14.55	ND	
96-18-4	1,2,3-Trichloropropane	0.85	2.54	ND	5.11	15.33	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.85	2.54	ND	4.33	13.00	ND	
103-65-1	n-Propylbenzene	0.85	2.96	ND	4.17	14.59	ND	
98-82-8	Isopropylbenzene	0.85	2.96	ND	4.17	14.59	ND	
622-96-8	4-Ethyltoluene	0.85	6.77	ND	4.17	33.34	ND	
108-67-8	1,3,5-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
124-18-5	Decane	0.85	2.54	1.30	4.93	14.80	7.60	J
98-06-6	tert-butyl benzene	0.85	2.54	ND	4.65	13.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
538-93-2	i-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
135-98-8	sec-butylbenzene	0.85	2.96	ND	4.65	16.29	ND	
541-73-1	1,3-Dichlorobenzene	0.85	3.39	ND	5.10	20.39	ND	
99-87-6	Isopropyltoluene	0.85	2.54	4.69	4.65	13.96	25.80	
100-44-7	Benzyl chloride	0.85	2.12	ND	4.39	10.97	ND	
106-46-7	1,4-Dichlorobenzene	0.85	2.12	ND	5.10	12.74	ND	
104-51-8	n-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
95-50-1	1,2-Dichlorobenzene	0.85	2.96	ND	5.10	17.84	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.27	2.96	ND	12.29	28.68	ND	
120-82-1	1,2,4-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
91-20-3	Naphthalene	2.12	0.42	ND	11.11	2.22	ND	
87-61-6	1,2,3-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
87-68-3	Hexachlorobutadiene	1.06	1.27	ND	11.30	13.56	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	102	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 11

File Name: 2510011A.D
Description: T-111
Canister: 504
QC_Batch: 033125-MA1

Date Sampled: 03/19/25 **Time:** 11:32
Date Analyzed: 03/31/25 **Time:** 19:53
Can Dilution Factor: 1.25
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.04	1.05	0.72	1.80	1.81	
75-71-8	Dichlorodifluoromethane	0.63	1.04	ND	3.09	5.16	ND	
67-56-1	Methanol	2.08	2.50	5.43	2.73	3.28	7.12	
74-87-3	Chloromethane	0.63	1.04	0.68	1.29	2.15	1.40	J
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.04	ND	2.92	7.29	ND	
75-01-4	Vinyl chloride	0.21	1.04	ND	0.54	2.67	ND	
106-99-0	1,3-Butadiene	0.21	1.04	ND	0.46	2.31	ND	
74-83-9	Bromomethane	0.42	1.04	ND	1.62	4.05	ND	
75-00-3	Chloroethane	0.42	1.04	ND	1.10	2.75	ND	
64-17-5	Ethanol	2.08	13.38	28.23	3.93	25.25	53.29	
107-02-8	Acrolein	0.42	1.25	2.02	0.96	2.87	4.65	
75-69-4	Trichlorofluoromethane	0.42	1.04	ND	2.34	5.86	ND	
67-64-1	Acetone	2.08	2.50	34.24	4.96	5.95	81.47	
67-63-0	2-propanol (isopropylalcohol)	0.83	5.21	2.29	2.05	12.82	5.64	J
75-65-0	t-Butyl alcohol	0.42	4.17	ND	1.26	12.64	ND	
4227-95-6	Methyl iodide	0.42	1.25	ND	2.44	7.32	ND	
75-35-4	1,1-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
107-13-1	Acrylonitrile	0.83	1.25	ND	1.81	2.72	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.04	ND	1.60	7.99	ND	
107-05-1	Allyl chloride	0.21	4.17	ND	0.65	13.05	ND	
75-09-2	Methylene chloride	0.21	1.04	ND	0.72	3.62	ND	
75-15-0	Carbon disulfide	0.42	1.04	ND	1.30	3.25	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.83	ND	0.83	3.31	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.83	ND	1.50	3.01	ND	
107-12-0	Propionitrile	1.04	1.67	ND	2.35	3.76	ND	
75-34-3	1,1-Dichloroethane	0.21	1.04	ND	0.84	4.22	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.04	ND	1.74	4.36	ND	
108-05-4	Vinyl acetate	0.21	4.17	ND	0.73	14.69	ND	
78-93-3	2-Butanone (MEK)	0.42	1.25	33.40	1.23	3.69	98.63	
108-20-3	Diisopropyl ether	0.42	2.50	ND	1.74	10.46	ND	
110-54-3	Hexane	0.42	1.04	ND	1.47	3.68	ND	
126-98-7	Methacrylonitrile	0.42	1.04	ND	1.15	2.86	ND	
141-78-6	Ethyl acetate	0.42	1.04	23.01	1.50	3.76	83.04	
74-97-5	Bromochloromethane	0.21	1.04	ND	1.10	5.52	ND	
96-33-3	Methyl acrylate	0.42	2.08	ND	1.47	7.35	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.25	12.48	0.62	3.69	36.84	
78-83-1	Isobutyl alcohol	0.83	3.33	ND	2.53	10.12	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
594-20-7	2,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
67-66-3	Chloroform	0.21	1.04	ND	1.02	5.09	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
107-06-2	1,2-Dichloroethane	0.21	1.04	ND	0.84	4.22	ND	
563-58-6	1,1-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
110-82-7	Cyclohexane	0.21	1.04	ND	0.72	3.59	ND	
71-43-2	Benzene	1.46	2.08	4.08	4.66	6.66	13.07	
56-23-5	Carbon tetrachloride	0.21	1.04	ND	1.31	6.56	ND	
994-05-8	t-Amyl methyl ether	0.42	2.08	ND	1.74	8.72	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.04	ND	0.97	4.87	ND	
142-82-5	n-Heptane	0.42	1.04	ND	1.71	4.27	ND	
78-87-5	1,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
123-91-1	1,4 Dioxane	0.42	2.08	ND	1.50	7.52	ND	
74-95-3	Dibromomethane	0.21	1.04	ND	1.48	7.42	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.04	ND	0.56	5.61	ND	
75-27-4	Bromodichloromethane	0.21	1.04	ND	1.40	6.99	ND	
80-62-6	Methyl methacrylate	0.42	1.04	ND	1.71	4.27	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.33	0.44	1.71	13.68	1.80	J
10061-01-5	cis-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
108-88-3	Toluene	0.83	1.04	1.47	3.14	3.93	5.54	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
97-63-2	Ethyl methacrylate	0.42	1.04	ND	1.95	4.87	ND	
591-78-6	2-Hexanone	0.42	3.33	ND	1.71	13.68	ND	
142-28-9	1,3-Dichloropropane	0.21	2.92	ND	0.96	13.50	ND	
111-65-9	Octane	0.42	1.04	ND	1.95	4.87	ND	
124-48-1	Dibromochloromethane	0.42	1.04	ND	3.55	8.89	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.04	ND	3.21	8.02	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.04	ND	0.71	7.07	ND	
108-90-7	Chlorobenzene	0.42	1.04	ND	1.92	4.80	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.04	ND	2.86	7.16	ND	
100-41-4	Ethylbenzene	0.42	1.04	0.78	1.81	4.53	3.41	J
1330-20-7	m,p-Xylenes	0.42	1.04	1.52	1.81	4.53	6.63	
111-84-2	Nonane	0.42	1.04	ND	2.19	5.47	ND	
100-42-5	Styrene	0.63	1.04	ND	2.67	4.45	ND	
75-25-2	Bromoform	0.42	1.04	ND	4.31	10.78	ND	
95-47-6	o-Xylene	0.42	1.04	ND	1.81	4.53	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.83	2.08	ND	5.73	14.32	ND	
96-18-4	1,2,3-Trichloropropane	0.83	2.50	ND	5.03	15.09	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.83	2.50	ND	4.27	12.80	ND	
103-65-1	n-Propylbenzene	0.83	2.92	ND	4.10	14.36	ND	
98-82-8	Isopropylbenzene	0.83	2.92	ND	4.10	14.36	ND	
622-96-8	4-Ethyltoluene	0.83	6.67	ND	4.10	32.82	ND	
108-67-8	1,3,5-Trimethylbenzene	0.83	3.75	ND	4.10	18.46	ND	
124-18-5	Decane	0.83	2.50	ND	4.86	14.57	ND	
98-06-6	tert-butyl benzene	0.83	2.50	ND	4.58	13.74	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.83	3.75	ND	4.10	18.46	ND	
538-93-2	i-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
135-98-8	sec-butylbenzene	0.83	2.92	ND	4.58	16.03	ND	
541-73-1	1,3-Dichlorobenzene	0.83	3.33	ND	5.02	20.07	ND	
99-87-6	Isopropyltoluene	0.83	2.50	10.36	4.58	13.74	56.95	
100-44-7	Benzyl chloride	0.83	2.08	ND	4.32	10.80	ND	
106-46-7	1,4-Dichlorobenzene	0.83	2.08	ND	5.02	12.54	ND	
104-51-8	n-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
95-50-1	1,2-Dichlorobenzene	0.83	2.92	ND	5.02	17.56	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.25	2.92	ND	12.10	28.23	ND	
120-82-1	1,2,4-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
91-20-3	Naphthalene	2.08	0.42	ND	10.94	2.19	ND	
87-61-6	1,2,3-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
87-68-3	Hexachlorobutadiene	1.04	1.25	ND	11.13	13.35	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	99	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 12**

File Name: 2510012A.D **Date Sampled:** 03/19/25 **Time:** 11:38
Description: T-112 **Date Analyzed:** 03/31/25 **Time:** 20:31
Canister: 631 **Can Dilution Factor:** 1.24
QC_Batch: 033125-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.41	1.03	10.87	0.71	1.78	18.73	
75-71-8	Dichlorodifluoromethane	0.62	1.03	ND	3.07	5.12	ND	
67-56-1	Methanol	2.07	2.48	3.13	2.71	3.25	4.10	
74-87-3	Chloromethane	0.62	1.03	ND	1.28	2.14	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.41	1.03	ND	2.89	7.23	ND	
75-01-4	Vinyl chloride	0.21	1.03	ND	0.53	2.65	ND	
106-99-0	1,3-Butadiene	0.21	1.03	ND	0.46	2.29	ND	
74-83-9	Bromomethane	0.41	1.03	ND	1.61	4.02	ND	
75-00-3	Chloroethane	0.41	1.03	ND	1.09	2.73	ND	
64-17-5	Ethanol	2.07	13.27	5.13	3.90	25.05	9.69	J
107-02-8	Acrolein	0.41	1.24	ND	0.95	2.85	ND	
75-69-4	Trichlorofluoromethane	0.41	1.03	ND	2.33	5.81	ND	
67-64-1	Acetone	2.07	2.48	14.85	4.92	5.90	35.35	
67-63-0	2-propanol (isopropylalcohol)	0.83	5.17	57.64	2.03	12.72	141.87	
75-65-0	t-Butyl alcohol	0.41	4.13	ND	1.25	12.54	ND	
4227-95-6	Methyl iodide	0.41	1.24	ND	2.42	7.26	ND	
75-35-4	1,1-Dichloroethene	0.21	1.03	ND	0.82	4.10	ND	
107-13-1	Acrylonitrile	0.83	1.24	ND	1.80	2.70	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.03	ND	1.59	7.93	ND	
107-05-1	Allyl chloride	0.21	4.13	ND	0.65	12.95	ND	
75-09-2	Methylene chloride	0.21	1.03	ND	0.72	3.59	ND	
75-15-0	Carbon disulfide	0.41	1.03	ND	1.29	3.22	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.83	ND	0.82	3.28	ND	
1634-04-4	Methyl tert butyl ether	0.41	0.83	ND	1.49	2.98	ND	
107-12-0	Propionitrile	1.03	1.65	ND	2.33	3.73	ND	
75-34-3	1,1-Dichloroethane	0.21	1.03	ND	0.84	4.19	ND	
637-92-3	Ethyl tert butyl ether	0.41	1.03	ND	1.73	4.33	ND	
108-05-4	Vinyl acetate	0.21	4.13	ND	0.73	14.58	ND	
78-93-3	2-Butanone (MEK)	0.41	1.24	1.24	1.22	3.66	3.67	
108-20-3	Diisopropyl ether	0.41	2.48	ND	1.73	10.38	ND	
110-54-3	Hexane	0.41	1.03	ND	1.46	3.65	ND	
126-98-7	Methacrylonitrile	0.41	1.03	ND	1.14	2.84	ND	
141-78-6	Ethyl acetate	0.41	1.03	0.43	1.49	3.73	1.55	J
74-97-5	Bromochloromethane	0.21	1.03	ND	1.10	5.48	ND	
96-33-3	Methyl acrylate	0.41	2.07	ND	1.46	7.29	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.24	ND	0.61	3.66	ND	
78-83-1	Isobutyl alcohol	0.83	3.31	ND	2.51	10.03	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.03	ND	0.82	4.10	ND	
594-20-7	2,2-Dichloropropane	0.21	1.03	ND	0.96	4.78	ND	
67-66-3	Chloroform	0.21	1.03	ND	1.01	5.05	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.03	ND	1.13	5.65	ND	
107-06-2	1,2-Dichloroethane	0.21	1.03	ND	0.84	4.19	ND	
563-58-6	1,1-Dichloropropene	0.21	1.03	ND	0.94	4.70	ND	
110-82-7	Cyclohexane	0.21	1.03	ND	0.71	3.56	ND	
71-43-2	Benzene	1.45	2.07	5.10	4.63	6.61	16.32	
56-23-5	Carbon tetrachloride	0.21	1.03	ND	1.30	6.51	ND	
994-05-8	t-Amyl methyl ether	0.41	2.07	ND	1.73	8.65	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.03	ND	0.97	4.83	ND	
142-82-5	n-Heptane	0.41	1.03	ND	1.70	4.24	ND	
78-87-5	1,2-Dichloropropane	0.21	1.03	ND	0.96	4.78	ND	
123-91-1	1,4 Dioxane	0.41	2.07	ND	1.49	7.46	ND	
74-95-3	Dibromomethane	0.21	1.03	ND	1.47	7.36	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.03	ND	0.56	5.56	ND	
75-27-4	Bromodichloromethane	0.21	1.03	ND	1.39	6.93	ND	
80-62-6	Methyl methacrylate	0.41	1.03	ND	1.69	4.24	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.41	3.31	ND	1.70	13.57	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.03	ND	0.94	4.70	ND	
108-88-3	Toluene	0.83	1.03	1.21	3.12	3.90	4.55	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.03	ND	0.94	4.70	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.03	ND	1.13	5.65	ND	
97-63-2	Ethyl methacrylate	0.41	1.03	ND	1.93	4.83	ND	
591-78-6	2-Hexanone	0.41	3.31	ND	1.70	13.57	ND	
142-28-9	1,3-Dichloropropane	0.21	2.89	ND	0.96	13.39	ND	
111-65-9	Octane	0.41	1.03	ND	1.93	4.83	ND	
124-48-1	Dibromochloromethane	0.41	1.03	ND	3.53	8.82	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.41	1.03	ND	3.18	7.95	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.03	ND	0.70	7.02	ND	
108-90-7	Chlorobenzene	0.41	1.03	ND	1.91	4.77	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.41	1.03	ND	2.84	7.10	ND	
100-41-4	Ethylbenzene	0.41	1.03	ND	1.80	4.49	ND	
1330-20-7	m,p-Xylenes	0.41	1.03	ND	1.80	4.49	ND	
111-84-2	Nonane	0.41	1.03	ND	2.17	5.43	ND	
100-42-5	Styrene	0.62	1.03	ND	2.65	4.41	ND	
75-25-2	Bromoform	0.41	1.03	ND	4.28	10.69	ND	
95-47-6	o-Xylene	0.41	1.03	ND	1.80	4.49	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.83	2.07	ND	5.68	14.20	ND	
96-18-4	1,2,3-Trichloropropane	0.83	2.48	ND	4.99	14.97	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.83	2.48	ND	4.23	12.70	ND	
103-65-1	n-Propylbenzene	0.83	2.89	ND	4.07	14.24	ND	
98-82-8	Isopropylbenzene	0.83	2.89	ND	4.07	14.24	ND	
622-96-8	4-Ethyltoluene	0.83	6.61	ND	4.07	32.56	ND	
108-67-8	1,3,5-Trimethylbenzene	0.83	3.72	ND	4.07	18.31	ND	
124-18-5	Decane	0.83	2.48	ND	4.82	14.45	ND	
98-06-6	tert-butyl benzene	0.83	2.48	ND	4.54	13.63	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.83	3.72	ND	4.07	18.31	ND	
538-93-2	i-Butylbenzene	0.83	2.48	ND	4.54	13.63	ND	
135-98-8	sec-butylbenzene	0.83	2.89	ND	4.54	15.90	ND	
541-73-1	1,3-Dichlorobenzene	0.83	3.31	ND	4.98	19.91	ND	
99-87-6	Isopropyltoluene	0.83	2.48	ND	4.54	13.63	ND	
100-44-7	Benzyl chloride	0.83	2.07	ND	4.29	10.72	ND	
106-46-7	1,4-Dichlorobenzene	0.83	2.07	ND	4.98	12.44	ND	
104-51-8	n-Butylbenzene	0.83	2.48	ND	4.54	13.63	ND	
95-50-1	1,2-Dichlorobenzene	0.83	2.89	ND	4.98	17.42	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.24	2.89	ND	12.00	28.00	ND	
120-82-1	1,2,4-Trichlorobenzene	1.24	2.07	ND	9.21	15.35	ND	
91-20-3	Naphthalene	2.07	0.41	ND	10.85	2.17	ND	
87-61-6	1,2,3-Trichlorobenzene	1.24	2.07	ND	9.21	15.35	ND	
87-68-3	Hexachlorobutadiene	1.03	1.24	ND	11.04	13.24	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	99	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 13

File Name: 2510013A.D
Description: T-113
Canister: 690
QC_Batch: 040125-MA1

Date Sampled: 03/19/25 **Time:** 13:05
Date Analyzed: 04/01/25 **Time:** 13:05
Can Dilution Factor: 1.23
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.41	1.03	0.88	0.71	1.77	1.51	J
75-71-8	Dichlorodifluoromethane	0.62	1.03	ND	3.05	5.08	ND	
67-56-1	Methanol	2.05	2.46	4.49	2.69	3.22	5.89	
74-87-3	Chloromethane	0.62	1.03	ND	1.27	2.12	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.41	1.03	ND	2.87	7.17	ND	
75-01-4	Vinyl chloride	0.21	1.03	ND	0.53	2.62	ND	
106-99-0	1,3-Butadiene	0.21	1.03	ND	0.46	2.27	ND	
74-83-9	Bromomethane	0.41	1.03	ND	1.59	3.98	ND	
75-00-3	Chloroethane	0.41	1.03	ND	1.08	2.71	ND	
64-17-5	Ethanol	2.05	13.16	5.47	3.87	24.85	10.32	J
107-02-8	Acrolein	0.41	1.23	ND	0.94	2.83	ND	
75-69-4	Trichlorofluoromethane	0.41	1.03	ND	2.31	5.77	ND	
67-64-1	Acetone	2.05	2.46	7.35	4.88	5.85	17.48	
67-63-0	2-propanol (isopropylalcohol)	0.82	5.13	0.92	2.02	12.61	2.27	J
75-65-0	t-Butyl alcohol	0.41	4.10	ND	1.24	12.44	ND	
4227-95-6	Methyl iodide	0.41	1.23	ND	2.40	7.20	ND	
75-35-4	1,1-Dichloroethene	0.21	1.03	ND	0.81	4.07	ND	
107-13-1	Acrylonitrile	0.82	1.23	ND	1.78	2.67	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.03	ND	1.57	7.87	ND	
107-05-1	Allyl chloride	0.21	4.10	ND	0.64	12.85	ND	
75-09-2	Methylene chloride	0.21	1.03	ND	0.71	3.56	ND	
75-15-0	Carbon disulfide	0.41	1.03	ND	1.28	3.19	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.82	ND	0.81	3.25	ND	
1634-04-4	Methyl tert butyl ether	0.41	0.82	ND	1.48	2.96	ND	
107-12-0	Propionitrile	1.03	1.64	ND	2.31	3.70	ND	
75-34-3	1,1-Dichloroethane	0.20	1.03	ND	0.83	4.16	ND	
637-92-3	Ethyl tert butyl ether	0.41	1.03	ND	1.72	4.29	ND	
108-05-4	Vinyl acetate	0.21	4.10	ND	0.72	14.46	ND	
78-93-3	2-Butanone (MEK)	0.41	1.23	1.73	1.21	3.63	5.11	
108-20-3	Diisopropyl ether	0.41	2.46	ND	1.72	10.30	ND	
110-54-3	Hexane	0.41	1.03	ND	1.45	3.62	ND	
126-98-7	Methacrylonitrile	0.41	1.03	ND	1.13	2.82	ND	
141-78-6	Ethyl acetate	0.41	1.03	ND	1.48	3.70	ND	
74-97-5	Bromochloromethane	0.21	1.03	ND	1.09	5.43	ND	
96-33-3	Methyl acrylate	0.41	2.05	ND	1.45	7.23	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.23	ND	0.61	3.63	ND	
78-83-1	Isobutyl alcohol	0.82	3.28	ND	2.49	9.95	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.03	ND	0.81	4.07	ND	
594-20-7	2,2-Dichloropropane	0.21	1.03	ND	0.95	4.74	ND	
67-66-3	Chloroform	0.21	1.03	ND	1.01	5.01	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.03	ND	1.12	5.60	ND	
107-06-2	1,2-Dichloroethane	0.21	1.03	ND	0.83	4.16	ND	
563-58-6	1,1-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
110-82-7	Cyclohexane	0.21	1.03	ND	0.71	3.53	ND	
71-43-2	Benzene	1.44	2.05	1.49	4.59	6.56	4.75	J
56-23-5	Carbon tetrachloride	0.21	1.03	ND	1.29	6.46	ND	
994-05-8	t-Amyl methyl ether	0.41	2.05	ND	1.72	8.58	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.03	ND	0.96	4.79	ND	
142-82-5	n-Heptane	0.41	1.03	ND	1.68	4.21	ND	
78-87-5	1,2-Dichloropropane	0.21	1.03	ND	0.95	4.74	ND	
123-91-1	1,4 Dioxane	0.41	2.05	ND	1.48	7.40	ND	
74-95-3	Dibromomethane	0.21	1.03	ND	1.46	7.30	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.03	ND	0.55	5.52	ND	
75-27-4	Bromodichloromethane	0.21	1.03	ND	1.38	6.88	ND	
80-62-6	Methyl methacrylate	0.41	1.03	ND	1.68	4.20	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.41	3.28	ND	1.68	13.46	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
108-88-3	Toluene	0.82	1.03	ND	3.09	3.87	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.03	ND	1.12	5.60	ND	
97-63-2	Ethyl methacrylate	0.41	1.03	ND	1.92	4.79	ND	
591-78-6	2-Hexanone	0.41	3.28	ND	1.68	13.46	ND	
142-28-9	1,3-Dichloropropane	0.21	2.87	ND	0.95	13.28	ND	
111-65-9	Octane	0.41	1.03	ND	1.92	4.79	ND	
124-48-1	Dibromochloromethane	0.41	1.03	ND	3.50	8.74	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.41	1.03	ND	3.16	7.89	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.03	ND	0.70	6.96	ND	
108-90-7	Chlorobenzene	0.41	1.03	ND	1.89	4.73	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.41	1.03	ND	2.82	7.04	ND	
100-41-4	Ethylbenzene	0.41	1.03	ND	1.78	4.46	ND	
1330-20-7	m,p-Xylenes	0.41	1.03	ND	1.78	4.46	ND	
111-84-2	Nonane	0.41	1.03	ND	2.15	5.39	ND	
100-42-5	Styrene	0.62	1.03	ND	2.62	4.37	ND	
75-25-2	Bromoform	0.41	1.03	ND	4.24	10.61	ND	
95-47-6	o-Xylene	0.41	1.03	ND	1.78	4.46	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.82	2.05	ND	5.64	14.09	ND	
96-18-4	1,2,3-Trichloropropane	0.82	2.46	ND	4.95	14.85	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.82	2.46	ND	4.20	12.59	ND	
103-65-1	n-Propylbenzene	0.82	2.87	ND	4.04	14.13	ND	
98-82-8	Isopropylbenzene	0.82	2.87	ND	4.04	14.13	ND	
622-96-8	4-Ethyltoluene	0.82	6.56	ND	4.04	32.29	ND	
108-67-8	1,3,5-Trimethylbenzene	0.82	3.69	ND	4.04	18.17	ND	
124-18-5	Decane	0.82	2.46	ND	4.78	14.34	ND	
98-06-6	tert-butyl benzene	0.82	2.46	ND	4.51	13.52	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.82	3.69	ND	4.04	18.17	ND	
538-93-2	i-Butylbenzene	0.82	2.46	ND	4.51	13.52	ND	
135-98-8	sec-butylbenzene	0.82	2.87	ND	4.51	15.77	ND	
541-73-1	1,3-Dichlorobenzene	0.82	3.28	ND	4.94	19.75	ND	
99-87-6	Isopropyltoluene	0.82	2.46	ND	4.51	13.52	ND	
100-44-7	Benzyl chloride	0.82	2.05	ND	4.25	10.63	ND	
106-46-7	1,4-Dichlorobenzene	0.82	2.05	ND	4.94	12.34	ND	
104-51-8	n-Butylbenzene	0.82	2.46	ND	4.51	13.52	ND	
95-50-1	1,2-Dichlorobenzene	0.82	2.87	ND	4.94	17.28	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.23	2.87	ND	11.90	27.77	ND	
120-82-1	1,2,4-Trichlorobenzene	1.23	2.05	ND	9.14	15.23	ND	
91-20-3	Naphthalene	2.05	0.41	ND	10.76	2.15	ND	
87-61-6	1,2,3-Trichlorobenzene	1.23	2.05	ND	9.14	15.23	ND	
87-68-3	Hexachlorobutadiene	1.03	1.23	ND	10.95	13.14	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	QC Limits UCL	Flag
2037-26-5	Toluene-d8	118	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 14

File Name: 2510014A.D
Description: T-114
Canister: 645
QC_Batch: 040125-MA1

Date Sampled: 03/19/25 **Time:** 13:11
Date Analyzed: 04/01/25 **Time:** 13:43
Can Dilution Factor: 1.27
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.06	0.91	0.73	1.82	1.57	J
75-71-8	Dichlorodifluoromethane	0.64	1.06	ND	3.14	5.24	ND	
67-56-1	Methanol	2.12	2.54	ND	2.77	3.33	ND	
74-87-3	Chloromethane	0.64	1.06	ND	1.31	2.19	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.06	ND	2.96	7.41	ND	
75-01-4	Vinyl chloride	0.21	1.06	ND	0.55	2.71	ND	
106-99-0	1,3-Butadiene	0.21	1.06	ND	0.47	2.34	ND	
74-83-9	Bromomethane	0.42	1.06	ND	1.65	4.11	ND	
75-00-3	Chloroethane	0.42	1.06	ND	1.12	2.80	ND	
64-17-5	Ethanol	2.12	13.59	ND	4.00	25.66	ND	
107-02-8	Acrolein	0.42	1.27	1.02	0.97	2.92	2.34	J
75-69-4	Trichlorofluoromethane	0.42	1.06	ND	2.38	5.96	ND	
67-64-1	Acetone	2.12	2.54	3.26	5.04	6.04	7.76	
67-63-0	2-propanol (isopropylalcohol)	0.85	5.29	ND	2.08	13.02	ND	
75-65-0	t-Butyl alcohol	0.42	4.23	ND	1.28	12.85	ND	
4227-95-6	Methyl iodide	0.42	1.27	ND	2.48	7.43	ND	
75-35-4	1,1-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
107-13-1	Acrylonitrile	0.85	1.27	ND	1.84	2.76	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.06	ND	1.62	8.12	ND	
107-05-1	Allyl chloride	0.21	4.23	ND	0.66	13.26	ND	
75-09-2	Methylene chloride	0.21	1.06	ND	0.74	3.68	ND	
75-15-0	Carbon disulfide	0.42	1.06	ND	1.32	3.30	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.85	ND	0.84	3.36	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.85	ND	1.53	3.05	ND	
107-12-0	Propionitrile	1.06	1.69	ND	2.39	3.82	ND	
75-34-3	1,1-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.06	ND	1.77	4.43	ND	
108-05-4	Vinyl acetate	0.21	4.23	ND	0.75	14.93	ND	
78-93-3	2-Butanone (MEK)	0.42	1.27	ND	1.25	3.75	ND	
108-20-3	Diisopropyl ether	0.42	2.54	ND	1.77	10.63	ND	
110-54-3	Hexane	0.42	1.06	ND	1.49	3.74	ND	
126-98-7	Methacrylonitrile	0.42	1.06	ND	1.16	2.91	ND	
141-78-6	Ethyl acetate	0.42	1.06	ND	1.53	3.82	ND	
74-97-5	Bromochloromethane	0.21	1.06	ND	1.12	5.61	ND	
96-33-3	Methyl acrylate	0.42	2.12	ND	1.49	7.46	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.27	3.84	0.63	3.75	11.33	
78-83-1	Isobutyl alcohol	0.85	3.39	ND	2.57	10.28	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
594-20-7	2,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
67-66-3	Chloroform	0.21	1.06	ND	1.04	5.18	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
107-06-2	1,2-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
563-58-6	1,1-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
110-82-7	Cyclohexane	0.21	1.06	ND	0.73	3.65	ND	
71-43-2	Benzene	1.48	2.12	9.36	4.74	6.77	29.95	
56-23-5	Carbon tetrachloride	0.21	1.06	ND	1.33	6.67	ND	
994-05-8	t-Amyl methyl ether	0.42	2.12	ND	1.77	8.86	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.06	ND	0.99	4.95	ND	
142-82-5	n-Heptane	0.42	1.06	ND	1.74	4.34	ND	
78-87-5	1,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
123-91-1	1,4 Dioxane	0.42	2.12	ND	1.53	7.64	ND	
74-95-3	Dibromomethane	0.21	1.06	ND	1.51	7.53	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.06	ND	0.57	5.70	ND	
75-27-4	Bromodichloromethane	0.21	1.06	ND	1.42	7.10	ND	
80-62-6	Methyl methacrylate	0.42	1.06	ND	1.74	4.34	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.39	ND	1.74	13.90	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
108-88-3	Toluene	0.85	1.06	2.40	3.19	3.99	9.05	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
97-63-2	Ethyl methacrylate	0.42	1.06	ND	1.98	4.95	ND	
591-78-6	2-Hexanone	0.42	3.39	ND	1.74	13.90	ND	
142-28-9	1,3-Dichloropropane	0.21	2.96	ND	0.98	13.71	ND	
111-65-9	Octane	0.42	1.06	ND	1.98	4.95	ND	
124-48-1	Dibromochloromethane	0.42	1.06	ND	3.61	9.03	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.06	ND	3.26	8.14	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.06	ND	0.72	7.19	ND	
108-90-7	Chlorobenzene	0.42	1.06	ND	1.95	4.88	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.06	ND	2.91	7.27	ND	
100-41-4	Ethylbenzene	0.42	1.06	1.93	1.84	4.60	8.39	
1330-20-7	m,p-Xylenes	0.42	1.06	2.61	1.84	4.60	11.33	
111-84-2	Nonane	0.42	1.06	1.56	2.22	5.56	8.19	
100-42-5	Styrene	0.64	1.06	ND	2.71	4.52	ND	
75-25-2	Bromoform	0.42	1.06	ND	4.38	10.95	ND	
95-47-6	o-Xylene	0.42	1.06	0.86	1.84	4.60	3.74	J
79-34-5	1,1,2,2-Tetrachloroethane	0.85	2.12	ND	5.82	14.55	ND	
96-18-4	1,2,3-Trichloropropane	0.85	2.54	ND	5.11	15.33	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.85	2.54	ND	4.33	13.00	ND	
103-65-1	n-Propylbenzene	0.85	2.96	ND	4.17	14.59	ND	
98-82-8	Isopropylbenzene	0.85	2.96	ND	4.17	14.59	ND	
622-96-8	4-Ethyltoluene	0.85	6.77	ND	4.17	33.34	ND	
108-67-8	1,3,5-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
124-18-5	Decane	0.85	2.54	ND	4.93	14.80	ND	
98-06-6	tert-butyl benzene	0.85	2.54	ND	4.65	13.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
538-93-2	i-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
135-98-8	sec-butylbenzene	0.85	2.96	ND	4.65	16.29	ND	
541-73-1	1,3-Dichlorobenzene	0.85	3.39	ND	5.10	20.39	ND	
99-87-6	Isopropyltoluene	0.85	2.54	3.24	4.65	13.96	17.80	
100-44-7	Benzyl chloride	0.85	2.12	ND	4.39	10.97	ND	
106-46-7	1,4-Dichlorobenzene	0.85	2.12	ND	5.10	12.74	ND	
104-51-8	n-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
95-50-1	1,2-Dichlorobenzene	0.85	2.96	ND	5.10	17.84	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.27	2.96	ND	12.29	28.68	ND	
120-82-1	1,2,4-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
91-20-3	Naphthalene	2.12	0.42	ND	11.11	2.22	ND	
87-61-6	1,2,3-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
87-68-3	Hexachlorobutadiene	1.06	1.27	ND	11.30	13.56	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	106	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 15

File Name: 2510015A.D
Description: T-115
Canister: 654
QC_Batch: 040125-MA1

Date Sampled: 03/19/25 **Time:** 12:53
Date Analyzed: 04/01/25 **Time:** 14:20
Can Dilution Factor: 1.27
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.06	1.02	0.73	1.82	1.76	J
75-71-8	Dichlorodifluoromethane	0.64	1.06	ND	3.14	5.24	ND	
67-56-1	Methanol	2.12	2.54	2.49	2.77	3.33	3.26	J
74-87-3	Chloromethane	0.64	1.06	ND	1.31	2.19	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.06	ND	2.96	7.41	ND	
75-01-4	Vinyl chloride	0.21	1.06	ND	0.55	2.71	ND	
106-99-0	1,3-Butadiene	0.21	1.06	ND	0.47	2.34	ND	
74-83-9	Bromomethane	0.42	1.06	ND	1.65	4.11	ND	
75-00-3	Chloroethane	0.42	1.06	ND	1.12	2.80	ND	
64-17-5	Ethanol	2.12	13.59	2.41	4.00	25.66	4.55	J
107-02-8	Acrolein	0.42	1.27	2.51	0.97	2.92	5.77	
75-69-4	Trichlorofluoromethane	0.42	1.06	ND	2.38	5.96	ND	
67-64-1	Acetone	2.12	2.54	21.77	5.04	6.04	51.80	
67-63-0	2-propanol (isopropylalcohol)	0.85	5.29	129.21	2.08	13.02	318.03	
75-65-0	t-Butyl alcohol	0.42	4.23	0.47	1.28	12.85	1.44	J
4227-95-6	Methyl iodide	0.42	1.27	ND	2.48	7.43	ND	
75-35-4	1,1-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
107-13-1	Acrylonitrile	0.85	1.27	ND	1.84	2.76	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.06	ND	1.62	8.12	ND	
107-05-1	Allyl chloride	0.21	4.23	ND	0.66	13.26	ND	
75-09-2	Methylene chloride	0.21	1.06	ND	0.74	3.68	ND	
75-15-0	Carbon disulfide	0.42	1.06	ND	1.32	3.30	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.85	ND	0.84	3.36	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.85	ND	1.53	3.05	ND	
107-12-0	Propionitrile	1.06	1.69	ND	2.39	3.82	ND	
75-34-3	1,1-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.06	ND	1.77	4.43	ND	
108-05-4	Vinyl acetate	0.21	4.23	ND	0.75	14.93	ND	
78-93-3	2-Butanone (MEK)	0.42	1.27	5.47	1.25	3.75	16.16	
108-20-3	Diisopropyl ether	0.42	2.54	ND	1.77	10.63	ND	
110-54-3	Hexane	0.42	1.06	ND	1.49	3.74	ND	
126-98-7	Methacrylonitrile	0.42	1.06	ND	1.16	2.91	ND	
141-78-6	Ethyl acetate	0.42	1.06	ND	1.53	3.82	ND	
74-97-5	Bromochloromethane	0.21	1.06	ND	1.12	5.61	ND	
96-33-3	Methyl acrylate	0.42	2.12	ND	1.49	7.46	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.27	1.75	0.63	3.75	5.17	
78-83-1	Isobutyl alcohol	0.85	3.39	ND	2.57	10.28	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
594-20-7	2,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
67-66-3	Chloroform	0.21	1.06	ND	1.04	5.18	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
107-06-2	1,2-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
563-58-6	1,1-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
110-82-7	Cyclohexane	0.21	1.06	ND	0.73	3.65	ND	
71-43-2	Benzene	1.48	2.12	2.16	4.74	6.77	6.92	
56-23-5	Carbon tetrachloride	0.21	1.06	ND	1.33	6.67	ND	
994-05-8	t-Amyl methyl ether	0.42	2.12	ND	1.77	8.86	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.06	ND	0.99	4.95	ND	
142-82-5	n-Heptane	0.42	1.06	ND	1.74	4.34	ND	
78-87-5	1,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
123-91-1	1,4 Dioxane	0.42	2.12	ND	1.53	7.64	ND	
74-95-3	Dibromomethane	0.21	1.06	ND	1.51	7.53	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.06	ND	0.57	5.70	ND	
75-27-4	Bromodichloromethane	0.21	1.06	ND	1.42	7.10	ND	
80-62-6	Methyl methacrylate	0.42	1.06	ND	1.74	4.34	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.39	0.53	1.74	13.90	2.17	J
10061-01-5	cis-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
108-88-3	Toluene	0.85	1.06	ND	3.19	3.99	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
97-63-2	Ethyl methacrylate	0.42	1.06	ND	1.98	4.95	ND	
591-78-6	2-Hexanone	0.42	3.39	0.47	1.74	13.90	1.95	J
142-28-9	1,3-Dichloropropane	0.21	2.96	ND	0.98	13.71	ND	
111-65-9	Octane	0.42	1.06	ND	1.98	4.95	ND	
124-48-1	Dibromochloromethane	0.42	1.06	ND	3.61	9.03	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.06	ND	3.26	8.14	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.06	ND	0.72	7.19	ND	
108-90-7	Chlorobenzene	0.42	1.06	ND	1.95	4.88	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.06	ND	2.91	7.27	ND	
100-41-4	Ethylbenzene	0.42	1.06	ND	1.84	4.60	ND	
1330-20-7	m,p-Xylenes	0.42	1.06	ND	1.84	4.60	ND	
111-84-2	Nonane	0.42	1.06	ND	2.22	5.56	ND	
100-42-5	Styrene	0.64	1.06	ND	2.71	4.52	ND	
75-25-2	Bromoform	0.42	1.06	ND	4.38	10.95	ND	
95-47-6	o-Xylene	0.42	1.06	ND	1.84	4.60	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.85	2.12	ND	5.82	14.55	ND	
96-18-4	1,2,3-Trichloropropane	0.85	2.54	ND	5.11	15.33	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.85	2.54	ND	4.33	13.00	ND	
103-65-1	n-Propylbenzene	0.85	2.96	ND	4.17	14.59	ND	
98-82-8	Isopropylbenzene	0.85	2.96	ND	4.17	14.59	ND	
622-96-8	4-Ethyltoluene	0.85	6.77	ND	4.17	33.34	ND	
108-67-8	1,3,5-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
124-18-5	Decane	0.85	2.54	ND	4.93	14.80	ND	
98-06-6	tert-butyl benzene	0.85	2.54	ND	4.65	13.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
538-93-2	i-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
135-98-8	sec-butylbenzene	0.85	2.96	ND	4.65	16.29	ND	
541-73-1	1,3-Dichlorobenzene	0.85	3.39	ND	5.10	20.39	ND	
99-87-6	Isopropyltoluene	0.85	2.54	ND	4.65	13.96	ND	
100-44-7	Benzyl chloride	0.85	2.12	ND	4.39	10.97	ND	
106-46-7	1,4-Dichlorobenzene	0.85	2.12	ND	5.10	12.74	ND	
104-51-8	n-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
95-50-1	1,2-Dichlorobenzene	0.85	2.96	ND	5.10	17.84	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.27	2.96	ND	12.29	28.68	ND	
120-82-1	1,2,4-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
91-20-3	Naphthalene	2.12	0.42	ND	11.11	2.22	ND	
87-61-6	1,2,3-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
87-68-3	Hexachlorobutadiene	1.06	1.27	ND	11.30	13.56	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	129	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 16

File Name: 2510016A.D
Description: T-116
Canister: 782
QC_Batch: 040125-MA1

Date Sampled: 03/19/25 **Time:** 13:03
Date Analyzed: 04/01/25 **Time:** 15:34
Can Dilution Factor: 1.48
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.49	1.23	1.02	0.85	2.13	1.76	J
75-71-8	Dichlorodifluoromethane	0.74	1.23	ND	3.66	6.11	ND	
67-56-1	Methanol	2.47	2.96	ND	3.23	3.88	ND	
74-87-3	Chloromethane	0.74	1.23	ND	1.53	2.55	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.49	1.23	ND	3.45	8.63	ND	
75-01-4	Vinyl chloride	0.25	1.23	ND	0.64	3.16	ND	
106-99-0	1,3-Butadiene	0.25	1.23	ND	0.55	2.73	ND	
74-83-9	Bromomethane	0.49	1.23	ND	1.92	4.79	ND	
75-00-3	Chloroethane	0.49	1.23	ND	1.30	3.26	ND	
64-17-5	Ethanol	2.47	15.84	ND	4.66	29.90	ND	
107-02-8	Acrolein	0.49	1.48	2.63	1.13	3.40	6.05	
75-69-4	Trichlorofluoromethane	0.49	1.23	ND	2.78	6.94	ND	
67-64-1	Acetone	2.47	2.96	6.10	5.87	7.04	14.52	
67-63-0	2-propanol (isopropylalcohol)	0.99	6.17	ND	2.43	15.18	ND	
75-65-0	t-Butyl alcohol	0.49	4.93	ND	1.50	14.97	ND	
4227-95-6	Methyl iodide	0.49	1.48	ND	2.89	8.66	ND	
75-35-4	1,1-Dichloroethene	0.25	1.23	ND	0.98	4.89	ND	
107-13-1	Acrylonitrile	0.99	1.48	ND	2.15	3.22	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	1.23	ND	1.89	9.47	ND	
107-05-1	Allyl chloride	0.25	4.93	ND	0.77	15.46	ND	
75-09-2	Methylene chloride	0.25	1.23	ND	0.86	4.29	ND	
75-15-0	Carbon disulfide	0.49	1.23	0.83	1.54	3.84	2.58	J
156-60-5	trans-1,2-Dichloroethene	0.25	0.99	ND	0.98	3.92	ND	
1634-04-4	Methyl tert butyl ether	0.49	0.99	ND	1.78	3.56	ND	
107-12-0	Propionitrile	1.23	1.97	ND	2.78	4.45	ND	
75-34-3	1,1-Dichloroethane	0.25	1.23	ND	1.00	5.00	ND	
637-92-3	Ethyl tert butyl ether	0.49	1.23	ND	2.06	5.16	ND	
108-05-4	Vinyl acetate	0.25	4.93	ND	0.87	17.40	ND	
78-93-3	2-Butanone (MEK)	0.49	1.48	0.72	1.46	4.37	2.14	J
108-20-3	Diisopropyl ether	0.49	2.96	ND	2.06	12.39	ND	
110-54-3	Hexane	0.49	1.23	ND	1.74	4.35	ND	
126-98-7	Methacrylonitrile	0.49	1.23	ND	1.36	3.39	ND	
141-78-6	Ethyl acetate	0.49	1.23	ND	1.78	4.45	ND	
74-97-5	Bromochloromethane	0.25	1.23	ND	1.31	6.54	ND	
96-33-3	Methyl acrylate	0.49	2.47	ND	1.74	8.70	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.25	1.48	ND	0.73	4.37	ND	
78-83-1	Isobutyl alcohol	0.99	3.95	ND	2.99	11.98	ND	
156-59-2	cis-1,2-Dichloroethene	0.25	1.23	ND	0.98	4.89	ND	
594-20-7	2,2-Dichloropropane	0.25	1.23	ND	1.14	5.71	ND	
67-66-3	Chloroform	0.25	1.23	ND	1.21	6.03	ND	
71-55-6	1,1,1-Trichloroethane	0.25	1.23	ND	1.35	6.74	ND	
107-06-2	1,2-Dichloroethane	0.25	1.23	ND	1.00	5.00	ND	
563-58-6	1,1-Dichloropropene	0.25	1.23	ND	1.12	5.61	ND	
110-82-7	Cyclohexane	0.25	1.23	ND	0.85	4.25	ND	
71-43-2	Benzene	1.73	2.47	2.76	5.52	7.89	8.84	
56-23-5	Carbon tetrachloride	0.25	1.23	ND	1.55	7.77	ND	
994-05-8	t-Amyl methyl ether	0.49	2.47	ND	2.06	10.32	ND	
540-84-1	2,2,4-Trimethylpentane	0.25	1.23	ND	1.15	5.77	ND	
142-82-5	n-Heptane	0.49	1.23	ND	2.02	5.06	ND	
78-87-5	1,2-Dichloropropane	0.25	1.23	ND	1.14	5.71	ND	
123-91-1	1,4 Dioxane	0.49	2.47	ND	1.78	8.90	ND	
74-95-3	Dibromomethane	0.25	1.23	ND	1.76	8.78	ND	
79-01-6	Trichloroethene (TCE)	0.12	1.23	ND	0.66	6.64	ND	
75-27-4	Bromodichloromethane	0.25	1.23	ND	1.65	8.27	ND	
80-62-6	Methyl methacrylate	0.49	1.23	ND	2.02	5.06	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.49	3.95	ND	2.02	16.20	ND	
10061-01-5	cis-1,3-Dichloropropene	0.25	1.23	ND	1.12	5.61	ND	
108-88-3	Toluene	0.99	1.23	ND	3.72	4.65	ND	
10061-02-6	trans-1,3-Dichloropropene	0.25	1.23	ND	1.12	5.61	ND	
79-00-5	1,1,2-Trichloroethane	0.25	1.23	ND	1.35	6.74	ND	
97-63-2	Ethyl methacrylate	0.49	1.23	ND	2.31	5.77	ND	
591-78-6	2-Hexanone	0.49	3.95	ND	2.02	16.20	ND	
142-28-9	1,3-Dichloropropane	0.25	3.45	ND	1.14	15.98	ND	
111-65-9	Octane	0.49	1.23	ND	2.31	5.77	ND	
124-48-1	Dibromochloromethane	0.49	1.23	ND	4.21	10.52	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.49	1.23	ND	3.80	9.49	ND	
127-18-4	Tetrachloroethene (PCE)	0.12	1.23	ND	0.84	8.37	ND	
108-90-7	Chlorobenzene	0.49	1.23	ND	2.28	5.69	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.49	1.23	ND	3.39	8.48	ND	
100-41-4	Ethylbenzene	0.49	1.23	ND	2.15	5.36	ND	
1330-20-7	m,p-Xylenes	0.49	1.23	ND	2.15	5.36	ND	
111-84-2	Nonane	0.49	1.23	ND	2.59	6.48	ND	
100-42-5	Styrene	0.74	1.23	ND	3.16	5.26	ND	
75-25-2	Bromoform	0.49	1.23	ND	5.11	12.76	ND	
95-47-6	o-Xylene	0.49	1.23	ND	2.15	5.36	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.99	2.47	ND	6.78	16.95	ND	
96-18-4	1,2,3-Trichloropropane	0.99	2.96	ND	5.96	17.87	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.99	2.96	ND	5.05	15.15	ND	
103-65-1	n-Propylbenzene	0.99	3.45	ND	4.86	17.00	ND	
98-82-8	Isopropylbenzene	0.99	3.45	ND	4.86	17.00	ND	
622-96-8	4-Ethyltoluene	0.99	7.89	ND	4.86	38.86	ND	
108-67-8	1,3,5-Trimethylbenzene	0.99	4.44	ND	4.86	21.86	ND	
124-18-5	Decane	0.99	2.96	ND	5.75	17.25	ND	
98-06-6	tert-butyl benzene	0.99	2.96	ND	5.42	16.27	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.99	4.44	ND	4.86	21.86	ND	
538-93-2	i-Butylbenzene	0.99	2.96	ND	5.42	16.27	ND	
135-98-8	sec-butylbenzene	0.99	3.45	ND	5.42	18.98	ND	
541-73-1	1,3-Dichlorobenzene	0.99	3.95	ND	5.94	23.76	ND	
99-87-6	Isopropyltoluene	0.99	2.96	ND	5.42	16.27	ND	
100-44-7	Benzyl chloride	0.99	2.47	ND	5.12	12.79	ND	
106-46-7	1,4-Dichlorobenzene	0.99	2.47	ND	5.94	14.85	ND	
104-51-8	n-Butylbenzene	0.99	2.96	ND	5.42	16.27	ND	
95-50-1	1,2-Dichlorobenzene	0.99	3.45	ND	5.94	20.79	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.48	3.45	ND	14.32	33.42	ND	
120-82-1	1,2,4-Trichlorobenzene	1.48	2.47	ND	11.00	18.33	ND	
91-20-3	Naphthalene	2.47	0.49	ND	12.95	2.59	ND	
87-61-6	1,2,3-Trichlorobenzene	1.48	2.47	ND	11.00	18.33	ND	
87-68-3	Hexachlorobutadiene	1.23	1.48	ND	13.17	15.81	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	122	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 17

File Name: 2510017A.D
Description: T-117
Canister: 643
QC_Batch: 040125-MA1

Date Sampled: 03/19/25 **Time:** 13:03
Date Analyzed: 04/01/25 **Time:** 16:12
Can Dilution Factor: 1.25
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.04	0.67	0.72	1.80	1.16	J
75-71-8	Dichlorodifluoromethane	0.63	1.04	ND	3.09	5.16	ND	
67-56-1	Methanol	2.08	2.50	ND	2.73	3.28	ND	
74-87-3	Chloromethane	0.63	1.04	ND	1.29	2.15	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.04	ND	2.92	7.29	ND	
75-01-4	Vinyl chloride	0.21	1.04	ND	0.54	2.67	ND	
106-99-0	1,3-Butadiene	0.21	1.04	ND	0.46	2.31	ND	
74-83-9	Bromomethane	0.42	1.04	ND	1.62	4.05	ND	
75-00-3	Chloroethane	0.42	1.04	ND	1.10	2.75	ND	
64-17-5	Ethanol	2.08	13.38	ND	3.93	25.25	ND	
107-02-8	Acrolein	0.42	1.25	1.82	0.96	2.87	4.18	
75-69-4	Trichlorofluoromethane	0.42	1.04	ND	2.34	5.86	ND	
67-64-1	Acetone	2.08	2.50	4.45	4.96	5.95	10.58	
67-63-0	2-propanol (isopropylalcohol)	0.83	5.21	ND	2.05	12.82	ND	
75-65-0	t-Butyl alcohol	0.42	4.17	ND	1.26	12.64	ND	
4227-95-6	Methyl iodide	0.42	1.25	ND	2.44	7.32	ND	
75-35-4	1,1-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
107-13-1	Acrylonitrile	0.83	1.25	ND	1.81	2.72	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.04	ND	1.60	7.99	ND	
107-05-1	Allyl chloride	0.21	4.17	ND	0.65	13.05	ND	
75-09-2	Methylene chloride	0.21	1.04	ND	0.72	3.62	ND	
75-15-0	Carbon disulfide	0.42	1.04	ND	1.30	3.25	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.83	ND	0.83	3.31	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.83	ND	1.50	3.01	ND	
107-12-0	Propionitrile	1.04	1.67	ND	2.35	3.76	ND	
75-34-3	1,1-Dichloroethane	0.21	1.04	ND	0.84	4.22	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.04	ND	1.74	4.36	ND	
108-05-4	Vinyl acetate	0.21	4.17	ND	0.73	14.69	ND	
78-93-3	2-Butanone (MEK)	0.42	1.25	ND	1.23	3.69	ND	
108-20-3	Diisopropyl ether	0.42	2.50	ND	1.74	10.46	ND	
110-54-3	Hexane	0.42	1.04	ND	1.47	3.68	ND	
126-98-7	Methacrylonitrile	0.42	1.04	ND	1.15	2.86	ND	
141-78-6	Ethyl acetate	0.42	1.04	ND	1.50	3.76	ND	
74-97-5	Bromochloromethane	0.21	1.04	ND	1.10	5.52	ND	
96-33-3	Methyl acrylate	0.42	2.08	ND	1.47	7.35	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.25	ND	0.62	3.69	ND	
78-83-1	Isobutyl alcohol	0.83	3.33	ND	2.53	10.12	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
594-20-7	2,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
67-66-3	Chloroform	0.21	1.04	ND	1.02	5.09	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
107-06-2	1,2-Dichloroethane	0.21	1.04	ND	0.84	4.22	ND	
563-58-6	1,1-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
110-82-7	Cyclohexane	0.21	1.04	ND	0.72	3.59	ND	
71-43-2	Benzene	1.46	2.08	1.71	4.66	6.66	5.46	J
56-23-5	Carbon tetrachloride	0.21	1.04	ND	1.31	6.56	ND	
994-05-8	t-Amyl methyl ether	0.42	2.08	ND	1.74	8.72	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.04	ND	0.97	4.87	ND	
142-82-5	n-Heptane	0.42	1.04	ND	1.71	4.27	ND	
78-87-5	1,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
123-91-1	1,4 Dioxane	0.42	2.08	ND	1.50	7.52	ND	
74-95-3	Dibromomethane	0.21	1.04	ND	1.48	7.42	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.04	ND	0.56	5.61	ND	
75-27-4	Bromodichloromethane	0.21	1.04	ND	1.40	6.99	ND	
80-62-6	Methyl methacrylate	0.42	1.04	ND	1.71	4.27	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.33	ND	1.71	13.68	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
108-88-3	Toluene	0.83	1.04	ND	3.14	3.93	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
97-63-2	Ethyl methacrylate	0.42	1.04	ND	1.95	4.87	ND	
591-78-6	2-Hexanone	0.42	3.33	ND	1.71	13.68	ND	
142-28-9	1,3-Dichloropropane	0.21	2.92	ND	0.96	13.50	ND	
111-65-9	Octane	0.42	1.04	ND	1.95	4.87	ND	
124-48-1	Dibromochloromethane	0.42	1.04	ND	3.55	8.89	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.04	ND	3.21	8.02	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.04	ND	0.71	7.07	ND	
108-90-7	Chlorobenzene	0.42	1.04	ND	1.92	4.80	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.04	ND	2.86	7.16	ND	
100-41-4	Ethylbenzene	0.42	1.04	ND	1.81	4.53	ND	
1330-20-7	m,p-Xylenes	0.42	1.04	ND	1.81	4.53	ND	
111-84-2	Nonane	0.42	1.04	ND	2.19	5.47	ND	
100-42-5	Styrene	0.63	1.04	ND	2.67	4.45	ND	
75-25-2	Bromoform	0.42	1.04	ND	4.31	10.78	ND	
95-47-6	o-Xylene	0.42	1.04	ND	1.81	4.53	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.83	2.08	ND	5.73	14.32	ND	
96-18-4	1,2,3-Trichloropropane	0.83	2.50	ND	5.03	15.09	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.83	2.50	ND	4.27	12.80	ND	
103-65-1	n-Propylbenzene	0.83	2.92	ND	4.10	14.36	ND	
98-82-8	Isopropylbenzene	0.83	2.92	ND	4.10	14.36	ND	
622-96-8	4-Ethyltoluene	0.83	6.67	ND	4.10	32.82	ND	
108-67-8	1,3,5-Trimethylbenzene	0.83	3.75	ND	4.10	18.46	ND	
124-18-5	Decane	0.83	2.50	ND	4.86	14.57	ND	
98-06-6	tert-butyl benzene	0.83	2.50	ND	4.58	13.74	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.83	3.75	ND	4.10	18.46	ND	
538-93-2	i-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
135-98-8	sec-butylbenzene	0.83	2.92	ND	4.58	16.03	ND	
541-73-1	1,3-Dichlorobenzene	0.83	3.33	ND	5.02	20.07	ND	
99-87-6	Isopropyltoluene	0.83	2.50	ND	4.58	13.74	ND	
100-44-7	Benzyl chloride	0.83	2.08	ND	4.32	10.80	ND	
106-46-7	1,4-Dichlorobenzene	0.83	2.08	ND	5.02	12.54	ND	
104-51-8	n-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
95-50-1	1,2-Dichlorobenzene	0.83	2.92	ND	5.02	17.56	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.25	2.92	ND	12.10	28.23	ND	
120-82-1	1,2,4-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
91-20-3	Naphthalene	2.08	0.42	ND	10.94	2.19	ND	
87-61-6	1,2,3-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
87-68-3	Hexachlorobutadiene	1.04	1.25	ND	11.13	13.35	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	129	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 18**

File Name: 2510018A.D
Description: T-118
Canister: 553
QC_Batch: 033125-MA1

Date Sampled: 03/19/25 **Time:** 13:25
Date Analyzed: 03/31/25 **Time:** 12:32
Can Dilution Factor: 1.14
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.38	0.95	ND	0.65	1.64	ND	
75-71-8	Dichlorodifluoromethane	0.57	0.95	ND	2.82	4.70	ND	
67-56-1	Methanol	1.90	2.28	ND	2.49	2.99	ND	
74-87-3	Chloromethane	0.57	0.95	ND	1.18	1.96	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.38	0.95	ND	2.66	6.65	ND	
75-01-4	Vinyl chloride	0.19	0.95	ND	0.49	2.43	ND	
106-99-0	1,3-Butadiene	0.19	0.95	ND	0.42	2.10	ND	
74-83-9	Bromomethane	0.38	0.95	ND	1.48	3.69	ND	
75-00-3	Chloroethane	0.38	0.95	ND	1.00	2.51	ND	
64-17-5	Ethanol	1.90	12.20	ND	3.59	23.03	ND	
107-02-8	Acrolein	0.38	1.14	ND	0.87	2.62	ND	
75-69-4	Trichlorofluoromethane	0.38	0.95	ND	2.14	5.35	ND	
67-64-1	Acetone	1.90	2.28	ND	4.52	5.43	ND	
67-63-0	2-propanol (isopropylalcohol)	0.76	4.75	ND	1.87	11.69	ND	
75-65-0	t-Butyl alcohol	0.38	3.80	ND	1.15	11.53	ND	
4227-95-6	Methyl iodide	0.38	1.14	ND	2.22	6.67	ND	
75-35-4	1,1-Dichloroethene	0.19	0.95	ND	0.75	3.77	ND	
107-13-1	Acrylonitrile	0.76	1.14	ND	1.65	2.48	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.19	0.95	ND	1.46	7.29	ND	
107-05-1	Allyl chloride	0.19	3.80	ND	0.60	11.91	ND	
75-09-2	Methylene chloride	0.19	0.95	ND	0.66	3.30	ND	
75-15-0	Carbon disulfide	0.38	0.95	ND	1.18	2.96	ND	
156-60-5	trans-1,2-Dichloroethene	0.19	0.76	ND	0.75	3.02	ND	
1634-04-4	Methyl tert butyl ether	0.38	0.76	ND	1.37	2.74	ND	
107-12-0	Propionitrile	0.95	1.52	ND	2.14	3.43	ND	
75-34-3	1,1-Dichloroethane	0.19	0.95	ND	0.77	3.85	ND	
637-92-3	Ethyl tert butyl ether	0.38	0.95	ND	1.59	3.98	ND	
108-05-4	Vinyl acetate	0.19	3.80	ND	0.67	13.40	ND	
78-93-3	2-Butanone (MEK)	0.38	1.14	ND	1.12	3.37	ND	
108-20-3	Diisopropyl ether	0.38	2.28	ND	1.59	9.54	ND	
110-54-3	Hexane	0.38	0.95	ND	1.34	3.35	ND	
126-98-7	Methacrylonitrile	0.38	0.95	ND	1.04	2.61	ND	
141-78-6	Ethyl acetate	0.38	0.95	ND	1.37	3.43	ND	
74-97-5	Bromochloromethane	0.19	0.95	ND	1.01	5.03	ND	
96-33-3	Methyl acrylate	0.38	1.90	ND	1.34	6.70	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.19	1.14	ND	0.56	3.37	ND	
78-83-1	Isobutyl alcohol	0.76	3.04	ND	2.31	9.23	ND	
156-59-2	cis-1,2-Dichloroethene	0.19	0.95	ND	0.75	3.77	ND	
594-20-7	2,2-Dichloropropane	0.19	0.95	ND	0.88	4.40	ND	
67-66-3	Chloroform	0.19	0.95	ND	0.93	4.65	ND	
71-55-6	1,1,1-Trichloroethane	0.19	0.95	ND	1.04	5.19	ND	
107-06-2	1,2-Dichloroethane	0.19	0.95	ND	0.77	3.85	ND	
563-58-6	1,1-Dichloropropene	0.19	0.95	ND	0.86	4.32	ND	
110-82-7	Cyclohexane	0.19	0.95	ND	0.66	3.28	ND	
71-43-2	Benzene	1.33	1.90	ND	4.25	6.08	ND	
56-23-5	Carbon tetrachloride	0.19	0.95	ND	1.20	5.98	ND	
994-05-8	t-Amyl methyl ether	0.38	1.90	ND	1.59	7.95	ND	
540-84-1	2,2,4-Trimethylpentane	0.19	0.95	ND	0.89	4.44	ND	
142-82-5	n-Heptane	0.38	0.95	ND	1.56	3.90	ND	
78-87-5	1,2-Dichloropropane	0.19	0.95	ND	0.88	4.40	ND	
123-91-1	1,4 Dioxane	0.38	1.90	ND	1.37	6.86	ND	
74-95-3	Dibromomethane	0.19	0.95	ND	1.35	6.76	ND	
79-01-6	Trichloroethene (TCE)	0.10	0.95	ND	0.51	5.11	ND	
75-27-4	Bromodichloromethane	0.19	0.95	ND	1.27	6.37	ND	
80-62-6	Methyl methacrylate	0.38	0.95	ND	1.56	3.89	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.38	3.04	ND	1.56	12.48	ND	
10061-01-5	cis-1,3-Dichloropropene	0.19	0.95	ND	0.86	4.32	ND	
108-88-3	Toluene	0.76	0.95	ND	2.87	3.58	ND	
10061-02-6	trans-1,3-Dichloropropene	0.19	0.95	ND	0.86	4.32	ND	
79-00-5	1,1,2-Trichloroethane	0.19	0.95	ND	1.04	5.19	ND	
97-63-2	Ethyl methacrylate	0.38	0.95	ND	1.78	4.44	ND	
591-78-6	2-Hexanone	0.38	3.04	ND	1.56	12.48	ND	
142-28-9	1,3-Dichloropropane	0.19	2.66	ND	0.88	12.31	ND	
111-65-9	Octane	0.38	0.95	ND	1.78	4.44	ND	
124-48-1	Dibromochloromethane	0.38	0.95	ND	3.24	8.10	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.38	0.95	ND	2.92	7.31	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	0.95	ND	0.65	6.45	ND	
108-90-7	Chlorobenzene	0.38	0.95	ND	1.75	4.38	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.38	0.95	ND	2.61	6.53	ND	
100-41-4	Ethylbenzene	0.38	0.95	ND	1.65	4.13	ND	
1330-20-7	m,p-Xylenes	0.38	0.95	ND	1.65	4.13	ND	
111-84-2	Nonane	0.38	0.95	ND	2.00	4.99	ND	
100-42-5	Styrene	0.57	0.95	ND	2.43	4.05	ND	
75-25-2	Bromoform	0.38	0.95	ND	3.93	9.83	ND	
95-47-6	o-Xylene	0.38	0.95	ND	1.65	4.13	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.76	1.90	ND	5.22	13.06	ND	
96-18-4	1,2,3-Trichloropropane	0.76	2.28	ND	4.59	13.76	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.76	2.28	ND	3.89	11.67	ND	
103-65-1	n-Propylbenzene	0.76	2.66	ND	3.74	13.09	ND	
98-82-8	Isopropylbenzene	0.76	2.66	ND	3.74	13.09	ND	
622-96-8	4-Ethyltoluene	0.76	6.08	ND	3.74	29.93	ND	
108-67-8	1,3,5-Trimethylbenzene	0.76	3.42	ND	3.74	16.84	ND	
124-18-5	Decane	0.76	2.28	ND	4.43	13.29	ND	
98-06-6	tert-butyl benzene	0.76	2.28	ND	4.18	12.53	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.76	3.42	ND	3.74	16.84	ND	
538-93-2	i-Butylbenzene	0.76	2.28	ND	4.18	12.53	ND	
135-98-8	sec-butylbenzene	0.76	2.66	ND	4.18	14.62	ND	
541-73-1	1,3-Dichlorobenzene	0.76	3.04	ND	4.58	18.30	ND	
99-87-6	Isopropyltoluene	0.76	2.28	ND	4.18	12.53	ND	
100-44-7	Benzyl chloride	0.76	1.90	ND	3.94	9.85	ND	
106-46-7	1,4-Dichlorobenzene	0.76	1.90	ND	4.58	11.44	ND	
104-51-8	n-Butylbenzene	0.76	2.28	ND	4.18	12.53	ND	
95-50-1	1,2-Dichlorobenzene	0.76	2.66	ND	4.58	16.01	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.14	2.66	ND	11.03	25.74	ND	
120-82-1	1,2,4-Trichlorobenzene	1.14	1.90	ND	8.47	14.12	ND	
91-20-3	Naphthalene	1.90	0.38	ND	9.98	2.00	ND	
87-61-6	1,2,3-Trichlorobenzene	1.14	1.90	ND	8.47	14.12	ND	
87-68-3	Hexachlorobutadiene	0.95	1.14	ND	10.15	12.18	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	112	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 19**

File Name: 2510019A.D
Description: T-201
Canister: 726
QC_Batch: 040125-MA1

Date Sampled: 03/20/25 **Time:** 08:23
Date Analyzed: 04/01/25 **Time:** 13:08
Can Dilution Factor: 1.21
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	1.01	0.93	0.70	1.74	1.61	J
75-71-8	Dichlorodifluoromethane	0.61	1.01	ND	3.00	4.99	ND	
67-56-1	Methanol	2.02	2.42	2.27	2.64	3.17	2.98	J
74-87-3	Chloromethane	0.61	1.01	ND	1.25	2.09	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	1.01	ND	2.82	7.06	ND	
75-01-4	Vinyl chloride	0.20	1.01	ND	0.52	2.58	ND	
106-99-0	1,3-Butadiene	0.20	1.01	ND	0.45	2.23	ND	
74-83-9	Bromomethane	0.40	1.01	ND	1.57	3.92	ND	
75-00-3	Chloroethane	0.40	1.01	ND	1.07	2.66	ND	
64-17-5	Ethanol	2.02	12.95	ND	3.81	24.44	ND	
107-02-8	Acrolein	0.40	1.21	1.00	0.93	2.78	2.29	J
75-69-4	Trichlorofluoromethane	0.40	1.01	ND	2.27	5.67	ND	
67-64-1	Acetone	2.02	2.42	4.66	4.80	5.76	11.09	
67-63-0	2-propanol (isopropylalcohol)	0.81	5.04	ND	1.99	12.41	ND	
75-65-0	t-Butyl alcohol	0.40	4.03	ND	1.22	12.24	ND	
4227-95-6	Methyl iodide	0.40	1.21	ND	2.36	7.08	ND	
75-35-4	1,1-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
107-13-1	Acrylonitrile	0.81	1.21	ND	1.75	2.63	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.01	ND	1.55	7.74	ND	
107-05-1	Allyl chloride	0.20	4.03	ND	0.63	12.64	ND	
75-09-2	Methylene chloride	0.20	1.01	ND	0.70	3.51	ND	
75-15-0	Carbon disulfide	0.40	1.01	ND	1.26	3.14	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.81	ND	0.80	3.20	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.81	ND	1.46	2.91	ND	
107-12-0	Propionitrile	1.01	1.61	ND	2.28	3.64	ND	
75-34-3	1,1-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
637-92-3	Ethyl tert butyl ether	0.40	1.01	ND	1.69	4.22	ND	
108-05-4	Vinyl acetate	0.20	4.03	ND	0.71	14.22	ND	
78-93-3	2-Butanone (MEK)	0.40	1.21	0.52	1.19	3.57	1.55	J
108-20-3	Diisopropyl ether	0.40	2.42	ND	1.69	10.13	ND	
110-54-3	Hexane	0.40	1.01	ND	1.42	3.56	ND	
126-98-7	Methacrylonitrile	0.40	1.01	ND	1.11	2.77	ND	
141-78-6	Ethyl acetate	0.40	1.01	ND	1.46	3.64	ND	
74-97-5	Bromochloromethane	0.20	1.01	ND	1.07	5.34	ND	
96-33-3	Methyl acrylate	0.40	2.02	ND	1.42	7.11	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.21	ND	0.60	3.57	ND	
78-83-1	Isobutyl alcohol	0.81	3.23	ND	2.45	9.79	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
594-20-7	2,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
67-66-3	Chloroform	0.20	1.01	0.29	0.99	4.93	1.41	J
71-55-6	1,1,1-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
107-06-2	1,2-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
563-58-6	1,1-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
110-82-7	Cyclohexane	0.20	1.01	ND	0.70	3.48	ND	
71-43-2	Benzene	1.41	2.02	ND	4.52	6.45	ND	
56-23-5	Carbon tetrachloride	0.20	1.01	ND	1.27	6.35	ND	
994-05-8	t-Amyl methyl ether	0.40	2.02	ND	1.69	8.44	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.01	ND	0.94	4.72	ND	
142-82-5	n-Heptane	0.40	1.01	ND	1.66	4.14	ND	
78-87-5	1,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
123-91-1	1,4 Dioxane	0.40	2.02	ND	1.46	7.28	ND	
74-95-3	Dibromomethane	0.20	1.01	ND	1.44	7.18	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.01	ND	0.54	5.43	ND	
75-27-4	Bromodichloromethane	0.20	1.01	ND	1.35	6.76	ND	
80-62-6	Methyl methacrylate	0.40	1.01	ND	1.65	4.13	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.23	ND	1.66	13.24	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
108-88-3	Toluene	0.81	1.01	ND	3.04	3.80	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
97-63-2	Ethyl methacrylate	0.40	1.01	ND	1.89	4.72	ND	
591-78-6	2-Hexanone	0.40	3.23	ND	1.66	13.24	ND	
142-28-9	1,3-Dichloropropane	0.20	2.82	ND	0.93	13.07	ND	
111-65-9	Octane	0.40	1.01	ND	1.89	4.72	ND	
124-48-1	Dibromochloromethane	0.40	1.01	ND	3.44	8.60	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	1.01	ND	3.10	7.76	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.01	ND	0.68	6.85	ND	
108-90-7	Chlorobenzene	0.40	1.01	ND	1.86	4.65	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	1.01	ND	2.77	6.93	ND	
100-41-4	Ethylbenzene	0.40	1.01	ND	1.75	4.39	ND	
1330-20-7	m,p-Xylenes	0.40	1.01	ND	1.75	4.39	ND	
111-84-2	Nonane	0.40	1.01	ND	2.12	5.30	ND	
100-42-5	Styrene	0.61	1.01	ND	2.58	4.30	ND	
75-25-2	Bromoform	0.40	1.01	ND	4.17	10.44	ND	
95-47-6	o-Xylene	0.40	1.01	ND	1.75	4.39	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.81	2.02	ND	5.54	13.86	ND	
96-18-4	1,2,3-Trichloropropane	0.81	2.42	ND	4.87	14.61	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.81	2.42	ND	4.13	12.39	ND	
103-65-1	n-Propylbenzene	0.81	2.82	ND	3.97	13.90	ND	
98-82-8	Isopropylbenzene	0.81	2.82	ND	3.97	13.90	ND	
622-96-8	4-Ethyltoluene	0.81	6.45	ND	3.97	31.77	ND	
108-67-8	1,3,5-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
124-18-5	Decane	0.81	2.42	ND	4.70	14.10	ND	
98-06-6	tert-butyl benzene	0.81	2.42	ND	4.43	13.30	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
538-93-2	i-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
135-98-8	sec-butylbenzene	0.81	2.82	ND	4.43	15.52	ND	
541-73-1	1,3-Dichlorobenzene	0.81	3.23	ND	4.86	19.43	ND	
99-87-6	Isopropyltoluene	0.81	2.42	ND	4.43	13.30	ND	
100-44-7	Benzyl chloride	0.81	2.02	ND	4.18	10.46	ND	
106-46-7	1,4-Dichlorobenzene	0.81	2.02	ND	4.86	12.14	ND	
104-51-8	n-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
95-50-1	1,2-Dichlorobenzene	0.81	2.82	ND	4.86	17.00	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.21	2.82	ND	11.71	27.32	ND	
120-82-1	1,2,4-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
91-20-3	Naphthalene	2.02	0.40	ND	10.59	2.12	ND	
87-61-6	1,2,3-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
87-68-3	Hexachlorobutadiene	1.01	1.21	ND	10.77	12.92	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	100	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 20

File Name: 2510020A.D
Description: T-202
Canister: 883
QC_Batch: 040125-MA1

Date Sampled: 03/20/25 **Time:** 08:38
Date Analyzed: 04/01/25 **Time:** 17:51
Can Dilution Factor: 1.18
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.39	0.98	2.81	0.68	1.69	4.83	
75-71-8	Dichlorodifluoromethane	0.59	0.98	ND	2.92	4.87	ND	
67-56-1	Methanol	1.97	2.36	ND	2.58	3.09	ND	
74-87-3	Chloromethane	0.59	0.98	ND	1.22	2.03	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.39	0.98	ND	2.75	6.88	ND	
75-01-4	Vinyl chloride	0.20	0.98	ND	0.51	2.52	ND	
106-99-0	1,3-Butadiene	0.20	0.98	ND	0.44	2.18	ND	
74-83-9	Bromomethane	0.39	0.98	ND	1.53	3.82	ND	
75-00-3	Chloroethane	0.39	0.98	ND	1.04	2.60	ND	
64-17-5	Ethanol	1.97	12.63	ND	3.71	23.84	ND	
107-02-8	Acrolein	0.39	1.18	2.14	0.90	2.71	4.92	
75-69-4	Trichlorofluoromethane	0.39	0.98	ND	2.21	5.53	ND	
67-64-1	Acetone	1.97	2.36	4.69	4.68	5.62	11.16	
67-63-0	2-propanol (isopropylalcohol)	0.79	4.92	ND	1.94	12.10	ND	
75-65-0	t-Butyl alcohol	0.39	3.93	ND	1.19	11.94	ND	
4227-95-6	Methyl iodide	0.39	1.18	ND	2.30	6.91	ND	
75-35-4	1,1-Dichloroethene	0.20	0.98	ND	0.78	3.90	ND	
107-13-1	Acrylonitrile	0.79	1.18	ND	1.71	2.57	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	0.98	ND	1.51	7.55	ND	
107-05-1	Allyl chloride	0.20	3.93	ND	0.62	12.32	ND	
75-09-2	Methylene chloride	0.20	0.98	ND	0.68	3.42	ND	
75-15-0	Carbon disulfide	0.39	0.98	ND	1.23	3.06	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.79	ND	0.78	3.12	ND	
1634-04-4	Methyl tert butyl ether	0.39	0.79	ND	1.42	2.84	ND	
107-12-0	Propionitrile	0.98	1.57	ND	2.22	3.55	ND	
75-34-3	1,1-Dichloroethane	0.20	0.98	ND	0.80	3.99	ND	
637-92-3	Ethyl tert butyl ether	0.39	0.98	ND	1.65	4.12	ND	
108-05-4	Vinyl acetate	0.20	3.93	ND	0.69	13.87	ND	
78-93-3	2-Butanone (MEK)	0.39	1.18	0.60	1.16	3.48	1.77	J
108-20-3	Diisopropyl ether	0.39	2.36	ND	1.65	9.88	ND	
110-54-3	Hexane	0.39	0.98	ND	1.39	3.47	ND	
126-98-7	Methacrylonitrile	0.39	0.98	ND	1.08	2.70	ND	
141-78-6	Ethyl acetate	0.39	0.98	ND	1.42	3.55	ND	
74-97-5	Bromochloromethane	0.20	0.98	ND	1.04	5.21	ND	
96-33-3	Methyl acrylate	0.39	1.97	ND	1.39	6.93	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.18	ND	0.58	3.48	ND	
78-83-1	Isobutyl alcohol	0.79	3.15	ND	2.39	9.55	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	0.98	ND	0.78	3.90	ND	
594-20-7	2,2-Dichloropropane	0.20	0.98	ND	0.91	4.55	ND	
67-66-3	Chloroform	0.20	0.98	ND	0.96	4.81	ND	
71-55-6	1,1,1-Trichloroethane	0.20	0.98	ND	1.07	5.37	ND	
107-06-2	1,2-Dichloroethane	0.20	0.98	ND	0.80	3.99	ND	
563-58-6	1,1-Dichloropropene	0.20	0.98	ND	0.89	4.47	ND	
110-82-7	Cyclohexane	0.20	0.98	ND	0.68	3.39	ND	
71-43-2	Benzene	1.38	1.97	1.49	4.40	6.29	4.76	J
56-23-5	Carbon tetrachloride	0.20	0.98	ND	1.24	6.19	ND	
994-05-8	t-Amyl methyl ether	0.39	1.97	ND	1.65	8.23	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	0.98	ND	0.92	4.60	ND	
142-82-5	n-Heptane	0.39	0.98	ND	1.61	4.04	ND	
78-87-5	1,2-Dichloropropane	0.20	0.98	ND	0.91	4.55	ND	
123-91-1	1,4 Dioxane	0.39	1.97	ND	1.42	7.10	ND	
74-95-3	Dibromomethane	0.20	0.98	ND	1.40	7.00	ND	
79-01-6	Trichloroethene (TCE)	0.10	0.98	ND	0.53	5.29	ND	
75-27-4	Bromodichloromethane	0.20	0.98	ND	1.32	6.60	ND	
80-62-6	Methyl methacrylate	0.39	0.98	ND	1.61	4.03	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.39	3.15	ND	1.61	12.91	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	0.98	ND	0.89	4.47	ND	
108-88-3	Toluene	0.79	0.98	ND	2.97	3.71	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	0.98	ND	0.89	4.47	ND	
79-00-5	1,1,2-Trichloroethane	0.20	0.98	ND	1.07	5.37	ND	
97-63-2	Ethyl methacrylate	0.39	0.98	ND	1.84	4.60	ND	
591-78-6	2-Hexanone	0.39	3.15	ND	1.61	12.91	ND	
142-28-9	1,3-Dichloropropane	0.20	2.75	ND	0.91	12.74	ND	
111-65-9	Octane	0.39	0.98	ND	1.84	4.60	ND	
124-48-1	Dibromochloromethane	0.39	0.98	ND	3.36	8.39	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.39	0.98	ND	3.03	7.57	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	0.98	ND	0.67	6.68	ND	
108-90-7	Chlorobenzene	0.39	0.98	ND	1.81	4.53	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.39	0.98	ND	2.70	6.76	ND	
100-41-4	Ethylbenzene	0.39	0.98	ND	1.71	4.28	ND	
1330-20-7	m,p-Xylenes	0.39	0.98	ND	1.71	4.28	ND	
111-84-2	Nonane	0.39	0.98	ND	2.07	5.17	ND	
100-42-5	Styrene	0.59	0.98	ND	2.52	4.20	ND	
75-25-2	Bromoform	0.39	0.98	ND	4.07	10.18	ND	
95-47-6	o-Xylene	0.39	0.98	ND	1.71	4.28	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.79	1.97	ND	5.41	13.52	ND	
96-18-4	1,2,3-Trichloropropane	0.79	2.36	ND	4.75	14.25	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.79	2.36	ND	4.03	12.08	ND	
103-65-1	n-Propylbenzene	0.79	2.75	ND	3.87	13.55	ND	
98-82-8	Isopropylbenzene	0.79	2.75	ND	3.87	13.55	ND	
622-96-8	4-Ethyltoluene	0.79	6.29	ND	3.87	30.98	ND	
108-67-8	1,3,5-Trimethylbenzene	0.79	3.54	ND	3.87	17.43	ND	
124-18-5	Decane	0.79	2.36	ND	4.58	13.75	ND	
98-06-6	tert-butyl benzene	0.79	2.36	ND	4.32	12.97	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.79	3.54	ND	3.87	17.43	ND	
538-93-2	i-Butylbenzene	0.79	2.36	ND	4.32	12.97	ND	
135-98-8	sec-butylbenzene	0.79	2.75	ND	4.32	15.13	ND	
541-73-1	1,3-Dichlorobenzene	0.79	3.15	ND	4.74	18.94	ND	
99-87-6	Isopropyltoluene	0.79	2.36	ND	4.32	12.97	ND	
100-44-7	Benzyl chloride	0.79	1.97	ND	4.08	10.20	ND	
106-46-7	1,4-Dichlorobenzene	0.79	1.97	ND	4.74	11.84	ND	
104-51-8	n-Butylbenzene	0.79	2.36	ND	4.32	12.97	ND	
95-50-1	1,2-Dichlorobenzene	0.79	2.75	ND	4.74	16.58	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.18	2.75	ND	11.42	26.65	ND	
120-82-1	1,2,4-Trichlorobenzene	1.18	1.97	ND	8.77	14.61	ND	
91-20-3	Naphthalene	1.97	0.39	ND	10.33	2.07	ND	
87-61-6	1,2,3-Trichlorobenzene	1.18	1.97	ND	8.77	14.61	ND	
87-68-3	Hexachlorobutadiene	0.98	1.18	ND	10.50	12.60	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	102	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 21**

File Name: 2510021A.D **Date Sampled:** 03/20/25 **Time:** 08:33
Description: T-203 **Date Analyzed:** 04/03/25 **Time:** 18:21
Canister: 858 **Can Dilution Factor:** 1.20
QC_Batch: 040325-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	1.00	111.00	0.69	1.72	191.30	E
75-71-8	Dichlorodifluoromethane	0.60	1.00	ND	2.97	4.95	ND	
67-56-1	Methanol	2.00	2.40	ND	2.62	3.15	ND	
74-87-3	Chloromethane	0.60	1.00	ND	1.24	2.07	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	1.00	ND	2.80	7.00	ND	
75-01-4	Vinyl chloride	0.20	1.00	ND	0.52	2.56	ND	
106-99-0	1,3-Butadiene	0.20	1.00	ND	0.45	2.22	ND	
74-83-9	Bromomethane	0.40	1.00	ND	1.55	3.89	ND	
75-00-3	Chloroethane	0.40	1.00	ND	1.06	2.64	ND	
64-17-5	Ethanol	2.00	12.84	ND	3.78	24.24	ND	
107-02-8	Acrolein	0.40	1.20	ND	0.92	2.76	ND	
75-69-4	Trichlorofluoromethane	0.40	1.00	ND	2.25	5.63	ND	
67-64-1	Acetone	2.00	2.40	7.02	4.76	5.71	16.70	
67-63-0	2-propanol (isopropylalcohol)	0.80	5.00	ND	1.97	12.31	ND	
75-65-0	t-Butyl alcohol	0.40	4.00	ND	1.21	12.14	ND	
4227-95-6	Methyl iodide	0.40	1.20	ND	2.34	7.02	ND	
75-35-4	1,1-Dichloroethene	0.20	1.00	ND	0.79	3.97	ND	
107-13-1	Acrylonitrile	0.80	1.20	ND	1.74	2.61	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.00	ND	1.53	7.67	ND	
107-05-1	Allyl chloride	0.20	4.00	ND	0.63	12.53	ND	
75-09-2	Methylene chloride	0.20	1.00	ND	0.70	3.48	ND	
75-15-0	Carbon disulfide	0.40	1.00	ND	1.25	3.12	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.80	ND	0.79	3.17	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.80	ND	1.44	2.89	ND	
107-12-0	Propionitrile	1.00	1.60	ND	2.26	3.61	ND	
75-34-3	1,1-Dichloroethane	0.20	1.00	ND	0.81	4.05	ND	
637-92-3	Ethyl tert butyl ether	0.40	1.00	ND	1.67	4.19	ND	
108-05-4	Vinyl acetate	0.20	4.00	ND	0.71	14.10	ND	
78-93-3	2-Butanone (MEK)	0.40	1.20	0.92	1.18	3.54	2.71	J
108-20-3	Diisopropyl ether	0.40	2.40	ND	1.67	10.05	ND	
110-54-3	Hexane	0.40	1.00	1.14	1.41	3.53	4.01	
126-98-7	Methacrylonitrile	0.40	1.00	ND	1.10	2.75	ND	
141-78-6	Ethyl acetate	0.40	1.00	ND	1.44	3.61	ND	
74-97-5	Bromochloromethane	0.20	1.00	ND	1.06	5.30	ND	
96-33-3	Methyl acrylate	0.40	2.00	ND	1.41	7.05	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.20	2.42	0.59	3.54	7.13	
78-83-1	Isobutyl alcohol	0.80	3.20	ND	2.43	9.71	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.00	0.38	0.79	3.97	1.52	J
594-20-7	2,2-Dichloropropane	0.20	1.00	ND	0.93	4.63	ND	
67-66-3	Chloroform	0.20	1.00	ND	0.98	4.89	ND	
71-55-6	1,1,1-Trichloroethane	0.20	1.00	ND	1.09	5.46	ND	
107-06-2	1,2-Dichloroethane	0.20	1.00	0.32	0.81	4.05	1.29	J
563-58-6	1,1-Dichloropropene	0.20	1.00	ND	0.91	4.55	ND	
110-82-7	Cyclohexane	0.20	1.00	ND	0.69	3.45	ND	
71-43-2	Benzene	1.40	2.00	6.68	4.48	6.40	21.37	
56-23-5	Carbon tetrachloride	0.20	1.00	ND	1.26	6.30	ND	
994-05-8	t-Amyl methyl ether	0.40	2.00	ND	1.67	8.37	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.00	ND	0.94	4.68	ND	
142-82-5	n-Heptane	0.40	1.00	1.99	1.64	4.10	8.15	
78-87-5	1,2-Dichloropropane	0.20	1.00	ND	0.93	4.63	ND	
123-91-1	1,4 Dioxane	0.40	2.00	ND	1.44	7.22	ND	
74-95-3	Dibromomethane	0.20	1.00	ND	1.42	7.12	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.00	ND	0.54	5.38	ND	
75-27-4	Bromodichloromethane	0.20	1.00	ND	1.34	6.71	ND	
80-62-6	Methyl methacrylate	0.40	1.00	ND	1.64	4.10	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.20	ND	1.64	13.13	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.00	ND	0.91	4.55	ND	
108-88-3	Toluene	0.80	1.00	21.79	3.02	3.77	82.18	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.00	ND	0.91	4.55	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.00	ND	1.09	5.46	ND	
97-63-2	Ethyl methacrylate	0.40	1.00	ND	1.87	4.68	ND	
591-78-6	2-Hexanone	0.40	3.20	ND	1.64	13.13	ND	
142-28-9	1,3-Dichloropropane	0.20	2.80	ND	0.93	12.96	ND	
111-65-9	Octane	0.40	1.00	1.88	1.87	4.68	8.80	
124-48-1	Dibromochloromethane	0.40	1.00	ND	3.41	8.53	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	1.00	ND	3.08	7.70	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.00	0.22	0.68	6.79	1.52	J
108-90-7	Chlorobenzene	0.40	1.00	ND	1.84	4.61	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	1.00	ND	2.75	6.87	ND	
100-41-4	Ethylbenzene	0.40	1.00	10.89	1.74	4.35	47.37	
1330-20-7	m,p-Xylenes	0.40	1.00	33.00	1.74	4.35	143.54	
111-84-2	Nonane	0.40	1.00	7.48	2.10	5.25	39.29	
100-42-5	Styrene	0.60	1.00	0.73	2.56	4.27	3.13	J
75-25-2	Bromoform	0.40	1.00	ND	4.14	10.35	ND	
95-47-6	o-Xylene	0.40	1.00	17.02	1.74	4.35	74.05	
79-34-5	1,1,2,2-Tetrachloroethane	0.80	2.00	ND	5.50	13.74	ND	
96-18-4	1,2,3-Trichloropropane	0.80	2.40	ND	4.83	14.49	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.80	2.40	ND	4.10	12.29	ND	
103-65-1	n-Propylbenzene	0.80	2.80	ND	3.94	13.78	ND	
98-82-8	Isopropylbenzene	0.80	2.80	ND	3.94	13.78	ND	
622-96-8	4-Ethyltoluene	0.80	6.40	2.61	3.94	31.51	12.86	J
108-67-8	1,3,5-Trimethylbenzene	0.80	3.60	0.94	3.94	17.72	4.65	J
124-18-5	Decane	0.80	2.40	3.10	4.66	13.99	18.08	
98-06-6	tert-butyl benzene	0.80	2.40	ND	4.40	13.19	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.80	3.60	0.82	3.94	17.72	4.06	J
538-93-2	i-Butylbenzene	0.80	2.40	ND	4.40	13.19	ND	
135-98-8	sec-butylbenzene	0.80	2.80	ND	4.40	15.39	ND	
541-73-1	1,3-Dichlorobenzene	0.80	3.20	ND	4.82	19.27	ND	
99-87-6	Isopropyltoluene	0.80	2.40	14.92	4.40	13.19	82.00	
100-44-7	Benzyl chloride	0.80	2.00	ND	4.15	10.37	ND	
106-46-7	1,4-Dichlorobenzene	0.80	2.00	ND	4.82	12.04	ND	
104-51-8	n-Butylbenzene	0.80	2.40	ND	4.40	13.19	ND	
95-50-1	1,2-Dichlorobenzene	0.80	2.80	ND	4.82	16.86	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.20	2.80	ND	11.61	27.10	ND	
120-82-1	1,2,4-Trichlorobenzene	1.20	2.00	ND	8.92	14.86	ND	
91-20-3	Naphthalene	2.00	0.40	ND	10.50	2.10	ND	
87-61-6	1,2,3-Trichlorobenzene	1.20	2.00	ND	8.92	14.86	ND	
87-68-3	Hexachlorobutadiene	1.00	1.20	ND	10.68	12.82	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	101	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 22**

File Name: 2510022A.D
Description: T-204
Canister: 758
QC_Batch: 040125-MA1

Date Sampled: 03/20/25 **Time:** 08:29
Date Analyzed: 04/01/25 **Time:** 19:45
Can Dilution Factor: 1.18
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.39	0.98	59.59	0.68	1.69	102.70	
75-71-8	Dichlorodifluoromethane	0.59	0.98	ND	2.92	4.87	ND	
67-56-1	Methanol	1.97	2.36	ND	2.58	3.09	ND	
74-87-3	Chloromethane	0.59	0.98	ND	1.22	2.03	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.39	0.98	ND	2.75	6.88	ND	
75-01-4	Vinyl chloride	0.20	0.98	ND	0.51	2.52	ND	
106-99-0	1,3-Butadiene	0.20	0.98	ND	0.44	2.18	ND	
74-83-9	Bromomethane	0.39	0.98	ND	1.53	3.82	ND	
75-00-3	Chloroethane	0.39	0.98	ND	1.04	2.60	ND	
64-17-5	Ethanol	1.97	12.63	3.22	3.71	23.84	6.08	J
107-02-8	Acrolein	0.39	1.18	ND	0.90	2.71	ND	
75-69-4	Trichlorofluoromethane	0.39	0.98	ND	2.21	5.53	ND	
67-64-1	Acetone	1.97	2.36	7.21	4.68	5.62	17.17	
67-63-0	2-propanol (isopropylalcohol)	0.79	4.92	ND	1.94	12.10	ND	
75-65-0	t-Butyl alcohol	0.39	3.93	ND	1.19	11.94	ND	
4227-95-6	Methyl iodide	0.39	1.18	ND	2.30	6.91	ND	
75-35-4	1,1-Dichloroethene	0.20	0.98	ND	0.78	3.90	ND	
107-13-1	Acrylonitrile	0.79	1.18	ND	1.71	2.57	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	0.98	ND	1.51	7.55	ND	
107-05-1	Allyl chloride	0.20	3.93	ND	0.62	12.32	ND	
75-09-2	Methylene chloride	0.20	0.98	ND	0.68	3.42	ND	
75-15-0	Carbon disulfide	0.39	0.98	0.42	1.23	3.06	1.31	J
156-60-5	trans-1,2-Dichloroethene	0.20	0.79	ND	0.78	3.12	ND	
1634-04-4	Methyl tert butyl ether	0.39	0.79	ND	1.42	2.84	ND	
107-12-0	Propionitrile	0.98	1.57	ND	2.22	3.55	ND	
75-34-3	1,1-Dichloroethane	0.20	0.98	ND	0.80	3.99	ND	
637-92-3	Ethyl tert butyl ether	0.39	0.98	ND	1.65	4.12	ND	
108-05-4	Vinyl acetate	0.20	3.93	ND	0.69	13.87	ND	
78-93-3	2-Butanone (MEK)	0.39	1.18	2.83	1.16	3.48	8.37	
108-20-3	Diisopropyl ether	0.39	2.36	ND	1.65	9.88	ND	
110-54-3	Hexane	0.39	0.98	ND	1.39	3.47	ND	
126-98-7	Methacrylonitrile	0.39	0.98	ND	1.08	2.70	ND	
141-78-6	Ethyl acetate	0.39	0.98	ND	1.42	3.55	ND	
74-97-5	Bromochloromethane	0.20	0.98	ND	1.04	5.21	ND	
96-33-3	Methyl acrylate	0.39	1.97	ND	1.39	6.93	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.18	1.09	0.58	3.48	3.21	J
78-83-1	Isobutyl alcohol	0.79	3.15	ND	2.39	9.55	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	0.98	ND	0.78	3.90	ND	
594-20-7	2,2-Dichloropropane	0.20	0.98	ND	0.91	4.55	ND	
67-66-3	Chloroform	0.20	0.98	ND	0.96	4.81	ND	
71-55-6	1,1,1-Trichloroethane	0.20	0.98	ND	1.07	5.37	ND	
107-06-2	1,2-Dichloroethane	0.20	0.98	ND	0.80	3.99	ND	
563-58-6	1,1-Dichloropropene	0.20	0.98	ND	0.89	4.47	ND	
110-82-7	Cyclohexane	0.20	0.98	ND	0.68	3.39	ND	
71-43-2	Benzene	1.38	1.97	ND	4.40	6.29	ND	
56-23-5	Carbon tetrachloride	0.20	0.98	ND	1.24	6.19	ND	
994-05-8	t-Amyl methyl ether	0.39	1.97	ND	1.65	8.23	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	0.98	ND	0.92	4.60	ND	
142-82-5	n-Heptane	0.39	0.98	ND	1.61	4.04	ND	
78-87-5	1,2-Dichloropropane	0.20	0.98	ND	0.91	4.55	ND	
123-91-1	1,4 Dioxane	0.39	1.97	ND	1.42	7.10	ND	
74-95-3	Dibromomethane	0.20	0.98	ND	1.40	7.00	ND	
79-01-6	Trichloroethene (TCE)	0.10	0.98	ND	0.53	5.29	ND	
75-27-4	Bromodichloromethane	0.20	0.98	ND	1.32	6.60	ND	
80-62-6	Methyl methacrylate	0.39	0.98	ND	1.61	4.03	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.39	3.15	ND	1.61	12.91	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	0.98	ND	0.89	4.47	ND	
108-88-3	Toluene	0.79	0.98	ND	2.97	3.71	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	0.98	ND	0.89	4.47	ND	
79-00-5	1,1,2-Trichloroethane	0.20	0.98	ND	1.07	5.37	ND	
97-63-2	Ethyl methacrylate	0.39	0.98	ND	1.84	4.60	ND	
591-78-6	2-Hexanone	0.39	3.15	ND	1.61	12.91	ND	
142-28-9	1,3-Dichloropropane	0.20	2.75	ND	0.91	12.74	ND	
111-65-9	Octane	0.39	0.98	ND	1.84	4.60	ND	
124-48-1	Dibromochloromethane	0.39	0.98	ND	3.36	8.39	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.39	0.98	ND	3.03	7.57	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	0.98	ND	0.67	6.68	ND	
108-90-7	Chlorobenzene	0.39	0.98	ND	1.81	4.53	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.39	0.98	ND	2.70	6.76	ND	
100-41-4	Ethylbenzene	0.39	0.98	ND	1.71	4.28	ND	
1330-20-7	m,p-Xylenes	0.39	0.98	0.59	1.71	4.28	2.59	J
111-84-2	Nonane	0.39	0.98	ND	2.07	5.17	ND	
100-42-5	Styrene	0.59	0.98	ND	2.52	4.20	ND	
75-25-2	Bromoform	0.39	0.98	ND	4.07	10.18	ND	
95-47-6	o-Xylene	0.39	0.98	0.40	1.71	4.28	1.73	J
79-34-5	1,1,2,2-Tetrachloroethane	0.79	1.97	ND	5.41	13.52	ND	
96-18-4	1,2,3-Trichloropropane	0.79	2.36	ND	4.75	14.25	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.79	2.36	ND	4.03	12.08	ND	
103-65-1	n-Propylbenzene	0.79	2.75	ND	3.87	13.55	ND	
98-82-8	Isopropylbenzene	0.79	2.75	ND	3.87	13.55	ND	
622-96-8	4-Ethyltoluene	0.79	6.29	ND	3.87	30.98	ND	
108-67-8	1,3,5-Trimethylbenzene	0.79	3.54	ND	3.87	17.43	ND	
124-18-5	Decane	0.79	2.36	ND	4.58	13.75	ND	
98-06-6	tert-butyl benzene	0.79	2.36	ND	4.32	12.97	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.79	3.54	ND	3.87	17.43	ND	
538-93-2	i-Butylbenzene	0.79	2.36	ND	4.32	12.97	ND	
135-98-8	sec-butylbenzene	0.79	2.75	ND	4.32	15.13	ND	
541-73-1	1,3-Dichlorobenzene	0.79	3.15	ND	4.74	18.94	ND	
99-87-6	Isopropyltoluene	0.79	2.36	ND	4.32	12.97	ND	
100-44-7	Benzyl chloride	0.79	1.97	ND	4.08	10.20	ND	
106-46-7	1,4-Dichlorobenzene	0.79	1.97	ND	4.74	11.84	ND	
104-51-8	n-Butylbenzene	0.79	2.36	ND	4.32	12.97	ND	
95-50-1	1,2-Dichlorobenzene	0.79	2.75	ND	4.74	16.58	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.18	2.75	ND	11.42	26.65	ND	
120-82-1	1,2,4-Trichlorobenzene	1.18	1.97	ND	8.77	14.61	ND	
91-20-3	Naphthalene	1.97	0.39	ND	10.33	2.07	ND	
87-61-6	1,2,3-Trichlorobenzene	1.18	1.97	ND	8.77	14.61	ND	
87-68-3	Hexachlorobutadiene	0.98	1.18	ND	10.50	12.60	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	112	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 23

File Name: 2510023A.D
Description: T-205
Canister: 659
QC_Batch: 040125-MA1

Date Sampled: 03/20/25 **Time:** 10:00
Date Analyzed: 04/01/25 **Time:** 19:07
Can Dilution Factor: 1.27
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.06	2.34	0.73	1.82	4.04	
75-71-8	Dichlorodifluoromethane	0.64	1.06	ND	3.14	5.24	ND	
67-56-1	Methanol	2.12	2.54	9.67	2.77	3.33	12.67	
74-87-3	Chloromethane	0.64	1.06	ND	1.31	2.19	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.06	ND	2.96	7.41	ND	
75-01-4	Vinyl chloride	0.21	1.06	ND	0.55	2.71	ND	
106-99-0	1,3-Butadiene	0.21	1.06	ND	0.47	2.34	ND	
74-83-9	Bromomethane	0.42	1.06	ND	1.65	4.11	ND	
75-00-3	Chloroethane	0.42	1.06	ND	1.12	2.80	ND	
64-17-5	Ethanol	2.12	13.59	ND	4.00	25.66	ND	
107-02-8	Acrolein	0.42	1.27	1.89	0.97	2.92	4.33	
75-69-4	Trichlorofluoromethane	0.42	1.06	ND	2.38	5.96	ND	
67-64-1	Acetone	2.12	2.54	7.04	5.04	6.04	16.74	
67-63-0	2-propanol (isopropylalcohol)	0.85	5.29	2.63	2.08	13.02	6.48	J
75-65-0	t-Butyl alcohol	0.42	4.23	ND	1.28	12.85	ND	
4227-95-6	Methyl iodide	0.42	1.27	ND	2.48	7.43	ND	
75-35-4	1,1-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
107-13-1	Acrylonitrile	0.85	1.27	ND	1.84	2.76	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.06	ND	1.62	8.12	ND	
107-05-1	Allyl chloride	0.21	4.23	ND	0.66	13.26	ND	
75-09-2	Methylene chloride	0.21	1.06	ND	0.74	3.68	ND	
75-15-0	Carbon disulfide	0.42	1.06	ND	1.32	3.30	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.85	ND	0.84	3.36	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.85	ND	1.53	3.05	ND	
107-12-0	Propionitrile	1.06	1.69	ND	2.39	3.82	ND	
75-34-3	1,1-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.06	ND	1.77	4.43	ND	
108-05-4	Vinyl acetate	0.21	4.23	ND	0.75	14.93	ND	
78-93-3	2-Butanone (MEK)	0.42	1.27	0.75	1.25	3.75	2.21	J
108-20-3	Diisopropyl ether	0.42	2.54	ND	1.77	10.63	ND	
110-54-3	Hexane	0.42	1.06	ND	1.49	3.74	ND	
126-98-7	Methacrylonitrile	0.42	1.06	ND	1.16	2.91	ND	
141-78-6	Ethyl acetate	0.42	1.06	ND	1.53	3.82	ND	
74-97-5	Bromochloromethane	0.21	1.06	ND	1.12	5.61	ND	
96-33-3	Methyl acrylate	0.42	2.12	ND	1.49	7.46	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.27	ND	0.63	3.75	ND	
78-83-1	Isobutyl alcohol	0.85	3.39	ND	2.57	10.28	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
594-20-7	2,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
67-66-3	Chloroform	0.21	1.06	ND	1.04	5.18	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
107-06-2	1,2-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
563-58-6	1,1-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
110-82-7	Cyclohexane	0.21	1.06	ND	0.73	3.65	ND	
71-43-2	Benzene	1.48	2.12	ND	4.74	6.77	ND	
56-23-5	Carbon tetrachloride	0.21	1.06	ND	1.33	6.67	ND	
994-05-8	t-Amyl methyl ether	0.42	2.12	ND	1.77	8.86	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.06	0.39	0.99	4.95	1.81	J
142-82-5	n-Heptane	0.42	1.06	ND	1.74	4.34	ND	
78-87-5	1,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
123-91-1	1,4 Dioxane	0.42	2.12	ND	1.53	7.64	ND	
74-95-3	Dibromomethane	0.21	1.06	ND	1.51	7.53	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.06	ND	0.57	5.70	ND	
75-27-4	Bromodichloromethane	0.21	1.06	ND	1.42	7.10	ND	
80-62-6	Methyl methacrylate	0.42	1.06	ND	1.74	4.34	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.39	ND	1.74	13.90	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
108-88-3	Toluene	0.85	1.06	ND	3.19	3.99	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
97-63-2	Ethyl methacrylate	0.42	1.06	ND	1.98	4.95	ND	
591-78-6	2-Hexanone	0.42	3.39	ND	1.74	13.90	ND	
142-28-9	1,3-Dichloropropane	0.21	2.96	ND	0.98	13.71	ND	
111-65-9	Octane	0.42	1.06	ND	1.98	4.95	ND	
124-48-1	Dibromochloromethane	0.42	1.06	ND	3.61	9.03	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.06	ND	3.26	8.14	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.06	0.44	0.72	7.19	2.98	J
108-90-7	Chlorobenzene	0.42	1.06	ND	1.95	4.88	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.06	ND	2.91	7.27	ND	
100-41-4	Ethylbenzene	0.42	1.06	ND	1.84	4.60	ND	
1330-20-7	m,p-Xylenes	0.42	1.06	ND	1.84	4.60	ND	
111-84-2	Nonane	0.42	1.06	ND	2.22	5.56	ND	
100-42-5	Styrene	0.64	1.06	ND	2.71	4.52	ND	
75-25-2	Bromoform	0.42	1.06	ND	4.38	10.95	ND	
95-47-6	o-Xylene	0.42	1.06	ND	1.84	4.60	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.85	2.12	ND	5.82	14.55	ND	
96-18-4	1,2,3-Trichloropropane	0.85	2.54	ND	5.11	15.33	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.85	2.54	ND	4.33	13.00	ND	
103-65-1	n-Propylbenzene	0.85	2.96	ND	4.17	14.59	ND	
98-82-8	Isopropylbenzene	0.85	2.96	ND	4.17	14.59	ND	
622-96-8	4-Ethyltoluene	0.85	6.77	ND	4.17	33.34	ND	
108-67-8	1,3,5-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
124-18-5	Decane	0.85	2.54	ND	4.93	14.80	ND	
98-06-6	tert-butyl benzene	0.85	2.54	ND	4.65	13.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
538-93-2	i-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
135-98-8	sec-butylbenzene	0.85	2.96	ND	4.65	16.29	ND	
541-73-1	1,3-Dichlorobenzene	0.85	3.39	ND	5.10	20.39	ND	
99-87-6	Isopropyltoluene	0.85	2.54	ND	4.65	13.96	ND	
100-44-7	Benzyl chloride	0.85	2.12	ND	4.39	10.97	ND	
106-46-7	1,4-Dichlorobenzene	0.85	2.12	ND	5.10	12.74	ND	
104-51-8	n-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
95-50-1	1,2-Dichlorobenzene	0.85	2.96	ND	5.10	17.84	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.27	2.96	ND	12.29	28.68	ND	
120-82-1	1,2,4-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
91-20-3	Naphthalene	2.12	0.42	ND	11.11	2.22	ND	
87-61-6	1,2,3-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
87-68-3	Hexachlorobutadiene	1.06	1.27	ND	11.30	13.56	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	98	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 24**

File Name: 2510024A.D
Description: T-206
Canister: 882
QC_Batch: 040325-MA1

Date Sampled: 03/20/25 **Time:** 09:55
Date Analyzed: 04/03/25 **Time:** 19:02
Can Dilution Factor: 1.24
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.41	1.03	47.06	0.71	1.78	81.11	
75-71-8	Dichlorodifluoromethane	0.62	1.03	ND	3.07	5.12	ND	
67-56-1	Methanol	2.07	2.48	11.37	2.71	3.25	14.90	
74-87-3	Chloromethane	0.62	1.03	ND	1.28	2.14	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.41	1.03	ND	2.89	7.23	ND	
75-01-4	Vinyl chloride	0.21	1.03	ND	0.53	2.65	ND	
106-99-0	1,3-Butadiene	0.21	1.03	ND	0.46	2.29	ND	
74-83-9	Bromomethane	0.41	1.03	ND	1.61	4.02	ND	
75-00-3	Chloroethane	0.41	1.03	ND	1.09	2.73	ND	
64-17-5	Ethanol	2.07	13.27	25.47	3.90	25.05	48.09	
107-02-8	Acrolein	0.41	1.24	ND	0.95	2.85	ND	
75-69-4	Trichlorofluoromethane	0.41	1.03	ND	2.33	5.81	ND	
67-64-1	Acetone	2.07	2.48	10.99	4.92	5.90	26.15	
67-63-0	2-propanol (isopropylalcohol)	0.83	5.17	ND	2.03	12.72	ND	
75-65-0	t-Butyl alcohol	0.41	4.13	ND	1.25	12.54	ND	
4227-95-6	Methyl iodide	0.41	1.24	ND	2.42	7.26	ND	
75-35-4	1,1-Dichloroethene	0.21	1.03	ND	0.82	4.10	ND	
107-13-1	Acrylonitrile	0.83	1.24	ND	1.80	2.70	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.03	ND	1.59	7.93	ND	
107-05-1	Allyl chloride	0.21	4.13	ND	0.65	12.95	ND	
75-09-2	Methylene chloride	0.21	1.03	2.76	0.72	3.59	9.59	
75-15-0	Carbon disulfide	0.41	1.03	ND	1.29	3.22	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.83	6.61	0.82	3.28	26.24	
1634-04-4	Methyl tert butyl ether	0.41	0.83	ND	1.49	2.98	ND	
107-12-0	Propionitrile	1.03	1.65	ND	2.33	3.73	ND	
75-34-3	1,1-Dichloroethane	0.21	1.03	ND	0.84	4.19	ND	
637-92-3	Ethyl tert butyl ether	0.41	1.03	ND	1.73	4.33	ND	
108-05-4	Vinyl acetate	0.21	4.13	ND	0.73	14.58	ND	
78-93-3	2-Butanone (MEK)	0.41	1.24	ND	1.22	3.66	ND	
108-20-3	Diisopropyl ether	0.41	2.48	ND	1.73	10.38	ND	
110-54-3	Hexane	0.41	1.03	4.41	1.46	3.65	15.58	
126-98-7	Methacrylonitrile	0.41	1.03	ND	1.14	2.84	ND	
141-78-6	Ethyl acetate	0.41	1.03	ND	1.49	3.73	ND	
74-97-5	Bromochloromethane	0.21	1.03	ND	1.10	5.48	ND	
96-33-3	Methyl acrylate	0.41	2.07	ND	1.46	7.29	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.24	2.28	0.61	3.66	6.73	
78-83-1	Isobutyl alcohol	0.83	3.31	ND	2.51	10.03	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.03	ND	0.82	4.10	ND	
594-20-7	2,2-Dichloropropane	0.21	1.03	ND	0.96	4.78	ND	
67-66-3	Chloroform	0.21	1.03	ND	1.01	5.05	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.03	ND	1.13	5.65	ND	
107-06-2	1,2-Dichloroethane	0.21	1.03	9.68	0.84	4.19	39.25	
563-58-6	1,1-Dichloropropene	0.21	1.03	ND	0.94	4.70	ND	
110-82-7	Cyclohexane	0.21	1.03	28.86	0.71	3.56	99.52	
71-43-2	Benzene	1.45	2.07	2.36	4.63	6.61	7.54	
56-23-5	Carbon tetrachloride	0.21	1.03	ND	1.30	6.51	ND	
994-05-8	t-Amyl methyl ether	0.41	2.07	ND	1.73	8.65	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.03	10.58	0.97	4.83	49.49	
142-82-5	n-Heptane	0.41	1.03	ND	1.70	4.24	ND	
78-87-5	1,2-Dichloropropane	0.21	1.03	ND	0.96	4.78	ND	
123-91-1	1,4 Dioxane	0.41	2.07	ND	1.49	7.46	ND	
74-95-3	Dibromomethane	0.21	1.03	ND	1.47	7.36	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.03	2.44	0.56	5.56	13.14	
75-27-4	Bromodichloromethane	0.21	1.03	ND	1.39	6.93	ND	
80-62-6	Methyl methacrylate	0.41	1.03	ND	1.69	4.24	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.41	3.31	ND	1.70	13.57	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.03	ND	0.94	4.70	ND	
108-88-3	Toluene	0.83	1.03	1.39	3.12	3.90	5.24	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.03	ND	0.94	4.70	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.03	ND	1.13	5.65	ND	
97-63-2	Ethyl methacrylate	0.41	1.03	ND	1.93	4.83	ND	
591-78-6	2-Hexanone	0.41	3.31	ND	1.70	13.57	ND	
142-28-9	1,3-Dichloropropane	0.21	2.89	ND	0.96	13.39	ND	
111-65-9	Octane	0.41	1.03	ND	1.93	4.83	ND	
124-48-1	Dibromochloromethane	0.41	1.03	ND	3.53	8.82	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.41	1.03	ND	3.18	7.95	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.03	27.64	0.70	7.02	187.66	
108-90-7	Chlorobenzene	0.41	1.03	ND	1.91	4.77	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.41	1.03	ND	2.84	7.10	ND	
100-41-4	Ethylbenzene	0.41	1.03	ND	1.80	4.49	ND	
1330-20-7	m,p-Xylenes	0.41	1.03	2.05	1.80	4.49	8.92	
111-84-2	Nonane	0.41	1.03	ND	2.17	5.43	ND	
100-42-5	Styrene	0.62	1.03	ND	2.65	4.41	ND	
75-25-2	Bromoform	0.41	1.03	ND	4.28	10.69	ND	
95-47-6	o-Xylene	0.41	1.03	3.21	1.80	4.49	13.97	
79-34-5	1,1,2,2-Tetrachloroethane	0.83	2.07	ND	5.68	14.20	ND	
96-18-4	1,2,3-Trichloropropane	0.83	2.48	ND	4.99	14.97	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.83	2.48	ND	4.23	12.70	ND	
103-65-1	n-Propylbenzene	0.83	2.89	ND	4.07	14.24	ND	
98-82-8	Isopropylbenzene	0.83	2.89	ND	4.07	14.24	ND	
622-96-8	4-Ethyltoluene	0.83	6.61	ND	4.07	32.56	ND	
108-67-8	1,3,5-Trimethylbenzene	0.83	3.72	ND	4.07	18.31	ND	
124-18-5	Decane	0.83	2.48	ND	4.82	14.45	ND	
98-06-6	tert-butyl benzene	0.83	2.48	ND	4.54	13.63	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.83	3.72	ND	4.07	18.31	ND	
538-93-2	i-Butylbenzene	0.83	2.48	ND	4.54	13.63	ND	
135-98-8	sec-butylbenzene	0.83	2.89	ND	4.54	15.90	ND	
541-73-1	1,3-Dichlorobenzene	0.83	3.31	ND	4.98	19.91	ND	
99-87-6	Isopropyltoluene	0.83	2.48	1.17	4.54	13.63	6.45	J
100-44-7	Benzyl chloride	0.83	2.07	ND	4.29	10.72	ND	
106-46-7	1,4-Dichlorobenzene	0.83	2.07	ND	4.98	12.44	ND	
104-51-8	n-Butylbenzene	0.83	2.48	ND	4.54	13.63	ND	
95-50-1	1,2-Dichlorobenzene	0.83	2.89	ND	4.98	17.42	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.24	2.89	ND	12.00	28.00	ND	
120-82-1	1,2,4-Trichlorobenzene	1.24	2.07	ND	9.21	15.35	ND	
91-20-3	Naphthalene	2.07	0.41	ND	10.85	2.17	ND	
87-61-6	1,2,3-Trichlorobenzene	1.24	2.07	ND	9.21	15.35	ND	
87-68-3	Hexachlorobutadiene	1.03	1.24	ND	11.04	13.24	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	100	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 25**

File Name: 2510025A.D **Date Sampled:** 03/20/25 **Time:** 10:05
Description: T-207 **Date Analyzed:** 04/01/25 **Time:** 20:22
Canister: 627 **Can Dilution Factor:** 1.31
QC_Batch: 040125-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.44	1.09	1.69	0.75	1.88	2.91	
75-71-8	Dichlorodifluoromethane	0.66	1.09	ND	3.24	5.41	ND	
67-56-1	Methanol	2.18	2.62	20.84	2.86	3.43	27.31	
74-87-3	Chloromethane	0.66	1.09	ND	1.35	2.26	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.44	1.09	ND	3.06	7.64	ND	
75-01-4	Vinyl chloride	0.22	1.09	ND	0.56	2.79	ND	
106-99-0	1,3-Butadiene	0.22	1.09	ND	0.49	2.42	ND	
74-83-9	Bromomethane	0.44	1.09	ND	1.70	4.24	ND	
75-00-3	Chloroethane	0.44	1.09	ND	1.15	2.88	ND	
64-17-5	Ethanol	2.18	14.02	ND	4.12	26.46	ND	
107-02-8	Acrolein	0.44	1.31	5.78	1.00	3.01	13.29	
75-69-4	Trichlorofluoromethane	0.44	1.09	ND	2.46	6.14	ND	
67-64-1	Acetone	2.18	2.62	11.24	5.20	6.23	26.74	
67-63-0	2-propanol (isopropylalcohol)	0.87	5.46	ND	2.15	13.44	ND	
75-65-0	t-Butyl alcohol	0.44	4.37	ND	1.33	13.25	ND	
4227-95-6	Methyl iodide	0.44	1.31	ND	2.56	7.67	ND	
75-35-4	1,1-Dichloroethene	0.22	1.09	ND	0.87	4.33	ND	
107-13-1	Acrylonitrile	0.87	1.31	ND	1.90	2.85	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.22	1.09	ND	1.68	8.38	ND	
107-05-1	Allyl chloride	0.22	4.37	ND	0.68	13.68	ND	
75-09-2	Methylene chloride	0.22	1.09	ND	0.76	3.80	ND	
75-15-0	Carbon disulfide	0.44	1.09	ND	1.36	3.40	ND	
156-60-5	trans-1,2-Dichloroethene	0.22	0.87	ND	0.87	3.47	ND	
1634-04-4	Methyl tert butyl ether	0.44	0.87	ND	1.58	3.15	ND	
107-12-0	Propionitrile	1.09	1.75	ND	2.46	3.94	ND	
75-34-3	1,1-Dichloroethane	0.22	1.09	ND	0.88	4.43	ND	
637-92-3	Ethyl tert butyl ether	0.44	1.09	ND	1.83	4.57	ND	
108-05-4	Vinyl acetate	0.22	4.37	ND	0.77	15.40	ND	
78-93-3	2-Butanone (MEK)	0.44	1.31	1.50	1.29	3.87	4.42	
108-20-3	Diisopropyl ether	0.44	2.62	ND	1.83	10.97	ND	
110-54-3	Hexane	0.44	1.09	ND	1.54	3.85	ND	
126-98-7	Methacrylonitrile	0.44	1.09	ND	1.20	3.00	ND	
141-78-6	Ethyl acetate	0.44	1.09	ND	1.58	3.94	ND	
74-97-5	Bromochloromethane	0.22	1.09	ND	1.16	5.79	ND	
96-33-3	Methyl acrylate	0.44	2.18	ND	1.54	7.70	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.22	1.31	0.54	0.65	3.87	1.58	J
78-83-1	Isobutyl alcohol	0.87	3.49	ND	2.65	10.60	ND	
156-59-2	cis-1,2-Dichloroethene	0.22	1.09	ND	0.87	4.33	ND	
594-20-7	2,2-Dichloropropane	0.22	1.09	ND	1.01	5.05	ND	
67-66-3	Chloroform	0.22	1.09	ND	1.07	5.34	ND	
71-55-6	1,1,1-Trichloroethane	0.22	1.09	ND	1.19	5.96	ND	
107-06-2	1,2-Dichloroethane	0.22	1.09	ND	0.89	4.43	ND	
563-58-6	1,1-Dichloropropene	0.22	1.09	ND	0.99	4.96	ND	
110-82-7	Cyclohexane	0.22	1.09	1.44	0.75	3.76	4.96	
71-43-2	Benzene	1.53	2.18	3.00	4.89	6.98	9.60	
56-23-5	Carbon tetrachloride	0.22	1.09	ND	1.38	6.88	ND	
994-05-8	t-Amyl methyl ether	0.44	2.18	ND	1.83	9.14	ND	
540-84-1	2,2,4-Trimethylpentane	0.22	1.09	1.03	1.02	5.11	4.82	J
142-82-5	n-Heptane	0.44	1.09	ND	1.79	4.48	ND	
78-87-5	1,2-Dichloropropane	0.22	1.09	ND	1.01	5.05	ND	
123-91-1	1,4 Dioxane	0.44	2.18	ND	1.58	7.88	ND	
74-95-3	Dibromomethane	0.22	1.09	ND	1.55	7.77	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.09	0.32	0.59	5.87	1.73	J
75-27-4	Bromodichloromethane	0.22	1.09	ND	1.46	7.32	ND	
80-62-6	Methyl methacrylate	0.44	1.09	ND	1.79	4.48	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.44	3.49	0.49	1.79	14.34	2.01	J
10061-01-5	cis-1,3-Dichloropropene	0.22	1.09	ND	0.99	4.96	ND	
108-88-3	Toluene	0.87	1.09	1.10	3.29	4.12	4.15	
10061-02-6	trans-1,3-Dichloropropene	0.22	1.09	ND	0.99	4.96	ND	
79-00-5	1,1,2-Trichloroethane	0.22	1.09	ND	1.19	5.96	ND	
97-63-2	Ethyl methacrylate	0.44	1.09	ND	2.04	5.11	ND	
591-78-6	2-Hexanone	0.44	3.49	ND	1.79	14.34	ND	
142-28-9	1,3-Dichloropropane	0.22	3.06	ND	1.01	14.15	ND	
111-65-9	Octane	0.44	1.09	ND	2.04	5.11	ND	
124-48-1	Dibromochloromethane	0.44	1.09	ND	3.73	9.31	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.44	1.09	ND	3.36	8.40	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.09	0.84	0.74	7.41	5.68	J
108-90-7	Chlorobenzene	0.44	1.09	ND	2.01	5.03	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.44	1.09	ND	3.00	7.50	ND	
100-41-4	Ethylbenzene	0.44	1.09	0.50	1.90	4.75	2.20	J
1330-20-7	m,p-Xylenes	0.44	1.09	0.94	1.90	4.75	4.10	J
111-84-2	Nonane	0.44	1.09	0.45	2.29	5.74	2.37	J
100-42-5	Styrene	0.66	1.09	ND	2.80	4.66	ND	
75-25-2	Bromoform	0.44	1.09	ND	4.52	11.30	ND	
95-47-6	o-Xylene	0.44	1.09	ND	1.90	4.75	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.87	2.18	ND	6.00	15.00	ND	
96-18-4	1,2,3-Trichloropropane	0.87	2.62	ND	5.27	15.82	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.87	2.62	ND	4.47	13.41	ND	
103-65-1	n-Propylbenzene	0.87	3.06	ND	4.30	15.05	ND	
98-82-8	Isopropylbenzene	0.87	3.06	ND	4.30	15.05	ND	
622-96-8	4-Ethyltoluene	0.87	6.99	ND	4.30	34.39	ND	
108-67-8	1,3,5-Trimethylbenzene	0.87	3.93	ND	4.30	19.35	ND	
124-18-5	Decane	0.87	2.62	ND	5.09	15.27	ND	
98-06-6	tert-butyl benzene	0.87	2.62	ND	4.80	14.40	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.87	3.93	ND	4.30	19.35	ND	
538-93-2	i-Butylbenzene	0.87	2.62	ND	4.80	14.40	ND	
135-98-8	sec-butylbenzene	0.87	3.06	ND	4.80	16.80	ND	
541-73-1	1,3-Dichlorobenzene	0.87	3.49	ND	5.26	21.03	ND	
99-87-6	Isopropyltoluene	0.87	2.62	1.31	4.80	14.40	7.23	J
100-44-7	Benzyl chloride	0.87	2.18	ND	4.53	11.32	ND	
106-46-7	1,4-Dichlorobenzene	0.87	2.18	ND	5.26	13.14	ND	
104-51-8	n-Butylbenzene	0.87	2.62	ND	4.80	14.40	ND	
95-50-1	1,2-Dichlorobenzene	0.87	3.06	ND	5.26	18.40	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.31	3.06	ND	12.68	29.58	ND	
120-82-1	1,2,4-Trichlorobenzene	1.31	2.18	ND	9.73	16.22	ND	
91-20-3	Naphthalene	2.18	0.44	ND	11.46	2.29	ND	
87-61-6	1,2,3-Trichlorobenzene	1.31	2.18	ND	9.73	16.22	ND	
87-68-3	Hexachlorobutadiene	1.09	1.31	ND	11.66	13.99	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	110	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 26**

File Name: 2510026A.D **Date Sampled:** 03/20/25 **Time:** 10:08
Description: T-208 **Date Analyzed:** 04/01/25 **Time:** 21:00
Canister: 791 **Can Dilution Factor:** 1.26
QC_Batch: 040125-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.05	1.42	0.72	1.81	2.44	
75-71-8	Dichlorodifluoromethane	0.63	1.05	ND	3.12	5.20	ND	
67-56-1	Methanol	2.10	2.52	9.99	2.75	3.30	13.10	
74-87-3	Chloromethane	0.63	1.05	ND	1.30	2.17	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.05	ND	2.94	7.35	ND	
75-01-4	Vinyl chloride	0.21	1.05	ND	0.54	2.69	ND	
106-99-0	1,3-Butadiene	0.21	1.05	ND	0.47	2.33	ND	
74-83-9	Bromomethane	0.42	1.05	ND	1.63	4.08	ND	
75-00-3	Chloroethane	0.42	1.05	ND	1.11	2.77	ND	
64-17-5	Ethanol	2.10	13.48	ND	3.96	25.45	ND	
107-02-8	Acrolein	0.42	1.26	2.82	0.96	2.89	6.47	
75-69-4	Trichlorofluoromethane	0.42	1.05	ND	2.36	5.91	ND	
67-64-1	Acetone	2.10	2.52	6.06	5.00	6.00	14.41	
67-63-0	2-propanol (isopropylalcohol)	0.84	5.25	ND	2.07	12.92	ND	
75-65-0	t-Butyl alcohol	0.42	4.20	ND	1.27	12.75	ND	
4227-95-6	Methyl iodide	0.42	1.26	ND	2.46	7.37	ND	
75-35-4	1,1-Dichloroethene	0.21	1.05	ND	0.83	4.17	ND	
107-13-1	Acrylonitrile	0.84	1.26	ND	1.83	2.74	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.05	ND	1.61	8.06	ND	
107-05-1	Allyl chloride	0.21	4.20	ND	0.66	13.16	ND	
75-09-2	Methylene chloride	0.21	1.05	ND	0.73	3.65	ND	
75-15-0	Carbon disulfide	0.42	1.05	0.78	1.31	3.27	2.45	J
156-60-5	trans-1,2-Dichloroethene	0.21	0.84	ND	0.83	3.33	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.84	ND	1.52	3.03	ND	
107-12-0	Propionitrile	1.05	1.68	ND	2.37	3.79	ND	
75-34-3	1,1-Dichloroethane	0.21	1.05	ND	0.85	4.26	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.05	ND	1.76	4.39	ND	
108-05-4	Vinyl acetate	0.21	4.20	ND	0.74	14.81	ND	
78-93-3	2-Butanone (MEK)	0.42	1.26	1.39	1.24	3.72	4.09	
108-20-3	Diisopropyl ether	0.42	2.52	ND	1.76	10.55	ND	
110-54-3	Hexane	0.42	1.05	ND	1.48	3.71	ND	
126-98-7	Methacrylonitrile	0.42	1.05	ND	1.15	2.89	ND	
141-78-6	Ethyl acetate	0.42	1.05	ND	1.52	3.79	ND	
74-97-5	Bromochloromethane	0.21	1.05	ND	1.11	5.56	ND	
96-33-3	Methyl acrylate	0.42	2.10	ND	1.48	7.41	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.26	ND	0.62	3.72	ND	
78-83-1	Isobutyl alcohol	0.84	3.36	ND	2.55	10.20	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.05	ND	0.83	4.17	ND	
594-20-7	2,2-Dichloropropane	0.21	1.05	ND	0.97	4.86	ND	
67-66-3	Chloroform	0.21	1.05	ND	1.03	5.13	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.05	ND	1.15	5.74	ND	
107-06-2	1,2-Dichloroethane	0.21	1.05	ND	0.85	4.26	ND	
563-58-6	1,1-Dichloropropene	0.21	1.05	ND	0.95	4.77	ND	
110-82-7	Cyclohexane	0.21	1.05	ND	0.72	3.62	ND	
71-43-2	Benzene	1.47	2.10	ND	4.70	6.72	ND	
56-23-5	Carbon tetrachloride	0.21	1.05	ND	1.32	6.61	ND	
994-05-8	t-Amyl methyl ether	0.42	2.10	ND	1.76	8.79	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.05	ND	0.98	4.91	ND	
142-82-5	n-Heptane	0.42	1.05	ND	1.72	4.31	ND	
78-87-5	1,2-Dichloropropane	0.21	1.05	ND	0.97	4.86	ND	
123-91-1	1,4 Dioxane	0.42	2.10	ND	1.52	7.58	ND	
74-95-3	Dibromomethane	0.21	1.05	ND	1.50	7.48	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.05	0.15	0.57	5.65	0.81	J
75-27-4	Bromodichloromethane	0.21	1.05	ND	1.41	7.04	ND	
80-62-6	Methyl methacrylate	0.42	1.05	ND	1.72	4.30	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.36	ND	1.72	13.79	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.05	ND	0.95	4.77	ND	
108-88-3	Toluene	0.84	1.05	ND	3.17	3.96	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.05	ND	0.95	4.77	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.05	ND	1.15	5.74	ND	
97-63-2	Ethyl methacrylate	0.42	1.05	ND	1.96	4.91	ND	
591-78-6	2-Hexanone	0.42	3.36	ND	1.72	13.79	ND	
142-28-9	1,3-Dichloropropane	0.21	2.94	ND	0.97	13.61	ND	
111-65-9	Octane	0.42	1.05	ND	1.96	4.91	ND	
124-48-1	Dibromochloromethane	0.42	1.05	ND	3.58	8.96	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.05	ND	3.23	8.08	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.05	2.66	0.71	7.13	18.08	
108-90-7	Chlorobenzene	0.42	1.05	ND	1.94	4.84	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.05	ND	2.89	7.22	ND	
100-41-4	Ethylbenzene	0.42	1.05	ND	1.83	4.57	ND	
1330-20-7	m,p-Xylenes	0.42	1.05	ND	1.83	4.57	ND	
111-84-2	Nonane	0.42	1.05	ND	2.21	5.52	ND	
100-42-5	Styrene	0.63	1.05	ND	2.69	4.48	ND	
75-25-2	Bromoform	0.42	1.05	ND	4.35	10.87	ND	
95-47-6	o-Xylene	0.42	1.05	ND	1.83	4.57	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.84	2.10	ND	5.77	14.43	ND	
96-18-4	1,2,3-Trichloropropane	0.84	2.52	ND	5.07	15.21	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.84	2.52	ND	4.30	12.90	ND	
103-65-1	n-Propylbenzene	0.84	2.94	ND	4.14	14.47	ND	
98-82-8	Isopropylbenzene	0.84	2.94	ND	4.14	14.47	ND	
622-96-8	4-Ethyltoluene	0.84	6.72	ND	4.14	33.08	ND	
108-67-8	1,3,5-Trimethylbenzene	0.84	3.78	ND	4.14	18.61	ND	
124-18-5	Decane	0.84	2.52	ND	4.90	14.69	ND	
98-06-6	tert-butyl benzene	0.84	2.52	ND	4.62	13.85	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.84	3.78	ND	4.14	18.61	ND	
538-93-2	i-Butylbenzene	0.84	2.52	ND	4.62	13.85	ND	
135-98-8	sec-butylbenzene	0.84	2.94	ND	4.62	16.16	ND	
541-73-1	1,3-Dichlorobenzene	0.84	3.36	ND	5.06	20.23	ND	
99-87-6	Isopropyltoluene	0.84	2.52	ND	4.62	13.85	ND	
100-44-7	Benzyl chloride	0.84	2.10	ND	4.36	10.89	ND	
106-46-7	1,4-Dichlorobenzene	0.84	2.10	ND	5.06	12.64	ND	
104-51-8	n-Butylbenzene	0.84	2.52	ND	4.62	13.85	ND	
95-50-1	1,2-Dichlorobenzene	0.84	2.94	ND	5.06	17.70	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.26	2.94	ND	12.19	28.45	ND	
120-82-1	1,2,4-Trichlorobenzene	1.26	2.10	ND	9.36	15.60	ND	
91-20-3	Naphthalene	2.10	0.42	ND	11.03	2.21	ND	
87-61-6	1,2,3-Trichlorobenzene	1.26	2.10	ND	9.36	15.60	ND	
87-68-3	Hexachlorobutadiene	1.05	1.26	ND	11.22	13.46	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	114	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 27**

File Name: 2510027A.D
Description: T-209
Canister: 682
QC_Batch: 040125-MA1

Date Sampled: 03/20/25 **Time:** 11:21
Date Analyzed: 04/01/25 **Time:** 21:37
Can Dilution Factor: 1.30
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.43	1.08	0.87	0.75	1.87	1.50	J
75-71-8	Dichlorodifluoromethane	0.65	1.08	ND	3.22	5.36	ND	
67-56-1	Methanol	2.17	2.60	19.60	2.84	3.41	25.69	
74-87-3	Chloromethane	0.65	1.08	ND	1.34	2.24	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.43	1.08	ND	3.03	7.58	ND	
75-01-4	Vinyl chloride	0.22	1.08	ND	0.56	2.77	ND	
106-99-0	1,3-Butadiene	0.22	1.08	ND	0.48	2.40	ND	
74-83-9	Bromomethane	0.43	1.08	ND	1.68	4.21	ND	
75-00-3	Chloroethane	0.43	1.08	ND	1.14	2.86	ND	
64-17-5	Ethanol	2.17	13.91	ND	4.09	26.26	ND	
107-02-8	Acrolein	0.43	1.30	1.74	1.00	2.99	4.00	
75-69-4	Trichlorofluoromethane	0.43	1.08	ND	2.44	6.10	ND	
67-64-1	Acetone	2.17	2.60	5.78	5.16	6.19	13.76	
67-63-0	2-propanol (isopropylalcohol)	0.87	5.42	ND	2.13	13.33	ND	
75-65-0	t-Butyl alcohol	0.43	4.33	ND	1.32	13.15	ND	
4227-95-6	Methyl iodide	0.43	1.30	ND	2.54	7.61	ND	
75-35-4	1,1-Dichloroethene	0.22	1.08	ND	0.86	4.30	ND	
107-13-1	Acrylonitrile	0.87	1.30	ND	1.88	2.83	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.22	1.08	ND	1.66	8.31	ND	
107-05-1	Allyl chloride	0.22	4.33	ND	0.68	13.58	ND	
75-09-2	Methylene chloride	0.22	1.08	ND	0.75	3.77	ND	
75-15-0	Carbon disulfide	0.43	1.08	ND	1.35	3.38	ND	
156-60-5	trans-1,2-Dichloroethene	0.22	0.87	ND	0.86	3.44	ND	
1634-04-4	Methyl tert butyl ether	0.43	0.87	ND	1.56	3.13	ND	
107-12-0	Propionitrile	1.08	1.73	ND	2.44	3.91	ND	
75-34-3	1,1-Dichloroethane	0.22	1.08	ND	0.88	4.39	ND	
637-92-3	Ethyl tert butyl ether	0.43	1.08	ND	1.81	4.53	ND	
108-05-4	Vinyl acetate	0.22	4.33	ND	0.76	15.28	ND	
78-93-3	2-Butanone (MEK)	0.43	1.30	0.68	1.28	3.84	2.00	J
108-20-3	Diisopropyl ether	0.43	2.60	ND	1.81	10.88	ND	
110-54-3	Hexane	0.43	1.08	ND	1.53	3.82	ND	
126-98-7	Methacrylonitrile	0.43	1.08	ND	1.19	2.98	ND	
141-78-6	Ethyl acetate	0.43	1.08	ND	1.56	3.91	ND	
74-97-5	Bromochloromethane	0.22	1.08	ND	1.15	5.74	ND	
96-33-3	Methyl acrylate	0.43	2.17	ND	1.53	7.64	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.22	1.30	ND	0.64	3.84	ND	
78-83-1	Isobutyl alcohol	0.87	3.47	ND	2.63	10.52	ND	
156-59-2	cis-1,2-Dichloroethene	0.22	1.08	ND	0.86	4.30	ND	
594-20-7	2,2-Dichloropropane	0.22	1.08	ND	1.00	5.01	ND	
67-66-3	Chloroform	0.22	1.08	ND	1.06	5.30	ND	
71-55-6	1,1,1-Trichloroethane	0.22	1.08	ND	1.18	5.92	ND	
107-06-2	1,2-Dichloroethane	0.22	1.08	ND	0.88	4.39	ND	
563-58-6	1,1-Dichloropropene	0.22	1.08	ND	0.98	4.92	ND	
110-82-7	Cyclohexane	0.22	1.08	ND	0.75	3.74	ND	
71-43-2	Benzene	1.52	2.17	ND	4.85	6.93	ND	
56-23-5	Carbon tetrachloride	0.22	1.08	ND	1.36	6.82	ND	
994-05-8	t-Amyl methyl ether	0.43	2.17	ND	1.81	9.07	ND	
540-84-1	2,2,4-Trimethylpentane	0.22	1.08	ND	1.01	5.07	ND	
142-82-5	n-Heptane	0.43	1.08	ND	1.78	4.45	ND	
78-87-5	1,2-Dichloropropane	0.22	1.08	ND	1.00	5.01	ND	
123-91-1	1,4 Dioxane	0.43	2.17	ND	1.56	7.82	ND	
74-95-3	Dibromomethane	0.22	1.08	ND	1.54	7.71	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.08	ND	0.58	5.83	ND	
75-27-4	Bromodichloromethane	0.22	1.08	ND	1.45	7.27	ND	
80-62-6	Methyl methacrylate	0.43	1.08	ND	1.78	4.44	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.43	3.47	ND	1.78	14.23	ND	
10061-01-5	cis-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.92	ND	
108-88-3	Toluene	0.87	1.08	ND	3.27	4.09	ND	
10061-02-6	trans-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.92	ND	
79-00-5	1,1,2-Trichloroethane	0.22	1.08	ND	1.18	5.92	ND	
97-63-2	Ethyl methacrylate	0.43	1.08	ND	2.03	5.07	ND	
591-78-6	2-Hexanone	0.43	3.47	ND	1.78	14.23	ND	
142-28-9	1,3-Dichloropropane	0.22	3.03	ND	1.00	14.04	ND	
111-65-9	Octane	0.43	1.08	ND	2.03	5.07	ND	
124-48-1	Dibromochloromethane	0.43	1.08	ND	3.70	9.24	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.43	1.08	ND	3.33	8.34	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.08	ND	0.74	7.36	ND	
108-90-7	Chlorobenzene	0.43	1.08	ND	2.00	5.00	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.43	1.08	ND	2.98	7.44	ND	
100-41-4	Ethylbenzene	0.43	1.08	ND	1.88	4.71	ND	
1330-20-7	m,p-Xylenes	0.43	1.08	ND	1.88	4.71	ND	
111-84-2	Nonane	0.43	1.08	ND	2.28	5.69	ND	
100-42-5	Styrene	0.65	1.08	ND	2.77	4.62	ND	
75-25-2	Bromoform	0.43	1.08	ND	4.48	11.21	ND	
95-47-6	o-Xylene	0.43	1.08	ND	1.88	4.71	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.87	2.17	ND	5.96	14.89	ND	
96-18-4	1,2,3-Trichloropropane	0.87	2.60	ND	5.23	15.70	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.87	2.60	ND	4.44	13.31	ND	
103-65-1	n-Propylbenzene	0.87	3.03	ND	4.27	14.93	ND	
98-82-8	Isopropylbenzene	0.87	3.03	ND	4.27	14.93	ND	
622-96-8	4-Ethyltoluene	0.87	6.93	ND	4.27	34.13	ND	
108-67-8	1,3,5-Trimethylbenzene	0.87	3.90	ND	4.27	19.20	ND	
124-18-5	Decane	0.87	2.60	ND	5.05	15.15	ND	
98-06-6	tert-butyl benzene	0.87	2.60	ND	4.76	14.29	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.87	3.90	ND	4.27	19.20	ND	
538-93-2	i-Butylbenzene	0.87	2.60	ND	4.76	14.29	ND	
135-98-8	sec-butylbenzene	0.87	3.03	ND	4.76	16.67	ND	
541-73-1	1,3-Dichlorobenzene	0.87	3.47	ND	5.22	20.87	ND	
99-87-6	Isopropyltoluene	0.87	2.60	ND	4.76	14.29	ND	
100-44-7	Benzyl chloride	0.87	2.17	ND	4.49	11.23	ND	
106-46-7	1,4-Dichlorobenzene	0.87	2.17	ND	5.22	13.04	ND	
104-51-8	n-Butylbenzene	0.87	2.60	ND	4.76	14.29	ND	
95-50-1	1,2-Dichlorobenzene	0.87	3.03	ND	5.22	18.26	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.30	3.03	ND	12.58	29.36	ND	
120-82-1	1,2,4-Trichlorobenzene	1.30	2.17	ND	9.66	16.10	ND	
91-20-3	Naphthalene	2.17	0.43	ND	11.38	2.28	ND	
87-61-6	1,2,3-Trichlorobenzene	1.30	2.17	ND	9.66	16.10	ND	
87-68-3	Hexachlorobutadiene	1.08	1.30	ND	11.57	13.89	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	125	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 28**

File Name: 2510028A.D **Date Sampled:** 03/20/25 **Time:** 11:21
Description: T-210 **Date Analyzed:** 04/02/25 **Time:** 11:47
Canister: 714 **Can Dilution Factor:** 1.27
QC_Batch: 040225-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.06	0.83	0.73	1.82	1.43	J
75-71-8	Dichlorodifluoromethane	0.64	1.06	ND	3.14	5.24	ND	
67-56-1	Methanol	2.12	2.54	ND	2.77	3.33	ND	
74-87-3	Chloromethane	0.64	1.06	ND	1.31	2.19	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.06	ND	2.96	7.41	ND	
75-01-4	Vinyl chloride	0.21	1.06	ND	0.55	2.71	ND	
106-99-0	1,3-Butadiene	0.21	1.06	ND	0.47	2.34	ND	
74-83-9	Bromomethane	0.42	1.06	ND	1.65	4.11	ND	
75-00-3	Chloroethane	0.42	1.06	ND	1.12	2.80	ND	
64-17-5	Ethanol	2.12	13.59	ND	4.00	25.66	ND	
107-02-8	Acrolein	0.42	1.27	1.22	0.97	2.92	2.80	J
75-69-4	Trichlorofluoromethane	0.42	1.06	ND	2.38	5.96	ND	
67-64-1	Acetone	2.12	2.54	6.78	5.04	6.04	16.12	
67-63-0	2-propanol (isopropylalcohol)	0.85	5.29	ND	2.08	13.02	ND	
75-65-0	t-Butyl alcohol	0.42	4.23	ND	1.28	12.85	ND	
4227-95-6	Methyl iodide	0.42	1.27	ND	2.48	7.43	ND	
75-35-4	1,1-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
107-13-1	Acrylonitrile	0.85	1.27	ND	1.84	2.76	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.06	ND	1.62	8.12	ND	
107-05-1	Allyl chloride	0.21	4.23	ND	0.66	13.26	ND	
75-09-2	Methylene chloride	0.21	1.06	ND	0.74	3.68	ND	
75-15-0	Carbon disulfide	0.42	1.06	ND	1.32	3.30	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.85	ND	0.84	3.36	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.85	ND	1.53	3.05	ND	
107-12-0	Propionitrile	1.06	1.69	ND	2.39	3.82	ND	
75-34-3	1,1-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.06	ND	1.77	4.43	ND	
108-05-4	Vinyl acetate	0.21	4.23	ND	0.75	14.93	ND	
78-93-3	2-Butanone (MEK)	0.42	1.27	ND	1.25	3.75	ND	
108-20-3	Diisopropyl ether	0.42	2.54	ND	1.77	10.63	ND	
110-54-3	Hexane	0.42	1.06	ND	1.49	3.74	ND	
126-98-7	Methacrylonitrile	0.42	1.06	ND	1.16	2.91	ND	
141-78-6	Ethyl acetate	0.42	1.06	ND	1.53	3.82	ND	
74-97-5	Bromochloromethane	0.21	1.06	ND	1.12	5.61	ND	
96-33-3	Methyl acrylate	0.42	2.12	ND	1.49	7.46	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.27	ND	0.63	3.75	ND	
78-83-1	Isobutyl alcohol	0.85	3.39	ND	2.57	10.28	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
594-20-7	2,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
67-66-3	Chloroform	0.21	1.06	ND	1.04	5.18	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
107-06-2	1,2-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
563-58-6	1,1-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
110-82-7	Cyclohexane	0.21	1.06	ND	0.73	3.65	ND	
71-43-2	Benzene	1.48	2.12	2.02	4.74	6.77	6.47	J
56-23-5	Carbon tetrachloride	0.21	1.06	ND	1.33	6.67	ND	
994-05-8	t-Amyl methyl ether	0.42	2.12	ND	1.77	8.86	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.06	ND	0.99	4.95	ND	
142-82-5	n-Heptane	0.42	1.06	ND	1.74	4.34	ND	
78-87-5	1,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
123-91-1	1,4 Dioxane	0.42	2.12	ND	1.53	7.64	ND	
74-95-3	Dibromomethane	0.21	1.06	ND	1.51	7.53	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.06	ND	0.57	5.70	ND	
75-27-4	Bromodichloromethane	0.21	1.06	ND	1.42	7.10	ND	
80-62-6	Methyl methacrylate	0.42	1.06	ND	1.74	4.34	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.39	ND	1.74	13.90	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
108-88-3	Toluene	0.85	1.06	ND	3.19	3.99	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
97-63-2	Ethyl methacrylate	0.42	1.06	ND	1.98	4.95	ND	
591-78-6	2-Hexanone	0.42	3.39	ND	1.74	13.90	ND	
142-28-9	1,3-Dichloropropane	0.21	2.96	ND	0.98	13.71	ND	
111-65-9	Octane	0.42	1.06	ND	1.98	4.95	ND	
124-48-1	Dibromochloromethane	0.42	1.06	ND	3.61	9.03	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.06	ND	3.26	8.14	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.06	ND	0.72	7.19	ND	
108-90-7	Chlorobenzene	0.42	1.06	ND	1.95	4.88	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.06	ND	2.91	7.27	ND	
100-41-4	Ethylbenzene	0.42	1.06	ND	1.84	4.60	ND	
1330-20-7	m,p-Xylenes	0.42	1.06	ND	1.84	4.60	ND	
111-84-2	Nonane	0.42	1.06	ND	2.22	5.56	ND	
100-42-5	Styrene	0.64	1.06	ND	2.71	4.52	ND	
75-25-2	Bromoform	0.42	1.06	ND	4.38	10.95	ND	
95-47-6	o-Xylene	0.42	1.06	ND	1.84	4.60	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.85	2.12	ND	5.82	14.55	ND	
96-18-4	1,2,3-Trichloropropane	0.85	2.54	ND	5.11	15.33	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.85	2.54	ND	4.33	13.00	ND	
103-65-1	n-Propylbenzene	0.85	2.96	ND	4.17	14.59	ND	
98-82-8	Isopropylbenzene	0.85	2.96	ND	4.17	14.59	ND	
622-96-8	4-Ethyltoluene	0.85	6.77	ND	4.17	33.34	ND	
108-67-8	1,3,5-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
124-18-5	Decane	0.85	2.54	ND	4.93	14.80	ND	
98-06-6	tert-butyl benzene	0.85	2.54	ND	4.65	13.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
538-93-2	i-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
135-98-8	sec-butylbenzene	0.85	2.96	ND	4.65	16.29	ND	
541-73-1	1,3-Dichlorobenzene	0.85	3.39	ND	5.10	20.39	ND	
99-87-6	Isopropyltoluene	0.85	2.54	ND	4.65	13.96	ND	
100-44-7	Benzyl chloride	0.85	2.12	ND	4.39	10.97	ND	
106-46-7	1,4-Dichlorobenzene	0.85	2.12	ND	5.10	12.74	ND	
104-51-8	n-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
95-50-1	1,2-Dichlorobenzene	0.85	2.96	ND	5.10	17.84	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.27	2.96	ND	12.29	28.68	ND	
120-82-1	1,2,4-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
91-20-3	Naphthalene	2.12	0.42	ND	11.11	2.22	ND	
87-61-6	1,2,3-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
87-68-3	Hexachlorobutadiene	1.06	1.27	ND	11.30	13.56	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	128	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 29

File Name: 2510029A.D
Description: T-211
Canister: 629
QC_Batch: 040225-MA1

Date Sampled: 03/20/25 **Time:** 11:26
Date Analyzed: 04/02/25 **Time:** 12:24
Can Dilution Factor: 1.29
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.43	1.08	0.70	0.74	1.85	1.21	J
75-71-8	Dichlorodifluoromethane	0.65	1.08	ND	3.19	5.32	ND	
67-56-1	Methanol	2.15	2.58	12.50	2.82	3.38	16.38	
74-87-3	Chloromethane	0.65	1.08	ND	1.33	2.22	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.43	1.08	ND	3.01	7.52	ND	
75-01-4	Vinyl chloride	0.22	1.08	ND	0.55	2.75	ND	
106-99-0	1,3-Butadiene	0.22	1.08	ND	0.48	2.38	ND	
74-83-9	Bromomethane	0.43	1.08	ND	1.67	4.18	ND	
75-00-3	Chloroethane	0.43	1.08	ND	1.14	2.84	ND	
64-17-5	Ethanol	2.15	13.80	ND	4.06	26.06	ND	
107-02-8	Acrolein	0.43	1.29	1.37	0.99	2.96	3.15	
75-69-4	Trichlorofluoromethane	0.43	1.08	ND	2.42	6.05	ND	
67-64-1	Acetone	2.15	2.58	6.99	5.12	6.14	16.63	
67-63-0	2-propanol (isopropylalcohol)	0.86	5.38	ND	2.12	13.23	ND	
75-65-0	t-Butyl alcohol	0.43	4.30	ND	1.30	13.05	ND	
4227-95-6	Methyl iodide	0.43	1.29	ND	2.52	7.55	ND	
75-35-4	1,1-Dichloroethene	0.22	1.08	ND	0.85	4.27	ND	
107-13-1	Acrylonitrile	0.86	1.29	ND	1.87	2.81	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.22	1.08	ND	1.65	8.25	ND	
107-05-1	Allyl chloride	0.22	4.30	ND	0.67	13.47	ND	
75-09-2	Methylene chloride	0.22	1.08	ND	0.75	3.74	ND	
75-15-0	Carbon disulfide	0.43	1.08	ND	1.34	3.35	ND	
156-60-5	trans-1,2-Dichloroethene	0.22	0.86	ND	0.85	3.41	ND	
1634-04-4	Methyl tert butyl ether	0.43	0.86	ND	1.55	3.10	ND	
107-12-0	Propionitrile	1.08	1.72	ND	2.43	3.88	ND	
75-34-3	1,1-Dichloroethane	0.21	1.08	ND	0.87	4.36	ND	
637-92-3	Ethyl tert butyl ether	0.43	1.08	ND	1.80	4.50	ND	
108-05-4	Vinyl acetate	0.22	4.30	ND	0.76	15.16	ND	
78-93-3	2-Butanone (MEK)	0.43	1.29	0.68	1.27	3.81	2.02	J
108-20-3	Diisopropyl ether	0.43	2.58	ND	1.80	10.80	ND	
110-54-3	Hexane	0.43	1.08	ND	1.52	3.80	ND	
126-98-7	Methacrylonitrile	0.43	1.08	ND	1.18	2.95	ND	
141-78-6	Ethyl acetate	0.43	1.08	ND	1.55	3.88	ND	
74-97-5	Bromochloromethane	0.22	1.08	ND	1.14	5.70	ND	
96-33-3	Methyl acrylate	0.43	2.15	ND	1.52	7.58	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.22	1.29	ND	0.64	3.81	ND	
78-83-1	Isobutyl alcohol	0.86	3.44	ND	2.61	10.44	ND	
156-59-2	cis-1,2-Dichloroethene	0.22	1.08	ND	0.85	4.27	ND	
594-20-7	2,2-Dichloropropane	0.22	1.08	ND	1.00	4.98	ND	
67-66-3	Chloroform	0.22	1.08	ND	1.05	5.26	ND	
71-55-6	1,1,1-Trichloroethane	0.22	1.08	ND	1.17	5.87	ND	
107-06-2	1,2-Dichloroethane	0.22	1.08	ND	0.87	4.36	ND	
563-58-6	1,1-Dichloropropene	0.22	1.08	ND	0.98	4.89	ND	
110-82-7	Cyclohexane	0.22	1.08	ND	0.74	3.71	ND	
71-43-2	Benzene	1.51	2.15	2.08	4.81	6.88	6.64	J
56-23-5	Carbon tetrachloride	0.22	1.08	ND	1.35	6.77	ND	
994-05-8	t-Amyl methyl ether	0.43	2.15	ND	1.80	9.00	ND	
540-84-1	2,2,4-Trimethylpentane	0.22	1.08	ND	1.01	5.03	ND	
142-82-5	n-Heptane	0.43	1.08	ND	1.76	4.41	ND	
78-87-5	1,2-Dichloropropane	0.22	1.08	ND	1.00	4.98	ND	
123-91-1	1,4 Dioxane	0.43	2.15	ND	1.55	7.76	ND	
74-95-3	Dibromomethane	0.22	1.08	ND	1.53	7.65	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.08	ND	0.58	5.79	ND	
75-27-4	Bromodichloromethane	0.22	1.08	ND	1.44	7.21	ND	
80-62-6	Methyl methacrylate	0.43	1.08	ND	1.76	4.41	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.43	3.44	ND	1.76	14.12	ND	
10061-01-5	cis-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.89	ND	
108-88-3	Toluene	0.86	1.08	ND	3.24	4.05	ND	
10061-02-6	trans-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.89	ND	
79-00-5	1,1,2-Trichloroethane	0.22	1.08	ND	1.17	5.87	ND	
97-63-2	Ethyl methacrylate	0.43	1.08	ND	2.01	5.03	ND	
591-78-6	2-Hexanone	0.43	3.44	ND	1.76	14.12	ND	
142-28-9	1,3-Dichloropropane	0.22	3.01	ND	1.00	13.93	ND	
111-65-9	Octane	0.43	1.08	ND	2.01	5.03	ND	
124-48-1	Dibromochloromethane	0.43	1.08	ND	3.67	9.17	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.43	1.08	ND	3.31	8.27	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.08	0.23	0.73	7.30	1.55	J
108-90-7	Chlorobenzene	0.43	1.08	ND	1.98	4.96	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.43	1.08	ND	2.96	7.39	ND	
100-41-4	Ethylbenzene	0.43	1.08	ND	1.87	4.68	ND	
1330-20-7	m,p-Xylenes	0.43	1.08	ND	1.87	4.68	ND	
111-84-2	Nonane	0.43	1.08	ND	2.26	5.65	ND	
100-42-5	Styrene	0.65	1.08	ND	2.75	4.59	ND	
75-25-2	Bromoform	0.43	1.08	ND	4.45	11.13	ND	
95-47-6	o-Xylene	0.43	1.08	ND	1.87	4.68	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.86	2.15	ND	5.91	14.78	ND	
96-18-4	1,2,3-Trichloropropane	0.86	2.58	ND	5.19	15.57	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.86	2.58	ND	4.40	13.21	ND	
103-65-1	n-Propylbenzene	0.86	3.01	ND	4.23	14.82	ND	
98-82-8	Isopropylbenzene	0.86	3.01	ND	4.23	14.82	ND	
622-96-8	4-Ethyltoluene	0.86	6.88	ND	4.23	33.87	ND	
108-67-8	1,3,5-Trimethylbenzene	0.86	3.87	ND	4.23	19.05	ND	
124-18-5	Decane	0.86	2.58	ND	5.01	15.04	ND	
98-06-6	tert-butyl benzene	0.86	2.58	ND	4.73	14.18	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.86	3.87	ND	4.23	19.05	ND	
538-93-2	i-Butylbenzene	0.86	2.58	ND	4.73	14.18	ND	
135-98-8	sec-butylbenzene	0.86	3.01	ND	4.73	16.54	ND	
541-73-1	1,3-Dichlorobenzene	0.86	3.44	ND	5.18	20.71	ND	
99-87-6	Isopropyltoluene	0.86	2.58	ND	4.73	14.18	ND	
100-44-7	Benzyl chloride	0.86	2.15	ND	4.46	11.15	ND	
106-46-7	1,4-Dichlorobenzene	0.86	2.15	ND	5.18	12.94	ND	
104-51-8	n-Butylbenzene	0.86	2.58	ND	4.73	14.18	ND	
95-50-1	1,2-Dichlorobenzene	0.86	3.01	ND	5.18	18.12	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.29	3.01	ND	12.48	29.13	ND	
120-82-1	1,2,4-Trichlorobenzene	1.29	2.15	ND	9.58	15.97	ND	
91-20-3	Naphthalene	2.15	0.43	ND	11.29	2.26	ND	
87-61-6	1,2,3-Trichlorobenzene	1.29	2.15	ND	9.58	15.97	ND	
87-68-3	Hexachlorobutadiene	1.08	1.29	ND	11.48	13.78	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	93	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 30**

File Name: 2510030A.D **Date Sampled:** 03/20/25 **Time:** 11:30
Description: T-212 **Date Analyzed:** 04/02/25 **Time:** 13:02
Canister: 502 **Can Dilution Factor:** 1.35
QC_Batch: 040225-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.45	1.13	0.69	0.78	1.94	1.18	J
75-71-8	Dichlorodifluoromethane	0.68	1.13	ND	3.34	5.57	ND	
67-56-1	Methanol	2.25	2.70	16.65	2.95	3.54	21.82	
74-87-3	Chloromethane	0.68	1.13	ND	1.40	2.33	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.45	1.13	ND	3.15	7.87	ND	
75-01-4	Vinyl chloride	0.23	1.13	ND	0.58	2.88	ND	
106-99-0	1,3-Butadiene	0.23	1.13	ND	0.50	2.49	ND	
74-83-9	Bromomethane	0.45	1.13	ND	1.75	4.37	ND	
75-00-3	Chloroethane	0.45	1.13	ND	1.19	2.97	ND	
64-17-5	Ethanol	2.25	14.45	ND	4.25	27.27	ND	
107-02-8	Acrolein	0.45	1.35	2.05	1.03	3.10	4.72	
75-69-4	Trichlorofluoromethane	0.45	1.13	ND	2.53	6.33	ND	
67-64-1	Acetone	2.25	2.70	12.88	5.35	6.42	30.66	
67-63-0	2-propanol (isopropylalcohol)	0.90	5.63	ND	2.22	13.85	ND	
75-65-0	t-Butyl alcohol	0.45	4.50	ND	1.37	13.66	ND	
4227-95-6	Methyl iodide	0.45	1.35	ND	2.63	7.90	ND	
75-35-4	1,1-Dichloroethene	0.23	1.13	ND	0.89	4.46	ND	
107-13-1	Acrylonitrile	0.90	1.35	ND	1.96	2.94	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.23	1.13	ND	1.73	8.63	ND	
107-05-1	Allyl chloride	0.23	4.50	ND	0.70	14.10	ND	
75-09-2	Methylene chloride	0.23	1.13	ND	0.78	3.91	ND	
75-15-0	Carbon disulfide	0.45	1.13	ND	1.40	3.51	ND	
156-60-5	trans-1,2-Dichloroethene	0.23	0.90	ND	0.89	3.57	ND	
1634-04-4	Methyl tert butyl ether	0.45	0.90	ND	1.62	3.25	ND	
107-12-0	Propionitrile	1.13	1.80	ND	2.54	4.06	ND	
75-34-3	1,1-Dichloroethane	0.22	1.13	ND	0.91	4.56	ND	
637-92-3	Ethyl tert butyl ether	0.45	1.13	ND	1.88	4.71	ND	
108-05-4	Vinyl acetate	0.23	4.50	ND	0.79	15.87	ND	
78-93-3	2-Butanone (MEK)	0.45	1.35	1.94	1.33	3.99	5.73	
108-20-3	Diisopropyl ether	0.45	2.70	ND	1.88	11.30	ND	
110-54-3	Hexane	0.45	1.13	ND	1.59	3.97	ND	
126-98-7	Methacrylonitrile	0.45	1.13	ND	1.24	3.09	ND	
141-78-6	Ethyl acetate	0.45	1.13	ND	1.62	4.06	ND	
74-97-5	Bromochloromethane	0.23	1.13	ND	1.19	5.96	ND	
96-33-3	Methyl acrylate	0.45	2.25	ND	1.59	7.93	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.23	1.35	0.62	0.67	3.99	1.82	J
78-83-1	Isobutyl alcohol	0.90	3.60	ND	2.73	10.93	ND	
156-59-2	cis-1,2-Dichloroethene	0.23	1.13	ND	0.89	4.46	ND	
594-20-7	2,2-Dichloropropane	0.23	1.13	ND	1.04	5.21	ND	
67-66-3	Chloroform	0.23	1.13	ND	1.10	5.50	ND	
71-55-6	1,1,1-Trichloroethane	0.23	1.13	ND	1.23	6.15	ND	
107-06-2	1,2-Dichloroethane	0.23	1.13	ND	0.91	4.56	ND	
563-58-6	1,1-Dichloropropene	0.23	1.13	ND	1.02	5.11	ND	
110-82-7	Cyclohexane	0.23	1.13	ND	0.78	3.88	ND	
71-43-2	Benzene	1.58	2.25	2.73	5.04	7.20	8.74	
56-23-5	Carbon tetrachloride	0.23	1.13	ND	1.42	7.09	ND	
994-05-8	t-Amyl methyl ether	0.45	2.25	ND	1.88	9.42	ND	
540-84-1	2,2,4-Trimethylpentane	0.23	1.13	ND	1.05	5.26	ND	
142-82-5	n-Heptane	0.45	1.13	ND	1.85	4.62	ND	
78-87-5	1,2-Dichloropropane	0.23	1.13	ND	1.04	5.21	ND	
123-91-1	1,4 Dioxane	0.45	2.25	ND	1.62	8.12	ND	
74-95-3	Dibromomethane	0.23	1.13	ND	1.60	8.01	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.13	ND	0.61	6.05	ND	
75-27-4	Bromodichloromethane	0.23	1.13	ND	1.51	7.55	ND	
80-62-6	Methyl methacrylate	0.45	1.13	ND	1.84	4.61	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.45	3.60	ND	1.85	14.77	ND	
10061-01-5	cis-1,3-Dichloropropene	0.23	1.13	ND	1.02	5.11	ND	
108-88-3	Toluene	0.90	1.13	ND	3.39	4.24	ND	
10061-02-6	trans-1,3-Dichloropropene	0.23	1.13	ND	1.02	5.11	ND	
79-00-5	1,1,2-Trichloroethane	0.23	1.13	ND	1.23	6.15	ND	
97-63-2	Ethyl methacrylate	0.45	1.13	ND	2.10	5.26	ND	
591-78-6	2-Hexanone	0.45	3.60	ND	1.85	14.77	ND	
142-28-9	1,3-Dichloropropane	0.23	3.15	ND	1.04	14.58	ND	
111-65-9	Octane	0.45	1.13	ND	2.10	5.26	ND	
124-48-1	Dibromochloromethane	0.45	1.13	ND	3.84	9.60	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.45	1.13	ND	3.46	8.66	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.13	ND	0.76	7.64	ND	
108-90-7	Chlorobenzene	0.45	1.13	ND	2.08	5.19	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.45	1.13	ND	3.09	7.73	ND	
100-41-4	Ethylbenzene	0.45	1.13	ND	1.96	4.89	ND	
1330-20-7	m,p-Xylenes	0.45	1.13	ND	1.96	4.89	ND	
111-84-2	Nonane	0.45	1.13	ND	2.36	5.91	ND	
100-42-5	Styrene	0.68	1.13	ND	2.88	4.80	ND	
75-25-2	Bromoform	0.45	1.13	ND	4.66	11.64	ND	
95-47-6	o-Xylene	0.45	1.13	ND	1.96	4.89	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.90	2.25	ND	6.19	15.46	ND	
96-18-4	1,2,3-Trichloropropane	0.90	2.70	ND	5.43	16.30	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.90	2.70	ND	4.61	13.82	ND	
103-65-1	n-Propylbenzene	0.90	3.15	ND	4.43	15.51	ND	
98-82-8	Isopropylbenzene	0.90	3.15	ND	4.43	15.51	ND	
622-96-8	4-Ethyltoluene	0.90	7.20	ND	4.43	35.44	ND	
108-67-8	1,3,5-Trimethylbenzene	0.90	4.05	ND	4.43	19.94	ND	
124-18-5	Decane	0.90	2.70	ND	5.25	15.74	ND	
98-06-6	tert-butyl benzene	0.90	2.70	ND	4.95	14.84	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.90	4.05	ND	4.43	19.94	ND	
538-93-2	i-Butylbenzene	0.90	2.70	ND	4.95	14.84	ND	
135-98-8	sec-butylbenzene	0.90	3.15	ND	4.95	17.31	ND	
541-73-1	1,3-Dichlorobenzene	0.90	3.60	ND	5.42	21.67	ND	
99-87-6	Isopropyltoluene	0.90	2.70	3.15	4.95	14.84	17.33	
100-44-7	Benzyl chloride	0.90	2.25	ND	4.67	11.67	ND	
106-46-7	1,4-Dichlorobenzene	0.90	2.25	ND	5.42	13.55	ND	
104-51-8	n-Butylbenzene	0.90	2.70	ND	4.95	14.84	ND	
95-50-1	1,2-Dichlorobenzene	0.90	3.15	ND	5.42	18.96	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.35	3.15	ND	13.06	30.48	ND	
120-82-1	1,2,4-Trichlorobenzene	1.35	2.25	ND	10.03	16.72	ND	
91-20-3	Naphthalene	2.25	0.45	ND	11.81	2.36	ND	
87-61-6	1,2,3-Trichlorobenzene	1.35	2.25	ND	10.03	16.72	ND	
87-68-3	Hexachlorobutadiene	1.13	1.35	ND	12.02	14.42	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	102	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 31

File Name: 2510031A.D
Description: T-213
Canister: 712
QC_Batch: 040225-MA1

Date Sampled: 03/20/25 **Time:** 11:30
Date Analyzed: 04/02/25 **Time:** 13:39
Can Dilution Factor: 1.33
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.44	1.11	0.76	0.76	1.91	1.31	J
75-71-8	Dichlorodifluoromethane	0.67	1.11	ND	3.29	5.49	ND	
67-56-1	Methanol	2.22	2.66	15.52	2.91	3.49	20.33	
74-87-3	Chloromethane	0.67	1.11	ND	1.38	2.29	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.44	1.11	ND	3.10	7.76	ND	
75-01-4	Vinyl chloride	0.22	1.11	ND	0.57	2.84	ND	
106-99-0	1,3-Butadiene	0.22	1.11	ND	0.49	2.46	ND	
74-83-9	Bromomethane	0.44	1.11	ND	1.72	4.31	ND	
75-00-3	Chloroethane	0.44	1.11	ND	1.17	2.93	ND	
64-17-5	Ethanol	2.22	14.23	2.49	4.19	26.87	4.71	J
107-02-8	Acrolein	0.44	1.33	2.46	1.02	3.06	5.66	
75-69-4	Trichlorofluoromethane	0.44	1.11	ND	2.49	6.24	ND	
67-64-1	Acetone	2.22	2.66	9.28	5.27	6.33	22.09	
67-63-0	2-propanol (isopropylalcohol)	0.89	5.54	ND	2.18	13.64	ND	
75-65-0	t-Butyl alcohol	0.44	4.43	ND	1.35	13.45	ND	
4227-95-6	Methyl iodide	0.44	1.33	ND	2.59	7.78	ND	
75-35-4	1,1-Dichloroethene	0.22	1.11	ND	0.88	4.40	ND	
107-13-1	Acrylonitrile	0.89	1.33	ND	1.93	2.89	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.22	1.11	ND	1.70	8.51	ND	
107-05-1	Allyl chloride	0.22	4.43	ND	0.69	13.89	ND	
75-09-2	Methylene chloride	0.22	1.11	ND	0.77	3.85	ND	
75-15-0	Carbon disulfide	0.44	1.11	8.00	1.38	3.45	24.93	
156-60-5	trans-1,2-Dichloroethene	0.22	0.89	ND	0.88	3.52	ND	
1634-04-4	Methyl tert butyl ether	0.44	0.89	ND	1.60	3.20	ND	
107-12-0	Propionitrile	1.11	1.77	ND	2.50	4.00	ND	
75-34-3	1,1-Dichloroethane	0.22	1.11	ND	0.90	4.49	ND	
637-92-3	Ethyl tert butyl ether	0.44	1.11	ND	1.86	4.64	ND	
108-05-4	Vinyl acetate	0.22	4.43	ND	0.78	15.63	ND	
78-93-3	2-Butanone (MEK)	0.44	1.33	1.15	1.31	3.93	3.40	J
108-20-3	Diisopropyl ether	0.44	2.66	ND	1.86	11.13	ND	
110-54-3	Hexane	0.44	1.11	ND	1.57	3.91	ND	
126-98-7	Methacrylonitrile	0.44	1.11	ND	1.22	3.05	ND	
141-78-6	Ethyl acetate	0.44	1.11	ND	1.60	4.00	ND	
74-97-5	Bromochloromethane	0.22	1.11	ND	1.17	5.87	ND	
96-33-3	Methyl acrylate	0.44	2.22	ND	1.56	7.82	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.22	1.33	0.67	0.66	3.93	1.97	J
78-83-1	Isobutyl alcohol	0.89	3.55	ND	2.69	10.76	ND	
156-59-2	cis-1,2-Dichloroethene	0.22	1.11	ND	0.88	4.40	ND	
594-20-7	2,2-Dichloropropane	0.22	1.11	ND	1.03	5.13	ND	
67-66-3	Chloroform	0.22	1.11	ND	1.09	5.42	ND	
71-55-6	1,1,1-Trichloroethane	0.22	1.11	ND	1.21	6.06	ND	
107-06-2	1,2-Dichloroethane	0.22	1.11	ND	0.90	4.49	ND	
563-58-6	1,1-Dichloropropene	0.22	1.11	ND	1.01	5.04	ND	
110-82-7	Cyclohexane	0.22	1.11	ND	0.76	3.82	ND	
71-43-2	Benzene	1.55	2.22	3.27	4.96	7.09	10.47	
56-23-5	Carbon tetrachloride	0.22	1.11	ND	1.40	6.98	ND	
994-05-8	t-Amyl methyl ether	0.44	2.22	ND	1.86	9.28	ND	
540-84-1	2,2,4-Trimethylpentane	0.22	1.11	ND	1.04	5.18	ND	
142-82-5	n-Heptane	0.44	1.11	ND	1.82	4.55	ND	
78-87-5	1,2-Dichloropropane	0.22	1.11	ND	1.03	5.13	ND	
123-91-1	1,4 Dioxane	0.44	2.22	ND	1.60	8.00	ND	
74-95-3	Dibromomethane	0.22	1.11	ND	1.58	7.89	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.11	ND	0.60	5.96	ND	
75-27-4	Bromodichloromethane	0.22	1.11	ND	1.49	7.44	ND	
80-62-6	Methyl methacrylate	0.44	1.11	ND	1.82	4.54	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.44	3.55	ND	1.82	14.55	ND	
10061-01-5	cis-1,3-Dichloropropene	0.22	1.11	ND	1.01	5.04	ND	
108-88-3	Toluene	0.89	1.11	ND	3.34	4.18	ND	
10061-02-6	trans-1,3-Dichloropropene	0.22	1.11	ND	1.01	5.04	ND	
79-00-5	1,1,2-Trichloroethane	0.22	1.11	ND	1.21	6.06	ND	
97-63-2	Ethyl methacrylate	0.44	1.11	ND	2.07	5.18	ND	
591-78-6	2-Hexanone	0.44	3.55	ND	1.82	14.55	ND	
142-28-9	1,3-Dichloropropane	0.22	3.10	ND	1.03	14.36	ND	
111-65-9	Octane	0.44	1.11	ND	2.07	5.18	ND	
124-48-1	Dibromochloromethane	0.44	1.11	ND	3.78	9.46	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.44	1.11	ND	3.41	8.53	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.11	ND	0.75	7.53	ND	
108-90-7	Chlorobenzene	0.44	1.11	ND	2.04	5.11	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.44	1.11	ND	3.05	7.62	ND	
100-41-4	Ethylbenzene	0.44	1.11	ND	1.93	4.82	ND	
1330-20-7	m,p-Xylenes	0.44	1.11	ND	1.93	4.82	ND	
111-84-2	Nonane	0.44	1.11	ND	2.33	5.82	ND	
100-42-5	Styrene	0.67	1.11	ND	2.84	4.73	ND	
75-25-2	Bromoform	0.44	1.11	ND	4.59	11.47	ND	
95-47-6	o-Xylene	0.44	1.11	ND	1.93	4.82	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.89	2.22	ND	6.09	15.23	ND	
96-18-4	1,2,3-Trichloropropane	0.89	2.66	ND	5.35	16.06	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.89	2.66	ND	4.54	13.62	ND	
103-65-1	n-Propylbenzene	0.89	3.10	ND	4.36	15.28	ND	
98-82-8	Isopropylbenzene	0.89	3.10	ND	4.36	15.28	ND	
622-96-8	4-Ethyltoluene	0.89	7.09	ND	4.36	34.92	ND	
108-67-8	1,3,5-Trimethylbenzene	0.89	3.99	ND	4.36	19.64	ND	
124-18-5	Decane	0.89	2.66	ND	5.17	15.50	ND	
98-06-6	tert-butyl benzene	0.89	2.66	ND	4.87	14.62	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.89	3.99	ND	4.36	19.64	ND	
538-93-2	i-Butylbenzene	0.89	2.66	ND	4.87	14.62	ND	
135-98-8	sec-butylbenzene	0.89	3.10	ND	4.87	17.06	ND	
541-73-1	1,3-Dichlorobenzene	0.89	3.55	ND	5.34	21.35	ND	
99-87-6	Isopropyltoluene	0.89	2.66	ND	4.87	14.62	ND	
100-44-7	Benzyl chloride	0.89	2.22	ND	4.60	11.49	ND	
106-46-7	1,4-Dichlorobenzene	0.89	2.22	ND	5.34	13.35	ND	
104-51-8	n-Butylbenzene	0.89	2.66	ND	4.87	14.62	ND	
95-50-1	1,2-Dichlorobenzene	0.89	3.10	ND	5.34	18.68	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.33	3.10	ND	12.87	30.03	ND	
120-82-1	1,2,4-Trichlorobenzene	1.33	2.22	ND	9.88	16.47	ND	
91-20-3	Naphthalene	2.22	0.44	ND	11.64	2.33	ND	
87-61-6	1,2,3-Trichlorobenzene	1.33	2.22	ND	9.88	16.47	ND	
87-68-3	Hexachlorobutadiene	1.11	1.33	ND	11.84	14.21	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	130	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15

Laboratory ID: 32

File Name: 2510032A.D
Description: T-214
Canister: 610
QC_Batch: 033125-MA1

Date Sampled: 03/20/25 **Time:** 12:57
Date Analyzed: 03/31/25 **Time:** 13:08
Can Dilution Factor: 1.11
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.37	0.93	ND	0.64	1.59	ND	
75-71-8	Dichlorodifluoromethane	0.56	0.93	ND	2.75	4.58	ND	
67-56-1	Methanol	1.85	2.22	ND	2.42	2.91	ND	
74-87-3	Chloromethane	0.56	0.93	ND	1.15	1.91	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.37	0.93	ND	2.59	6.47	ND	
75-01-4	Vinyl chloride	0.19	0.93	ND	0.48	2.37	ND	
106-99-0	1,3-Butadiene	0.19	0.93	ND	0.41	2.05	ND	
74-83-9	Bromomethane	0.37	0.93	ND	1.44	3.60	ND	
75-00-3	Chloroethane	0.37	0.93	ND	0.98	2.44	ND	
64-17-5	Ethanol	1.85	11.88	ND	3.49	22.42	ND	
107-02-8	Acrolein	0.37	1.11	ND	0.85	2.55	ND	
75-69-4	Trichlorofluoromethane	0.37	0.93	ND	2.08	5.21	ND	
67-64-1	Acetone	1.85	2.22	ND	4.40	5.28	ND	
67-63-0	2-propanol (isopropylalcohol)	0.74	4.63	ND	1.82	11.38	ND	
75-65-0	t-Butyl alcohol	0.37	3.70	ND	1.12	11.23	ND	
4227-95-6	Methyl iodide	0.37	1.11	ND	2.17	6.50	ND	
75-35-4	1,1-Dichloroethene	0.19	0.93	ND	0.73	3.67	ND	
107-13-1	Acrylonitrile	0.74	1.11	ND	1.61	2.41	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.19	0.93	ND	1.42	7.10	ND	
107-05-1	Allyl chloride	0.19	3.70	ND	0.58	11.59	ND	
75-09-2	Methylene chloride	0.19	0.93	ND	0.64	3.22	ND	
75-15-0	Carbon disulfide	0.37	0.93	ND	1.15	2.88	ND	
156-60-5	trans-1,2-Dichloroethene	0.19	0.74	ND	0.73	2.94	ND	
1634-04-4	Methyl tert butyl ether	0.37	0.74	ND	1.34	2.67	ND	
107-12-0	Propionitrile	0.93	1.48	ND	2.09	3.34	ND	
75-34-3	1,1-Dichloroethane	0.18	0.93	ND	0.75	3.75	ND	
637-92-3	Ethyl tert butyl ether	0.37	0.93	ND	1.55	3.87	ND	
108-05-4	Vinyl acetate	0.19	3.70	ND	0.65	13.05	ND	
78-93-3	2-Butanone (MEK)	0.37	1.11	ND	1.09	3.28	ND	
108-20-3	Diisopropyl ether	0.37	2.22	ND	1.55	9.29	ND	
110-54-3	Hexane	0.37	0.93	ND	1.31	3.27	ND	
126-98-7	Methacrylonitrile	0.37	0.93	ND	1.02	2.54	ND	
141-78-6	Ethyl acetate	0.37	0.93	ND	1.34	3.34	ND	
74-97-5	Bromochloromethane	0.19	0.93	ND	0.98	4.90	ND	
96-33-3	Methyl acrylate	0.37	1.85	ND	1.30	6.52	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.19	1.11	ND	0.55	3.28	ND	
78-83-1	Isobutyl alcohol	0.74	2.96	ND	2.25	8.98	ND	
156-59-2	cis-1,2-Dichloroethene	0.19	0.93	ND	0.73	3.67	ND	
594-20-7	2,2-Dichloropropane	0.19	0.93	ND	0.86	4.28	ND	
67-66-3	Chloroform	0.19	0.93	ND	0.91	4.52	ND	
71-55-6	1,1,1-Trichloroethane	0.19	0.93	ND	1.01	5.05	ND	
107-06-2	1,2-Dichloroethane	0.19	0.93	ND	0.75	3.75	ND	
563-58-6	1,1-Dichloropropene	0.19	0.93	ND	0.84	4.21	ND	
110-82-7	Cyclohexane	0.19	0.93	ND	0.64	3.19	ND	
71-43-2	Benzene	1.30	1.85	ND	4.14	5.92	ND	
56-23-5	Carbon tetrachloride	0.19	0.93	ND	1.17	5.83	ND	
994-05-8	t-Amyl methyl ether	0.37	1.85	ND	1.55	7.74	ND	
540-84-1	2,2,4-Trimethylpentane	0.19	0.93	ND	0.87	4.33	ND	
142-82-5	n-Heptane	0.37	0.93	ND	1.52	3.80	ND	
78-87-5	1,2-Dichloropropane	0.19	0.93	ND	0.86	4.28	ND	
123-91-1	1,4 Dioxane	0.37	1.85	ND	1.34	6.68	ND	
74-95-3	Dibromomethane	0.19	0.93	ND	1.32	6.59	ND	
79-01-6	Trichloroethene (TCE)	0.09	0.93	ND	0.50	4.98	ND	
75-27-4	Bromodichloromethane	0.19	0.93	ND	1.24	6.21	ND	
80-62-6	Methyl methacrylate	0.37	0.93	ND	1.52	3.79	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.37	2.96	ND	1.52	12.15	ND	
10061-01-5	cis-1,3-Dichloropropene	0.19	0.93	ND	0.84	4.21	ND	
108-88-3	Toluene	0.74	0.93	ND	2.79	3.49	ND	
10061-02-6	trans-1,3-Dichloropropene	0.19	0.93	ND	0.84	4.21	ND	
79-00-5	1,1,2-Trichloroethane	0.19	0.93	ND	1.01	5.05	ND	
97-63-2	Ethyl methacrylate	0.37	0.93	ND	1.73	4.33	ND	
591-78-6	2-Hexanone	0.37	2.96	ND	1.52	12.15	ND	
142-28-9	1,3-Dichloropropane	0.19	2.59	ND	0.86	11.99	ND	
111-65-9	Octane	0.37	0.93	ND	1.73	4.33	ND	
124-48-1	Dibromochloromethane	0.37	0.93	ND	3.16	7.89	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.37	0.93	ND	2.85	7.12	ND	
127-18-4	Tetrachloroethene (PCE)	0.09	0.93	ND	0.63	6.28	ND	
108-90-7	Chlorobenzene	0.37	0.93	ND	1.71	4.27	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.37	0.93	ND	2.54	6.36	ND	
100-41-4	Ethylbenzene	0.37	0.93	ND	1.61	4.02	ND	
1330-20-7	m,p-Xylenes	0.37	0.93	ND	1.61	4.02	ND	
111-84-2	Nonane	0.37	0.93	ND	1.94	4.86	ND	
100-42-5	Styrene	0.56	0.93	ND	2.37	3.95	ND	
75-25-2	Bromoform	0.37	0.93	ND	3.83	9.57	ND	
95-47-6	o-Xylene	0.37	0.93	ND	1.61	4.02	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.74	1.85	ND	5.09	12.71	ND	
96-18-4	1,2,3-Trichloropropane	0.74	2.22	ND	4.47	13.40	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.74	2.22	ND	3.79	11.37	ND	
103-65-1	n-Propylbenzene	0.74	2.59	ND	3.64	12.75	ND	
98-82-8	Isopropylbenzene	0.74	2.59	ND	3.64	12.75	ND	
622-96-8	4-Ethyltoluene	0.74	5.92	ND	3.64	29.14	ND	
108-67-8	1,3,5-Trimethylbenzene	0.74	3.33	ND	3.64	16.39	ND	
124-18-5	Decane	0.74	2.22	ND	4.31	12.94	ND	
98-06-6	tert-butyl benzene	0.74	2.22	ND	4.07	12.20	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.74	3.33	ND	3.64	16.39	ND	
538-93-2	i-Butylbenzene	0.74	2.22	ND	4.07	12.20	ND	
135-98-8	sec-butylbenzene	0.74	2.59	ND	4.07	14.24	ND	
541-73-1	1,3-Dichlorobenzene	0.74	2.96	ND	4.46	17.82	ND	
99-87-6	Isopropyltoluene	0.74	2.22	ND	4.07	12.20	ND	
100-44-7	Benzyl chloride	0.74	1.85	ND	3.84	9.59	ND	
106-46-7	1,4-Dichlorobenzene	0.74	1.85	ND	4.46	11.14	ND	
104-51-8	n-Butylbenzene	0.74	2.22	ND	4.07	12.20	ND	
95-50-1	1,2-Dichlorobenzene	0.74	2.59	ND	4.46	15.59	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.11	2.59	ND	10.74	25.07	ND	
120-82-1	1,2,4-Trichlorobenzene	1.11	1.85	ND	8.25	13.74	ND	
91-20-3	Naphthalene	1.85	0.37	ND	9.71	1.94	ND	
87-61-6	1,2,3-Trichlorobenzene	1.11	1.85	ND	8.25	13.74	ND	
87-68-3	Hexachlorobutadiene	0.93	1.11	ND	9.88	11.86	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	QC Limits UCL	Flag
2037-26-5	Toluene-d8	96	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 33**

File Name: 2510033A.D **Date Sampled:** 03/20/25 **Time:** 12:44
Description: T-215 **Date Analyzed:** 04/02/25 **Time:** 12:44
Canister: 751 **Can Dilution Factor:** 1.29
QC_Batch: 040225-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.43	1.08	1.38	0.74	1.85	2.38	
75-71-8	Dichlorodifluoromethane	0.65	1.08	ND	3.19	5.32	ND	
67-56-1	Methanol	2.15	2.58	44.00	2.82	3.38	57.67	
74-87-3	Chloromethane	0.65	1.08	ND	1.33	2.22	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.43	1.08	ND	3.01	7.52	ND	
75-01-4	Vinyl chloride	0.22	1.08	ND	0.55	2.75	ND	
106-99-0	1,3-Butadiene	0.22	1.08	ND	0.48	2.38	ND	
74-83-9	Bromomethane	0.43	1.08	ND	1.67	4.18	ND	
75-00-3	Chloroethane	0.43	1.08	ND	1.14	2.84	ND	
64-17-5	Ethanol	2.15	13.80	4.40	4.06	26.06	8.32	J
107-02-8	Acrolein	0.43	1.29	3.64	0.99	2.96	8.37	
75-69-4	Trichlorofluoromethane	0.43	1.08	ND	2.42	6.05	ND	
67-64-1	Acetone	2.15	2.58	13.90	5.12	6.14	33.07	
67-63-0	2-propanol (isopropylalcohol)	0.86	5.38	ND	2.12	13.23	ND	
75-65-0	t-Butyl alcohol	0.43	4.30	ND	1.30	13.05	ND	
4227-95-6	Methyl iodide	0.43	1.29	ND	2.52	7.55	ND	
75-35-4	1,1-Dichloroethene	0.22	1.08	ND	0.85	4.27	ND	
107-13-1	Acrylonitrile	0.86	1.29	ND	1.87	2.81	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.22	1.08	ND	1.65	8.25	ND	
107-05-1	Allyl chloride	0.22	4.30	ND	0.67	13.47	ND	
75-09-2	Methylene chloride	0.22	1.08	ND	0.75	3.74	ND	
75-15-0	Carbon disulfide	0.43	1.08	0.51	1.34	3.35	1.59	J
156-60-5	trans-1,2-Dichloroethene	0.22	0.86	ND	0.85	3.41	ND	
1634-04-4	Methyl tert butyl ether	0.43	0.86	ND	1.55	3.10	ND	
107-12-0	Propionitrile	1.08	1.72	ND	2.43	3.88	ND	
75-34-3	1,1-Dichloroethane	0.21	1.08	ND	0.87	4.36	ND	
637-92-3	Ethyl tert butyl ether	0.43	1.08	ND	1.80	4.50	ND	
108-05-4	Vinyl acetate	0.22	4.30	ND	0.76	15.16	ND	
78-93-3	2-Butanone (MEK)	0.43	1.29	1.63	1.27	3.81	4.80	
108-20-3	Diisopropyl ether	0.43	2.58	ND	1.80	10.80	ND	
110-54-3	Hexane	0.43	1.08	ND	1.52	3.80	ND	
126-98-7	Methacrylonitrile	0.43	1.08	ND	1.18	2.95	ND	
141-78-6	Ethyl acetate	0.43	1.08	ND	1.55	3.88	ND	
74-97-5	Bromochloromethane	0.22	1.08	ND	1.14	5.70	ND	
96-33-3	Methyl acrylate	0.43	2.15	ND	1.52	7.58	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.22	1.29	ND	0.64	3.81	ND	
78-83-1	Isobutyl alcohol	0.86	3.44	ND	2.61	10.44	ND	
156-59-2	cis-1,2-Dichloroethene	0.22	1.08	ND	0.85	4.27	ND	
594-20-7	2,2-Dichloropropane	0.22	1.08	ND	1.00	4.98	ND	
67-66-3	Chloroform	0.22	1.08	2.04	1.05	5.26	9.95	
71-55-6	1,1,1-Trichloroethane	0.22	1.08	ND	1.17	5.87	ND	
107-06-2	1,2-Dichloroethane	0.22	1.08	ND	0.87	4.36	ND	
563-58-6	1,1-Dichloropropene	0.22	1.08	ND	0.98	4.89	ND	
110-82-7	Cyclohexane	0.22	1.08	ND	0.74	3.71	ND	
71-43-2	Benzene	1.51	2.15	3.37	4.81	6.88	10.77	
56-23-5	Carbon tetrachloride	0.22	1.08	ND	1.35	6.77	ND	
994-05-8	t-Amyl methyl ether	0.43	2.15	ND	1.80	9.00	ND	
540-84-1	2,2,4-Trimethylpentane	0.22	1.08	ND	1.01	5.03	ND	
142-82-5	n-Heptane	0.43	1.08	ND	1.76	4.41	ND	
78-87-5	1,2-Dichloropropane	0.22	1.08	ND	1.00	4.98	ND	
123-91-1	1,4 Dioxane	0.43	2.15	ND	1.55	7.76	ND	
74-95-3	Dibromomethane	0.22	1.08	ND	1.53	7.65	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.08	ND	0.58	5.79	ND	
75-27-4	Bromodichloromethane	0.22	1.08	ND	1.44	7.21	ND	
80-62-6	Methyl methacrylate	0.43	1.08	ND	1.76	4.41	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.43	3.44	ND	1.76	14.12	ND	
10061-01-5	cis-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.89	ND	
108-88-3	Toluene	0.86	1.08	ND	3.24	4.05	ND	
10061-02-6	trans-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.89	ND	
79-00-5	1,1,2-Trichloroethane	0.22	1.08	ND	1.17	5.87	ND	
97-63-2	Ethyl methacrylate	0.43	1.08	ND	2.01	5.03	ND	
591-78-6	2-Hexanone	0.43	3.44	ND	1.76	14.12	ND	
142-28-9	1,3-Dichloropropane	0.22	3.01	ND	1.00	13.93	ND	
111-65-9	Octane	0.43	1.08	ND	2.01	5.03	ND	
124-48-1	Dibromochloromethane	0.43	1.08	ND	3.67	9.17	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.43	1.08	ND	3.31	8.27	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.08	ND	0.73	7.30	ND	
108-90-7	Chlorobenzene	0.43	1.08	ND	1.98	4.96	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.43	1.08	ND	2.96	7.39	ND	
100-41-4	Ethylbenzene	0.43	1.08	ND	1.87	4.68	ND	
1330-20-7	m,p-Xylenes	0.43	1.08	ND	1.87	4.68	ND	
111-84-2	Nonane	0.43	1.08	ND	2.26	5.65	ND	
100-42-5	Styrene	0.65	1.08	ND	2.75	4.59	ND	
75-25-2	Bromoform	0.43	1.08	ND	4.45	11.13	ND	
95-47-6	o-Xylene	0.43	1.08	ND	1.87	4.68	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.86	2.15	ND	5.91	14.78	ND	
96-18-4	1,2,3-Trichloropropane	0.86	2.58	ND	5.19	15.57	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.86	2.58	ND	4.40	13.21	ND	
103-65-1	n-Propylbenzene	0.86	3.01	ND	4.23	14.82	ND	
98-82-8	Isopropylbenzene	0.86	3.01	ND	4.23	14.82	ND	
622-96-8	4-Ethyltoluene	0.86	6.88	ND	4.23	33.87	ND	
108-67-8	1,3,5-Trimethylbenzene	0.86	3.87	ND	4.23	19.05	ND	
124-18-5	Decane	0.86	2.58	ND	5.01	15.04	ND	
98-06-6	tert-butyl benzene	0.86	2.58	ND	4.73	14.18	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.86	3.87	ND	4.23	19.05	ND	
538-93-2	i-Butylbenzene	0.86	2.58	ND	4.73	14.18	ND	
135-98-8	sec-butylbenzene	0.86	3.01	ND	4.73	16.54	ND	
541-73-1	1,3-Dichlorobenzene	0.86	3.44	ND	5.18	20.71	ND	
99-87-6	Isopropyltoluene	0.86	2.58	ND	4.73	14.18	ND	
100-44-7	Benzyl chloride	0.86	2.15	ND	4.46	11.15	ND	
106-46-7	1,4-Dichlorobenzene	0.86	2.15	ND	5.18	12.94	ND	
104-51-8	n-Butylbenzene	0.86	2.58	ND	4.73	14.18	ND	
95-50-1	1,2-Dichlorobenzene	0.86	3.01	ND	5.18	18.12	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.29	3.01	ND	12.48	29.13	ND	
120-82-1	1,2,4-Trichlorobenzene	1.29	2.15	ND	9.58	15.97	ND	
91-20-3	Naphthalene	2.15	0.43	ND	11.29	2.26	ND	
87-61-6	1,2,3-Trichlorobenzene	1.29	2.15	ND	9.58	15.97	ND	
87-68-3	Hexachlorobutadiene	1.08	1.29	ND	11.48	13.78	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	127	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 34**

File Name:	2510034A.D	**Date Sampled:**	03/20/25	**Time:**	12:46
Description:	T-216	**Date Analyzed:**	04/02/25	**Time:**	14:54
Canister:	896	**Can Dilution Factor:**	1.38		
QC_Batch:	040225-MA1	**Air Volume:**	300 ml		

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.46	1.15	1.34	0.79	1.98	2.30	
75-71-8	Dichlorodifluoromethane	0.69	1.15	ND	3.42	5.69	ND	
67-56-1	Methanol	2.30	2.76	ND	3.01	3.62	ND	
74-87-3	Chloromethane	0.69	1.15	ND	1.43	2.38	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.46	1.15	ND	3.22	8.05	ND	
75-01-4	Vinyl chloride	0.23	1.15	ND	0.59	2.94	ND	
106-99-0	1,3-Butadiene	0.23	1.15	ND	0.51	2.55	ND	
74-83-9	Bromomethane	0.46	1.15	ND	1.79	4.47	ND	
75-00-3	Chloroethane	0.46	1.15	ND	1.22	3.04	ND	
64-17-5	Ethanol	2.30	14.77	ND	4.34	27.88	ND	
107-02-8	Acrolein	0.46	1.38	2.11	1.06	3.17	4.84	
75-69-4	Trichlorofluoromethane	0.46	1.15	ND	2.59	6.47	ND	
67-64-1	Acetone	2.30	2.76	13.63	5.47	6.57	32.44	
67-63-0	2-propanol (isopropylalcohol)	0.92	5.75	ND	2.26	14.15	ND	
75-65-0	t-Butyl alcohol	0.46	4.60	ND	1.40	13.96	ND	
4227-95-6	Methyl iodide	0.46	1.38	ND	2.69	8.08	ND	
75-35-4	1,1-Dichloroethene	0.23	1.15	ND	0.91	4.56	ND	
107-13-1	Acrylonitrile	0.92	1.38	ND	2.00	3.00	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.23	1.15	ND	1.77	8.83	ND	
107-05-1	Allyl chloride	0.23	4.60	ND	0.72	14.41	ND	
75-09-2	Methylene chloride	0.23	1.15	ND	0.80	4.00	ND	
75-15-0	Carbon disulfide	0.46	1.15	ND	1.43	3.58	ND	
156-60-5	trans-1,2-Dichloroethene	0.23	0.92	ND	0.91	3.65	ND	
1634-04-4	Methyl tert butyl ether	0.46	0.92	ND	1.66	3.32	ND	
107-12-0	Propionitrile	1.15	1.84	ND	2.60	4.15	ND	
75-34-3	1,1-Dichloroethane	0.23	1.15	ND	0.93	4.66	ND	
637-92-3	Ethyl tert butyl ether	0.46	1.15	ND	1.93	4.81	ND	
108-05-4	Vinyl acetate	0.23	4.60	ND	0.81	16.22	ND	
78-93-3	2-Butanone (MEK)	0.46	1.38	2.30	1.36	4.07	6.78	
108-20-3	Diisopropyl ether	0.46	2.76	ND	1.93	11.55	ND	
110-54-3	Hexane	0.46	1.15	ND	1.62	4.06	ND	
126-98-7	Methacrylonitrile	0.46	1.15	ND	1.26	3.16	ND	
141-78-6	Ethyl acetate	0.46	1.15	ND	1.66	4.15	ND	
74-97-5	Bromochloromethane	0.23	1.15	ND	1.22	6.09	ND	
96-33-3	Methyl acrylate	0.46	2.30	ND	1.62	8.11	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.23	1.38	1.55	0.68	4.07	4.56	
78-83-1	Isobutyl alcohol	0.92	3.68	ND	2.79	11.17	ND	
156-59-2	cis-1,2-Dichloroethene	0.23	1.15	ND	0.91	4.56	ND	
594-20-7	2,2-Dichloropropane	0.23	1.15	ND	1.06	5.32	ND	
67-66-3	Chloroform	0.23	1.15	ND	1.13	5.62	ND	
71-55-6	1,1,1-Trichloroethane	0.23	1.15	ND	1.26	6.28	ND	
107-06-2	1,2-Dichloroethane	0.23	1.15	ND	0.93	4.66	ND	
563-58-6	1,1-Dichloropropene	0.23	1.15	ND	1.05	5.23	ND	
110-82-7	Cyclohexane	0.23	1.15	ND	0.79	3.97	ND	
71-43-2	Benzene	1.61	2.30	4.49	5.15	7.36	14.36	
56-23-5	Carbon tetrachloride	0.23	1.15	ND	1.45	7.24	ND	
994-05-8	t-Amyl methyl ether	0.46	2.30	ND	1.93	9.63	ND	
540-84-1	2,2,4-Trimethylpentane	0.23	1.15	ND	1.08	5.38	ND	
142-82-5	n-Heptane	0.46	1.15	ND	1.89	4.72	ND	
78-87-5	1,2-Dichloropropane	0.23	1.15	ND	1.06	5.32	ND	
123-91-1	1,4 Dioxane	0.46	2.30	ND	1.66	8.30	ND	
74-95-3	Dibromomethane	0.23	1.15	ND	1.64	8.19	ND	
79-01-6	Trichloroethene (TCE)	0.12	1.15	ND	0.62	6.19	ND	
75-27-4	Bromodichloromethane	0.23	1.15	ND	1.54	7.71	ND	
80-62-6	Methyl methacrylate	0.46	1.15	ND	1.89	4.71	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.46	3.68	ND	1.89	15.10	ND	
10061-01-5	cis-1,3-Dichloropropene	0.23	1.15	ND	1.05	5.23	ND	
108-88-3	Toluene	0.92	1.15	ND	3.47	4.34	ND	
10061-02-6	trans-1,3-Dichloropropene	0.23	1.15	ND	1.05	5.23	ND	
79-00-5	1,1,2-Trichloroethane	0.23	1.15	ND	1.26	6.28	ND	
97-63-2	Ethyl methacrylate	0.46	1.15	ND	2.15	5.38	ND	
591-78-6	2-Hexanone	0.46	3.68	ND	1.89	15.10	ND	
142-28-9	1,3-Dichloropropane	0.23	3.22	ND	1.06	14.90	ND	
111-65-9	Octane	0.46	1.15	ND	2.15	5.38	ND	
124-48-1	Dibromochloromethane	0.46	1.15	ND	3.92	9.81	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.46	1.15	ND	3.54	8.85	ND	
127-18-4	Tetrachloroethene (PCE)	0.12	1.15	ND	0.78	7.81	ND	
108-90-7	Chlorobenzene	0.46	1.15	ND	2.12	5.30	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.46	1.15	ND	3.16	7.90	ND	
100-41-4	Ethylbenzene	0.46	1.15	ND	2.00	5.00	ND	
1330-20-7	m,p-Xylenes	0.46	1.15	ND	2.00	5.00	ND	
111-84-2	Nonane	0.46	1.15	ND	2.42	6.04	ND	
100-42-5	Styrene	0.69	1.15	ND	2.94	4.91	ND	
75-25-2	Bromoform	0.46	1.15	ND	4.76	11.90	ND	
95-47-6	o-Xylene	0.46	1.15	ND	2.00	5.00	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.92	2.30	ND	6.32	15.81	ND	
96-18-4	1,2,3-Trichloropropane	0.92	2.76	ND	5.55	16.66	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.92	2.76	ND	4.71	14.13	ND	
103-65-1	n-Propylbenzene	0.92	3.22	ND	4.53	15.85	ND	
98-82-8	Isopropylbenzene	0.92	3.22	ND	4.53	15.85	ND	
622-96-8	4-Ethyltoluene	0.92	7.36	ND	4.53	36.23	ND	
108-67-8	1,3,5-Trimethylbenzene	0.92	4.14	ND	4.53	20.38	ND	
124-18-5	Decane	0.92	2.76	ND	5.36	16.08	ND	
98-06-6	tert-butyl benzene	0.92	2.76	ND	5.06	15.17	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.92	4.14	ND	4.53	20.38	ND	
538-93-2	i-Butylbenzene	0.92	2.76	ND	5.06	15.17	ND	
135-98-8	sec-butylbenzene	0.92	3.22	ND	5.06	17.70	ND	
541-73-1	1,3-Dichlorobenzene	0.92	3.68	ND	5.54	22.16	ND	
99-87-6	Isopropyltoluene	0.92	2.76	ND	5.06	15.17	ND	
100-44-7	Benzyl chloride	0.92	2.30	ND	4.77	11.93	ND	
106-46-7	1,4-Dichlorobenzene	0.92	2.30	ND	5.54	13.85	ND	
104-51-8	n-Butylbenzene	0.92	2.76	ND	5.06	15.17	ND	
95-50-1	1,2-Dichlorobenzene	0.92	3.22	ND	5.54	19.39	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.38	3.22	ND	13.36	31.16	ND	
120-82-1	1,2,4-Trichlorobenzene	1.38	2.30	ND	10.25	17.09	ND	
91-20-3	Naphthalene	2.30	0.46	ND	12.08	2.42	ND	
87-61-6	1,2,3-Trichlorobenzene	1.38	2.30	ND	10.25	17.09	ND	
87-68-3	Hexachlorobutadiene	1.15	1.38	ND	12.28	14.74	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	101	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 35**

File Name: 2510035A.D **Date Sampled:** 03/20/25 **Time:** 12:48
Description: T-217 **Date Analyzed:** 04/03/25 **Time:** 21:41
Canister: 634 **Can Dilution Factor:** 1.27
QC_Batch: 040325-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.06	1.39	0.73	1.82	2.40	
75-71-8	Dichlorodifluoromethane	0.64	1.06	ND	3.14	5.24	ND	
67-56-1	Methanol	2.12	2.54	3.43	2.77	3.33	4.49	
74-87-3	Chloromethane	0.64	1.06	ND	1.31	2.19	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.06	ND	2.96	7.41	ND	
75-01-4	Vinyl chloride	0.21	1.06	ND	0.55	2.71	ND	
106-99-0	1,3-Butadiene	0.21	1.06	ND	0.47	2.34	ND	
74-83-9	Bromomethane	0.42	1.06	ND	1.65	4.11	ND	
75-00-3	Chloroethane	0.42	1.06	ND	1.12	2.80	ND	
64-17-5	Ethanol	2.12	13.59	ND	4.00	25.66	ND	
107-02-8	Acrolein	0.42	1.27	2.01	0.97	2.92	4.61	
75-69-4	Trichlorofluoromethane	0.42	1.06	ND	2.38	5.96	ND	
67-64-1	Acetone	2.12	2.54	24.53	5.04	6.04	58.37	
67-63-0	2-propanol (isopropylalcohol)	0.85	5.29	ND	2.08	13.02	ND	
75-65-0	t-Butyl alcohol	0.42	4.23	ND	1.28	12.85	ND	
4227-95-6	Methyl iodide	0.42	1.27	ND	2.48	7.43	ND	
75-35-4	1,1-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
107-13-1	Acrylonitrile	0.85	1.27	ND	1.84	2.76	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.06	ND	1.62	8.12	ND	
107-05-1	Allyl chloride	0.21	4.23	ND	0.66	13.26	ND	
75-09-2	Methylene chloride	0.21	1.06	ND	0.74	3.68	ND	
75-15-0	Carbon disulfide	0.42	1.06	ND	1.32	3.30	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.85	ND	0.84	3.36	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.85	ND	1.53	3.05	ND	
107-12-0	Propionitrile	1.06	1.69	ND	2.39	3.82	ND	
75-34-3	1,1-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.06	ND	1.77	4.43	ND	
108-05-4	Vinyl acetate	0.21	4.23	ND	0.75	14.93	ND	
78-93-3	2-Butanone (MEK)	0.42	1.27	2.93	1.25	3.75	8.66	
108-20-3	Diisopropyl ether	0.42	2.54	ND	1.77	10.63	ND	
110-54-3	Hexane	0.42	1.06	ND	1.49	3.74	ND	
126-98-7	Methacrylonitrile	0.42	1.06	ND	1.16	2.91	ND	
141-78-6	Ethyl acetate	0.42	1.06	ND	1.53	3.82	ND	
74-97-5	Bromochloromethane	0.21	1.06	ND	1.12	5.61	ND	
96-33-3	Methyl acrylate	0.42	2.12	ND	1.49	7.46	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.27	ND	0.63	3.75	ND	
78-83-1	Isobutyl alcohol	0.85	3.39	ND	2.57	10.28	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
594-20-7	2,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
67-66-3	Chloroform	0.21	1.06	ND	1.04	5.18	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
107-06-2	1,2-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
563-58-6	1,1-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
110-82-7	Cyclohexane	0.21	1.06	ND	0.73	3.65	ND	
71-43-2	Benzene	1.48	2.12	3.18	4.74	6.77	10.18	
56-23-5	Carbon tetrachloride	0.21	1.06	ND	1.33	6.67	ND	
994-05-8	t-Amyl methyl ether	0.42	2.12	ND	1.77	8.86	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.06	ND	0.99	4.95	ND	
142-82-5	n-Heptane	0.42	1.06	ND	1.74	4.34	ND	
78-87-5	1,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
123-91-1	1,4 Dioxane	0.42	2.12	ND	1.53	7.64	ND	
74-95-3	Dibromomethane	0.21	1.06	ND	1.51	7.53	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.06	ND	0.57	5.70	ND	
75-27-4	Bromodichloromethane	0.21	1.06	ND	1.42	7.10	ND	
80-62-6	Methyl methacrylate	0.42	1.06	ND	1.74	4.34	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.39	ND	1.74	13.90	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
108-88-3	Toluene	0.85	1.06	ND	3.19	3.99	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
97-63-2	Ethyl methacrylate	0.42	1.06	ND	1.98	4.95	ND	
591-78-6	2-Hexanone	0.42	3.39	ND	1.74	13.90	ND	
142-28-9	1,3-Dichloropropane	0.21	2.96	ND	0.98	13.71	ND	
111-65-9	Octane	0.42	1.06	ND	1.98	4.95	ND	
124-48-1	Dibromochloromethane	0.42	1.06	ND	3.61	9.03	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.06	ND	3.26	8.14	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.06	0.28	0.72	7.19	1.92	J
108-90-7	Chlorobenzene	0.42	1.06	ND	1.95	4.88	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.06	ND	2.91	7.27	ND	
100-41-4	Ethylbenzene	0.42	1.06	ND	1.84	4.60	ND	
1330-20-7	m,p-Xylenes	0.42	1.06	ND	1.84	4.60	ND	
111-84-2	Nonane	0.42	1.06	ND	2.22	5.56	ND	
100-42-5	Styrene	0.64	1.06	ND	2.71	4.52	ND	
75-25-2	Bromoform	0.42	1.06	ND	4.38	10.95	ND	
95-47-6	o-Xylene	0.42	1.06	ND	1.84	4.60	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.85	2.12	ND	5.82	14.55	ND	
96-18-4	1,2,3-Trichloropropane	0.85	2.54	ND	5.11	15.33	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.85	2.54	ND	4.33	13.00	ND	
103-65-1	n-Propylbenzene	0.85	2.96	ND	4.17	14.59	ND	
98-82-8	Isopropylbenzene	0.85	2.96	ND	4.17	14.59	ND	
622-96-8	4-Ethyltoluene	0.85	6.77	ND	4.17	33.34	ND	
108-67-8	1,3,5-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
124-18-5	Decane	0.85	2.54	ND	4.93	14.80	ND	
98-06-6	tert-butyl benzene	0.85	2.54	ND	4.65	13.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
538-93-2	i-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
135-98-8	sec-butylbenzene	0.85	2.96	ND	4.65	16.29	ND	
541-73-1	1,3-Dichlorobenzene	0.85	3.39	ND	5.10	20.39	ND	
99-87-6	Isopropyltoluene	0.85	2.54	ND	4.65	13.96	ND	
100-44-7	Benzyl chloride	0.85	2.12	ND	4.39	10.97	ND	
106-46-7	1,4-Dichlorobenzene	0.85	2.12	ND	5.10	12.74	ND	
104-51-8	n-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
95-50-1	1,2-Dichlorobenzene	0.85	2.96	ND	5.10	17.84	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.27	2.96	ND	12.29	28.68	ND	
120-82-1	1,2,4-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
91-20-3	Naphthalene	2.12	0.42	ND	11.11	2.22	ND	
87-61-6	1,2,3-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
87-68-3	Hexachlorobutadiene	1.06	1.27	ND	11.30	13.56	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	103	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 36**

File Name:	2510036A.D	**Date Sampled:**	03/20/25	**Time:**	12:42
Description:	T-218	**Date Analyzed:**	04/02/25	**Time:**	15:31
Canister:	698	**Can Dilution Factor:**	1.27		
QC_Batch:	040225-MA1	**Air Volume:**	300 ml		

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.06	ND	0.73	1.82	ND	
75-71-8	Dichlorodifluoromethane	0.64	1.06	ND	3.14	5.24	ND	
67-56-1	Methanol	2.12	2.54	16.36	2.77	3.33	21.44	
74-87-3	Chloromethane	0.64	1.06	ND	1.31	2.19	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.06	ND	2.96	7.41	ND	
75-01-4	Vinyl chloride	0.21	1.06	ND	0.55	2.71	ND	
106-99-0	1,3-Butadiene	0.21	1.06	ND	0.47	2.34	ND	
74-83-9	Bromomethane	0.42	1.06	ND	1.65	4.11	ND	
75-00-3	Chloroethane	0.42	1.06	ND	1.12	2.80	ND	
64-17-5	Ethanol	2.12	13.59	55.85	4.00	25.66	105.46	
107-02-8	Acrolein	0.42	1.27	1.68	0.97	2.92	3.85	
75-69-4	Trichlorofluoromethane	0.42	1.06	ND	2.38	5.96	ND	
67-64-1	Acetone	2.12	2.54	13.56	5.04	6.04	32.28	
67-63-0	2-propanol (isopropylalcohol)	0.85	5.29	ND	2.08	13.02	ND	
75-65-0	t-Butyl alcohol	0.42	4.23	ND	1.28	12.85	ND	
4227-95-6	Methyl iodide	0.42	1.27	ND	2.48	7.43	ND	
75-35-4	1,1-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
107-13-1	Acrylonitrile	0.85	1.27	ND	1.84	2.76	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.06	ND	1.62	8.12	ND	
107-05-1	Allyl chloride	0.21	4.23	ND	0.66	13.26	ND	
75-09-2	Methylene chloride	0.21	1.06	ND	0.74	3.68	ND	
75-15-0	Carbon disulfide	0.42	1.06	ND	1.32	3.30	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.85	ND	0.84	3.36	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.85	ND	1.53	3.05	ND	
107-12-0	Propionitrile	1.06	1.69	ND	2.39	3.82	ND	
75-34-3	1,1-Dichloroethane	0.21	1.06	0.27	0.86	4.29	1.10	J
637-92-3	Ethyl tert butyl ether	0.42	1.06	ND	1.77	4.43	ND	
108-05-4	Vinyl acetate	0.21	4.23	ND	0.75	14.93	ND	
78-93-3	2-Butanone (MEK)	0.42	1.27	1.78	1.25	3.75	5.25	
108-20-3	Diisopropyl ether	0.42	2.54	ND	1.77	10.63	ND	
110-54-3	Hexane	0.42	1.06	3.81	1.49	3.74	13.46	
126-98-7	Methacrylonitrile	0.42	1.06	ND	1.16	2.91	ND	
141-78-6	Ethyl acetate	0.42	1.06	ND	1.53	3.82	ND	
74-97-5	Bromochloromethane	0.21	1.06	ND	1.12	5.61	ND	
96-33-3	Methyl acrylate	0.42	2.12	ND	1.49	7.46	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.27	ND	0.63	3.75	ND	
78-83-1	Isobutyl alcohol	0.85	3.39	ND	2.57	10.28	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
594-20-7	2,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
67-66-3	Chloroform	0.21	1.06	1.29	1.04	5.18	6.31	
71-55-6	1,1,1-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
107-06-2	1,2-Dichloroethane	0.21	1.06	0.36	0.86	4.29	1.47	J
563-58-6	1,1-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
110-82-7	Cyclohexane	0.21	1.06	9.03	0.73	3.65	31.14	
71-43-2	Benzene	1.48	2.12	5.31	4.74	6.77	16.98	
56-23-5	Carbon tetrachloride	0.21	1.06	ND	1.33	6.67	ND	
994-05-8	t-Amyl methyl ether	0.42	2.12	ND	1.77	8.86	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.06	10.40	0.99	4.95	48.66	
142-82-5	n-Heptane	0.42	1.06	ND	1.74	4.34	ND	
78-87-5	1,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
123-91-1	1,4 Dioxane	0.42	2.12	ND	1.53	7.64	ND	
74-95-3	Dibromomethane	0.21	1.06	ND	1.51	7.53	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.06	1.88	0.57	5.70	10.11	
75-27-4	Bromodichloromethane	0.21	1.06	ND	1.42	7.10	ND	
80-62-6	Methyl methacrylate	0.42	1.06	ND	1.74	4.34	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.39	ND	1.74	13.90	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
108-88-3	Toluene	0.85	1.06	ND	3.19	3.99	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
97-63-2	Ethyl methacrylate	0.42	1.06	ND	1.98	4.95	ND	
591-78-6	2-Hexanone	0.42	3.39	ND	1.74	13.90	ND	
142-28-9	1,3-Dichloropropane	0.21	2.96	ND	0.98	13.71	ND	
111-65-9	Octane	0.42	1.06	ND	1.98	4.95	ND	
124-48-1	Dibromochloromethane	0.42	1.06	ND	3.61	9.03	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.06	ND	3.26	8.14	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.06	1.76	0.72	7.19	11.95	
108-90-7	Chlorobenzene	0.42	1.06	ND	1.95	4.88	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.06	ND	2.91	7.27	ND	
100-41-4	Ethylbenzene	0.42	1.06	ND	1.84	4.60	ND	
1330-20-7	m,p-Xylenes	0.42	1.06	ND	1.84	4.60	ND	
111-84-2	Nonane	0.42	1.06	ND	2.22	5.56	ND	
100-42-5	Styrene	0.64	1.06	ND	2.71	4.52	ND	
75-25-2	Bromoform	0.42	1.06	ND	4.38	10.95	ND	
95-47-6	o-Xylene	0.42	1.06	ND	1.84	4.60	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.85	2.12	ND	5.82	14.55	ND	
96-18-4	1,2,3-Trichloropropane	0.85	2.54	ND	5.11	15.33	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.85	2.54	ND	4.33	13.00	ND	
103-65-1	n-Propylbenzene	0.85	2.96	ND	4.17	14.59	ND	
98-82-8	Isopropylbenzene	0.85	2.96	ND	4.17	14.59	ND	
622-96-8	4-Ethyltoluene	0.85	6.77	ND	4.17	33.34	ND	
108-67-8	1,3,5-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
124-18-5	Decane	0.85	2.54	ND	4.93	14.80	ND	
98-06-6	tert-butyl benzene	0.85	2.54	ND	4.65	13.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
538-93-2	i-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
135-98-8	sec-butylbenzene	0.85	2.96	ND	4.65	16.29	ND	
541-73-1	1,3-Dichlorobenzene	0.85	3.39	ND	5.10	20.39	ND	
99-87-6	Isopropyltoluene	0.85	2.54	ND	4.65	13.96	ND	
100-44-7	Benzyl chloride	0.85	2.12	ND	4.39	10.97	ND	
106-46-7	1,4-Dichlorobenzene	0.85	2.12	ND	5.10	12.74	ND	
104-51-8	n-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
95-50-1	1,2-Dichlorobenzene	0.85	2.96	ND	5.10	17.84	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.27	2.96	ND	12.29	28.68	ND	
120-82-1	1,2,4-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
91-20-3	Naphthalene	2.12	0.42	ND	11.11	2.22	ND	
87-61-6	1,2,3-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
87-68-3	Hexachlorobutadiene	1.06	1.27	ND	11.30	13.56	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	127	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 37

File Name: 2510037A.D
Description: T-301
Canister: 638
QC_Batch: 040225-MA1

Date Sampled: 03/21/25 **Time:** 07:58
Date Analyzed: 04/02/25 **Time:** 16:09
Can Dilution Factor: 1.19
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	0.99	0.58	0.68	1.71	1.00	J
75-71-8	Dichlorodifluoromethane	0.60	0.99	ND	2.95	4.91	ND	
67-56-1	Methanol	1.98	2.38	2.57	2.60	3.12	3.37	
74-87-3	Chloromethane	0.60	0.99	ND	1.23	2.05	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	0.99	ND	2.78	6.94	ND	
75-01-4	Vinyl chloride	0.20	0.99	ND	0.51	2.54	ND	
106-99-0	1,3-Butadiene	0.20	0.99	ND	0.44	2.20	ND	
74-83-9	Bromomethane	0.40	0.99	ND	1.54	3.85	ND	
75-00-3	Chloroethane	0.40	0.99	ND	1.05	2.62	ND	
64-17-5	Ethanol	1.98	12.73	ND	3.74	24.04	ND	
107-02-8	Acrolein	0.40	1.19	0.79	0.91	2.73	1.81	J
75-69-4	Trichlorofluoromethane	0.40	0.99	ND	2.23	5.58	ND	
67-64-1	Acetone	1.98	2.38	2.99	4.72	5.66	7.12	
67-63-0	2-propanol (isopropylalcohol)	0.79	4.96	ND	1.95	12.20	ND	
75-65-0	t-Butyl alcohol	0.40	3.97	ND	1.20	12.04	ND	
4227-95-6	Methyl iodide	0.40	1.19	ND	2.32	6.96	ND	
75-35-4	1,1-Dichloroethene	0.20	0.99	ND	0.79	3.94	ND	
107-13-1	Acrylonitrile	0.79	1.19	ND	1.73	2.59	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	0.99	ND	1.52	7.61	ND	
107-05-1	Allyl chloride	0.20	3.97	ND	0.62	12.43	ND	
75-09-2	Methylene chloride	0.20	0.99	ND	0.69	3.45	ND	
75-15-0	Carbon disulfide	0.40	0.99	ND	1.24	3.09	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.79	ND	0.79	3.15	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.79	ND	1.43	2.86	ND	
107-12-0	Propionitrile	0.99	1.59	ND	2.24	3.58	ND	
75-34-3	1,1-Dichloroethane	0.20	0.99	ND	0.80	4.02	ND	
637-92-3	Ethyl tert butyl ether	0.40	0.99	ND	1.66	4.15	ND	
108-05-4	Vinyl acetate	0.20	3.97	ND	0.70	13.99	ND	
78-93-3	2-Butanone (MEK)	0.40	1.19	ND	1.17	3.51	ND	
108-20-3	Diisopropyl ether	0.40	2.38	ND	1.66	9.96	ND	
110-54-3	Hexane	0.40	0.99	ND	1.40	3.50	ND	
126-98-7	Methacrylonitrile	0.40	0.99	ND	1.09	2.73	ND	
141-78-6	Ethyl acetate	0.40	0.99	ND	1.43	3.58	ND	
74-97-5	Bromochloromethane	0.20	0.99	ND	1.05	5.26	ND	
96-33-3	Methyl acrylate	0.40	1.98	ND	1.40	6.99	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.19	ND	0.59	3.51	ND	
78-83-1	Isobutyl alcohol	0.79	3.17	ND	2.41	9.63	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	0.99	ND	0.79	3.94	ND	
594-20-7	2,2-Dichloropropane	0.20	0.99	ND	0.92	4.59	ND	
67-66-3	Chloroform	0.20	0.99	ND	0.97	4.85	ND	
71-55-6	1,1,1-Trichloroethane	0.20	0.99	ND	1.08	5.42	ND	
107-06-2	1,2-Dichloroethane	0.20	0.99	ND	0.80	4.02	ND	
563-58-6	1,1-Dichloropropene	0.20	0.99	ND	0.90	4.51	ND	
110-82-7	Cyclohexane	0.20	0.99	ND	0.68	3.42	ND	
71-43-2	Benzene	1.39	1.98	1.95	4.44	6.34	6.25	J
56-23-5	Carbon tetrachloride	0.20	0.99	ND	1.25	6.25	ND	
994-05-8	t-Amyl methyl ether	0.40	1.98	ND	1.66	8.30	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	0.99	ND	0.93	4.64	ND	
142-82-5	n-Heptane	0.40	0.99	ND	1.63	4.07	ND	
78-87-5	1,2-Dichloropropane	0.20	0.99	ND	0.92	4.59	ND	
123-91-1	1,4 Dioxane	0.40	1.98	ND	1.43	7.16	ND	
74-95-3	Dibromomethane	0.20	0.99	ND	1.41	7.06	ND	
79-01-6	Trichloroethene (TCE)	0.10	0.99	ND	0.53	5.34	ND	
75-27-4	Bromodichloromethane	0.20	0.99	ND	1.33	6.65	ND	
80-62-6	Methyl methacrylate	0.40	0.99	ND	1.63	4.07	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.17	ND	1.63	13.02	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	0.99	ND	0.90	4.51	ND	
108-88-3	Toluene	0.79	0.99	ND	2.99	3.74	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	0.99	ND	0.90	4.51	ND	
79-00-5	1,1,2-Trichloroethane	0.20	0.99	ND	1.08	5.42	ND	
97-63-2	Ethyl methacrylate	0.40	0.99	ND	1.86	4.64	ND	
591-78-6	2-Hexanone	0.40	3.17	ND	1.63	13.02	ND	
142-28-9	1,3-Dichloropropane	0.20	2.78	ND	0.92	12.85	ND	
111-65-9	Octane	0.40	0.99	ND	1.86	4.64	ND	
124-48-1	Dibromochloromethane	0.40	0.99	ND	3.38	8.46	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	0.99	ND	3.05	7.63	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	0.99	ND	0.67	6.73	ND	
108-90-7	Chlorobenzene	0.40	0.99	ND	1.83	4.57	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	0.99	ND	2.73	6.81	ND	
100-41-4	Ethylbenzene	0.40	0.99	ND	1.73	4.31	ND	
1330-20-7	m,p-Xylenes	0.40	0.99	ND	1.73	4.31	ND	
111-84-2	Nonane	0.40	0.99	ND	2.08	5.21	ND	
100-42-5	Styrene	0.60	0.99	ND	2.54	4.23	ND	
75-25-2	Bromoform	0.40	0.99	ND	4.11	10.26	ND	
95-47-6	o-Xylene	0.40	0.99	ND	1.73	4.31	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.79	1.98	ND	5.45	13.63	ND	
96-18-4	1,2,3-Trichloropropane	0.79	2.38	ND	4.79	14.37	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.79	2.38	ND	4.06	12.18	ND	
103-65-1	n-Propylbenzene	0.79	2.78	ND	3.91	13.67	ND	
98-82-8	Isopropylbenzene	0.79	2.78	ND	3.91	13.67	ND	
622-96-8	4-Ethyltoluene	0.79	6.35	ND	3.91	31.24	ND	
108-67-8	1,3,5-Trimethylbenzene	0.79	3.57	ND	3.91	17.57	ND	
124-18-5	Decane	0.79	2.38	ND	4.62	13.87	ND	
98-06-6	tert-butyl benzene	0.79	2.38	ND	4.36	13.08	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.79	3.57	ND	3.91	17.57	ND	
538-93-2	i-Butylbenzene	0.79	2.38	ND	4.36	13.08	ND	
135-98-8	sec-butylbenzene	0.79	2.78	ND	4.36	15.26	ND	
541-73-1	1,3-Dichlorobenzene	0.79	3.17	ND	4.78	19.10	ND	
99-87-6	Isopropyltoluene	0.79	2.38	ND	4.36	13.08	ND	
100-44-7	Benzyl chloride	0.79	1.98	ND	4.11	10.28	ND	
106-46-7	1,4-Dichlorobenzene	0.79	1.98	ND	4.78	11.94	ND	
104-51-8	n-Butylbenzene	0.79	2.38	ND	4.36	13.08	ND	
95-50-1	1,2-Dichlorobenzene	0.79	2.78	ND	4.78	16.72	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.19	2.78	ND	11.52	26.87	ND	
120-82-1	1,2,4-Trichlorobenzene	1.19	1.98	ND	8.84	14.73	ND	
91-20-3	Naphthalene	1.98	0.40	ND	10.41	2.08	ND	
87-61-6	1,2,3-Trichlorobenzene	1.19	1.98	ND	8.84	14.73	ND	
87-68-3	Hexachlorobutadiene	0.99	1.19	ND	10.59	12.71	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	104	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 38

File Name: 2510038A.D
Description: T-302
Canister: 857
QC_Batch: 040225-MA1

Date Sampled: 03/21/25 **Time:** 08:04
Date Analyzed: 04/02/25 **Time:** 17:01
Can Dilution Factor: 1.19
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	0.99	0.56	0.68	1.71	0.97	J
75-71-8	Dichlorodifluoromethane	0.60	0.99	ND	2.95	4.91	ND	
67-56-1	Methanol	1.98	2.38	2.53	2.60	3.12	3.31	
74-87-3	Chloromethane	0.60	0.99	ND	1.23	2.05	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	0.99	ND	2.78	6.94	ND	
75-01-4	Vinyl chloride	0.20	0.99	ND	0.51	2.54	ND	
106-99-0	1,3-Butadiene	0.20	0.99	ND	0.44	2.20	ND	
74-83-9	Bromomethane	0.40	0.99	ND	1.54	3.85	ND	
75-00-3	Chloroethane	0.40	0.99	ND	1.05	2.62	ND	
64-17-5	Ethanol	1.98	12.73	ND	3.74	24.04	ND	
107-02-8	Acrolein	0.40	1.19	0.64	0.91	2.73	1.48	J
75-69-4	Trichlorofluoromethane	0.40	0.99	ND	2.23	5.58	ND	
67-64-1	Acetone	1.98	2.38	5.36	4.72	5.66	12.75	
67-63-0	2-propanol (isopropylalcohol)	0.79	4.96	ND	1.95	12.20	ND	
75-65-0	t-Butyl alcohol	0.40	3.97	ND	1.20	12.04	ND	
4227-95-6	Methyl iodide	0.40	1.19	ND	2.32	6.96	ND	
75-35-4	1,1-Dichloroethene	0.20	0.99	ND	0.79	3.94	ND	
107-13-1	Acrylonitrile	0.79	1.19	ND	1.73	2.59	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	0.99	ND	1.52	7.61	ND	
107-05-1	Allyl chloride	0.20	3.97	ND	0.62	12.43	ND	
75-09-2	Methylene chloride	0.20	0.99	ND	0.69	3.45	ND	
75-15-0	Carbon disulfide	0.40	0.99	ND	1.24	3.09	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.79	ND	0.79	3.15	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.79	ND	1.43	2.86	ND	
107-12-0	Propionitrile	0.99	1.59	ND	2.24	3.58	ND	
75-34-3	1,1-Dichloroethane	0.20	0.99	ND	0.80	4.02	ND	
637-92-3	Ethyl tert butyl ether	0.40	0.99	ND	1.66	4.15	ND	
108-05-4	Vinyl acetate	0.20	3.97	ND	0.70	13.99	ND	
78-93-3	2-Butanone (MEK)	0.40	1.19	ND	1.17	3.51	ND	
108-20-3	Diisopropyl ether	0.40	2.38	ND	1.66	9.96	ND	
110-54-3	Hexane	0.40	0.99	ND	1.40	3.50	ND	
126-98-7	Methacrylonitrile	0.40	0.99	ND	1.09	2.73	ND	
141-78-6	Ethyl acetate	0.40	0.99	ND	1.43	3.58	ND	
74-97-5	Bromochloromethane	0.20	0.99	ND	1.05	5.26	ND	
96-33-3	Methyl acrylate	0.40	1.98	ND	1.40	6.99	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.19	ND	0.59	3.51	ND	
78-83-1	Isobutyl alcohol	0.79	3.17	ND	2.41	9.63	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	0.99	ND	0.79	3.94	ND	
594-20-7	2,2-Dichloropropane	0.20	0.99	ND	0.92	4.59	ND	
67-66-3	Chloroform	0.20	0.99	ND	0.97	4.85	ND	
71-55-6	1,1,1-Trichloroethane	0.20	0.99	ND	1.08	5.42	ND	
107-06-2	1,2-Dichloroethane	0.20	0.99	ND	0.80	4.02	ND	
563-58-6	1,1-Dichloropropene	0.20	0.99	ND	0.90	4.51	ND	
110-82-7	Cyclohexane	0.20	0.99	ND	0.68	3.42	ND	
71-43-2	Benzene	1.39	1.98	1.86	4.44	6.34	5.95	J
56-23-5	Carbon tetrachloride	0.20	0.99	ND	1.25	6.25	ND	
994-05-8	t-Amyl methyl ether	0.40	1.98	ND	1.66	8.30	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	0.99	ND	0.93	4.64	ND	
142-82-5	n-Heptane	0.40	0.99	ND	1.63	4.07	ND	
78-87-5	1,2-Dichloropropane	0.20	0.99	ND	0.92	4.59	ND	
123-91-1	1,4 Dioxane	0.40	1.98	ND	1.43	7.16	ND	
74-95-3	Dibromomethane	0.20	0.99	ND	1.41	7.06	ND	
79-01-6	Trichloroethene (TCE)	0.10	0.99	ND	0.53	5.34	ND	
75-27-4	Bromodichloromethane	0.20	0.99	ND	1.33	6.65	ND	
80-62-6	Methyl methacrylate	0.40	0.99	ND	1.63	4.07	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.17	ND	1.63	13.02	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	0.99	ND	0.90	4.51	ND	
108-88-3	Toluene	0.79	0.99	ND	2.99	3.74	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	0.99	ND	0.90	4.51	ND	
79-00-5	1,1,2-Trichloroethane	0.20	0.99	ND	1.08	5.42	ND	
97-63-2	Ethyl methacrylate	0.40	0.99	ND	1.86	4.64	ND	
591-78-6	2-Hexanone	0.40	3.17	ND	1.63	13.02	ND	
142-28-9	1,3-Dichloropropane	0.20	2.78	ND	0.92	12.85	ND	
111-65-9	Octane	0.40	0.99	ND	1.86	4.64	ND	
124-48-1	Dibromochloromethane	0.40	0.99	ND	3.38	8.46	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	0.99	ND	3.05	7.63	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	0.99	ND	0.67	6.73	ND	
108-90-7	Chlorobenzene	0.40	0.99	ND	1.83	4.57	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	0.99	ND	2.73	6.81	ND	
100-41-4	Ethylbenzene	0.40	0.99	ND	1.73	4.31	ND	
1330-20-7	m,p-Xylenes	0.40	0.99	ND	1.73	4.31	ND	
111-84-2	Nonane	0.40	0.99	ND	2.08	5.21	ND	
100-42-5	Styrene	0.60	0.99	ND	2.54	4.23	ND	
75-25-2	Bromoform	0.40	0.99	ND	4.11	10.26	ND	
95-47-6	o-Xylene	0.40	0.99	ND	1.73	4.31	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.79	1.98	ND	5.45	13.63	ND	
96-18-4	1,2,3-Trichloropropane	0.79	2.38	ND	4.79	14.37	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.79	2.38	ND	4.06	12.18	ND	
103-65-1	n-Propylbenzene	0.79	2.78	ND	3.91	13.67	ND	
98-82-8	Isopropylbenzene	0.79	2.78	ND	3.91	13.67	ND	
622-96-8	4-Ethyltoluene	0.79	6.35	ND	3.91	31.24	ND	
108-67-8	1,3,5-Trimethylbenzene	0.79	3.57	ND	3.91	17.57	ND	
124-18-5	Decane	0.79	2.38	ND	4.62	13.87	ND	
98-06-6	tert-butyl benzene	0.79	2.38	ND	4.36	13.08	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.79	3.57	ND	3.91	17.57	ND	
538-93-2	i-Butylbenzene	0.79	2.38	ND	4.36	13.08	ND	
135-98-8	sec-butylbenzene	0.79	2.78	ND	4.36	15.26	ND	
541-73-1	1,3-Dichlorobenzene	0.79	3.17	ND	4.78	19.10	ND	
99-87-6	Isopropyltoluene	0.79	2.38	ND	4.36	13.08	ND	
100-44-7	Benzyl chloride	0.79	1.98	ND	4.11	10.28	ND	
106-46-7	1,4-Dichlorobenzene	0.79	1.98	ND	4.78	11.94	ND	
104-51-8	n-Butylbenzene	0.79	2.38	ND	4.36	13.08	ND	
95-50-1	1,2-Dichlorobenzene	0.79	2.78	ND	4.78	16.72	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.19	2.78	ND	11.52	26.87	ND	
120-82-1	1,2,4-Trichlorobenzene	1.19	1.98	ND	8.84	14.73	ND	
91-20-3	Naphthalene	1.98	0.40	ND	10.41	2.08	ND	
87-61-6	1,2,3-Trichlorobenzene	1.19	1.98	ND	8.84	14.73	ND	
87-68-3	Hexachlorobutadiene	0.99	1.19	ND	10.59	12.71	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	98	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 39**

File Name: 2510039A.D **Date Sampled:** 03/21/25 **Time:** 08:05
Description: T-303 **Date Analyzed:** 04/02/25 **Time:** 17:40
Canister: 552 **Can Dilution Factor:** 1.21
QC_Batch: 040225-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	1.01	0.63	0.70	1.74	1.08	J
75-71-8	Dichlorodifluoromethane	0.61	1.01	ND	3.00	4.99	ND	
67-56-1	Methanol	2.02	2.42	2.16	2.64	3.17	2.84	J
74-87-3	Chloromethane	0.61	1.01	ND	1.25	2.09	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	1.01	ND	2.82	7.06	ND	
75-01-4	Vinyl chloride	0.20	1.01	ND	0.52	2.58	ND	
106-99-0	1,3-Butadiene	0.20	1.01	ND	0.45	2.23	ND	
74-83-9	Bromomethane	0.40	1.01	ND	1.57	3.92	ND	
75-00-3	Chloroethane	0.40	1.01	ND	1.07	2.66	ND	
64-17-5	Ethanol	2.02	12.95	2.52	3.81	24.44	4.76	J
107-02-8	Acrolein	0.40	1.21	ND	0.93	2.78	ND	
75-69-4	Trichlorofluoromethane	0.40	1.01	ND	2.27	5.67	ND	
67-64-1	Acetone	2.02	2.42	14.07	4.80	5.76	33.47	
67-63-0	2-propanol (isopropylalcohol)	0.81	5.04	ND	1.99	12.41	ND	
75-65-0	t-Butyl alcohol	0.40	4.03	ND	1.22	12.24	ND	
4227-95-6	Methyl iodide	0.40	1.21	ND	2.36	7.08	ND	
75-35-4	1,1-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
107-13-1	Acrylonitrile	0.81	1.21	ND	1.75	2.63	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.01	ND	1.55	7.74	ND	
107-05-1	Allyl chloride	0.20	4.03	ND	0.63	12.64	ND	
75-09-2	Methylene chloride	0.20	1.01	ND	0.70	3.51	ND	
75-15-0	Carbon disulfide	0.40	1.01	ND	1.26	3.14	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.81	ND	0.80	3.20	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.81	ND	1.46	2.91	ND	
107-12-0	Propionitrile	1.01	1.61	ND	2.28	3.64	ND	
75-34-3	1,1-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
637-92-3	Ethyl tert butyl ether	0.40	1.01	ND	1.69	4.22	ND	
108-05-4	Vinyl acetate	0.20	4.03	ND	0.71	14.22	ND	
78-93-3	2-Butanone (MEK)	0.40	1.21	ND	1.19	3.57	ND	
108-20-3	Diisopropyl ether	0.40	2.42	ND	1.69	10.13	ND	
110-54-3	Hexane	0.40	1.01	ND	1.42	3.56	ND	
126-98-7	Methacrylonitrile	0.40	1.01	ND	1.11	2.77	ND	
141-78-6	Ethyl acetate	0.40	1.01	ND	1.46	3.64	ND	
74-97-5	Bromochloromethane	0.20	1.01	ND	1.07	5.34	ND	
96-33-3	Methyl acrylate	0.40	2.02	ND	1.42	7.11	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.21	ND	0.60	3.57	ND	
78-83-1	Isobutyl alcohol	0.81	3.23	ND	2.45	9.79	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
594-20-7	2,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
67-66-3	Chloroform	0.20	1.01	ND	0.99	4.93	ND	
71-55-6	1,1,1-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
107-06-2	1,2-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
563-58-6	1,1-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
110-82-7	Cyclohexane	0.20	1.01	ND	0.70	3.48	ND	
71-43-2	Benzene	1.41	2.02	1.78	4.52	6.45	5.68	J
56-23-5	Carbon tetrachloride	0.20	1.01	ND	1.27	6.35	ND	
994-05-8	t-Amyl methyl ether	0.40	2.02	ND	1.69	8.44	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.01	ND	0.94	4.72	ND	
142-82-5	n-Heptane	0.40	1.01	ND	1.66	4.14	ND	
78-87-5	1,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
123-91-1	1,4 Dioxane	0.40	2.02	ND	1.46	7.28	ND	
74-95-3	Dibromomethane	0.20	1.01	ND	1.44	7.18	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.01	ND	0.54	5.43	ND	
75-27-4	Bromodichloromethane	0.20	1.01	ND	1.35	6.76	ND	
80-62-6	Methyl methacrylate	0.40	1.01	ND	1.65	4.13	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.23	ND	1.66	13.24	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
108-88-3	Toluene	0.81	1.01	ND	3.04	3.80	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
97-63-2	Ethyl methacrylate	0.40	1.01	ND	1.89	4.72	ND	
591-78-6	2-Hexanone	0.40	3.23	ND	1.66	13.24	ND	
142-28-9	1,3-Dichloropropane	0.20	2.82	ND	0.93	13.07	ND	
111-65-9	Octane	0.40	1.01	ND	1.89	4.72	ND	
124-48-1	Dibromochloromethane	0.40	1.01	ND	3.44	8.60	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	1.01	ND	3.10	7.76	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.01	ND	0.68	6.85	ND	
108-90-7	Chlorobenzene	0.40	1.01	ND	1.86	4.65	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	1.01	ND	2.77	6.93	ND	
100-41-4	Ethylbenzene	0.40	1.01	ND	1.75	4.39	ND	
1330-20-7	m,p-Xylenes	0.40	1.01	ND	1.75	4.39	ND	
111-84-2	Nonane	0.40	1.01	ND	2.12	5.30	ND	
100-42-5	Styrene	0.61	1.01	ND	2.58	4.30	ND	
75-25-2	Bromoform	0.40	1.01	ND	4.17	10.44	ND	
95-47-6	o-Xylene	0.40	1.01	ND	1.75	4.39	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.81	2.02	ND	5.54	13.86	ND	
96-18-4	1,2,3-Trichloropropane	0.81	2.42	ND	4.87	14.61	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.81	2.42	ND	4.13	12.39	ND	
103-65-1	n-Propylbenzene	0.81	2.82	ND	3.97	13.90	ND	
98-82-8	Isopropylbenzene	0.81	2.82	ND	3.97	13.90	ND	
622-96-8	4-Ethyltoluene	0.81	6.45	ND	3.97	31.77	ND	
108-67-8	1,3,5-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
124-18-5	Decane	0.81	2.42	ND	4.70	14.10	ND	
98-06-6	tert-butyl benzene	0.81	2.42	ND	4.43	13.30	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
538-93-2	i-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
135-98-8	sec-butylbenzene	0.81	2.82	ND	4.43	15.52	ND	
541-73-1	1,3-Dichlorobenzene	0.81	3.23	ND	4.86	19.43	ND	
99-87-6	Isopropyltoluene	0.81	2.42	ND	4.43	13.30	ND	
100-44-7	Benzyl chloride	0.81	2.02	ND	4.18	10.46	ND	
106-46-7	1,4-Dichlorobenzene	0.81	2.02	ND	4.86	12.14	ND	
104-51-8	n-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
95-50-1	1,2-Dichlorobenzene	0.81	2.82	ND	4.86	17.00	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.21	2.82	ND	11.71	27.32	ND	
120-82-1	1,2,4-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
91-20-3	Naphthalene	2.02	0.40	ND	10.59	2.12	ND	
87-61-6	1,2,3-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
87-68-3	Hexachlorobutadiene	1.01	1.21	ND	10.77	12.92	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	99	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 40**

File Name: 2510040A.D **Date Sampled:** 03/21/25 **Time:** 07:58
Description: T-304 **Date Analyzed:** 04/03/25 **Time:** 20:18
Canister: 529 **Can Dilution Factor:** 1.21
QC_Batch: 040325-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	1.01	11.45	0.70	1.74	19.73	
75-71-8	Dichlorodifluoromethane	0.61	1.01	ND	3.00	4.99	ND	
67-56-1	Methanol	2.02	2.42	ND	2.64	3.17	ND	
74-87-3	Chloromethane	0.61	1.01	ND	1.25	2.09	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	1.01	ND	2.82	7.06	ND	
75-01-4	Vinyl chloride	0.20	1.01	ND	0.52	2.58	ND	
106-99-0	1,3-Butadiene	0.20	1.01	ND	0.45	2.23	ND	
74-83-9	Bromomethane	0.40	1.01	ND	1.57	3.92	ND	
75-00-3	Chloroethane	0.40	1.01	ND	1.07	2.66	ND	
64-17-5	Ethanol	2.02	12.95	ND	3.81	24.44	ND	
107-02-8	Acrolein	0.40	1.21	0.65	0.93	2.78	1.50	J
75-69-4	Trichlorofluoromethane	0.40	1.01	ND	2.27	5.67	ND	
67-64-1	Acetone	2.02	2.42	3.40	4.80	5.76	8.10	
67-63-0	2-propanol (isopropylalcohol)	0.81	5.04	ND	1.99	12.41	ND	
75-65-0	t-Butyl alcohol	0.40	4.03	ND	1.22	12.24	ND	
4227-95-6	Methyl iodide	0.40	1.21	ND	2.36	7.08	ND	
75-35-4	1,1-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
107-13-1	Acrylonitrile	0.81	1.21	ND	1.75	2.63	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.01	ND	1.55	7.74	ND	
107-05-1	Allyl chloride	0.20	4.03	ND	0.63	12.64	ND	
75-09-2	Methylene chloride	0.20	1.01	ND	0.70	3.51	ND	
75-15-0	Carbon disulfide	0.40	1.01	ND	1.26	3.14	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.81	ND	0.80	3.20	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.81	ND	1.46	2.91	ND	
107-12-0	Propionitrile	1.01	1.61	ND	2.28	3.64	ND	
75-34-3	1,1-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
637-92-3	Ethyl tert butyl ether	0.40	1.01	ND	1.69	4.22	ND	
108-05-4	Vinyl acetate	0.20	4.03	ND	0.71	14.22	ND	
78-93-3	2-Butanone (MEK)	0.40	1.21	ND	1.19	3.57	ND	
108-20-3	Diisopropyl ether	0.40	2.42	ND	1.69	10.13	ND	
110-54-3	Hexane	0.40	1.01	ND	1.42	3.56	ND	
126-98-7	Methacrylonitrile	0.40	1.01	ND	1.11	2.77	ND	
141-78-6	Ethyl acetate	0.40	1.01	ND	1.46	3.64	ND	
74-97-5	Bromochloromethane	0.20	1.01	ND	1.07	5.34	ND	
96-33-3	Methyl acrylate	0.40	2.02	ND	1.42	7.11	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.21	ND	0.60	3.57	ND	
78-83-1	Isobutyl alcohol	0.81	3.23	ND	2.45	9.79	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
594-20-7	2,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
67-66-3	Chloroform	0.20	1.01	ND	0.99	4.93	ND	
71-55-6	1,1,1-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
107-06-2	1,2-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
563-58-6	1,1-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
110-82-7	Cyclohexane	0.20	1.01	ND	0.70	3.48	ND	
71-43-2	Benzene	1.41	2.02	ND	4.52	6.45	ND	
56-23-5	Carbon tetrachloride	0.20	1.01	ND	1.27	6.35	ND	
994-05-8	t-Amyl methyl ether	0.40	2.02	ND	1.69	8.44	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.01	ND	0.94	4.72	ND	
142-82-5	n-Heptane	0.40	1.01	ND	1.66	4.14	ND	
78-87-5	1,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
123-91-1	1,4 Dioxane	0.40	2.02	ND	1.46	7.28	ND	
74-95-3	Dibromomethane	0.20	1.01	ND	1.44	7.18	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.01	ND	0.54	5.43	ND	
75-27-4	Bromodichloromethane	0.20	1.01	ND	1.35	6.76	ND	
80-62-6	Methyl methacrylate	0.40	1.01	ND	1.65	4.13	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.23	ND	1.66	13.24	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
108-88-3	Toluene	0.81	1.01	ND	3.04	3.80	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
97-63-2	Ethyl methacrylate	0.40	1.01	ND	1.89	4.72	ND	
591-78-6	2-Hexanone	0.40	3.23	ND	1.66	13.24	ND	
142-28-9	1,3-Dichloropropane	0.20	2.82	ND	0.93	13.07	ND	
111-65-9	Octane	0.40	1.01	ND	1.89	4.72	ND	
124-48-1	Dibromochloromethane	0.40	1.01	ND	3.44	8.60	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	1.01	ND	3.10	7.76	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.01	0.11	0.68	6.85	0.77	J
108-90-7	Chlorobenzene	0.40	1.01	ND	1.86	4.65	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	1.01	ND	2.77	6.93	ND	
100-41-4	Ethylbenzene	0.40	1.01	0.47	1.75	4.39	2.06	J
1330-20-7	m,p-Xylenes	0.40	1.01	ND	1.75	4.39	ND	
111-84-2	Nonane	0.40	1.01	ND	2.12	5.30	ND	
100-42-5	Styrene	0.61	1.01	ND	2.58	4.30	ND	
75-25-2	Bromoform	0.40	1.01	ND	4.17	10.44	ND	
95-47-6	o-Xylene	0.40	1.01	ND	1.75	4.39	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.81	2.02	ND	5.54	13.86	ND	
96-18-4	1,2,3-Trichloropropane	0.81	2.42	ND	4.87	14.61	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.81	2.42	ND	4.13	12.39	ND	
103-65-1	n-Propylbenzene	0.81	2.82	ND	3.97	13.90	ND	
98-82-8	Isopropylbenzene	0.81	2.82	ND	3.97	13.90	ND	
622-96-8	4-Ethyltoluene	0.81	6.45	ND	3.97	31.77	ND	
108-67-8	1,3,5-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
124-18-5	Decane	0.81	2.42	ND	4.70	14.10	ND	
98-06-6	tert-butyl benzene	0.81	2.42	ND	4.43	13.30	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
538-93-2	i-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
135-98-8	sec-butylbenzene	0.81	2.82	ND	4.43	15.52	ND	
541-73-1	1,3-Dichlorobenzene	0.81	3.23	ND	4.86	19.43	ND	
99-87-6	Isopropyltoluene	0.81	2.42	ND	4.43	13.30	ND	
100-44-7	Benzyl chloride	0.81	2.02	ND	4.18	10.46	ND	
106-46-7	1,4-Dichlorobenzene	0.81	2.02	ND	4.86	12.14	ND	
104-51-8	n-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
95-50-1	1,2-Dichlorobenzene	0.81	2.82	ND	4.86	17.00	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.21	2.82	ND	11.71	27.32	ND	
120-82-1	1,2,4-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
91-20-3	Naphthalene	2.02	0.40	ND	10.59	2.12	ND	
87-61-6	1,2,3-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
87-68-3	Hexachlorobutadiene	1.01	1.21	ND	10.77	12.92	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	101	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 41

File Name: 2510041A.D
Description: T-305
Canister: 660
QC_Batch: 040325-MA1

Date Sampled: 03/21/25 **Time:** 09:22
Date Analyzed: 04/03/25 **Time:** 21:09
Can Dilution Factor: 1.25
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.04	45.81	0.72	1.80	78.95	
75-71-8	Dichlorodifluoromethane	0.63	1.04	ND	3.09	5.16	ND	
67-56-1	Methanol	2.08	2.50	7.99	2.73	3.28	10.47	
74-87-3	Chloromethane	0.63	1.04	ND	1.29	2.15	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.04	ND	2.92	7.29	ND	
75-01-4	Vinyl chloride	0.21	1.04	ND	0.54	2.67	ND	
106-99-0	1,3-Butadiene	0.21	1.04	ND	0.46	2.31	ND	
74-83-9	Bromomethane	0.42	1.04	ND	1.62	4.05	ND	
75-00-3	Chloroethane	0.42	1.04	ND	1.10	2.75	ND	
64-17-5	Ethanol	2.08	13.38	3.19	3.93	25.25	6.02	J
107-02-8	Acrolein	0.42	1.25	2.03	0.96	2.87	4.66	
75-69-4	Trichlorofluoromethane	0.42	1.04	ND	2.34	5.86	ND	
67-64-1	Acetone	2.08	2.50	15.17	4.96	5.95	36.11	
67-63-0	2-propanol (isopropylalcohol)	0.83	5.21	ND	2.05	12.82	ND	
75-65-0	t-Butyl alcohol	0.42	4.17	ND	1.26	12.64	ND	
4227-95-6	Methyl iodide	0.42	1.25	ND	2.44	7.32	ND	
75-35-4	1,1-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
107-13-1	Acrylonitrile	0.83	1.25	ND	1.81	2.72	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.04	ND	1.60	7.99	ND	
107-05-1	Allyl chloride	0.21	4.17	ND	0.65	13.05	ND	
75-09-2	Methylene chloride	0.21	1.04	ND	0.72	3.62	ND	
75-15-0	Carbon disulfide	0.42	1.04	0.97	1.30	3.25	3.01	J
156-60-5	trans-1,2-Dichloroethene	0.21	0.83	ND	0.83	3.31	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.83	ND	1.50	3.01	ND	
107-12-0	Propionitrile	1.04	1.67	ND	2.35	3.76	ND	
75-34-3	1,1-Dichloroethane	0.21	1.04	ND	0.84	4.22	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.04	ND	1.74	4.36	ND	
108-05-4	Vinyl acetate	0.21	4.17	ND	0.73	14.69	ND	
78-93-3	2-Butanone (MEK)	0.42	1.25	10.38	1.23	3.69	30.65	
108-20-3	Diisopropyl ether	0.42	2.50	ND	1.74	10.46	ND	
110-54-3	Hexane	0.42	1.04	4.50	1.47	3.68	15.90	
126-98-7	Methacrylonitrile	0.42	1.04	ND	1.15	2.86	ND	
141-78-6	Ethyl acetate	0.42	1.04	ND	1.50	3.76	ND	
74-97-5	Bromochloromethane	0.21	1.04	ND	1.10	5.52	ND	
96-33-3	Methyl acrylate	0.42	2.08	ND	1.47	7.35	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.25	3.63	0.62	3.69	10.72	
78-83-1	Isobutyl alcohol	0.83	3.33	ND	2.53	10.12	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
594-20-7	2,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
67-66-3	Chloroform	0.21	1.04	ND	1.02	5.09	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
107-06-2	1,2-Dichloroethane	0.21	1.04	0.74	0.84	4.22	3.00	J
563-58-6	1,1-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
110-82-7	Cyclohexane	0.21	1.04	13.13	0.72	3.59	45.29	
71-43-2	Benzene	1.46	2.08	3.74	4.66	6.66	11.96	
56-23-5	Carbon tetrachloride	0.21	1.04	ND	1.31	6.56	ND	
994-05-8	t-Amyl methyl ether	0.42	2.08	ND	1.74	8.72	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.04	4.42	0.97	4.87	20.68	
142-82-5	n-Heptane	0.42	1.04	5.33	1.71	4.27	21.88	
78-87-5	1,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
123-91-1	1,4 Dioxane	0.42	2.08	ND	1.50	7.52	ND	
74-95-3	Dibromomethane	0.21	1.04	ND	1.48	7.42	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.04	0.28	0.56	5.61	1.49	J
75-27-4	Bromodichloromethane	0.21	1.04	ND	1.40	6.99	ND	
80-62-6	Methyl methacrylate	0.42	1.04	ND	1.71	4.27	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.33	0.75	1.71	13.68	3.09	J
10061-01-5	cis-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
108-88-3	Toluene	0.83	1.04	3.26	3.14	3.93	12.31	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
97-63-2	Ethyl methacrylate	0.42	1.04	ND	1.95	4.87	ND	
591-78-6	2-Hexanone	0.42	3.33	ND	1.71	13.68	ND	
142-28-9	1,3-Dichloropropane	0.21	2.92	ND	0.96	13.50	ND	
111-65-9	Octane	0.42	1.04	0.90	1.95	4.87	4.20	J
124-48-1	Dibromochloromethane	0.42	1.04	ND	3.55	8.89	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.04	ND	3.21	8.02	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.04	0.86	0.71	7.07	5.85	J
108-90-7	Chlorobenzene	0.42	1.04	ND	1.92	4.80	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.04	ND	2.86	7.16	ND	
100-41-4	Ethylbenzene	0.42	1.04	1.16	1.81	4.53	5.05	
1330-20-7	m,p-Xylenes	0.42	1.04	3.92	1.81	4.53	17.06	
111-84-2	Nonane	0.42	1.04	0.68	2.19	5.47	3.55	J
100-42-5	Styrene	0.63	1.04	ND	2.67	4.45	ND	
75-25-2	Bromoform	0.42	1.04	ND	4.31	10.78	ND	
95-47-6	o-Xylene	0.42	1.04	1.26	1.81	4.53	5.48	
79-34-5	1,1,2,2-Tetrachloroethane	0.83	2.08	ND	5.73	14.32	ND	
96-18-4	1,2,3-Trichloropropane	0.83	2.50	ND	5.03	15.09	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.83	2.50	ND	4.27	12.80	ND	
103-65-1	n-Propylbenzene	0.83	2.92	ND	4.10	14.36	ND	
98-82-8	Isopropylbenzene	0.83	2.92	ND	4.10	14.36	ND	
622-96-8	4-Ethyltoluene	0.83	6.67	ND	4.10	32.82	ND	
108-67-8	1,3,5-Trimethylbenzene	0.83	3.75	ND	4.10	18.46	ND	
124-18-5	Decane	0.83	2.50	ND	4.86	14.57	ND	
98-06-6	tert-butyl benzene	0.83	2.50	ND	4.58	13.74	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.83	3.75	ND	4.10	18.46	ND	
538-93-2	i-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
135-98-8	sec-butylbenzene	0.83	2.92	ND	4.58	16.03	ND	
541-73-1	1,3-Dichlorobenzene	0.83	3.33	ND	5.02	20.07	ND	
99-87-6	Isopropyltoluene	0.83	2.50	1.28	4.58	13.74	7.02	J
100-44-7	Benzyl chloride	0.83	2.08	ND	4.32	10.80	ND	
106-46-7	1,4-Dichlorobenzene	0.83	2.08	ND	5.02	12.54	ND	
104-51-8	n-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
95-50-1	1,2-Dichlorobenzene	0.83	2.92	ND	5.02	17.56	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.25	2.92	ND	12.10	28.23	ND	
120-82-1	1,2,4-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
91-20-3	Naphthalene	2.08	0.42	ND	10.94	2.19	ND	
87-61-6	1,2,3-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
87-68-3	Hexachlorobutadiene	1.04	1.25	ND	11.13	13.35	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	103	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 42**

File Name: 2510042A.D **Date Sampled:** 03/21/25 **Time:** 09:13
Description: T-306 **Date Analyzed:** 04/02/25 **Time:** 18:29
Canister: 859 **Can Dilution Factor:** 1.21
QC_Batch: 040225-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	1.01	1.06	0.70	1.74	1.82	
75-71-8	Dichlorodifluoromethane	0.61	1.01	ND	3.00	4.99	ND	
67-56-1	Methanol	2.02	2.42	5.31	2.64	3.17	6.96	
74-87-3	Chloromethane	0.61	1.01	ND	1.25	2.09	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	1.01	ND	2.82	7.06	ND	
75-01-4	Vinyl chloride	0.20	1.01	ND	0.52	2.58	ND	
106-99-0	1,3-Butadiene	0.20	1.01	ND	0.45	2.23	ND	
74-83-9	Bromomethane	0.40	1.01	ND	1.57	3.92	ND	
75-00-3	Chloroethane	0.40	1.01	ND	1.07	2.66	ND	
64-17-5	Ethanol	2.02	12.95	ND	3.81	24.44	ND	
107-02-8	Acrolein	0.40	1.21	1.10	0.93	2.78	2.53	J
75-69-4	Trichlorofluoromethane	0.40	1.01	ND	2.27	5.67	ND	
67-64-1	Acetone	2.02	2.42	6.50	4.80	5.76	15.47	
67-63-0	2-propanol (isopropylalcohol)	0.81	5.04	ND	1.99	12.41	ND	
75-65-0	t-Butyl alcohol	0.40	4.03	ND	1.22	12.24	ND	
4227-95-6	Methyl iodide	0.40	1.21	ND	2.36	7.08	ND	
75-35-4	1,1-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
107-13-1	Acrylonitrile	0.81	1.21	ND	1.75	2.63	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.01	ND	1.55	7.74	ND	
107-05-1	Allyl chloride	0.20	4.03	ND	0.63	12.64	ND	
75-09-2	Methylene chloride	0.20	1.01	ND	0.70	3.51	ND	
75-15-0	Carbon disulfide	0.40	1.01	ND	1.26	3.14	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.81	ND	0.80	3.20	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.81	ND	1.46	2.91	ND	
107-12-0	Propionitrile	1.01	1.61	ND	2.28	3.64	ND	
75-34-3	1,1-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
637-92-3	Ethyl tert butyl ether	0.40	1.01	ND	1.69	4.22	ND	
108-05-4	Vinyl acetate	0.20	4.03	ND	0.71	14.22	ND	
78-93-3	2-Butanone (MEK)	0.40	1.21	0.54	1.19	3.57	1.61	J
108-20-3	Diisopropyl ether	0.40	2.42	ND	1.69	10.13	ND	
110-54-3	Hexane	0.40	1.01	ND	1.42	3.56	ND	
126-98-7	Methacrylonitrile	0.40	1.01	ND	1.11	2.77	ND	
141-78-6	Ethyl acetate	0.40	1.01	ND	1.46	3.64	ND	
74-97-5	Bromochloromethane	0.20	1.01	ND	1.07	5.34	ND	
96-33-3	Methyl acrylate	0.40	2.02	ND	1.42	7.11	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.21	ND	0.60	3.57	ND	
78-83-1	Isobutyl alcohol	0.81	3.23	ND	2.45	9.79	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
594-20-7	2,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
67-66-3	Chloroform	0.20	1.01	0.28	0.99	4.93	1.37	J
71-55-6	1,1,1-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
107-06-2	1,2-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
563-58-6	1,1-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
110-82-7	Cyclohexane	0.20	1.01	ND	0.70	3.48	ND	
71-43-2	Benzene	1.41	2.02	4.03	4.52	6.45	12.90	
56-23-5	Carbon tetrachloride	0.20	1.01	ND	1.27	6.35	ND	
994-05-8	t-Amyl methyl ether	0.40	2.02	ND	1.69	8.44	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.01	ND	0.94	4.72	ND	
142-82-5	n-Heptane	0.40	1.01	ND	1.66	4.14	ND	
78-87-5	1,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
123-91-1	1,4 Dioxane	0.40	2.02	ND	1.46	7.28	ND	
74-95-3	Dibromomethane	0.20	1.01	ND	1.44	7.18	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.01	ND	0.54	5.43	ND	
75-27-4	Bromodichloromethane	0.20	1.01	ND	1.35	6.76	ND	
80-62-6	Methyl methacrylate	0.40	1.01	ND	1.65	4.13	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.23	ND	1.66	13.24	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
108-88-3	Toluene	0.81	1.01	ND	3.04	3.80	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
97-63-2	Ethyl methacrylate	0.40	1.01	ND	1.89	4.72	ND	
591-78-6	2-Hexanone	0.40	3.23	ND	1.66	13.24	ND	
142-28-9	1,3-Dichloropropane	0.20	2.82	ND	0.93	13.07	ND	
111-65-9	Octane	0.40	1.01	ND	1.89	4.72	ND	
124-48-1	Dibromochloromethane	0.40	1.01	ND	3.44	8.60	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	1.01	ND	3.10	7.76	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.01	ND	0.68	6.85	ND	
108-90-7	Chlorobenzene	0.40	1.01	ND	1.86	4.65	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	1.01	ND	2.77	6.93	ND	
100-41-4	Ethylbenzene	0.40	1.01	ND	1.75	4.39	ND	
1330-20-7	m,p-Xylenes	0.40	1.01	ND	1.75	4.39	ND	
111-84-2	Nonane	0.40	1.01	ND	2.12	5.30	ND	
100-42-5	Styrene	0.61	1.01	ND	2.58	4.30	ND	
75-25-2	Bromoform	0.40	1.01	ND	4.17	10.44	ND	
95-47-6	o-Xylene	0.40	1.01	ND	1.75	4.39	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.81	2.02	ND	5.54	13.86	ND	
96-18-4	1,2,3-Trichloropropane	0.81	2.42	ND	4.87	14.61	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.81	2.42	ND	4.13	12.39	ND	
103-65-1	n-Propylbenzene	0.81	2.82	ND	3.97	13.90	ND	
98-82-8	Isopropylbenzene	0.81	2.82	ND	3.97	13.90	ND	
622-96-8	4-Ethyltoluene	0.81	6.45	ND	3.97	31.77	ND	
108-67-8	1,3,5-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
124-18-5	Decane	0.81	2.42	ND	4.70	14.10	ND	
98-06-6	tert-butyl benzene	0.81	2.42	ND	4.43	13.30	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
538-93-2	i-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
135-98-8	sec-butylbenzene	0.81	2.82	ND	4.43	15.52	ND	
541-73-1	1,3-Dichlorobenzene	0.81	3.23	ND	4.86	19.43	ND	
99-87-6	Isopropyltoluene	0.81	2.42	ND	4.43	13.30	ND	
100-44-7	Benzyl chloride	0.81	2.02	ND	4.18	10.46	ND	
106-46-7	1,4-Dichlorobenzene	0.81	2.02	ND	4.86	12.14	ND	
104-51-8	n-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
95-50-1	1,2-Dichlorobenzene	0.81	2.82	ND	4.86	17.00	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.21	2.82	ND	11.71	27.32	ND	
120-82-1	1,2,4-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
91-20-3	Naphthalene	2.02	0.40	ND	10.59	2.12	ND	
87-61-6	1,2,3-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
87-68-3	Hexachlorobutadiene	1.01	1.21	ND	10.77	12.92	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	102	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 43**

File Name: 2510043A.D **Date Sampled:** 03/21/25 **Time:** 09:10
Description: T-307 **Date Analyzed:** 04/02/25 **Time:** 19:16
Canister: 636 **Can Dilution Factor:** 1.22
QC_Batch: 040225-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.41	1.02	1.19	0.70	1.75	2.06	
75-71-8	Dichlorodifluoromethane	0.61	1.02	ND	3.02	5.03	ND	
67-56-1	Methanol	2.03	2.44	19.47	2.66	3.20	25.52	
74-87-3	Chloromethane	0.61	1.02	ND	1.26	2.10	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.41	1.02	ND	2.85	7.12	ND	
75-01-4	Vinyl chloride	0.20	1.02	ND	0.52	2.60	ND	
106-99-0	1,3-Butadiene	0.20	1.02	ND	0.45	2.25	ND	
74-83-9	Bromomethane	0.41	1.02	ND	1.58	3.95	ND	
75-00-3	Chloroethane	0.41	1.02	ND	1.07	2.69	ND	
64-17-5	Ethanol	2.03	13.05	ND	3.84	24.65	ND	
107-02-8	Acrolein	0.41	1.22	1.07	0.93	2.80	2.45	J
75-69-4	Trichlorofluoromethane	0.41	1.02	ND	2.29	5.72	ND	
67-64-1	Acetone	2.03	2.44	7.62	4.84	5.81	18.12	
67-63-0	2-propanol (isopropylalcohol)	0.81	5.08	0.83	2.00	12.51	2.04	J
75-65-0	t-Butyl alcohol	0.41	4.07	ND	1.23	12.34	ND	
4227-95-6	Methyl iodide	0.41	1.22	ND	2.38	7.14	ND	
75-35-4	1,1-Dichloroethene	0.20	1.02	ND	0.81	4.03	ND	
107-13-1	Acrylonitrile	0.81	1.22	ND	1.77	2.65	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.02	ND	1.56	7.80	ND	
107-05-1	Allyl chloride	0.20	4.07	ND	0.64	12.74	ND	
75-09-2	Methylene chloride	0.20	1.02	ND	0.71	3.54	ND	
75-15-0	Carbon disulfide	0.41	1.02	ND	1.27	3.17	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.81	ND	0.81	3.23	ND	
1634-04-4	Methyl tert butyl ether	0.41	0.81	ND	1.47	2.93	ND	
107-12-0	Propionitrile	1.02	1.63	ND	2.29	3.67	ND	
75-34-3	1,1-Dichloroethane	0.20	1.02	ND	0.82	4.12	ND	
637-92-3	Ethyl tert butyl ether	0.41	1.02	ND	1.70	4.26	ND	
108-05-4	Vinyl acetate	0.20	4.07	ND	0.72	14.34	ND	
78-93-3	2-Butanone (MEK)	0.41	1.22	2.95	1.20	3.60	8.72	
108-20-3	Diisopropyl ether	0.41	2.44	ND	1.70	10.21	ND	
110-54-3	Hexane	0.41	1.02	ND	1.44	3.59	ND	
126-98-7	Methacrylonitrile	0.41	1.02	ND	1.12	2.79	ND	
141-78-6	Ethyl acetate	0.41	1.02	ND	1.47	3.67	ND	
74-97-5	Bromochloromethane	0.20	1.02	ND	1.08	5.39	ND	
96-33-3	Methyl acrylate	0.41	2.03	ND	1.43	7.17	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.22	ND	0.60	3.60	ND	
78-83-1	Isobutyl alcohol	0.81	3.25	ND	2.47	9.87	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.02	ND	0.81	4.03	ND	
594-20-7	2,2-Dichloropropane	0.20	1.02	ND	0.94	4.71	ND	
67-66-3	Chloroform	0.20	1.02	ND	1.00	4.97	ND	
71-55-6	1,1,1-Trichloroethane	0.20	1.02	ND	1.11	5.55	ND	
107-06-2	1,2-Dichloroethane	0.20	1.02	ND	0.82	4.12	ND	
563-58-6	1,1-Dichloropropene	0.20	1.02	ND	0.92	4.62	ND	
110-82-7	Cyclohexane	0.20	1.02	ND	0.70	3.51	ND	
71-43-2	Benzene	1.42	2.03	4.20	4.55	6.50	13.42	
56-23-5	Carbon tetrachloride	0.20	1.02	ND	1.28	6.40	ND	
994-05-8	t-Amyl methyl ether	0.41	2.03	ND	1.70	8.51	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.02	ND	0.95	4.76	ND	
142-82-5	n-Heptane	0.41	1.02	ND	1.67	4.17	ND	
78-87-5	1,2-Dichloropropane	0.20	1.02	ND	0.94	4.71	ND	
123-91-1	1,4 Dioxane	0.41	2.03	ND	1.47	7.34	ND	
74-95-3	Dibromomethane	0.20	1.02	ND	1.45	7.24	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.02	ND	0.55	5.47	ND	
75-27-4	Bromodichloromethane	0.20	1.02	ND	1.36	6.82	ND	
80-62-6	Methyl methacrylate	0.41	1.02	ND	1.67	4.17	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.41	3.25	ND	1.67	13.35	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.02	ND	0.92	4.62	ND	
108-88-3	Toluene	0.81	1.02	ND	3.07	3.83	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.02	ND	0.92	4.62	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.02	ND	1.11	5.55	ND	
97-63-2	Ethyl methacrylate	0.41	1.02	ND	1.90	4.76	ND	
591-78-6	2-Hexanone	0.41	3.25	ND	1.67	13.35	ND	
142-28-9	1,3-Dichloropropane	0.20	2.85	ND	0.94	13.17	ND	
111-65-9	Octane	0.41	1.02	ND	1.90	4.76	ND	
124-48-1	Dibromochloromethane	0.41	1.02	ND	3.47	8.67	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.41	1.02	ND	3.13	7.82	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.02	ND	0.69	6.90	ND	
108-90-7	Chlorobenzene	0.41	1.02	ND	1.88	4.69	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.41	1.02	ND	2.79	6.99	ND	
100-41-4	Ethylbenzene	0.41	1.02	ND	1.77	4.42	ND	
1330-20-7	m,p-Xylenes	0.41	1.02	ND	1.77	4.42	ND	
111-84-2	Nonane	0.41	1.02	ND	2.14	5.34	ND	
100-42-5	Styrene	0.61	1.02	ND	2.60	4.34	ND	
75-25-2	Bromoform	0.41	1.02	ND	4.21	10.52	ND	
95-47-6	o-Xylene	0.41	1.02	ND	1.77	4.42	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.81	2.03	ND	5.59	13.97	ND	
96-18-4	1,2,3-Trichloropropane	0.81	2.44	ND	4.91	14.73	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.81	2.44	ND	4.16	12.49	ND	
103-65-1	n-Propylbenzene	0.81	2.85	ND	4.00	14.01	ND	
98-82-8	Isopropylbenzene	0.81	2.85	ND	4.00	14.01	ND	
622-96-8	4-Ethyltoluene	0.81	6.51	ND	4.00	32.03	ND	
108-67-8	1,3,5-Trimethylbenzene	0.81	3.66	ND	4.00	18.02	ND	
124-18-5	Decane	0.81	2.44	ND	4.74	14.22	ND	
98-06-6	tert-butyl benzene	0.81	2.44	ND	4.47	13.41	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.81	3.66	ND	4.00	18.02	ND	
538-93-2	i-Butylbenzene	0.81	2.44	ND	4.47	13.41	ND	
135-98-8	sec-butylbenzene	0.81	2.85	ND	4.47	15.65	ND	
541-73-1	1,3-Dichlorobenzene	0.81	3.25	ND	4.90	19.59	ND	
99-87-6	Isopropyltoluene	0.81	2.44	ND	4.47	13.41	ND	
100-44-7	Benzyl chloride	0.81	2.03	ND	4.22	10.54	ND	
106-46-7	1,4-Dichlorobenzene	0.81	2.03	ND	4.90	12.24	ND	
104-51-8	n-Butylbenzene	0.81	2.44	ND	4.47	13.41	ND	
95-50-1	1,2-Dichlorobenzene	0.81	2.85	ND	4.90	17.14	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.22	2.85	ND	11.81	27.55	ND	
120-82-1	1,2,4-Trichlorobenzene	1.22	2.03	ND	9.06	15.11	ND	
91-20-3	Naphthalene	2.03	0.41	ND	10.68	2.14	ND	
87-61-6	1,2,3-Trichlorobenzene	1.22	2.03	ND	9.06	15.11	ND	
87-68-3	Hexachlorobutadiene	1.02	1.22	ND	10.86	13.03	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	97	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 44**

File Name: 2510044A.D **Date Sampled:** 03/21/25 **Time:** 09:18
Description: T-308 **Date Analyzed:** 04/02/25 **Time:** 21:18
Canister: 661 **Can Dilution Factor:** 1.22
QC_Batch: 040225-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.41	1.02	2.20	0.70	1.75	3.78	
75-71-8	Dichlorodifluoromethane	0.61	1.02	ND	3.02	5.03	ND	
67-56-1	Methanol	2.03	2.44	5.05	2.66	3.20	6.62	
74-87-3	Chloromethane	0.61	1.02	ND	1.26	2.10	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.41	1.02	ND	2.85	7.12	ND	
75-01-4	Vinyl chloride	0.20	1.02	ND	0.52	2.60	ND	
106-99-0	1,3-Butadiene	0.20	1.02	ND	0.45	2.25	ND	
74-83-9	Bromomethane	0.41	1.02	ND	1.58	3.95	ND	
75-00-3	Chloroethane	0.41	1.02	ND	1.07	2.69	ND	
64-17-5	Ethanol	2.03	13.05	ND	3.84	24.65	ND	
107-02-8	Acrolein	0.41	1.22	0.79	0.93	2.80	1.81	J
75-69-4	Trichlorofluoromethane	0.41	1.02	ND	2.29	5.72	ND	
67-64-1	Acetone	2.03	2.44	6.58	4.84	5.81	15.66	
67-63-0	2-propanol (isopropylalcohol)	0.81	5.08	ND	2.00	12.51	ND	
75-65-0	t-Butyl alcohol	0.41	4.07	ND	1.23	12.34	ND	
4227-95-6	Methyl iodide	0.41	1.22	ND	2.38	7.14	ND	
75-35-4	1,1-Dichloroethene	0.20	1.02	ND	0.81	4.03	ND	
107-13-1	Acrylonitrile	0.81	1.22	ND	1.77	2.65	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.02	ND	1.56	7.80	ND	
107-05-1	Allyl chloride	0.20	4.07	ND	0.64	12.74	ND	
75-09-2	Methylene chloride	0.20	1.02	ND	0.71	3.54	ND	
75-15-0	Carbon disulfide	0.41	1.02	ND	1.27	3.17	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.81	ND	0.81	3.23	ND	
1634-04-4	Methyl tert butyl ether	0.41	0.81	ND	1.47	2.93	ND	
107-12-0	Propionitrile	1.02	1.63	ND	2.29	3.67	ND	
75-34-3	1,1-Dichloroethane	0.20	1.02	ND	0.82	4.12	ND	
637-92-3	Ethyl tert butyl ether	0.41	1.02	ND	1.70	4.26	ND	
108-05-4	Vinyl acetate	0.20	4.07	ND	0.72	14.34	ND	
78-93-3	2-Butanone (MEK)	0.41	1.22	0.96	1.20	3.60	2.83	J
108-20-3	Diisopropyl ether	0.41	2.44	ND	1.70	10.21	ND	
110-54-3	Hexane	0.41	1.02	0.95	1.44	3.59	3.37	J
126-98-7	Methacrylonitrile	0.41	1.02	ND	1.12	2.79	ND	
141-78-6	Ethyl acetate	0.41	1.02	ND	1.47	3.67	ND	
74-97-5	Bromochloromethane	0.20	1.02	ND	1.08	5.39	ND	
96-33-3	Methyl acrylate	0.41	2.03	ND	1.43	7.17	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.22	ND	0.60	3.60	ND	
78-83-1	Isobutyl alcohol	0.81	3.25	ND	2.47	9.87	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.02	ND	0.81	4.03	ND	
594-20-7	2,2-Dichloropropane	0.20	1.02	ND	0.94	4.71	ND	
67-66-3	Chloroform	0.20	1.02	ND	1.00	4.97	ND	
71-55-6	1,1,1-Trichloroethane	0.20	1.02	ND	1.11	5.55	ND	
107-06-2	1,2-Dichloroethane	0.20	1.02	ND	0.82	4.12	ND	
563-58-6	1,1-Dichloropropene	0.20	1.02	ND	0.92	4.62	ND	
110-82-7	Cyclohexane	0.20	1.02	ND	0.70	3.51	ND	
71-43-2	Benzene	1.42	2.03	3.94	4.55	6.50	12.60	
56-23-5	Carbon tetrachloride	0.20	1.02	ND	1.28	6.40	ND	
994-05-8	t-Amyl methyl ether	0.41	2.03	ND	1.70	8.51	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.02	ND	0.95	4.76	ND	
142-82-5	n-Heptane	0.41	1.02	ND	1.67	4.17	ND	
78-87-5	1,2-Dichloropropane	0.20	1.02	ND	0.94	4.71	ND	
123-91-1	1,4 Dioxane	0.41	2.03	ND	1.47	7.34	ND	
74-95-3	Dibromomethane	0.20	1.02	ND	1.45	7.24	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.02	ND	0.55	5.47	ND	
75-27-4	Bromodichloromethane	0.20	1.02	ND	1.36	6.82	ND	
80-62-6	Methyl methacrylate	0.41	1.02	ND	1.67	4.17	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.41	3.25	ND	1.67	13.35	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.02	ND	0.92	4.62	ND	
108-88-3	Toluene	0.81	1.02	ND	3.07	3.83	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.02	ND	0.92	4.62	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.02	ND	1.11	5.55	ND	
97-63-2	Ethyl methacrylate	0.41	1.02	ND	1.90	4.76	ND	
591-78-6	2-Hexanone	0.41	3.25	ND	1.67	13.35	ND	
142-28-9	1,3-Dichloropropane	0.20	2.85	ND	0.94	13.17	ND	
111-65-9	Octane	0.41	1.02	ND	1.90	4.76	ND	
124-48-1	Dibromochloromethane	0.41	1.02	ND	3.47	8.67	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.41	1.02	ND	3.13	7.82	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.02	ND	0.69	6.90	ND	
108-90-7	Chlorobenzene	0.41	1.02	ND	1.88	4.69	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.41	1.02	ND	2.79	6.99	ND	
100-41-4	Ethylbenzene	0.41	1.02	ND	1.77	4.42	ND	
1330-20-7	m,p-Xylenes	0.41	1.02	ND	1.77	4.42	ND	
111-84-2	Nonane	0.41	1.02	ND	2.14	5.34	ND	
100-42-5	Styrene	0.61	1.02	ND	2.60	4.34	ND	
75-25-2	Bromoform	0.41	1.02	ND	4.21	10.52	ND	
95-47-6	o-Xylene	0.41	1.02	ND	1.77	4.42	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.81	2.03	ND	5.59	13.97	ND	
96-18-4	1,2,3-Trichloropropane	0.81	2.44	ND	4.91	14.73	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.81	2.44	ND	4.16	12.49	ND	
103-65-1	n-Propylbenzene	0.81	2.85	ND	4.00	14.01	ND	
98-82-8	Isopropylbenzene	0.81	2.85	ND	4.00	14.01	ND	
622-96-8	4-Ethyltoluene	0.81	6.51	ND	4.00	32.03	ND	
108-67-8	1,3,5-Trimethylbenzene	0.81	3.66	ND	4.00	18.02	ND	
124-18-5	Decane	0.81	2.44	ND	4.74	14.22	ND	
98-06-6	tert-butyl benzene	0.81	2.44	ND	4.47	13.41	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.81	3.66	ND	4.00	18.02	ND	
538-93-2	i-Butylbenzene	0.81	2.44	ND	4.47	13.41	ND	
135-98-8	sec-butylbenzene	0.81	2.85	ND	4.47	15.65	ND	
541-73-1	1,3-Dichlorobenzene	0.81	3.25	ND	4.90	19.59	ND	
99-87-6	Isopropyltoluene	0.81	2.44	ND	4.47	13.41	ND	
100-44-7	Benzyl chloride	0.81	2.03	ND	4.22	10.54	ND	
106-46-7	1,4-Dichlorobenzene	0.81	2.03	ND	4.90	12.24	ND	
104-51-8	n-Butylbenzene	0.81	2.44	ND	4.47	13.41	ND	
95-50-1	1,2-Dichlorobenzene	0.81	2.85	ND	4.90	17.14	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.22	2.85	ND	11.81	27.55	ND	
120-82-1	1,2,4-Trichlorobenzene	1.22	2.03	ND	9.06	15.11	ND	
91-20-3	Naphthalene	2.03	0.41	ND	10.68	2.14	ND	
87-61-6	1,2,3-Trichlorobenzene	1.22	2.03	ND	9.06	15.11	ND	
87-68-3	Hexachlorobutadiene	1.02	1.22	ND	10.86	13.03	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	120	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 45**

File Name: 2510045A.D **Date Sampled:** 03/21/25 **Time:** 09:24
Description: T-309 **Date Analyzed:** 04/03/25 **Time:** 13:27
Canister: 579 **Can Dilution Factor:** 1.21
QC_Batch: 040325-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	1.01	1.42	0.70	1.74	2.44	
75-71-8	Dichlorodifluoromethane	0.61	1.01	ND	3.00	4.99	ND	
67-56-1	Methanol	2.02	2.42	6.42	2.64	3.17	8.41	
74-87-3	Chloromethane	0.61	1.01	ND	1.25	2.09	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	1.01	ND	2.82	7.06	ND	
75-01-4	Vinyl chloride	0.20	1.01	ND	0.52	2.58	ND	
106-99-0	1,3-Butadiene	0.20	1.01	ND	0.45	2.23	ND	
74-83-9	Bromomethane	0.40	1.01	ND	1.57	3.92	ND	
75-00-3	Chloroethane	0.40	1.01	ND	1.07	2.66	ND	
64-17-5	Ethanol	2.02	12.95	ND	3.81	24.44	ND	
107-02-8	Acrolein	0.40	1.21	1.25	0.93	2.78	2.86	
75-69-4	Trichlorofluoromethane	0.40	1.01	ND	2.27	5.67	ND	
67-64-1	Acetone	2.02	2.42	6.47	4.80	5.76	15.39	
67-63-0	2-propanol (isopropylalcohol)	0.81	5.04	ND	1.99	12.41	ND	
75-65-0	t-Butyl alcohol	0.40	4.03	ND	1.22	12.24	ND	
4227-95-6	Methyl iodide	0.40	1.21	ND	2.36	7.08	ND	
75-35-4	1,1-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
107-13-1	Acrylonitrile	0.81	1.21	ND	1.75	2.63	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.01	ND	1.55	7.74	ND	
107-05-1	Allyl chloride	0.20	4.03	ND	0.63	12.64	ND	
75-09-2	Methylene chloride	0.20	1.01	ND	0.70	3.51	ND	
75-15-0	Carbon disulfide	0.40	1.01	1.30	1.26	3.14	4.06	
156-60-5	trans-1,2-Dichloroethene	0.20	0.81	ND	0.80	3.20	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.81	ND	1.46	2.91	ND	
107-12-0	Propionitrile	1.01	1.61	ND	2.28	3.64	ND	
75-34-3	1,1-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
637-92-3	Ethyl tert butyl ether	0.40	1.01	ND	1.69	4.22	ND	
108-05-4	Vinyl acetate	0.20	4.03	ND	0.71	14.22	ND	
78-93-3	2-Butanone (MEK)	0.40	1.21	0.80	1.19	3.57	2.38	J
108-20-3	Diisopropyl ether	0.40	2.42	ND	1.69	10.13	ND	
110-54-3	Hexane	0.40	1.01	ND	1.42	3.56	ND	
126-98-7	Methacrylonitrile	0.40	1.01	ND	1.11	2.77	ND	
141-78-6	Ethyl acetate	0.40	1.01	ND	1.46	3.64	ND	
74-97-5	Bromochloromethane	0.20	1.01	ND	1.07	5.34	ND	
96-33-3	Methyl acrylate	0.40	2.02	ND	1.42	7.11	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.21	ND	0.60	3.57	ND	
78-83-1	Isobutyl alcohol	0.81	3.23	ND	2.45	9.79	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
594-20-7	2,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
67-66-3	Chloroform	0.20	1.01	ND	0.99	4.93	ND	
71-55-6	1,1,1-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
107-06-2	1,2-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
563-58-6	1,1-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
110-82-7	Cyclohexane	0.20	1.01	ND	0.70	3.48	ND	
71-43-2	Benzene	1.41	2.02	3.26	4.52	6.45	10.44	
56-23-5	Carbon tetrachloride	0.20	1.01	ND	1.27	6.35	ND	
994-05-8	t-Amyl methyl ether	0.40	2.02	ND	1.69	8.44	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.01	ND	0.94	4.72	ND	
142-82-5	n-Heptane	0.40	1.01	ND	1.66	4.14	ND	
78-87-5	1,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
123-91-1	1,4 Dioxane	0.40	2.02	ND	1.46	7.28	ND	
74-95-3	Dibromomethane	0.20	1.01	ND	1.44	7.18	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.01	ND	0.54	5.43	ND	
75-27-4	Bromodichloromethane	0.20	1.01	ND	1.35	6.76	ND	
80-62-6	Methyl methacrylate	0.40	1.01	ND	1.65	4.13	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.23	ND	1.66	13.24	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
108-88-3	Toluene	0.81	1.01	ND	3.04	3.80	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
97-63-2	Ethyl methacrylate	0.40	1.01	ND	1.89	4.72	ND	
591-78-6	2-Hexanone	0.40	3.23	ND	1.66	13.24	ND	
142-28-9	1,3-Dichloropropane	0.20	2.82	ND	0.93	13.07	ND	
111-65-9	Octane	0.40	1.01	ND	1.89	4.72	ND	
124-48-1	Dibromochloromethane	0.40	1.01	ND	3.44	8.60	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	1.01	ND	3.10	7.76	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.01	ND	0.68	6.85	ND	
108-90-7	Chlorobenzene	0.40	1.01	ND	1.86	4.65	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	1.01	ND	2.77	6.93	ND	
100-41-4	Ethylbenzene	0.40	1.01	ND	1.75	4.39	ND	
1330-20-7	m,p-Xylenes	0.40	1.01	ND	1.75	4.39	ND	
111-84-2	Nonane	0.40	1.01	ND	2.12	5.30	ND	
100-42-5	Styrene	0.61	1.01	ND	2.58	4.30	ND	
75-25-2	Bromoform	0.40	1.01	ND	4.17	10.44	ND	
95-47-6	o-Xylene	0.40	1.01	ND	1.75	4.39	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.81	2.02	ND	5.54	13.86	ND	
96-18-4	1,2,3-Trichloropropane	0.81	2.42	ND	4.87	14.61	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.81	2.42	ND	4.13	12.39	ND	
103-65-1	n-Propylbenzene	0.81	2.82	ND	3.97	13.90	ND	
98-82-8	Isopropylbenzene	0.81	2.82	ND	3.97	13.90	ND	
622-96-8	4-Ethyltoluene	0.81	6.45	ND	3.97	31.77	ND	
108-67-8	1,3,5-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
124-18-5	Decane	0.81	2.42	ND	4.70	14.10	ND	
98-06-6	tert-butyl benzene	0.81	2.42	ND	4.43	13.30	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
538-93-2	i-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
135-98-8	sec-butylbenzene	0.81	2.82	ND	4.43	15.52	ND	
541-73-1	1,3-Dichlorobenzene	0.81	3.23	ND	4.86	19.43	ND	
99-87-6	Isopropyltoluene	0.81	2.42	ND	4.43	13.30	ND	
100-44-7	Benzyl chloride	0.81	2.02	ND	4.18	10.46	ND	
106-46-7	1,4-Dichlorobenzene	0.81	2.02	ND	4.86	12.14	ND	
104-51-8	n-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
95-50-1	1,2-Dichlorobenzene	0.81	2.82	ND	4.86	17.00	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.21	2.82	ND	11.71	27.32	ND	
120-82-1	1,2,4-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
91-20-3	Naphthalene	2.02	0.40	ND	10.59	2.12	ND	
87-61-6	1,2,3-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
87-68-3	Hexachlorobutadiene	1.01	1.21	ND	10.77	12.92	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	117	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 46**

File Name: 2510046A.D
Description: T-310
Canister: 771
QC_Batch: 033125-MA1

Date Sampled: 03/21/25 **Time:** 10:48
Date Analyzed: 03/31/25 **Time:** 14:34
Can Dilution Factor: 1.29
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.43	1.08	ND	0.74	1.85	ND	
75-71-8	Dichlorodifluoromethane	0.65	1.08	ND	3.19	5.32	ND	
67-56-1	Methanol	2.15	2.58	ND	2.82	3.38	ND	
74-87-3	Chloromethane	0.65	1.08	ND	1.33	2.22	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.43	1.08	ND	3.01	7.52	ND	
75-01-4	Vinyl chloride	0.22	1.08	ND	0.55	2.75	ND	
106-99-0	1,3-Butadiene	0.22	1.08	ND	0.48	2.38	ND	
74-83-9	Bromomethane	0.43	1.08	ND	1.67	4.18	ND	
75-00-3	Chloroethane	0.43	1.08	ND	1.14	2.84	ND	
64-17-5	Ethanol	2.15	13.80	ND	4.06	26.06	ND	
107-02-8	Acrolein	0.43	1.29	ND	0.99	2.96	ND	
75-69-4	Trichlorofluoromethane	0.43	1.08	ND	2.42	6.05	ND	
67-64-1	Acetone	2.15	2.58	ND	5.12	6.14	ND	
67-63-0	2-propanol (isopropylalcohol)	0.86	5.38	ND	2.12	13.23	ND	
75-65-0	t-Butyl alcohol	0.43	4.30	ND	1.30	13.05	ND	
4227-95-6	Methyl iodide	0.43	1.29	ND	2.52	7.55	ND	
75-35-4	1,1-Dichloroethene	0.22	1.08	ND	0.85	4.27	ND	
107-13-1	Acrylonitrile	0.86	1.29	ND	1.87	2.81	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.22	1.08	ND	1.65	8.25	ND	
107-05-1	Allyl chloride	0.22	4.30	ND	0.67	13.47	ND	
75-09-2	Methylene chloride	0.22	1.08	ND	0.75	3.74	ND	
75-15-0	Carbon disulfide	0.43	1.08	ND	1.34	3.35	ND	
156-60-5	trans-1,2-Dichloroethene	0.22	0.86	ND	0.85	3.41	ND	
1634-04-4	Methyl tert butyl ether	0.43	0.86	ND	1.55	3.10	ND	
107-12-0	Propionitrile	1.08	1.72	ND	2.43	3.88	ND	
75-34-3	1,1-Dichloroethane	0.21	1.08	ND	0.87	4.36	ND	
637-92-3	Ethyl tert butyl ether	0.43	1.08	ND	1.80	4.50	ND	
108-05-4	Vinyl acetate	0.22	4.30	ND	0.76	15.16	ND	
78-93-3	2-Butanone (MEK)	0.43	1.29	ND	1.27	3.81	ND	
108-20-3	Diisopropyl ether	0.43	2.58	ND	1.80	10.80	ND	
110-54-3	Hexane	0.43	1.08	ND	1.52	3.80	ND	
126-98-7	Methacrylonitrile	0.43	1.08	ND	1.18	2.95	ND	
141-78-6	Ethyl acetate	0.43	1.08	ND	1.55	3.88	ND	
74-97-5	Bromochloromethane	0.22	1.08	ND	1.14	5.70	ND	
96-33-3	Methyl acrylate	0.43	2.15	ND	1.52	7.58	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.22	1.29	ND	0.64	3.81	ND	
78-83-1	Isobutyl alcohol	0.86	3.44	ND	2.61	10.44	ND	
156-59-2	cis-1,2-Dichloroethene	0.22	1.08	ND	0.85	4.27	ND	
594-20-7	2,2-Dichloropropane	0.22	1.08	ND	1.00	4.98	ND	
67-66-3	Chloroform	0.22	1.08	ND	1.05	5.26	ND	
71-55-6	1,1,1-Trichloroethane	0.22	1.08	ND	1.17	5.87	ND	
107-06-2	1,2-Dichloroethane	0.22	1.08	ND	0.87	4.36	ND	
563-58-6	1,1-Dichloropropene	0.22	1.08	ND	0.98	4.89	ND	
110-82-7	Cyclohexane	0.22	1.08	ND	0.74	3.71	ND	
71-43-2	Benzene	1.51	2.15	ND	4.81	6.88	ND	
56-23-5	Carbon tetrachloride	0.22	1.08	ND	1.35	6.77	ND	
994-05-8	t-Amyl methyl ether	0.43	2.15	ND	1.80	9.00	ND	
540-84-1	2,2,4-Trimethylpentane	0.22	1.08	ND	1.01	5.03	ND	
142-82-5	n-Heptane	0.43	1.08	ND	1.76	4.41	ND	
78-87-5	1,2-Dichloropropane	0.22	1.08	ND	1.00	4.98	ND	
123-91-1	1,4 Dioxane	0.43	2.15	ND	1.55	7.76	ND	
74-95-3	Dibromomethane	0.22	1.08	ND	1.53	7.65	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.08	ND	0.58	5.79	ND	
75-27-4	Bromodichloromethane	0.22	1.08	ND	1.44	7.21	ND	
80-62-6	Methyl methacrylate	0.43	1.08	ND	1.76	4.41	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.43	3.44	ND	1.76	14.12	ND	
10061-01-5	cis-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.89	ND	
108-88-3	Toluene	0.86	1.08	ND	3.24	4.05	ND	
10061-02-6	trans-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.89	ND	
79-00-5	1,1,2-Trichloroethane	0.22	1.08	ND	1.17	5.87	ND	
97-63-2	Ethyl methacrylate	0.43	1.08	ND	2.01	5.03	ND	
591-78-6	2-Hexanone	0.43	3.44	ND	1.76	14.12	ND	
142-28-9	1,3-Dichloropropane	0.22	3.01	ND	1.00	13.93	ND	
111-65-9	Octane	0.43	1.08	ND	2.01	5.03	ND	
124-48-1	Dibromochloromethane	0.43	1.08	ND	3.67	9.17	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.43	1.08	ND	3.31	8.27	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.08	ND	0.73	7.30	ND	
108-90-7	Chlorobenzene	0.43	1.08	ND	1.98	4.96	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.43	1.08	ND	2.96	7.39	ND	
100-41-4	Ethylbenzene	0.43	1.08	ND	1.87	4.68	ND	
1330-20-7	m,p-Xylenes	0.43	1.08	ND	1.87	4.68	ND	
111-84-2	Nonane	0.43	1.08	ND	2.26	5.65	ND	
100-42-5	Styrene	0.65	1.08	ND	2.75	4.59	ND	
75-25-2	Bromoform	0.43	1.08	ND	4.45	11.13	ND	
95-47-6	o-Xylene	0.43	1.08	ND	1.87	4.68	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.86	2.15	ND	5.91	14.78	ND	
96-18-4	1,2,3-Trichloropropane	0.86	2.58	ND	5.19	15.57	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.86	2.58	ND	4.40	13.21	ND	
103-65-1	n-Propylbenzene	0.86	3.01	ND	4.23	14.82	ND	
98-82-8	Isopropylbenzene	0.86	3.01	ND	4.23	14.82	ND	
622-96-8	4-Ethyltoluene	0.86	6.88	ND	4.23	33.87	ND	
108-67-8	1,3,5-Trimethylbenzene	0.86	3.87	ND	4.23	19.05	ND	
124-18-5	Decane	0.86	2.58	ND	5.01	15.04	ND	
98-06-6	tert-butyl benzene	0.86	2.58	ND	4.73	14.18	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.86	3.87	ND	4.23	19.05	ND	
538-93-2	i-Butylbenzene	0.86	2.58	ND	4.73	14.18	ND	
135-98-8	sec-butylbenzene	0.86	3.01	ND	4.73	16.54	ND	
541-73-1	1,3-Dichlorobenzene	0.86	3.44	ND	5.18	20.71	ND	
99-87-6	Isopropyltoluene	0.86	2.58	ND	4.73	14.18	ND	
100-44-7	Benzyl chloride	0.86	2.15	ND	4.46	11.15	ND	
106-46-7	1,4-Dichlorobenzene	0.86	2.15	ND	5.18	12.94	ND	
104-51-8	n-Butylbenzene	0.86	2.58	ND	4.73	14.18	ND	
95-50-1	1,2-Dichlorobenzene	0.86	3.01	ND	5.18	18.12	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.29	3.01	ND	12.48	29.13	ND	
120-82-1	1,2,4-Trichlorobenzene	1.29	2.15	ND	9.58	15.97	ND	
91-20-3	Naphthalene	2.15	0.43	ND	11.29	2.26	ND	
87-61-6	1,2,3-Trichlorobenzene	1.29	2.15	ND	9.58	15.97	ND	
87-68-3	Hexachlorobutadiene	1.08	1.29	ND	11.48	13.78	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	101	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 47**

File Name: 2510047A.D **Date Sampled:** 03/21/25 **Time:** 10:35
Description: T-311 **Date Analyzed:** 04/03/25 **Time:** 14:03
Canister: 605 **Can Dilution Factor:** 1.28
QC_Batch: 040325-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.43	1.07	0.96	0.74	1.84	1.66	J
75-71-8	Dichlorodifluoromethane	0.64	1.07	ND	3.17	5.28	ND	
67-56-1	Methanol	2.13	2.56	9.11	2.80	3.36	11.94	
74-87-3	Chloromethane	0.64	1.07	ND	1.32	2.21	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.43	1.07	ND	2.99	7.47	ND	
75-01-4	Vinyl chloride	0.21	1.07	ND	0.55	2.73	ND	
106-99-0	1,3-Butadiene	0.21	1.07	ND	0.48	2.36	ND	
74-83-9	Bromomethane	0.43	1.07	ND	1.66	4.15	ND	
75-00-3	Chloroethane	0.43	1.07	ND	1.13	2.82	ND	
64-17-5	Ethanol	2.13	13.70	ND	4.03	25.86	ND	
107-02-8	Acrolein	0.43	1.28	1.77	0.98	2.94	4.06	
75-69-4	Trichlorofluoromethane	0.43	1.07	ND	2.40	6.00	ND	
67-64-1	Acetone	2.13	2.56	9.36	5.08	6.09	22.27	
67-63-0	2-propanol (isopropylalcohol)	0.85	5.33	ND	2.10	13.13	ND	
75-65-0	t-Butyl alcohol	0.43	4.27	ND	1.29	12.95	ND	
4227-95-6	Methyl iodide	0.43	1.28	ND	2.50	7.49	ND	
75-35-4	1,1-Dichloroethene	0.21	1.07	ND	0.85	4.23	ND	
107-13-1	Acrylonitrile	0.85	1.28	ND	1.86	2.78	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.07	ND	1.64	8.19	ND	
107-05-1	Allyl chloride	0.21	4.27	ND	0.67	13.37	ND	
75-09-2	Methylene chloride	0.21	1.07	ND	0.74	3.71	ND	
75-15-0	Carbon disulfide	0.43	1.07	ND	1.33	3.32	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.85	ND	0.85	3.39	ND	
1634-04-4	Methyl tert butyl ether	0.43	0.85	ND	1.54	3.08	ND	
107-12-0	Propionitrile	1.07	1.71	ND	2.41	3.85	ND	
75-34-3	1,1-Dichloroethane	0.21	1.07	ND	0.86	4.32	ND	
637-92-3	Ethyl tert butyl ether	0.43	1.07	ND	1.79	4.46	ND	
108-05-4	Vinyl acetate	0.21	4.27	ND	0.75	15.05	ND	
78-93-3	2-Butanone (MEK)	0.43	1.28	0.81	1.26	3.78	2.40	J
108-20-3	Diisopropyl ether	0.43	2.56	ND	1.79	10.72	ND	
110-54-3	Hexane	0.43	1.07	ND	1.51	3.77	ND	
126-98-7	Methacrylonitrile	0.43	1.07	ND	1.17	2.93	ND	
141-78-6	Ethyl acetate	0.43	1.07	ND	1.54	3.85	ND	
74-97-5	Bromochloromethane	0.21	1.07	ND	1.13	5.65	ND	
96-33-3	Methyl acrylate	0.43	2.13	ND	1.50	7.52	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.28	ND	0.63	3.78	ND	
78-83-1	Isobutyl alcohol	0.85	3.41	ND	2.59	10.36	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.07	ND	0.85	4.23	ND	
594-20-7	2,2-Dichloropropane	0.21	1.07	ND	0.99	4.94	ND	
67-66-3	Chloroform	0.21	1.07	ND	1.05	5.22	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.07	ND	1.17	5.83	ND	
107-06-2	1,2-Dichloroethane	0.21	1.07	ND	0.86	4.32	ND	
563-58-6	1,1-Dichloropropene	0.21	1.07	ND	0.97	4.85	ND	
110-82-7	Cyclohexane	0.21	1.07	ND	0.74	3.68	ND	
71-43-2	Benzene	1.49	2.13	3.91	4.78	6.82	12.51	
56-23-5	Carbon tetrachloride	0.21	1.07	ND	1.34	6.72	ND	
994-05-8	t-Amyl methyl ether	0.43	2.13	ND	1.79	8.93	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.07	ND	1.00	4.99	ND	
142-82-5	n-Heptane	0.43	1.07	ND	1.75	4.38	ND	
78-87-5	1,2-Dichloropropane	0.21	1.07	ND	0.99	4.94	ND	
123-91-1	1,4 Dioxane	0.43	2.13	ND	1.54	7.70	ND	
74-95-3	Dibromomethane	0.21	1.07	ND	1.52	7.59	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.07	ND	0.57	5.74	ND	
75-27-4	Bromodichloromethane	0.21	1.07	ND	1.43	7.16	ND	
80-62-6	Methyl methacrylate	0.43	1.07	ND	1.75	4.37	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.43	3.41	ND	1.75	14.01	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.07	ND	0.97	4.85	ND	
108-88-3	Toluene	0.85	1.07	ND	3.22	4.02	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.07	ND	0.97	4.85	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.07	ND	1.17	5.83	ND	
97-63-2	Ethyl methacrylate	0.43	1.07	ND	2.00	4.99	ND	
591-78-6	2-Hexanone	0.43	3.41	ND	1.75	14.01	ND	
142-28-9	1,3-Dichloropropane	0.21	2.99	ND	0.99	13.82	ND	
111-65-9	Octane	0.43	1.07	ND	2.00	4.99	ND	
124-48-1	Dibromochloromethane	0.43	1.07	ND	3.64	9.10	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.43	1.07	ND	3.28	8.21	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.07	0.18	0.72	7.24	1.25	J
108-90-7	Chlorobenzene	0.43	1.07	ND	1.97	4.92	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.43	1.07	ND	2.93	7.33	ND	
100-41-4	Ethylbenzene	0.43	1.07	ND	1.86	4.64	ND	
1330-20-7	m,p-Xylenes	0.43	1.07	ND	1.86	4.64	ND	
111-84-2	Nonane	0.43	1.07	ND	2.24	5.60	ND	
100-42-5	Styrene	0.64	1.07	ND	2.73	4.55	ND	
75-25-2	Bromoform	0.43	1.07	ND	4.42	11.04	ND	
95-47-6	o-Xylene	0.43	1.07	ND	1.86	4.64	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.85	2.13	ND	5.86	14.66	ND	
96-18-4	1,2,3-Trichloropropane	0.85	2.56	ND	5.15	15.45	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.85	2.56	ND	4.37	13.11	ND	
103-65-1	n-Propylbenzene	0.85	2.99	ND	4.20	14.70	ND	
98-82-8	Isopropylbenzene	0.85	2.99	ND	4.20	14.70	ND	
622-96-8	4-Ethyltoluene	0.85	6.83	ND	4.20	33.61	ND	
108-67-8	1,3,5-Trimethylbenzene	0.85	3.84	ND	4.20	18.90	ND	
124-18-5	Decane	0.85	2.56	ND	4.97	14.92	ND	
98-06-6	tert-butyl benzene	0.85	2.56	ND	4.69	14.07	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.85	3.84	ND	4.20	18.90	ND	
538-93-2	i-Butylbenzene	0.85	2.56	ND	4.69	14.07	ND	
135-98-8	sec-butylbenzene	0.85	2.99	ND	4.69	16.42	ND	
541-73-1	1,3-Dichlorobenzene	0.85	3.41	ND	5.14	20.55	ND	
99-87-6	Isopropyltoluene	0.85	2.56	ND	4.69	14.07	ND	
100-44-7	Benzyl chloride	0.85	2.13	ND	4.42	11.06	ND	
106-46-7	1,4-Dichlorobenzene	0.85	2.13	ND	5.14	12.84	ND	
104-51-8	n-Butylbenzene	0.85	2.56	ND	4.69	14.07	ND	
95-50-1	1,2-Dichlorobenzene	0.85	2.99	ND	5.14	17.98	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.28	2.99	ND	12.39	28.90	ND	
120-82-1	1,2,4-Trichlorobenzene	1.28	2.13	ND	9.51	15.85	ND	
91-20-3	Naphthalene	2.13	0.43	ND	11.20	2.24	ND	
87-61-6	1,2,3-Trichlorobenzene	1.28	2.13	ND	9.51	15.85	ND	
87-68-3	Hexachlorobutadiene	1.07	1.28	ND	11.39	13.67	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	122	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 48**

File Name: 2510048A.D **Date Sampled:** 03/21/25 **Time:** 10:30
Description: T-312 **Date Analyzed:** 04/03/25 **Time:** 15:05
Canister: 990 **Can Dilution Factor:** 1.33
QC_Batch: 040325-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.44	1.11	2.02	0.76	1.91	3.49	
75-71-8	Dichlorodifluoromethane	0.67	1.11	ND	3.29	5.49	ND	
67-56-1	Methanol	2.22	2.66	21.10	2.91	3.49	27.65	
74-87-3	Chloromethane	0.67	1.11	ND	1.38	2.29	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.44	1.11	ND	3.10	7.76	ND	
75-01-4	Vinyl chloride	0.22	1.11	ND	0.57	2.84	ND	
106-99-0	1,3-Butadiene	0.22	1.11	ND	0.49	2.46	ND	
74-83-9	Bromomethane	0.44	1.11	ND	1.72	4.31	ND	
75-00-3	Chloroethane	0.44	1.11	ND	1.17	2.93	ND	
64-17-5	Ethanol	2.22	14.23	5.65	4.19	26.87	10.67	J
107-02-8	Acrolein	0.44	1.33	2.95	1.02	3.06	6.78	
75-69-4	Trichlorofluoromethane	0.44	1.11	ND	2.49	6.24	ND	
67-64-1	Acetone	2.22	2.66	123.17	5.27	6.33	293.09	
67-63-0	2-propanol (isopropylalcohol)	0.89	5.54	4.71	2.18	13.64	11.58	J
75-65-0	t-Butyl alcohol	0.44	4.43	ND	1.35	13.45	ND	
4227-95-6	Methyl iodide	0.44	1.33	ND	2.59	7.78	ND	
75-35-4	1,1-Dichloroethene	0.22	1.11	ND	0.88	4.40	ND	
107-13-1	Acrylonitrile	0.89	1.33	ND	1.93	2.89	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.22	1.11	ND	1.70	8.51	ND	
107-05-1	Allyl chloride	0.22	4.43	ND	0.69	13.89	ND	
75-09-2	Methylene chloride	0.22	1.11	ND	0.77	3.85	ND	
75-15-0	Carbon disulfide	0.44	1.11	ND	1.38	3.45	ND	
156-60-5	trans-1,2-Dichloroethene	0.22	0.89	ND	0.88	3.52	ND	
1634-04-4	Methyl tert butyl ether	0.44	0.89	ND	1.60	3.20	ND	
107-12-0	Propionitrile	1.11	1.77	ND	2.50	4.00	ND	
75-34-3	1,1-Dichloroethane	0.22	1.11	ND	0.90	4.49	ND	
637-92-3	Ethyl tert butyl ether	0.44	1.11	ND	1.86	4.64	ND	
108-05-4	Vinyl acetate	0.22	4.43	ND	0.78	15.63	ND	
78-93-3	2-Butanone (MEK)	0.44	1.33	91.40	1.31	3.93	269.90	
108-20-3	Diisopropyl ether	0.44	2.66	ND	1.86	11.13	ND	
110-54-3	Hexane	0.44	1.11	ND	1.57	3.91	ND	
126-98-7	Methacrylonitrile	0.44	1.11	ND	1.22	3.05	ND	
141-78-6	Ethyl acetate	0.44	1.11	10.36	1.60	4.00	37.39	
74-97-5	Bromochloromethane	0.22	1.11	ND	1.17	5.87	ND	
96-33-3	Methyl acrylate	0.44	2.22	ND	1.56	7.82	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.22	1.33	2.65	0.66	3.93	7.83	
78-83-1	Isobutyl alcohol	0.89	3.55	ND	2.69	10.76	ND	
156-59-2	cis-1,2-Dichloroethene	0.22	1.11	ND	0.88	4.40	ND	
594-20-7	2,2-Dichloropropane	0.22	1.11	ND	1.03	5.13	ND	
67-66-3	Chloroform	0.22	1.11	ND	1.09	5.42	ND	
71-55-6	1,1,1-Trichloroethane	0.22	1.11	ND	1.21	6.06	ND	
107-06-2	1,2-Dichloroethane	0.22	1.11	0.76	0.90	4.49	3.08	J
563-58-6	1,1-Dichloropropene	0.22	1.11	ND	1.01	5.04	ND	
110-82-7	Cyclohexane	0.22	1.11	ND	0.76	3.82	ND	
71-43-2	Benzene	1.55	2.22	4.26	4.96	7.09	13.62	
56-23-5	Carbon tetrachloride	0.22	1.11	ND	1.40	6.98	ND	
994-05-8	t-Amyl methyl ether	0.44	2.22	ND	1.86	9.28	ND	
540-84-1	2,2,4-Trimethylpentane	0.22	1.11	ND	1.04	5.18	ND	
142-82-5	n-Heptane	0.44	1.11	ND	1.82	4.55	ND	
78-87-5	1,2-Dichloropropane	0.22	1.11	ND	1.03	5.13	ND	
123-91-1	1,4 Dioxane	0.44	2.22	ND	1.60	8.00	ND	
74-95-3	Dibromomethane	0.22	1.11	ND	1.58	7.89	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.11	ND	0.60	5.96	ND	
75-27-4	Bromodichloromethane	0.22	1.11	ND	1.49	7.44	ND	
80-62-6	Methyl methacrylate	0.44	1.11	ND	1.82	4.54	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.44	3.55	ND	1.82	14.55	ND	
10061-01-5	cis-1,3-Dichloropropene	0.22	1.11	ND	1.01	5.04	ND	
108-88-3	Toluene	0.89	1.11	ND	3.34	4.18	ND	
10061-02-6	trans-1,3-Dichloropropene	0.22	1.11	ND	1.01	5.04	ND	
79-00-5	1,1,2-Trichloroethane	0.22	1.11	ND	1.21	6.06	ND	
97-63-2	Ethyl methacrylate	0.44	1.11	ND	2.07	5.18	ND	
591-78-6	2-Hexanone	0.44	3.55	0.56	1.82	14.55	2.31	J
142-28-9	1,3-Dichloropropane	0.22	3.10	ND	1.03	14.36	ND	
111-65-9	Octane	0.44	1.11	ND	2.07	5.18	ND	
124-48-1	Dibromochloromethane	0.44	1.11	ND	3.78	9.46	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.44	1.11	ND	3.41	8.53	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.11	2.34	0.75	7.53	15.88	
108-90-7	Chlorobenzene	0.44	1.11	ND	2.04	5.11	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.44	1.11	ND	3.05	7.62	ND	
100-41-4	Ethylbenzene	0.44	1.11	ND	1.93	4.82	ND	
1330-20-7	m,p-Xylenes	0.44	1.11	0.70	1.93	4.82	3.03	J
111-84-2	Nonane	0.44	1.11	ND	2.33	5.82	ND	
100-42-5	Styrene	0.67	1.11	ND	2.84	4.73	ND	
75-25-2	Bromoform	0.44	1.11	ND	4.59	11.47	ND	
95-47-6	o-Xylene	0.44	1.11	0.53	1.93	4.82	2.29	J
79-34-5	1,1,2,2-Tetrachloroethane	0.89	2.22	ND	6.09	15.23	ND	
96-18-4	1,2,3-Trichloropropane	0.89	2.66	ND	5.35	16.06	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.89	2.66	ND	4.54	13.62	ND	
103-65-1	n-Propylbenzene	0.89	3.10	ND	4.36	15.28	ND	
98-82-8	Isopropylbenzene	0.89	3.10	ND	4.36	15.28	ND	
622-96-8	4-Ethyltoluene	0.89	7.09	ND	4.36	34.92	ND	
108-67-8	1,3,5-Trimethylbenzene	0.89	3.99	ND	4.36	19.64	ND	
124-18-5	Decane	0.89	2.66	ND	5.17	15.50	ND	
98-06-6	tert-butyl benzene	0.89	2.66	ND	4.87	14.62	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.89	3.99	ND	4.36	19.64	ND	
538-93-2	i-Butylbenzene	0.89	2.66	ND	4.87	14.62	ND	
135-98-8	sec-butylbenzene	0.89	3.10	ND	4.87	17.06	ND	
541-73-1	1,3-Dichlorobenzene	0.89	3.55	ND	5.34	21.35	ND	
99-87-6	Isopropyltoluene	0.89	2.66	4.43	4.87	14.62	24.37	
100-44-7	Benzyl chloride	0.89	2.22	ND	4.60	11.49	ND	
106-46-7	1,4-Dichlorobenzene	0.89	2.22	ND	5.34	13.35	ND	
104-51-8	n-Butylbenzene	0.89	2.66	ND	4.87	14.62	ND	
95-50-1	1,2-Dichlorobenzene	0.89	3.10	ND	5.34	18.68	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.33	3.10	ND	12.87	30.03	ND	
120-82-1	1,2,4-Trichlorobenzene	1.33	2.22	ND	9.88	16.47	ND	
91-20-3	Naphthalene	2.22	0.44	ND	11.64	2.33	ND	
87-61-6	1,2,3-Trichlorobenzene	1.33	2.22	ND	9.88	16.47	ND	
87-68-3	Hexachlorobutadiene	1.11	1.33	ND	11.84	14.21	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	127	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 49**

File Name: 2510049A.D
Description: T-313
Canister: 549
QC_Batch: 040325-MA1

Date Sampled: 03/21/25 **Time:** 10:31
Date Analyzed: 04/03/25 **Time:** 15:43
Can Dilution Factor: 1.25
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.04	1.08	0.72	1.80	1.85	
75-71-8	Dichlorodifluoromethane	0.63	1.04	ND	3.09	5.16	ND	
67-56-1	Methanol	2.08	2.50	15.44	2.73	3.28	20.24	
74-87-3	Chloromethane	0.63	1.04	ND	1.29	2.15	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.04	ND	2.92	7.29	ND	
75-01-4	Vinyl chloride	0.21	1.04	ND	0.54	2.67	ND	
106-99-0	1,3-Butadiene	0.21	1.04	ND	0.46	2.31	ND	
74-83-9	Bromomethane	0.42	1.04	ND	1.62	4.05	ND	
75-00-3	Chloroethane	0.42	1.04	ND	1.10	2.75	ND	
64-17-5	Ethanol	2.08	13.38	ND	3.93	25.25	ND	
107-02-8	Acrolein	0.42	1.25	3.89	0.96	2.87	8.94	
75-69-4	Trichlorofluoromethane	0.42	1.04	ND	2.34	5.86	ND	
67-64-1	Acetone	2.08	2.50	11.68	4.96	5.95	27.78	
67-63-0	2-propanol (isopropylalcohol)	0.83	5.21	ND	2.05	12.82	ND	
75-65-0	t-Butyl alcohol	0.42	4.17	ND	1.26	12.64	ND	
4227-95-6	Methyl iodide	0.42	1.25	ND	2.44	7.32	ND	
75-35-4	1,1-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
107-13-1	Acrylonitrile	0.83	1.25	ND	1.81	2.72	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.04	ND	1.60	7.99	ND	
107-05-1	Allyl chloride	0.21	4.17	ND	0.65	13.05	ND	
75-09-2	Methylene chloride	0.21	1.04	ND	0.72	3.62	ND	
75-15-0	Carbon disulfide	0.42	1.04	ND	1.30	3.25	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.83	ND	0.83	3.31	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.83	ND	1.50	3.01	ND	
107-12-0	Propionitrile	1.04	1.67	ND	2.35	3.76	ND	
75-34-3	1,1-Dichloroethane	0.21	1.04	ND	0.84	4.22	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.04	ND	1.74	4.36	ND	
108-05-4	Vinyl acetate	0.21	4.17	ND	0.73	14.69	ND	
78-93-3	2-Butanone (MEK)	0.42	1.25	1.69	1.23	3.69	4.98	
108-20-3	Diisopropyl ether	0.42	2.50	ND	1.74	10.46	ND	
110-54-3	Hexane	0.42	1.04	ND	1.47	3.68	ND	
126-98-7	Methacrylonitrile	0.42	1.04	ND	1.15	2.86	ND	
141-78-6	Ethyl acetate	0.42	1.04	ND	1.50	3.76	ND	
74-97-5	Bromochloromethane	0.21	1.04	ND	1.10	5.52	ND	
96-33-3	Methyl acrylate	0.42	2.08	ND	1.47	7.35	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.25	ND	0.62	3.69	ND	
78-83-1	Isobutyl alcohol	0.83	3.33	ND	2.53	10.12	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
594-20-7	2,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
67-66-3	Chloroform	0.21	1.04	ND	1.02	5.09	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
107-06-2	1,2-Dichloroethane	0.21	1.04	ND	0.84	4.22	ND	
563-58-6	1,1-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
110-82-7	Cyclohexane	0.21	1.04	ND	0.72	3.59	ND	
71-43-2	Benzene	1.46	2.08	3.44	4.66	6.66	11.01	
56-23-5	Carbon tetrachloride	0.21	1.04	ND	1.31	6.56	ND	
994-05-8	t-Amyl methyl ether	0.42	2.08	ND	1.74	8.72	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.04	ND	0.97	4.87	ND	
142-82-5	n-Heptane	0.42	1.04	ND	1.71	4.27	ND	
78-87-5	1,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
123-91-1	1,4 Dioxane	0.42	2.08	ND	1.50	7.52	ND	
74-95-3	Dibromomethane	0.21	1.04	ND	1.48	7.42	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.04	ND	0.56	5.61	ND	
75-27-4	Bromodichloromethane	0.21	1.04	ND	1.40	6.99	ND	
80-62-6	Methyl methacrylate	0.42	1.04	ND	1.71	4.27	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.33	0.61	1.71	13.68	2.49	J
10061-01-5	cis-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
108-88-3	Toluene	0.83	1.04	ND	3.14	3.93	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
97-63-2	Ethyl methacrylate	0.42	1.04	ND	1.95	4.87	ND	
591-78-6	2-Hexanone	0.42	3.33	ND	1.71	13.68	ND	
142-28-9	1,3-Dichloropropane	0.21	2.92	ND	0.96	13.50	ND	
111-65-9	Octane	0.42	1.04	ND	1.95	4.87	ND	
124-48-1	Dibromochloromethane	0.42	1.04	ND	3.55	8.89	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.04	ND	3.21	8.02	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.04	0.43	0.71	7.07	2.90	J
108-90-7	Chlorobenzene	0.42	1.04	ND	1.92	4.80	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.04	ND	2.86	7.16	ND	
100-41-4	Ethylbenzene	0.42	1.04	ND	1.81	4.53	ND	
1330-20-7	m,p-Xylenes	0.42	1.04	ND	1.81	4.53	ND	
111-84-2	Nonane	0.42	1.04	ND	2.19	5.47	ND	
100-42-5	Styrene	0.63	1.04	ND	2.67	4.45	ND	
75-25-2	Bromoform	0.42	1.04	ND	4.31	10.78	ND	
95-47-6	o-Xylene	0.42	1.04	ND	1.81	4.53	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.83	2.08	ND	5.73	14.32	ND	
96-18-4	1,2,3-Trichloropropane	0.83	2.50	ND	5.03	15.09	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.83	2.50	ND	4.27	12.80	ND	
103-65-1	n-Propylbenzene	0.83	2.92	ND	4.10	14.36	ND	
98-82-8	Isopropylbenzene	0.83	2.92	ND	4.10	14.36	ND	
622-96-8	4-Ethyltoluene	0.83	6.67	ND	4.10	32.82	ND	
108-67-8	1,3,5-Trimethylbenzene	0.83	3.75	ND	4.10	18.46	ND	
124-18-5	Decane	0.83	2.50	ND	4.86	14.57	ND	
98-06-6	tert-butyl benzene	0.83	2.50	ND	4.58	13.74	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.83	3.75	ND	4.10	18.46	ND	
538-93-2	i-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
135-98-8	sec-butylbenzene	0.83	2.92	ND	4.58	16.03	ND	
541-73-1	1,3-Dichlorobenzene	0.83	3.33	ND	5.02	20.07	ND	
99-87-6	Isopropyltoluene	0.83	2.50	ND	4.58	13.74	ND	
100-44-7	Benzyl chloride	0.83	2.08	ND	4.32	10.80	ND	
106-46-7	1,4-Dichlorobenzene	0.83	2.08	ND	5.02	12.54	ND	
104-51-8	n-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
95-50-1	1,2-Dichlorobenzene	0.83	2.92	ND	5.02	17.56	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.25	2.92	ND	12.10	28.23	ND	
120-82-1	1,2,4-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
91-20-3	Naphthalene	2.08	0.42	ND	10.94	2.19	ND	
87-61-6	1,2,3-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
87-68-3	Hexachlorobutadiene	1.04	1.25	ND	11.13	13.35	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	128	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 50

File Name: 2510050A.D
Description: T-314
Canister: 784
QC_Batch: 040325-MA1

Date Sampled: 03/21/25 **Time:** 10:38
Date Analyzed: 04/03/25 **Time:** 16:21
Can Dilution Factor: 1.25
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.04	1.64	0.72	1.80	2.83	
75-71-8	Dichlorodifluoromethane	0.63	1.04	ND	3.09	5.16	ND	
67-56-1	Methanol	2.08	2.50	20.10	2.73	3.28	26.34	
74-87-3	Chloromethane	0.63	1.04	ND	1.29	2.15	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.04	ND	2.92	7.29	ND	
75-01-4	Vinyl chloride	0.21	1.04	ND	0.54	2.67	ND	
106-99-0	1,3-Butadiene	0.21	1.04	ND	0.46	2.31	ND	
74-83-9	Bromomethane	0.42	1.04	ND	1.62	4.05	ND	
75-00-3	Chloroethane	0.42	1.04	ND	1.10	2.75	ND	
64-17-5	Ethanol	2.08	13.38	ND	3.93	25.25	ND	
107-02-8	Acrolein	0.42	1.25	3.24	0.96	2.87	7.44	
75-69-4	Trichlorofluoromethane	0.42	1.04	ND	2.34	5.86	ND	
67-64-1	Acetone	2.08	2.50	20.52	4.96	5.95	48.82	
67-63-0	2-propanol (isopropylalcohol)	0.83	5.21	31.97	2.05	12.82	78.68	
75-65-0	t-Butyl alcohol	0.42	4.17	ND	1.26	12.64	ND	
4227-95-6	Methyl iodide	0.42	1.25	ND	2.44	7.32	ND	
75-35-4	1,1-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
107-13-1	Acrylonitrile	0.83	1.25	ND	1.81	2.72	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.04	ND	1.60	7.99	ND	
107-05-1	Allyl chloride	0.21	4.17	ND	0.65	13.05	ND	
75-09-2	Methylene chloride	0.21	1.04	ND	0.72	3.62	ND	
75-15-0	Carbon disulfide	0.42	1.04	ND	1.30	3.25	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.83	ND	0.83	3.31	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.83	ND	1.50	3.01	ND	
107-12-0	Propionitrile	1.04	1.67	ND	2.35	3.76	ND	
75-34-3	1,1-Dichloroethane	0.21	1.04	ND	0.84	4.22	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.04	ND	1.74	4.36	ND	
108-05-4	Vinyl acetate	0.21	4.17	ND	0.73	14.69	ND	
78-93-3	2-Butanone (MEK)	0.42	1.25	2.11	1.23	3.69	6.23	
108-20-3	Diisopropyl ether	0.42	2.50	ND	1.74	10.46	ND	
110-54-3	Hexane	0.42	1.04	ND	1.47	3.68	ND	
126-98-7	Methacrylonitrile	0.42	1.04	ND	1.15	2.86	ND	
141-78-6	Ethyl acetate	0.42	1.04	ND	1.50	3.76	ND	
74-97-5	Bromochloromethane	0.21	1.04	ND	1.10	5.52	ND	
96-33-3	Methyl acrylate	0.42	2.08	ND	1.47	7.35	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.25	ND	0.62	3.69	ND	
78-83-1	Isobutyl alcohol	0.83	3.33	ND	2.53	10.12	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
594-20-7	2,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
67-66-3	Chloroform	0.21	1.04	ND	1.02	5.09	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
107-06-2	1,2-Dichloroethane	0.21	1.04	ND	0.84	4.22	ND	
563-58-6	1,1-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
110-82-7	Cyclohexane	0.21	1.04	ND	0.72	3.59	ND	
71-43-2	Benzene	1.46	2.08	3.35	4.66	6.66	10.72	
56-23-5	Carbon tetrachloride	0.21	1.04	ND	1.31	6.56	ND	
994-05-8	t-Amyl methyl ether	0.42	2.08	ND	1.74	8.72	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.04	2.48	0.97	4.87	11.59	
142-82-5	n-Heptane	0.42	1.04	0.86	1.71	4.27	3.52	J
78-87-5	1,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
123-91-1	1,4 Dioxane	0.42	2.08	ND	1.50	7.52	ND	
74-95-3	Dibromomethane	0.21	1.04	ND	1.48	7.42	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.04	ND	0.56	5.61	ND	
75-27-4	Bromodichloromethane	0.21	1.04	ND	1.40	6.99	ND	
80-62-6	Methyl methacrylate	0.42	1.04	ND	1.71	4.27	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.33	ND	1.71	13.68	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
108-88-3	Toluene	0.83	1.04	1.33	3.14	3.93	5.00	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
97-63-2	Ethyl methacrylate	0.42	1.04	ND	1.95	4.87	ND	
591-78-6	2-Hexanone	0.42	3.33	ND	1.71	13.68	ND	
142-28-9	1,3-Dichloropropane	0.21	2.92	ND	0.96	13.50	ND	
111-65-9	Octane	0.42	1.04	ND	1.95	4.87	ND	
124-48-1	Dibromochloromethane	0.42	1.04	ND	3.55	8.89	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.04	ND	3.21	8.02	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.04	2.50	0.71	7.07	16.96	
108-90-7	Chlorobenzene	0.42	1.04	ND	1.92	4.80	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.04	ND	2.86	7.16	ND	
100-41-4	Ethylbenzene	0.42	1.04	0.42	1.81	4.53	1.82	J
1330-20-7	m,p-Xylenes	0.42	1.04	1.82	1.81	4.53	7.91	
111-84-2	Nonane	0.42	1.04	17.44	2.19	5.47	91.64	
100-42-5	Styrene	0.63	1.04	ND	2.67	4.45	ND	
75-25-2	Bromoform	0.42	1.04	ND	4.31	10.78	ND	
95-47-6	o-Xylene	0.42	1.04	1.03	1.81	4.53	4.47	J
79-34-5	1,1,2,2-Tetrachloroethane	0.83	2.08	ND	5.73	14.32	ND	
96-18-4	1,2,3-Trichloropropane	0.83	2.50	ND	5.03	15.09	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.83	2.50	ND	4.27	12.80	ND	
103-65-1	n-Propylbenzene	0.83	2.92	ND	4.10	14.36	ND	
98-82-8	Isopropylbenzene	0.83	2.92	ND	4.10	14.36	ND	
622-96-8	4-Ethyltoluene	0.83	6.67	2.68	4.10	32.82	13.17	J
108-67-8	1,3,5-Trimethylbenzene	0.83	3.75	2.24	4.10	18.46	11.04	J
124-18-5	Decane	0.83	2.50	12.25	4.86	14.57	71.38	
98-06-6	tert-butyl benzene	0.83	2.50	ND	4.58	13.74	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.83	3.75	3.08	4.10	18.46	15.17	J
538-93-2	i-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
135-98-8	sec-butylbenzene	0.83	2.92	ND	4.58	16.03	ND	
541-73-1	1,3-Dichlorobenzene	0.83	3.33	ND	5.02	20.07	ND	
99-87-6	Isopropyltoluene	0.83	2.50	16.57	4.58	13.74	91.10	
100-44-7	Benzyl chloride	0.83	2.08	ND	4.32	10.80	ND	
106-46-7	1,4-Dichlorobenzene	0.83	2.08	ND	5.02	12.54	ND	
104-51-8	n-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
95-50-1	1,2-Dichlorobenzene	0.83	2.92	ND	5.02	17.56	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.25	2.92	ND	12.10	28.23	ND	
120-82-1	1,2,4-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
91-20-3	Naphthalene	2.08	0.42	ND	10.94	2.19	ND	
87-61-6	1,2,3-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
87-68-3	Hexachlorobutadiene	1.04	1.25	ND	11.13	13.35	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	129	70	130	

Section 4 Data Package

This section contains the Data Packages for the samples, blanks, and calibration. Each package has the analytical report, quantitation report, calculation sheet, instrument quantation report, and chromatograms.

Items provided in Data Package:

DAB Run Logs and Preparation Logs

Sample Packages

Blank Package for each Daily Analytical Batch

Quality Control Reports, LCS,LCD for each Daily Analytical Batch

Continuing Calibration Package for Each Daily Analytical Batch

Initial Calibration Data

DAB Run Logs and Preparation Logs

Samples are analyzed in a Daily Analytical Batch (DAB) on an instrument.
The DAB identifier is on each analytial report in the field called QC Batch.
This section contains the DAB Log Sheets and Preparation Logs.

Index

DAB Run Logs
Other Log Sheets

Daily Analytical Batch

DAB: 033125-MSA

MSA

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
033125-MSA	01	MSA	STD			C03315A		ST62126		10	MM		A1563_P			
033125-MSA	02	MSA	SPK			QC03315A		ST623255		5	MM		A1563_P			
033125-MSA	03	MSA	SPK			QC03315B		ST623255		5	MM		A1563_P			
033125-MSA	04	MSA	BLK			B03315A		HUMID BLANK		500	MM		A1563_P			
033125-MSA	05	MSA	BLK			B03315B		HUMID BLANK		500	MM		A1563_P			
033125-MSA	06	MSA	BLK			B03315C		METHOD BLANK		500	MM		A1563_P			
033125-MSA	07	MSA	BLK			B03315D		METHOD BLANK		500	MM		A1563_P			
033125-MSA	08	MSA	SA	225100	18	2510018A	553	T-118	SCHMIDT	300	MM		A1563_P			
033125-MSA	09	MSA	SA	225100	32	2510032A	553	T-214	SCHMIDT	300	MM		A1563_P			
033125-MSA	10	MSA	SA	225100	46	2510046A	771	T-310	SCHMIDT	300	DA		A1563_P			
033125-MSA	11	MSA	SA	225100	02	2510002A	895	T-102	SCHMIDT	300	DA		A1563_P			
033125-MSA	12	MSA	SA	225100	03	2510003A	881	T-103	SCHMIDT	300	DA		A1563_P			
033125-MSA	13	MSA	SA	225100	04	2510004A	860	T-104	SCHMIDT	300	LR		A1563_P			
033125-MSA	14	MSA	SA	225100	05	2510005A	685	T-105	SCHMIDT	300	LR		A1563_P			
033125-MSA	15	MSA	SA	225100	06	2510006A	621	T-106	SCHMIDT	300	LR		A1563_P			
033125-MSA	16	MSA	SA	225100	07	2510007A	644	T-107	SCHMIDT	300	LR		A1563_P			
033125-MSA	17	MSA	SA	225100	10	2510010A	837	T-110	SCHMIDT	300	LR		A1563_P			
033125-MSA	18	MSA	SA	225100	11	2510011A	504	T-111	SCHMIDT	300	LR		A1563_P			
033125-MSA	19	MSA	SA	225100	12	2510012A	631	T-112	SCHMIDT	300	LR		A1563_P			

REVIEWED

Daily Analytical Batch

DAB: **033125-MSA**

MSA

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
033125-MSA	20	MSA	SA	225100	13	2510013A	690	T-113	SCHMIDT	300	LR		A1563_P	IS VERY SMALL	X	

REVIEWED

Daily Analytical Batch

DAB: 033125-MSA

MSA

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
033125-MSA	01	MSA	STD			C03315A		ST62126		10	MM		A1563_P			
033125-MSA	02	MSA	SPK			QC03315A		ST623255		5	MM		A1563_P			
033125-MSA	03	MSA	SPK			QC03315B		ST623255		5	MM		A1563_P			
033125-MSA	04	MSA	BLK			B03315A		HUMID BLANK		500	MM		A1563_P			
033125-MSA	05	MSA	BLK			B03315B		HUMID BLANK		500	MM		A1563_P			
033125-MSA	06	MSA	BLK			B03315C		METHOD BLANK		500	MM		A1563_P			
033125-MSA	07	MSA	BLK			B03315D		METHOD BLANK		500	MM		A1563_P			
033125-MSA	08	MSA	SA	225100	18	2510018A	553	T-118	SCHMIDT	300	MM		A1563_P			
033125-MSA	09	MSA	SA	225100	32	2510032A	553	T-214	SCHMIDT	300	MM		A1563_P			
033125-MSA	10	MSA	SA	225100	46	2510046A	771	T-310	SCHMIDT	300	DA		A1563_P			
033125-MSA	11	MSA	SA	225100	02	2510002A	895	T-102	SCHMIDT	300	DA		A1563_P			
033125-MSA	12	MSA	SA	225100	03	2510003A	881	T-103	SCHMIDT	300	DA		A1563_P			
033125-MSA	13	MSA	SA	225100	04	2510004A	860	T-104	SCHMIDT	300	LR		A1563_P			
033125-MSA	14	MSA	SA	225100	05	2510005A	685	T-105	SCHMIDT	300	LR		A1563_P			
033125-MSA	15	MSA	SA	225100	06	2510006A	621	T-106	SCHMIDT	300	LR		A1563_P			
033125-MSA	16	MSA	SA	225100	07	2510007A	644	T-107	SCHMIDT	300	LR		A1563_P			
033125-MSA	17	MSA	SA	225100	10	2510010A	837	T-110	SCHMIDT	300	LR		A1563_P			
033125-MSA	18	MSA	SA	225100	11	2510011A	504	T-111	SCHMIDT	300	LR		A1563_P			
033125-MSA	19	MSA	SA	225100	12	2510012A	631	T-112	SCHMIDT	300	LR		A1563_P			

REVIEWED

Daily Analytical Batch

DAB: **033125-MSA**

MSA

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
033125-MSA	20	MSA	SA	225100	13	2510013A	690	T-113	SCHMIDT	300	LR		A1563_P	IS VERY SMALL	L	

REVIEWED

DAILY ANALYTICAL BATCH FORM

DAB 033125 - MSA

ANALYST REPORT

Method 8163-P Chemist MM

	NA	Passed	Out
Instrument Tune	☐	☒	☐
GC/MS BFBTune	☒	☐	☐
Continuing Calibration	☐	☒	☐
Instrument Blank	☐	☒	☐
LCS	☐	☒	☐
LCD	☐	☒	☐

PASSING DAB NOTES:

OUT Narrative:

Analyst Certification

Out of Limits QC Approval

DATA PROCESSING

SDG 225100

Lab ID 2-12 18, 32, 46 300 mL

Processed	
Continuing Calibration	☐
Method Blank	☑
Samples	☑
LCS/LCD	☐

Data Processing Chemist Certification

☑ Ready for Review

DATA REVIEW

Data Review Chemist Certification

☐ Reviewed

Daily Analytical Batch

DAB: 040125-MSA

MSA

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
040125-MSA	01	MSA	STD			C04015A		ST62126		10	MM		A1563_P			
040125-MSA	02	MSA	SPK			QC04015A		ST63225		5	MM		A1563_P			
040125-MSA	03	MSA	SPK			QC04015B		ST63225		5	MM		A1563_P			
040125-MSA	04	MSA	BLK			B04015A		HUMID BLANK		500	MM		A1563_P			
040125-MSA	05	MSA	BLK			B04015B		HUMID BLANK		500	MM		A1563_P			
040125-MSA	06	MSA	BLK			B04015C		METHOD BLANK		500	MM		A1563_P			
040125-MSA	07	MSA	BLK			B04015D		METHOD BLANK		500	MM		A1563_P			
040125-MSA	08	MSA	SA	225100	13	2510013A	690	T-113	SCHMIDT	300	MM		A1563_P			
040125-MSA	09	MSA	SA	225100	14	2510014A	645	T-114	SCHMIDT	300	DA		A1563_P			
040125-MSA	10	MSA	SA	225100	15	2510015A	654	T-115	SCHMIDT	300	DA		A1563_P			
040125-MSA	11	MSA	SA	225100	09	2510009A	694	T-109	SCHMIDT	300	DA		A1563_P			
040125-MSA	12	MSA	SA	225100	16	2510016A	782	T-116	SCHMIDT	300	DA		A1563_P			
040125-MSA	13	MSA	SA	225100	17	2510017A	643	T-117	SCHMIDT	300	DA		A1563_P			
040125-MSA	14	MSA	SA	225100	19	2510019A	726	T-201	SCHMIDT	300	DA		A1563_P			
040125-MSA	15	MSA	SA	225100	20	2510020A	883	T-202	SCHMIDT	300	UG		A1563_P			
040125-MSA	16	MSA	SA	225100	22	2510022A	758	T-204	SCHMIDT	300	UG		A1563_P			
040125-MSA	17	MSA	SA	225100	23	2510023A	659	T-205	SCHMIDT	300	UG		A1563_P			
040125-MSA	18	MSA	SA	225100	25	2510025A	627	T-207	SCHMIDT	300	UG		A1563_P			
040125-MSA	19	MSA	SA	225100	26	2510026A	791	T-208	SCHMIDT	300	UG		A1563_P			

REVIEWED

Daily Analytical Batch

DAB: **040125-MSA**

MSA

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
040125-MSA	20	MSA	SA	225100	27	2510027A	778	T-209	SCHMIDT	300	UG		A1563_P			

REVIEWED

DAILY ANALYTICAL BATCH FORM

DAB 040125 -MSA

ANALYST REPORT

Method A1563_D Chemist MM

	NA	Passed	Out
Instrument Tune	☐	☒	☐
GC/MS BFBTune	☒	☐	☐
Continuing Calibration	☐	☒	☐
Instrument Blank	☐	☐	☐
LCS	☐	☐	☐
LCD	☐	☐	☐

PASSING DAB NOTES:

OUT Narrative:

Analyst Certification

Out of Limits QC Approval

DATA PROCESSING

SDG 225100

Lab ID

Processed

Continuing Calibration	☐
Method Blank	☑
Samples	☐
LCS/LCD	☐

Data Processing Chemist Certification

☑ Ready for Review

DATA REVIEW

Data Review Chemist Certification

☑ Reviewed

Daily Analytical Batch

DAB: 040225-MSA

MSA

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
040225-MSA	01	MSA	STD			C04025A		ST62126		10	MM		A1563_P			
040225-MSA	02	MSA	SPK			QC04025A		ST63255		5	MM		A1563_P			
040225-MSA	03	MSA	SPK			QC04025B		ST63255		5	MM		A1563_P			
040225-MSA	04	MSA	BLK			B04025A		HUMID BLANK		500	MM		A1563_P			
040225-MSA	05	MSA	BLK			B04025B		HUMID BLANK		500	MM		A1563_P			
040225-MSA	06	MSA	BLK			B04025C		METHOD BLANK		1000	SH		A1563_P			
040225-MSA	07	MSA	BLK			B04025D		METHOD BLANK		500	DA		A1563_P			
040225-MSA	08	MSA	SA	225100	28	2510028A	714	T-210	SCHMIDT	300	DA		A1563_P			
040225-MSA	09	MSA	SA	225100	29	2510029A	629	T-211	SCHMIDT	300	DA		A1563_P			
040225-MSA	10	MSA	SA	225100	30	2510030A	502	T-212	SCHMIDT	300	DA		A1563_P			
040225-MSA	11	MSA	SA	225100	31	2510031A	712	T-213	SCHMIDT	300	DA		A1563_P			
040225-MSA	12	MSA	SA	225100	33	2510033A	751	T-215	SCHMIDT	300	DA		A1563_P			
040225-MSA	13	MSA	SA	225100	34	2510034A	896	T-216	SCHMIDT	300	DA		A1563_P			
040225-MSA	14	MSA	SA	225100	36	2510036A	698	T-218	SCHMIDT	300	DA		A1563_P			
040225-MSA	15	MSA	SA	225100	37	2510037A	638	T-301	SCHMIDT	300	DA		A1563_P			
040225-MSA	16	MSA	SA	225100	38	2510038A	857	T-302	SCHMIDT	300	SS		A1563_P			
040225-MSA	17	MSA	SA	225100	39	2510039A	552	T-303	SCHMIDT	300	SS		A1563_P			
040225-MSA	18	MSA	SA	225100	42	2510042A	859	T-306	SCHMIDT	300	SS		A1563_P			
040225-MSA	19	MSA	SA	225100	43	2510043A	636	T-307	SCHMIDT	300	SS		A1563_P			

REVIEWED

Daily Analytical Batch

DAB: **040225-MSA**

MSA

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
040225-MSA	20	MSA	SA	225100	43	2510043B	636	T-307	SCHMIDT	300	SS		A1563_P			
040225-MSA	21	MSA	SA	225100	44	2510044A	661	T-308	SCHMIDT	300	SS		A1563_P			

REVIEWED

DAILY ANALYTICAL BATCH FORM

DAB 040225 - MSA

ANALYST REPORT

Method 8151A Chemist _____

	NA	Passed	Out
Instrument Tune	☑	☐	☐
GC/MS BFBTune	☑	☐	☐
Continuing Calibration	☐	☑	☐
Instrument Blank	☐	☑	☐
LCS	☐	☑	☐
LCD	☐	☑	☐

PASSING DAB NOTES:

OUT Narrative: _____

Analyst Certification

Out of Limits QC Approval _____

DATA PROCESSING

SDG 225100

Lab ID 28-43 300 ML

Processed

Continuing Calibration	☐
Method Blank	☑
Samples	☑
LCS/LCD	☐

Data Processing Chemist Certification

☑ Ready for Review

DATA REVIEW

Data Review Chemist Certification

☑ Reviewed

FORM
DAB.v14

Daily Analytical Batch

DAB: 040325-MSA

MSA

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
040325-MSA	01	MSA	STD			C04035A		ST62126		10	MM		A1563_P			
040325-MSA	02	MSA	SPK			QC04035A		ST63255		5	MM		A1563_P			
040325-MSA	03	MSA	SPK			QC04035B		ST63255		5	MM		A1563_P			
040325-MSA	04	MSA	BLK			B04035A		HUMID BLANK		500	MM		A1563_P			
040325-MSA	05	MSA	BLK			B04035B		HUMID BLANK		500	MM		A1563_P			
040325-MSA	06	MSA	BLK			B04035C		METHOD BLANK		500	MM		A1563_P			
040325-MSA	07	MSA	BLK			B04035D		METHOD BLANK		500	MM		A1563_P			
040325-MSA	08	MSA	SA	225100	09	2510009A	694	T-109	SCHMIDT	300	MM		A1563_P	OK		
040325-MSA	09	MSA	SA	225100	45	2510045A	579	T-309	SCHMIDT	300	MM		A1563_P	OK		
040325-MSA	10	MSA	SA	225100	47	2510047A	605	T-311	SCHMIDT	300	MM		A1563_P	OK		
040325-MSA	11	MSA	SA	225100	48	2510048A	990	T-312	SCHMIDT	300	DA		A1563_P	OK		
040325-MSA	12	MSA	SA	225100	49	2510049A	549	T-313	SCHMIDT	300	DA		A1563_P	OK		
040325-MSA	13	MSA	SA	225100	50	2510050A	784	T-314	SCHMIDT	300	DA		A1563_P	OK		
040325-MSA	14	MSA	SA	225100	01	2510001A	668	T-101	SCHMIDT	300	SS		A1563_P	OK		
040325-MSA	15	MSA	SA	225100	21	2510021A	858	T-203	SCHMIDT	300	SS		A1563_P	OK		
040325-MSA	16	MSA	SA	225100	24	2510024A	882	T-206	SCHMIDT	300	SS		A1563_P	OKQ		
040325-MSA	17	MSA	SA	225100	35	2510035A	634	T-217	SCHMIDT	300	SS		A1563_P	OK		
040325-MSA	18	MSA	SA	225100	40	2510040A	529	T-304	SCHMIDT	300	SS		A1563_P	OK		
040325-MSA	19	MSA	SA	225100	41	2510041A	660	T-305	SCHMIDT	300	SS		A1563_P	OK		

REVIEWED

DAILY ANALYTICAL BATCH FORM

DAB 040325 - MSA

ANALYST REPORT

Method 8151-8 Chemist _____

	NA	Passed	Out
Instrument Tune	☑	☐	☐
GC/MS BFBTune	☑	☐	☐
Continuing Calibration	☐	☑	☐
Instrument Blank	☐	☑	☐
LCS	☐	☑	☐
LCD	☐	☑	☐

PASSING DAB NOTES:

OUT Narrative: _____

_____
Analyst Certification

Out of Limits QC Approval _____

DATA PROCESSING

300K

SDG 225100

Lab ID 21-50

	Processed
Continuing Calibration	☐
Method Blank	☑
Samples	☑
LCS/LCD	☑

_____
Data Processing Chemist Certification

☑ Ready for Review

DATA REVIEW

_____
Data Review Chemist Certification

☑ Reviewed

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 1

Client: C.E. Schmidt
Client ID: T-101
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 668
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 8:40
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	723			
Final:	871			
Factor:	1.20			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 2

Client: C.E. Schmidt
Client ID: T-102
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 895
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:50
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	734			
Final:	913			
Factor:	1.24			

LABORATORY **Analytical Test:**

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** **4/18/2025** **225100** **3**

Client: C.E. Schmidt
Client ID: T-103
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 881
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:44
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	728			
Final:	870			
Factor:	1.20			

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 4

Client: C.E. Schmidt
Client ID: T-104
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 860
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:37
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	723			
Final:	947			
Factor:	1.31			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 5

Client: C.E. Schmidt
Client ID: T-105
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 685
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:16
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	719			
Final:	882			
Factor:	1.23			

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 6

Client: C.E. Schmidt
Client ID: T-106
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 621
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:22
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	718			
Final:	880			
Factor:	1.23			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 7

Client: C.E. Schmidt
Client ID: T-107
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 644
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:22
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	720			
Final:	888			
Factor:	1.23			

LABORATORY **Analytical Test:**

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 **225100** **8**

Client: C.E. Schmidt
Client ID: T-108
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 556
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 10:30
Received: 3/21/2025 **Time:** 14:30

Date:				
Initial :	702			
Final:	886			
Factor:	1.26			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 9

Client: C.E. Schmidt
Client ID: T-109
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 694
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:25
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	713			
Final:	926			
Factor:	1.30			

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 10

Client: C.E. Schmidt
Client ID: T-110
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 857
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:32
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	707			
Final:	901			
Factor:	1.27			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 **225100** **11**

Client: C.E. Schmidt
Client ID: T-111
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 504
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 11:32
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	697			
Final:	871			
Factor:	1.25			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 12

Client: C.E. Schmidt
Client ID: T-112
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 631
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:38
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	714			
Final:	882			
Factor:	1.24			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 13

Client: C.E. Schmidt
Client ID: T-113
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 690
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:05
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	705			
Final:	870			
Factor:	1.23			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 14

Client: C.E. Schmidt
Client ID: T-114
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 645
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:11
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	701			
Final:	888			
Factor:	1.27			

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 15

Client: C.E. Schmidt
Client ID: T-115
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 654
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 12:53
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	696		
Final:	881		
Factor:	1.27		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 16

Client: C.E. Schmidt
Client ID: T-116
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 782
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 13:03
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	706			
Final:	881			
Factor:	1.25			

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 17

Client: C.E. Schmidt
Client ID: T-117
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 643
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:03
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	709		
Final:	883		
Factor:	1.25		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 18

Client: C.E. Schmidt
Client ID: T-118
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 553
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:25
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	783			
Final:	891			
Factor:	1.14			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 19

Client: C.E. Schmidt
Client ID: T-201
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 726
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 8:23
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	738			
Final:	895			
Factor:	1.21			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 20

Client: C.E. Schmidt
Client ID: T-202
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 883
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 8:38
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	739			
Final:	873			
Factor:	1.18			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 21

Client: C.E. Schmidt
Client ID: T-203
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 858
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:33
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	735			
Final:	879			
Factor:	1.20			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 **225100** **22**

Client: C.E. Schmidt
Client ID: T-204
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 758
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 8:29
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	743			
Final:	874			
Factor:	1.18			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 **225100** **23**

Client: C.E. Schmidt
Client ID: T-205
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 659
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 10:00
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	708			
Final:	897			
Factor:	1.27			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 24

Client: C.E. Schmidt
Client ID: T-206
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 882
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 9:55
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	710			
Final:	883			
Factor:	1.24			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 25

Client: C.E. Schmidt
Client ID: T-207
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 627
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 10:05
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	692			
Final:	904			
Factor:	1.31			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 26

Client: C.E. Schmidt
Client ID: T-208
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 791
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 10:08
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	709			
Final:	890			
Factor:	1.26			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 27

Client: C.E. Schmidt
Client ID: T-209
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 778
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:21
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	682			
Final:	887			
Factor:	1.30			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 28

Client: C.E. Schmidt
Client ID: T-210
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 714
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:21
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	695			
Final:	882			
Factor:	1.27			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 29

Client: C.E. Schmidt
Client ID: T-211
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 629
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:26
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	685			
Final:	881			
Factor:	1.29			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 30

Client: C.E. Schmidt
Client ID: T-212
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 502
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

	Date:			
Initial :	687			
Final:	930			
Factor:	1.35			

Sampled: 3/20/2025 **Time:** 11:30
Received: 3/21/2025 **Time:** 14:30

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 31

Client: C.E. Schmidt
Client ID: T-213
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 712
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:30
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	678			
Final:	905			
Factor:	1.33			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 32

Client: C.E. Schmidt
Client ID: T-214
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 610
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:57
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	786			
Final:	875			
Factor:	1.11			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 33

Client: C.E. Schmidt
Client ID: T-215
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 751
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:44
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	677			
Final:	874			
Factor:	1.29			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 34

Client: C.E. Schmidt
Client ID: T-216
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 896
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:46
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	632		
Final:	874		
Factor:	1.38		

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 35

Client: C.E. Schmidt
Client ID: T-217
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 634
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 12:48
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	693			
Final:	881			
Factor:	1.27			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 36

Client: C.E. Schmidt
Client ID: T-218
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 698
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:42
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	692			
Final:	877			
Factor:	1.27			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 37

Client: C.E. Schmidt
Client ID: T-301
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 638
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 7:58
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	738			
Final:	879			
Factor:	1.19			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 38

Client: C.E. Schmidt
Client ID: T-302
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 857
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 8:04
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	734		
Final:	872		
Factor:	1.19		

LABORATORY

Analytical Test:

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 39

Client: C.E. Schmidt
Client ID: T-303
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 552
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 8:05
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	727			
Final:	877			
Factor:	1.21			

LABORATORY

Analytical Test:

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 40

Client: C.E. Schmidt
Client ID: T-304
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 529
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 7:58
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	731			
Final:	878			
Factor:	1.20			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 41

Client: C.E. Schmidt
Client ID: T-305
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 660
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:22
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	709		
Final:	871		
Factor:	1.23		

LABORATORY

Analytical Test:

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 42

Client: C.E. Schmidt
Client ID: T-306
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 859
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:13
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	722			
Final:	874			
Factor:	1.21			

LABORATORY

Analytical Test:

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 43

Client: C.E. Schmidt
Client ID: T-307
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 636
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:10
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	720			
Final:	878			
Factor:	1.22			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 44

Client: C.E. Schmidt
Client ID: T-308
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 661
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:18
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	717		
Final:	875		
Factor:	1.22		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 45

Client:	C.E. Schmidt	**MS Load Vol:**	300
Client ID:	T-309	**MS SIM Vol:**	
Description:		**GCK Load Vol:**	200
Project Name:	Chiquita Canyon	**GCP Load Vol:**	
EAS Project:	17807 **EAS PM:** David Atkinson	**Sample Volume:**	

Media:	CAN	**Can Pressurization:**	**Sampled:**	3/21/2025	**Time:** 9:24
Can Number:	579		**Received:**	3/21/2025	**Time:** 14:30
FC Number:	0				
TAT Working:		**Date:**			
Sampling Time:		**Initial :**	726		
Flow:		**Final:**	877		
		Factor:	1.21		

LABORATORY **Analytical Test:** **Sample Location:** Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 46

Client: C.E. Schmidt
Client ID: T-310
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 771
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:48
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	679			
Final:	874			
Factor:	1.29			

LABORATORY

Analytical Test:

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 47

Client:	C.E. Schmidt	**MS Load Vol:**	300
Client ID:	T-311	**MS SIM Vol:**	
Description:		**GCK Load Vol:**	200
Project Name:	Chiquita Canyon	**GCP Load Vol:**	
EAS Project:	17807 **EAS PM:** David Atkinson	**Sample Volume:**	

Media:	CAN	**Can Pressurization:**	**Sampled:**	3/21/2025	**Time:** 10:35
Can Number:	605		**Received:**	3/21/2025	**Time:** 14:30
FC Number:	0				
TAT Working:		**Date:**			
Sampling Time:		**Initial :**	680		
Flow:		**Final:**	873		
		Factor:	1.28		

LABORATORY **Analytical Test:** **Sample Location:** Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 48

Client: C.E. Schmidt
Client ID: T-312
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 990
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:30
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	689		
Final:	913		
Factor:	1.33		

LABORATORY

Analytical Test:

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 49

Client: C.E. Schmidt
Client ID: T-313
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 549
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:31
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	695			
Final:	872			
Factor:	1.25			

LABORATORY

Analytical Test:

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 50

Client: C.E. Schmidt
Client ID: T-314
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 784
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:38
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	701		
Final:	876		
Factor:	1.25		

LABORATORY

Analytical Test:

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
MSA TO-15	EPA TO-15 Full List 95 + Acrolein + TIC 10	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Sample Data Packages

SDG Number **225100**

Lab Id Number **1**

Client ID T-101

Analytical Method TO-15

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Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 01**

File Name: 2510001A.D **Date Sampled:** 03/19/25 **Time:** 08:40
Description: T-101 **Date Analyzed:** 04/03/25 **Time:** 17:20
Canister: 668 **Can Dilution Factor:** 1.20
QC_Batch: 040325-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	1.00	0.47	0.69	1.72	0.81	J
75-71-8	Dichlorodifluoromethane	0.60	1.00	ND	2.97	4.95	ND	
67-56-1	Methanol	2.00	2.40	ND	2.62	3.15	ND	
74-87-3	Chloromethane	0.60	1.00	ND	1.24	2.07	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	1.00	ND	2.80	7.00	ND	
75-01-4	Vinyl chloride	0.20	1.00	ND	0.52	2.56	ND	
106-99-0	1,3-Butadiene	0.20	1.00	ND	0.45	2.22	ND	
74-83-9	Bromomethane	0.40	1.00	ND	1.55	3.89	ND	
75-00-3	Chloroethane	0.40	1.00	ND	1.06	2.64	ND	
64-17-5	Ethanol	2.00	12.84	ND	3.78	24.24	ND	
107-02-8	Acrolein	0.40	1.20	1.30	0.92	2.76	2.99	
75-69-4	Trichlorofluoromethane	0.40	1.00	ND	2.25	5.63	ND	
67-64-1	Acetone	2.00	2.40	27.93	4.76	5.71	66.47	
67-63-0	2-propanol (isopropylalcohol)	0.80	5.00	ND	1.97	12.31	ND	
75-65-0	t-Butyl alcohol	0.40	4.00	ND	1.21	12.14	ND	
4227-95-6	Methyl iodide	0.40	1.20	ND	2.34	7.02	ND	
75-35-4	1,1-Dichloroethene	0.20	1.00	ND	0.79	3.97	ND	
107-13-1	Acrylonitrile	0.80	1.20	ND	1.74	2.61	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.00	ND	1.53	7.67	ND	
107-05-1	Allyl chloride	0.20	4.00	ND	0.63	12.53	ND	
75-09-2	Methylene chloride	0.20	1.00	ND	0.70	3.48	ND	
75-15-0	Carbon disulfide	0.40	1.00	ND	1.25	3.12	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.80	ND	0.79	3.17	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.80	ND	1.44	2.89	ND	
107-12-0	Propionitrile	1.00	1.60	ND	2.26	3.61	ND	
75-34-3	1,1-Dichloroethane	0.20	1.00	ND	0.81	4.05	ND	
637-92-3	Ethyl tert butyl ether	0.40	1.00	ND	1.67	4.19	ND	
108-05-4	Vinyl acetate	0.20	4.00	ND	0.71	14.10	ND	
78-93-3	2-Butanone (MEK)	0.40	1.20	1.32	1.18	3.54	3.91	
108-20-3	Diisopropyl ether	0.40	2.40	ND	1.67	10.05	ND	
110-54-3	Hexane	0.40	1.00	ND	1.41	3.53	ND	
126-98-7	Methacrylonitrile	0.40	1.00	ND	1.10	2.75	ND	
141-78-6	Ethyl acetate	0.40	1.00	ND	1.44	3.61	ND	
74-97-5	Bromochloromethane	0.20	1.00	ND	1.06	5.30	ND	
96-33-3	Methyl acrylate	0.40	2.00	ND	1.41	7.05	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.20	ND	0.59	3.54	ND	
78-83-1	Isobutyl alcohol	0.80	3.20	ND	2.43	9.71	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.00	ND	0.79	3.97	ND	
594-20-7	2,2-Dichloropropane	0.20	1.00	ND	0.93	4.63	ND	
67-66-3	Chloroform	0.20	1.00	ND	0.98	4.89	ND	
71-55-6	1,1,1-Trichloroethane	0.20	1.00	ND	1.09	5.46	ND	
107-06-2	1,2-Dichloroethane	0.20	1.00	ND	0.81	4.05	ND	
563-58-6	1,1-Dichloropropene	0.20	1.00	ND	0.91	4.55	ND	
110-82-7	Cyclohexane	0.20	1.00	ND	0.69	3.45	ND	
71-43-2	Benzene	1.40	2.00	2.22	4.48	6.40	7.11	
56-23-5	Carbon tetrachloride	0.20	1.00	ND	1.26	6.30	ND	
994-05-8	t-Amyl methyl ether	0.40	2.00	ND	1.67	8.37	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.00	ND	0.94	4.68	ND	
142-82-5	n-Heptane	0.40	1.00	ND	1.64	4.10	ND	
78-87-5	1,2-Dichloropropane	0.20	1.00	ND	0.93	4.63	ND	
123-91-1	1,4 Dioxane	0.40	2.00	ND	1.44	7.22	ND	
74-95-3	Dibromomethane	0.20	1.00	ND	1.42	7.12	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.00	ND	0.54	5.38	ND	
75-27-4	Bromodichloromethane	0.20	1.00	ND	1.34	6.71	ND	
80-62-6	Methyl methacrylate	0.40	1.00	ND	1.64	4.10	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.20	ND	1.64	13.13	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.00	ND	0.91	4.55	ND	
108-88-3	Toluene	0.80	1.00	ND	3.02	3.77	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.00	ND	0.91	4.55	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.00	ND	1.09	5.46	ND	
97-63-2	Ethyl methacrylate	0.40	1.00	ND	1.87	4.68	ND	
591-78-6	2-Hexanone	0.40	3.20	ND	1.64	13.13	ND	
142-28-9	1,3-Dichloropropane	0.20	2.80	ND	0.93	12.96	ND	
111-65-9	Octane	0.40	1.00	ND	1.87	4.68	ND	
124-48-1	Dibromochloromethane	0.40	1.00	ND	3.41	8.53	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	1.00	ND	3.08	7.70	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.00	ND	0.68	6.79	ND	
108-90-7	Chlorobenzene	0.40	1.00	ND	1.84	4.61	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	1.00	ND	2.75	6.87	ND	
100-41-4	Ethylbenzene	0.40	1.00	ND	1.74	4.35	ND	
1330-20-7	m,p-Xylenes	0.40	1.00	ND	1.74	4.35	ND	
111-84-2	Nonane	0.40	1.00	ND	2.10	5.25	ND	
100-42-5	Styrene	0.60	1.00	ND	2.56	4.27	ND	
75-25-2	Bromoform	0.40	1.00	ND	4.14	10.35	ND	
95-47-6	o-Xylene	0.40	1.00	ND	1.74	4.35	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.80	2.00	ND	5.50	13.74	ND	
96-18-4	1,2,3-Trichloropropane	0.80	2.40	ND	4.83	14.49	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.80	2.40	ND	4.10	12.29	ND	
103-65-1	n-Propylbenzene	0.80	2.80	ND	3.94	13.78	ND	
98-82-8	Isopropylbenzene	0.80	2.80	ND	3.94	13.78	ND	
622-96-8	4-Ethyltoluene	0.80	6.40	ND	3.94	31.51	ND	
108-67-8	1,3,5-Trimethylbenzene	0.80	3.60	ND	3.94	17.72	ND	
124-18-5	Decane	0.80	2.40	ND	4.66	13.99	ND	
98-06-6	tert-butyl benzene	0.80	2.40	ND	4.40	13.19	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.80	3.60	ND	3.94	17.72	ND	
538-93-2	i-Butylbenzene	0.80	2.40	ND	4.40	13.19	ND	
135-98-8	sec-butylbenzene	0.80	2.80	ND	4.40	15.39	ND	
541-73-1	1,3-Dichlorobenzene	0.80	3.20	ND	4.82	19.27	ND	
99-87-6	Isopropyltoluene	0.80	2.40	ND	4.40	13.19	ND	
100-44-7	Benzyl chloride	0.80	2.00	ND	4.15	10.37	ND	
106-46-7	1,4-Dichlorobenzene	0.80	2.00	ND	4.82	12.04	ND	
104-51-8	n-Butylbenzene	0.80	2.40	ND	4.40	13.19	ND	
95-50-1	1,2-Dichlorobenzene	0.80	2.80	ND	4.82	16.86	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.20	2.80	ND	11.61	27.10	ND	
120-82-1	1,2,4-Trichlorobenzene	1.20	2.00	ND	8.92	14.86	ND	
91-20-3	Naphthalene	2.00	0.40	ND	10.50	2.10	ND	
87-61-6	1,2,3-Trichlorobenzene	1.20	2.00	ND	8.92	14.86	ND	
87-68-3	Hexachlorobutadiene	1.00	1.20	ND	10.68	12.82	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	100	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**01**		
File Name:	2510001A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/19/25**	**Time:**	**8:40**
Sample ID:	T-101	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/03/25**	**Time:**	**17:20**
Anal Date:	3 Apr 125 5:20 pm	**SF:**	**2**	**QCbatch:**	**040325-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**668**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.20**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	SS	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.117	4.41	42.00	24571
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.000	4.86	31.00	0
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.325	6.32	56.00	35845
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	6.983	6.42	58.00	1416773
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.035	6.45	45.00	29307
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.331	8.75	72.00	56267
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.556	10.70	78.00	584683
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.162	13.50	91.00	237529
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.020	15.90	106	29462
1330-20-7	m,p-Xylenes	75	TRG	0.063	16.06	91.00	80834
111-84-2	Nonane	76	TRG	0.021	16.43	57.00	21909
100-42-5	Styrene	77	TRG	0.057	16.61	104.00	50936
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.029	16.56	91.00	38343
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.028	18.23	105.00	72731
622-96-8	4-Ethyltoluene	85	TRG	0.032	18.23	105.00	55570
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.037	18.31	105.00	57866
124-18-5	Decane	87	TRG	0.034	18.60	57.00	64226
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.038	18.95	105.00	62757
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.008	20.20	91.00	21512
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**17013664**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**19590735**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**16188434**
2037-26-5	Toluene-d8	103	SURR	10.001	13.40	98.00	**12044323**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**01**
File Name:	2510001A.D
Run Method:	A1563_P.M
Can Factor:	1.20
Air Volume:	300.0 ml
Can/Tube Number:	668
Dilution Factor:	0.3600
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3600
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.12	0.47	0.81	0.47	0.81	0.81	0.81	0.100	0.250	0.40	0.69	1.00
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.60	2.97	1.00
Methanol	32.0	0.00	0.00	0.00	ND	ND	0		0.500	0.600	2.00	2.62	2.40
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.60	1.24	1.00
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.80	1.00
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.52	1.00
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.45	1.00
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.55	1.00
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.06	1.00
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	2.00	3.78	12.84
Acrolein	56.1	0.33	1.30	2.99	1.30	2.99	2.99	2.99	0.100	0.300	0.40	0.92	1.20
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.25	1.00
Acetone	58.1	6.98	27.93	66.47	27.93	66.47	66.47	66.47	0.500	0.600	2.00	4.76	2.40
2-propanol (isopropylalcohol)	60.1	0.03	0.14	0.34	ND	ND	0		0.200	1.250	0.80	1.97	5.00
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.40	1.21	4.00
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.40	2.34	1.20
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.79	1.00
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.80	1.74	1.20
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.53	1.00
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.63	4.00
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.70	1.00
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.25	1.00
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.20	0.79	0.80
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.40	1.44	0.80
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.00	2.26	1.60
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.81	1.00
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.67	1.00
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.71	4.00
2-Butanone (MEK)	72.1	0.33	1.32	3.91	1.32	3.91	3.91	3.91	0.100	0.300	0.40	1.18	1.20
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.40	1.67	2.40
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.41	1.00
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.10	1.00
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.44	1.00
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.06	1.00
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.41	2.00
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.20	0.59	1.20
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.80	2.43	3.20
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.79	1.00
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.93	1.00
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.98	1.00
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.09	1.00
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.81	1.00
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.91	1.00
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.69	1.00
Benzene	78.1	0.56	2.22	7.11	2.22	7.11	7.11	7.11	0.350	0.500	1.40	4.48	2.00
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.26	1.00
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.67	2.00
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.94	1.00
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.64	1.00

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.93	1.00
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.44	2.00
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.42	1.00
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.54	1.00
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.34	1.00
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.64	1.00
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.40	1.64	3.20
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.91	1.00
Toluene	92.1	0.16	0.65	2.44	ND	ND	0		0.200	0.250	0.80	3.02	1.00
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.91	1.00
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.09	1.00
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.87	1.00
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.40	1.64	3.20
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.20	0.93	2.80
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.87	1.00
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	3.41	1.00
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	3.08	1.00
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.68	1.00
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.84	1.00
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.75	1.00
Ethylbenzene	106.2	0.02	0.08	0.36	ND	ND	0		0.100	0.250	0.40	1.74	1.00
m,p-Xylenes	106.2	0.06	0.25	1.09	ND	ND	0		0.100	0.250	0.40	1.74	1.00
Nonane	128.3	0.02	0.08	0.45	ND	ND	0		0.100	0.250	0.40	2.10	1.00
Styrene	104.2	0.06	0.23	0.97	ND	ND	0		0.150	0.250	0.60	2.56	1.00
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	4.14	1.00
o-Xylene	106.2	0.03	0.11	0.50	ND	ND	0		0.100	0.250	0.40	1.74	1.00
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.80	5.50	2.00
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.80	4.83	2.40
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.80	4.10	2.40
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.80	3.94	2.80
Isopropylbenzene	120.2	0.03	0.11	0.55	ND	ND	0		0.200	0.700	0.80	3.94	2.80
4-Ethyltoluene	120.2	0.03	0.13	0.62	ND	ND	0		0.200	1.600	0.80	3.94	6.40
1,3,5-Trimethylbenzene	120.2	0.04	0.15	0.72	ND	ND	0		0.200	0.900	0.80	3.94	3.60
Decane	142.3	0.03	0.14	0.79	ND	ND	0		0.200	0.600	0.80	4.66	2.40
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.80	4.40	2.40
1,2,4-Trimethylbenzene	120.2	0.04	0.15	0.74	ND	ND	0		0.200	0.900	0.80	3.94	3.60
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.80	4.40	2.40
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.80	4.40	2.80
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.80	4.82	3.20
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.80	4.40	2.40
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.80	4.15	2.00
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.80	4.82	2.00
n-Butylbenzene	134.2	0.01	0.03	0.18	ND	ND	0		0.200	0.600	0.80	4.40	2.40
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.80	4.82	2.80
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.20	11.61	2.80
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.20	8.92	2.00
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.00	10.50	0.40
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.20	8.92	2.00
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.00	10.68	1.20
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		10.00	100	100	100	100	100	100	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.72	J	J		=		Y	0.47	0.81
4.95	U	ND		ND		Y	0.00	0.00
3.15	U	ND		ND		Y	0.00	0.00
2.07	U	ND		ND		Y	0.00	0.00
7.00	U	ND		ND		Y	0.00	0.00
2.56	U	ND		ND		Y	0.00	0.00
2.22	U	ND		ND		Y	0.00	0.00
3.89	U	ND		ND		Y	0.00	0.00
2.64	U	ND		ND		Y	0.00	0.00
24.24	U	ND		ND		Y	0.00	0.00
2.76				=		Y	1.30	2.99
5.63	U	ND		ND		Y	0.00	0.00
5.71				=		Y	27.93	66.47
12.31	U	ND		ND		Y	0.00	0.00
12.14	U	ND		ND		Y	0.00	0.00
7.02	U	ND		ND		Y	0.00	0.00
3.97	U	ND		ND		Y	0.00	0.00
2.61	U	ND		ND		Y	0.00	0.00
7.67	U	ND		ND		Y	0.00	0.00
12.53	U	ND		ND		Y	0.00	0.00
3.48	U	ND		ND		Y	0.00	0.00
3.12	U	ND		ND		Y	0.00	0.00
3.17	U	ND		ND		Y	0.00	0.00
2.89	U	ND		ND		Y	0.00	0.00
3.61	U	ND		ND		Y	0.00	0.00
4.05	U	ND		ND		Y	0.00	0.00
4.19	U	ND		ND		Y	0.00	0.00
14.10	U	ND		ND		Y	0.00	0.00
3.54				=		Y	1.32	3.91
10.05	U	ND		ND		Y	0.00	0.00
3.53	U	ND		ND		Y	0.00	0.00
2.75	U	ND		ND		Y	0.00	0.00
3.61	U	ND		ND		Y	0.00	0.00
5.30	U	ND		ND		Y	0.00	0.00
7.05	U	ND		ND		Y	0.00	0.00
3.54	U	ND		ND		Y	0.00	0.00
9.71	U	ND		ND		Y	0.00	0.00
3.97	U	ND		ND		Y	0.00	0.00
4.63	U	ND		ND		Y	0.00	0.00
4.89	U	ND		ND		Y	0.00	0.00
5.46	U	ND		ND		Y	0.00	0.00
4.05	U	ND		ND		Y	0.00	0.00
4.55	U	ND		ND		Y	0.00	0.00
3.45	U	ND		ND		Y	0.00	0.00
6.40				=		Y	2.22	7.11
6.30	U	ND		ND		Y	0.00	0.00
8.37	U	ND		ND		Y	0.00	0.00
4.68	U	ND		ND		Y	0.00	0.00
4.10	U	ND		ND		Y	0.00	0.00

4.63	U	ND	ND	Y	0.00	0.00
7.22	U	ND	ND	Y	0.00	0.00
7.12	U	ND	ND	Y	0.00	0.00
5.38	U	ND	ND	Y	0.00	0.00
6.71	U	ND	ND	Y	0.00	0.00
4.10	U	ND	ND	Y	0.00	0.00
13.13	U	ND	ND	Y	0.00	0.00
4.55	U	ND	ND	Y	0.00	0.00
3.77	U	ND	ND	Y	0.00	0.00
4.55	U	ND	ND	Y	0.00	0.00
5.46	U	ND	ND	Y	0.00	0.00
4.68	U	ND	ND	Y	0.00	0.00
13.13	U	ND	ND	Y	0.00	0.00
12.96	U	ND	ND	Y	0.00	0.00
4.68	U	ND	ND	Y	0.00	0.00
8.53	U	ND	ND	Y	0.00	0.00
7.70	U	ND	ND	Y	0.00	0.00
6.79	U	ND	ND	Y	0.00	0.00
4.61	U	ND	ND	Y	0.00	0.00
6.87	U	ND	ND	Y	0.00	0.00
4.35	U	ND	ND	Y	0.00	0.00
4.35	U	ND	ND	Y	0.00	0.00
5.25	U	ND	ND	Y	0.00	0.00
4.27	U	ND	ND	Y	0.00	0.00
10.35	U	ND	ND	Y	0.00	0.00
4.35	U	ND	ND	Y	0.00	0.00
13.74	U	ND	ND	Y	0.00	0.00
14.49	U	ND	ND	Y	0.00	0.00
12.29	U	ND	ND	Y	0.00	0.00
13.78	U	ND	ND	Y	0.00	0.00
13.78	U	ND	ND	Y	0.00	0.00
31.51	U	ND	ND	Y	0.00	0.00
17.72	U	ND	ND	Y	0.00	0.00
13.99	U	ND	ND	Y	0.00	0.00
13.19	U	ND	ND	Y	0.00	0.00
17.72	U	ND	ND	Y	0.00	0.00
13.19	U	ND	ND	Y	0.00	0.00
15.39	U	ND	ND	Y	0.00	0.00
19.27	U	ND	ND	Y	0.00	0.00
13.19	U	ND	ND	Y	0.00	0.00
10.37	U	ND	ND	Y	0.00	0.00
12.04	U	ND	ND	Y	0.00	0.00
13.19	U	ND	ND	Y	0.00	0.00
16.86	U	ND	ND	Y	0.00	0.00
27.10	U	ND	ND	Y	0.00	0.00
14.86	U	ND	ND	Y	0.00	0.00
2.10	U	ND	ND	Y	0.00	0.00
14.86	U	ND	ND	Y	0.00	0.00
12.82	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**01**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.20
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum (Astdni) (Cistdi) / (Cstdni) (Aistdi) i — Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

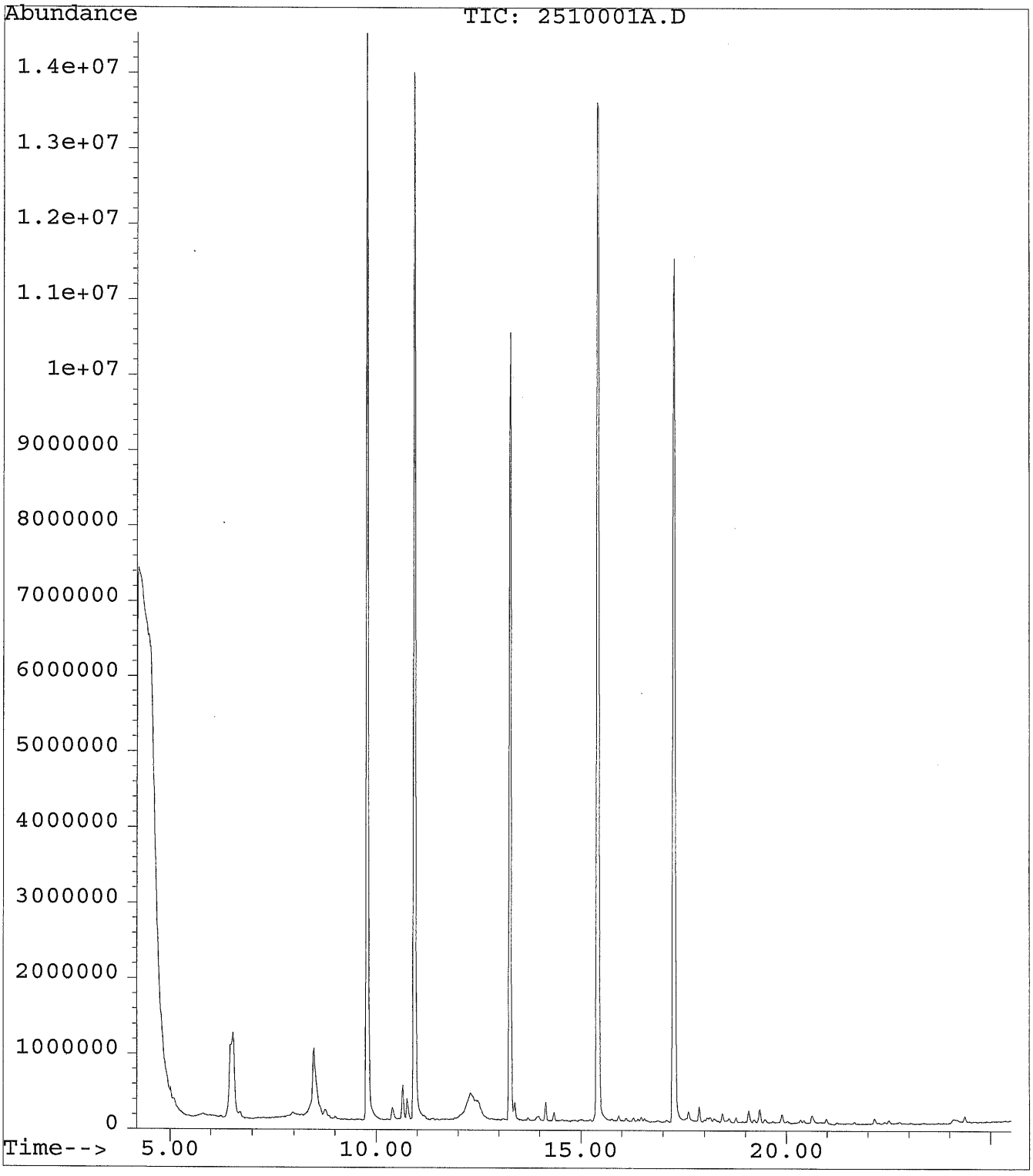
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	24571	20.0	17013664	0.117	0.47	0.81
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	17013664	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	0	20.0	17013664	0.000	0.00	0.00
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	17013664	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	17013664	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	17013664	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	17013664	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	17013664	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	17013664	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	0	20.0	17013664	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.130	35845	20.0	17013664	0.325	1.30	2.99
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	17013664	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	1416773	20.0	17013664	6.983	27.93	66.47
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	29307	20.0	17013664	0.035	0.14	0.34
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	17013664	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	17013664	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	17013664	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	17013664	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	17013664	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	17013664	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	17013664	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	17013664	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	17013664	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	17013664	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	17013664	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	17013664	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	17013664	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	17013664	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	56267	20.0	17013664	0.331	1.32	3.91
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	17013664	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	17013664	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	17013664	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	17013664	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	17013664	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	17013664	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	17013664	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	17013664	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	17013664	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	17013664	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	17013664	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	19590735	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	19590735	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	19590735	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	19590735	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	584683	20.0	19590735	0.556	2.22	7.11
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	19590735	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	19590735	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	19590735	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	19590735	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	19590735	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	19590735	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	19590735	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	19590735	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	19590735	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	19590735	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	19590735	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	19590735	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	237529	20.0	19590735	0.162	0.65	2.44
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	19590735	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	19590735	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	19590735	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	19590735	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	19590735	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	19590735	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	19590735	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	19590735	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	19590735	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	16188434	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	16188434	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	29462	20.0	16188434	0.020	0.08	0.36
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	80834	20.0	16188434	0.063	0.25	1.09
76	Nonane	d5CB	TRG	128.3	1.278	21909	20.0	16188434	0.021	0.08	0.45
77	Styrene	d5CB	TRG	104.2	1.106	50936	20.0	16188434	0.057	0.23	0.97
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	16188434	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	38343	20.0	16188434	0.029	0.11	0.50
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	16188434	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	16188434	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	16188434	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	16188434	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	72731	20.0	16188434	0.028	0.11	0.55

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	55570	20.0	16188434	0.032	0.13	0.62
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	57866	20.0	16188434	0.037	0.15	0.72
87	Decane	d5CB	TRG	142.3	2.327	64226	20.0	16188434	0.034	0.14	0.79
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	16188434	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	62757	20.0	16188434	0.038	0.15	0.74
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	16188434	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	16188434	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	16188434	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	16188434	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	16188434	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	16188434	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	21512	20.0	16188434	0.008	0.03	0.18
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	16188434	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	16188434	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	16188434	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	16188434	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	16188434	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	16188434	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	17013664	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	19590735	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	16188434	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	12044323	10.0		10.001	100.01	100

File : C:\MSCHEM\1\DATA\04035A_C\2510001A.D
Operator : SS
Acquired : 3 Apr 125 5:20 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-101
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **2**

Client ID T-102

Analytical Method TO-15

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Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 02

File Name: 2510002A.D
Description: T-102
Canister: 895
QC_Batch: 033125-MA1

Date Sampled: 03/19/25 **Time:** 08:50
Date Analyzed: 03/31/25 **Time:** 15:11
Can Dilution Factor: 1.24
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.41	1.03	ND	0.71	1.78	ND	
75-71-8	Dichlorodifluoromethane	0.62	1.03	ND	3.07	5.12	ND	
67-56-1	Methanol	2.07	2.48	ND	2.71	3.25	ND	
74-87-3	Chloromethane	0.62	1.03	ND	1.28	2.14	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.41	1.03	ND	2.89	7.23	ND	
75-01-4	Vinyl chloride	0.21	1.03	ND	0.53	2.65	ND	
106-99-0	1,3-Butadiene	0.21	1.03	ND	0.46	2.29	ND	
74-83-9	Bromomethane	0.41	1.03	ND	1.61	4.02	ND	
75-00-3	Chloroethane	0.41	1.03	ND	1.09	2.73	ND	
64-17-5	Ethanol	2.07	13.27	2.21	3.90	25.05	4.17	J
107-02-8	Acrolein	0.41	1.24	ND	0.95	2.85	ND	
75-69-4	Trichlorofluoromethane	0.41	1.03	ND	2.33	5.81	ND	
67-64-1	Acetone	2.07	2.48	2.39	4.92	5.90	5.68	J
67-63-0	2-propanol (isopropylalcohol)	0.83	5.17	ND	2.03	12.72	ND	
75-65-0	t-Butyl alcohol	0.41	4.13	ND	1.25	12.54	ND	
4227-95-6	Methyl iodide	0.41	1.24	ND	2.42	7.26	ND	
75-35-4	1,1-Dichloroethene	0.21	1.03	ND	0.82	4.10	ND	
107-13-1	Acrylonitrile	0.83	1.24	ND	1.80	2.70	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.03	ND	1.59	7.93	ND	
107-05-1	Allyl chloride	0.21	4.13	ND	0.65	12.95	ND	
75-09-2	Methylene chloride	0.21	1.03	ND	0.72	3.59	ND	
75-15-0	Carbon disulfide	0.41	1.03	ND	1.29	3.22	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.83	ND	0.82	3.28	ND	
1634-04-4	Methyl tert butyl ether	0.41	0.83	ND	1.49	2.98	ND	
107-12-0	Propionitrile	1.03	1.65	ND	2.33	3.73	ND	
75-34-3	1,1-Dichloroethane	0.21	1.03	ND	0.84	4.19	ND	
637-92-3	Ethyl tert butyl ether	0.41	1.03	ND	1.73	4.33	ND	
108-05-4	Vinyl acetate	0.21	4.13	ND	0.73	14.58	ND	
78-93-3	2-Butanone (MEK)	0.41	1.24	ND	1.22	3.66	ND	
108-20-3	Diisopropyl ether	0.41	2.48	ND	1.73	10.38	ND	
110-54-3	Hexane	0.41	1.03	ND	1.46	3.65	ND	
126-98-7	Methacrylonitrile	0.41	1.03	ND	1.14	2.84	ND	
141-78-6	Ethyl acetate	0.41	1.03	ND	1.49	3.73	ND	
74-97-5	Bromochloromethane	0.21	1.03	ND	1.10	5.48	ND	
96-33-3	Methyl acrylate	0.41	2.07	ND	1.46	7.29	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.24	ND	0.61	3.66	ND	
78-83-1	Isobutyl alcohol	0.83	3.31	ND	2.51	10.03	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.03	ND	0.82	4.10	ND	
594-20-7	2,2-Dichloropropane	0.21	1.03	ND	0.96	4.78	ND	
67-66-3	Chloroform	0.21	1.03	ND	1.01	5.05	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.03	ND	1.13	5.65	ND	
107-06-2	1,2-Dichloroethane	0.21	1.03	ND	0.84	4.19	ND	
563-58-6	1,1-Dichloropropene	0.21	1.03	ND	0.94	4.70	ND	
110-82-7	Cyclohexane	0.21	1.03	ND	0.71	3.56	ND	
71-43-2	Benzene	1.45	2.07	ND	4.63	6.61	ND	
56-23-5	Carbon tetrachloride	0.21	1.03	ND	1.30	6.51	ND	
994-05-8	t-Amyl methyl ether	0.41	2.07	ND	1.73	8.65	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.03	ND	0.97	4.83	ND	
142-82-5	n-Heptane	0.41	1.03	ND	1.70	4.24	ND	
78-87-5	1,2-Dichloropropane	0.21	1.03	ND	0.96	4.78	ND	
123-91-1	1,4 Dioxane	0.41	2.07	ND	1.49	7.46	ND	
74-95-3	Dibromomethane	0.21	1.03	ND	1.47	7.36	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.03	ND	0.56	5.56	ND	
75-27-4	Bromodichloromethane	0.21	1.03	ND	1.39	6.93	ND	
80-62-6	Methyl methacrylate	0.41	1.03	ND	1.69	4.24	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.41	3.31	ND	1.70	13.57	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.03	ND	0.94	4.70	ND	
108-88-3	Toluene	0.83	1.03	ND	3.12	3.90	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.03	ND	0.94	4.70	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.03	ND	1.13	5.65	ND	
97-63-2	Ethyl methacrylate	0.41	1.03	ND	1.93	4.83	ND	
591-78-6	2-Hexanone	0.41	3.31	ND	1.70	13.57	ND	
142-28-9	1,3-Dichloropropane	0.21	2.89	ND	0.96	13.39	ND	
111-65-9	Octane	0.41	1.03	ND	1.93	4.83	ND	
124-48-1	Dibromochloromethane	0.41	1.03	ND	3.53	8.82	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.41	1.03	ND	3.18	7.95	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.03	ND	0.70	7.02	ND	
108-90-7	Chlorobenzene	0.41	1.03	ND	1.91	4.77	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.41	1.03	ND	2.84	7.10	ND	
100-41-4	Ethylbenzene	0.41	1.03	ND	1.80	4.49	ND	
1330-20-7	m,p-Xylenes	0.41	1.03	ND	1.80	4.49	ND	
111-84-2	Nonane	0.41	1.03	ND	2.17	5.43	ND	
100-42-5	Styrene	0.62	1.03	ND	2.65	4.41	ND	
75-25-2	Bromoform	0.41	1.03	ND	4.28	10.69	ND	
95-47-6	o-Xylene	0.41	1.03	ND	1.80	4.49	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.83	2.07	ND	5.68	14.20	ND	
96-18-4	1,2,3-Trichloropropane	0.83	2.48	ND	4.99	14.97	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.83	2.48	ND	4.23	12.70	ND	
103-65-1	n-Propylbenzene	0.83	2.89	ND	4.07	14.24	ND	
98-82-8	Isopropylbenzene	0.83	2.89	ND	4.07	14.24	ND	
622-96-8	4-Ethyltoluene	0.83	6.61	ND	4.07	32.56	ND	
108-67-8	1,3,5-Trimethylbenzene	0.83	3.72	ND	4.07	18.31	ND	
124-18-5	Decane	0.83	2.48	ND	4.82	14.45	ND	
98-06-6	tert-butyl benzene	0.83	2.48	ND	4.54	13.63	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.83	3.72	ND	4.07	18.31	ND	
538-93-2	i-Butylbenzene	0.83	2.48	ND	4.54	13.63	ND	
135-98-8	sec-butylbenzene	0.83	2.89	ND	4.54	15.90	ND	
541-73-1	1,3-Dichlorobenzene	0.83	3.31	ND	4.98	19.91	ND	
99-87-6	Isopropyltoluene	0.83	2.48	ND	4.54	13.63	ND	
100-44-7	Benzyl chloride	0.83	2.07	ND	4.29	10.72	ND	
106-46-7	1,4-Dichlorobenzene	0.83	2.07	ND	4.98	12.44	ND	
104-51-8	n-Butylbenzene	0.83	2.48	ND	4.54	13.63	ND	
95-50-1	1,2-Dichlorobenzene	0.83	2.89	ND	4.98	17.42	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.24	2.89	ND	12.00	28.00	ND	
120-82-1	1,2,4-Trichlorobenzene	1.24	2.07	ND	9.21	15.35	ND	
91-20-3	Naphthalene	2.07	0.41	ND	10.85	2.17	ND	
87-61-6	1,2,3-Trichlorobenzene	1.24	2.07	ND	9.21	15.35	ND	
87-68-3	Hexachlorobutadiene	1.03	1.24	ND	11.04	13.24	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	103	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**02**		
File Name:	2510002A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/19/25**	**Time:**	**8:50**
Sample ID:	T-102	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**03/31/25**	**Time:**	**15:11**
Anal Date:	31 Mar 125 3:11 pm	**SF:**	**2**	**QCbatch:**	**033125-MA1**		
Quant Method:	A1563_N.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**895**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.24**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	DA	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.000	4.41	42.00	0
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.151	4.86	31.00	110755
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.534	5.72	46.00	50731
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	0.578	6.42	58.00	92025
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.097	10.70	78.00	82447
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.101	13.50	91.00	119627
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.000	15.90	106	0
1330-20-7	m,p-Xylenes	75	TRG	0.000	16.06	91.00	0
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.000	16.61	104.00	0
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	0.00	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.000	18.31	105.00	0
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.000	18.95	105.00	0
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**13360409**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**15829282**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**17511960**
2037-26-5	Toluene-d8	103	SURR	10.296	13.40	98.00	**10018885**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**		EDD SURR:	PERCENT		IS LCL	50		Gas Constant						
Laboratory Number:	**02**		Sam Type:	SA		IS UCL	200		T	24.5					
File Name:	2510002A.D		Instrument:	MA1		SUR LCL	70		P	760					
Run Method:	A1563_P.M		DETECT:	ND		SUR UCL	130		MV	24.417					
Can Factor:	1.24		Matrix:	AA		MDL Factor	1.0		GC	24.417					
Air Volume:	300.0	ml	Type:	TRG		E Flag	1.3								
Can/Tube Number:	895		Diluton:	0.3720											
Dilution Factor:	0.3720		Sig Figs:	2											
Base Volume:	1000	ml	MDLSF:	2											
Unit Factor (ppbv):	1000	PPBV	UG/M3		Fixed	Fixed	Fixed	Fixed	(1)	(2)	Calc	Calc	Calc		
	M.W.	Raw	ResultV	Result	Result	Result	ResultQ	ResultG	MDL	RL	MDL	MDL	RL		
Compound		Amount	PPBV	UG/M3	PPBV	UG/M3	UG/M3	UG/M3		PPBV	PPBV	UG/M3	PPBV		
Propylene	42.08	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	0.71	1.03		
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.62	3.07	1.03		
Methanol	32.0	0.15	0.62	0.82	ND	ND	0		0.500	0.600	2.07	2.71	2.48		
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.62	1.28	1.03		
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.89	1.03		
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.53	1.03		
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.46	1.03		
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.61	1.03		
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.09	1.03		
Ethanol	46.1	0.53	2.21	4.17	2.21	4.17	4.17	4.17	0.500	3.210	2.07	3.90	13.27		
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.41	0.95	1.24		
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.33	1.03		
Acetone	58.1	0.58	2.39	5.68	2.39	5.68	5.68	5.68	0.500	0.600	2.07	4.92	2.48		
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		0.200	1.250	0.83	2.03	5.17		
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.41	1.25	4.13		
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.41	2.42	1.24		
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.82	1.03		
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.83	1.80	1.24		
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.59	1.03		
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.65	4.13		
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.72	1.03		
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.29	1.03		
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.21	0.82	0.83		
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.41	1.49	0.83		
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.03	2.33	1.65		
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.03		
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.73	1.03		
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.73	4.13		
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.41	1.22	1.24		
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.41	1.73	2.48		
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.46	1.03		
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.14	1.03		
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.49	1.03		
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.10	1.03		
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.46	2.07		
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.21	0.61	1.24		
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.83	2.51	3.31		
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.82	1.03		
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.03		
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.01	1.03		
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.13	1.03		
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.03		
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.94	1.03		
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.71	1.03		
Benzene	78.1	0.10	0.40	1.28	ND	ND	0		0.350	0.500	1.45	4.63	2.07		
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.30	1.03		
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.73	2.07		
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.97	1.03		
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.70	1.03		

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.03
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.49	2.07
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.47	1.03
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.56	1.03
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.39	1.03
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.69	1.03
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.41	1.70	3.31
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.94	1.03
Toluene	92.1	0.10	0.42	1.57	ND	ND	0		0.200	0.250	0.83	3.12	1.03
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.94	1.03
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.13	1.03
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.93	1.03
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.41	1.70	3.31
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.21	0.96	2.89
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.93	1.03
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	3.53	1.03
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	3.18	1.03
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.70	1.03
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.91	1.03
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.84	1.03
Ethylbenzene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.80	1.03
m,p-Xylenes	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.80	1.03
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.17	1.03
Styrene	104.2	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.62	2.65	1.03
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	4.28	1.03
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.80	1.03
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.83	5.68	2.07
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.99	2.48
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.23	2.48
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.07	2.89
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.07	2.89
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.83	4.07	6.61
1,3,5-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.83	4.07	3.72
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.82	2.48
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.54	2.48
1,2,4-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.83	4.07	3.72
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.54	2.48
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.54	2.89
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.83	4.98	3.31
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.54	2.48
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.83	4.29	2.07
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.83	4.98	2.07
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.54	2.48
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.98	2.89
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.24	12.00	2.89
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.24	9.21	2.07
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.07	10.85	0.41
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.24	9.21	2.07
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.03	11.04	1.24
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		10.30	103	103	103	103	103	103	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.78	U	ND		ND		Y	0.00	0.00
5.12	U	ND		ND		Y	0.00	0.00
3.25	U	ND		ND		Y	0.00	0.00
2.14	U	ND		ND		Y	0.00	0.00
7.23	U	ND		ND		Y	0.00	0.00
2.65	U	ND		ND		Y	0.00	0.00
2.29	U	ND		ND		Y	0.00	0.00
4.02	U	ND		ND		Y	0.00	0.00
2.73	U	ND		ND		Y	0.00	0.00
25.05	J	J		=		Y	2.21	4.17
2.85	U	ND		ND		Y	0.00	0.00
5.81	U	ND		ND		Y	0.00	0.00
5.90	J	J		=		Y	2.39	5.68
12.72	U	ND		ND		Y	0.00	0.00
12.54	U	ND		ND		Y	0.00	0.00
7.26	U	ND		ND		Y	0.00	0.00
4.10	U	ND		ND		Y	0.00	0.00
2.70	U	ND		ND		Y	0.00	0.00
7.93	U	ND		ND		Y	0.00	0.00
12.95	U	ND		ND		Y	0.00	0.00
3.59	U	ND		ND		Y	0.00	0.00
3.22	U	ND		ND		Y	0.00	0.00
3.28	U	ND		ND		Y	0.00	0.00
2.98	U	ND		ND		Y	0.00	0.00
3.73	U	ND		ND		Y	0.00	0.00
4.19	U	ND		ND		Y	0.00	0.00
4.33	U	ND		ND		Y	0.00	0.00
14.58	U	ND		ND		Y	0.00	0.00
3.66	U	ND		ND		Y	0.00	0.00
10.38	U	ND		ND		Y	0.00	0.00
3.65	U	ND		ND		Y	0.00	0.00
2.84	U	ND		ND		Y	0.00	0.00
3.73	U	ND		ND		Y	0.00	0.00
5.48	U	ND		ND		Y	0.00	0.00
7.29	U	ND		ND		Y	0.00	0.00
3.66	U	ND		ND		Y	0.00	0.00
10.03	U	ND		ND		Y	0.00	0.00
4.10	U	ND		ND		Y	0.00	0.00
4.78	U	ND		ND		Y	0.00	0.00
5.05	U	ND		ND		Y	0.00	0.00
5.65	U	ND		ND		Y	0.00	0.00
4.19	U	ND		ND		Y	0.00	0.00
4.70	U	ND		ND		Y	0.00	0.00
3.56	U	ND		ND		Y	0.00	0.00
6.61	U	ND		ND		Y	0.00	0.00
6.51	U	ND		ND		Y	0.00	0.00
8.65	U	ND		ND		Y	0.00	0.00
4.83	U	ND		ND		Y	0.00	0.00
4.24	U	ND		ND		Y	0.00	0.00

4.78	U	ND	ND	Y	0.00	0.00
7.46	U	ND	ND	Y	0.00	0.00
7.36	U	ND	ND	Y	0.00	0.00
5.56	U	ND	ND	Y	0.00	0.00
6.93	U	ND	ND	Y	0.00	0.00
4.24	U	ND	ND	Y	0.00	0.00
13.57	U	ND	ND	Y	0.00	0.00
4.70	U	ND	ND	Y	0.00	0.00
3.90	U	ND	ND	Y	0.00	0.00
4.70	U	ND	ND	Y	0.00	0.00
5.65	U	ND	ND	Y	0.00	0.00
4.83	U	ND	ND	Y	0.00	0.00
13.57	U	ND	ND	Y	0.00	0.00
13.39	U	ND	ND	Y	0.00	0.00
4.83	U	ND	ND	Y	0.00	0.00
8.82	U	ND	ND	Y	0.00	0.00
7.95	U	ND	ND	Y	0.00	0.00
7.02	U	ND	ND	Y	0.00	0.00
4.77	U	ND	ND	Y	0.00	0.00
7.10	U	ND	ND	Y	0.00	0.00
4.49	U	ND	ND	Y	0.00	0.00
4.49	U	ND	ND	Y	0.00	0.00
5.43	U	ND	ND	Y	0.00	0.00
4.41	U	ND	ND	Y	0.00	0.00
10.69	U	ND	ND	Y	0.00	0.00
4.49	U	ND	ND	Y	0.00	0.00
14.20	U	ND	ND	Y	0.00	0.00
14.97	U	ND	ND	Y	0.00	0.00
12.70	U	ND	ND	Y	0.00	0.00
14.24	U	ND	ND	Y	0.00	0.00
14.24	U	ND	ND	Y	0.00	0.00
32.56	U	ND	ND	Y	0.00	0.00
18.31	U	ND	ND	Y	0.00	0.00
14.45	U	ND	ND	Y	0.00	0.00
13.63	U	ND	ND	Y	0.00	0.00
18.31	U	ND	ND	Y	0.00	0.00
13.63	U	ND	ND	Y	0.00	0.00
15.90	U	ND	ND	Y	0.00	0.00
19.91	U	ND	ND	Y	0.00	0.00
13.63	U	ND	ND	Y	0.00	0.00
10.72	U	ND	ND	Y	0.00	0.00
12.44	U	ND	ND	Y	0.00	0.00
13.63	U	ND	ND	Y	0.00	0.00
17.42	U	ND	ND	Y	0.00	0.00
28.00	U	ND	ND	Y	0.00	0.00
15.35	U	ND	ND	Y	0.00	0.00
2.17	U	ND	ND	Y	0.00	0.00
15.35	U	ND	ND	Y	0.00	0.00
13.24	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**02**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.24	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) / (Avg RFn) × (Cistdi) / (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) × 1000 / (SV) × (CDF)

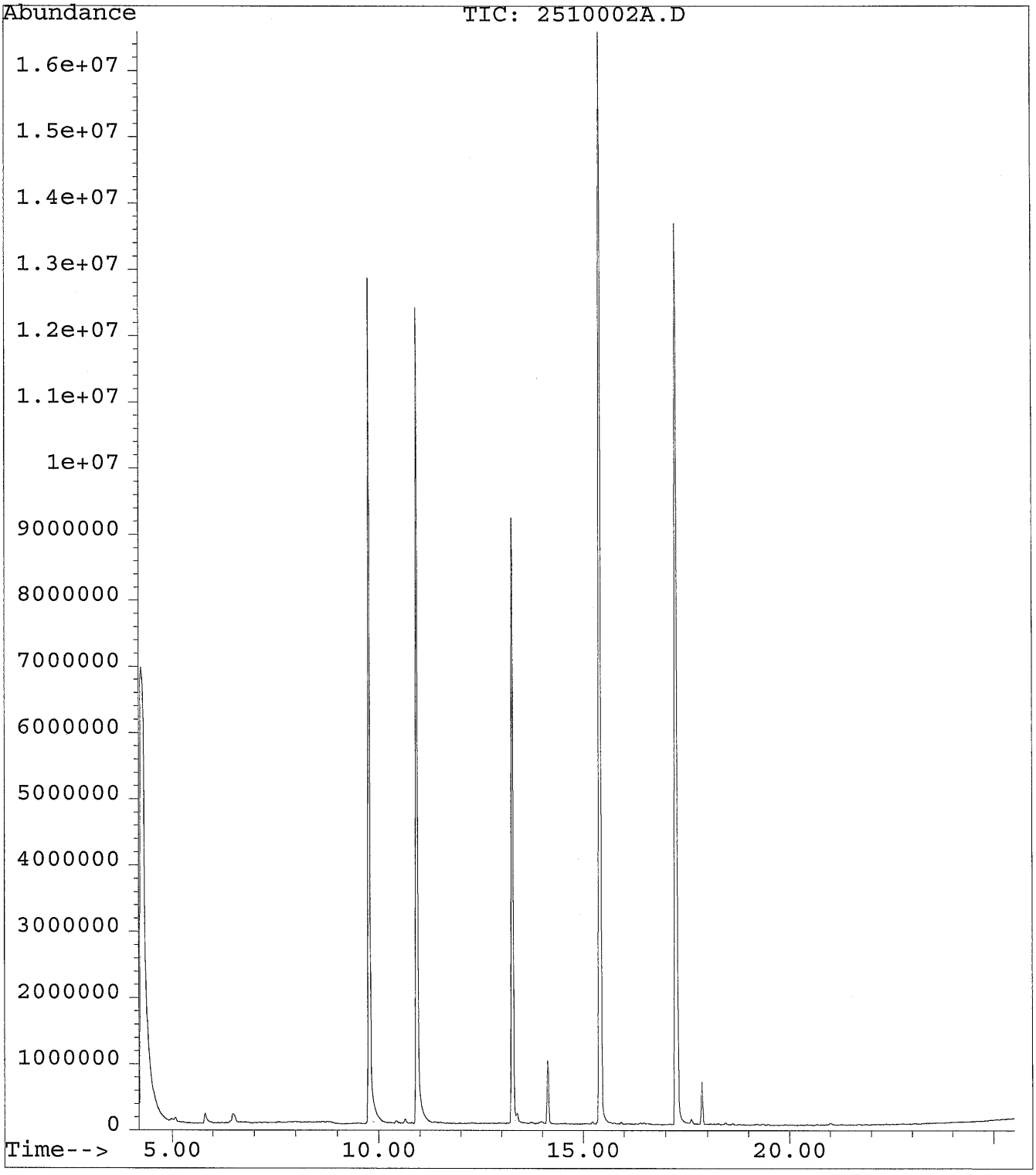
4) Amount ug/m3 = (amt(ppbv) × MW) / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.077	0	20.0	13360409	0.000	0.00	0.00
3	Dichlorodifluoromethane	PFB	TRG	120.9	0.388	0	20.0	13360409	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	0.325	110755	20.0	13360409	0.151	0.62	0.82
5	Chloromethane	PFB	TRG	50.5	0.125	0	20.0	13360409	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.338	0	20.0	13360409	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.154	0	20.0	13360409	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.136	0	20.0	13360409	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.175	0	20.0	13360409	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.080	0	20.0	13360409	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.013	50731	20.0	13360409	0.534	2.21	4.17
12	Acrolein	PFB	TRG	56.1	0.057	0	20.0	13360409	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.349	0	20.0	13360409	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.109	92025	20.0	13360409	0.578	2.39	5.68
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.402	0	20.0	13360409	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.524	0	20.0	13360409	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.638	0	20.0	13360409	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.299	0	20.0	13360409	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.127	0	20.0	13360409	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.400	0	20.0	13360409	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.111	0	20.0	13360409	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.132	0	20.0	13360409	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.400	0	20.0	13360409	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.208	0	20.0	13360409	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	0.433	0	20.0	13360409	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.147	0	20.0	13360409	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.326	0	20.0	13360409	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	0.429	0	20.0	13360409	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.076	0	20.0	13360409	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.110	0	20.0	13360409	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.141	0	20.0	13360409	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.286	0	20.0	13360409	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.099	0	20.0	13360409	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.350	0	20.0	13360409	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.316	0	20.0	13360409	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.208	0	20.0	13360409	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.123	0	20.0	13360409	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.059	0	20.0	13360409	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.239	0	20.0	13360409	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.284	0	20.0	13360409	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.339	0	20.0	13360409	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.477	0	20.0	15829282	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.376	0	20.0	15829282	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.398	0	20.0	15829282	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.364	0	20.0	15829282	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	0.823	82447	20.0	15829282	0.097	0.40	1.28
48	Carbon tetrachloride	14DF	TRG	153.8	0.366	0	20.0	15829282	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	0.938	0	20.0	15829282	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	1.306	0	20.0	15829282	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.276	0	20.0	15829282	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.312	0	20.0	15829282	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.337	0	20.0	15829282	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.984	0	20.0	15829282	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.699	0	20.0	15829282	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.413	0	20.0	15829282	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.241	0	20.0	15829282	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.434	0	20.0	15829282	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.357	0	20.0	15829282	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.215	119627	20.0	15829282	0.101	0.42	1.57
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.346	0	20.0	15829282	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.246	0	20.0	15829282	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.481	0	20.0	15829282	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.784	0	20.0	15829282	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.677	0	20.0	15829282	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.387	0	20.0	15829282	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.711	0	20.0	15829282	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.842	0	20.0	15829282	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	1.398	0	20.0	15829282	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.145	0	20.0	17511960	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.488	0	20.0	17511960	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.497	0	20.0	17511960	0.000	0.00	0.00
75	m,p-Xylenes	d5CB	TRG	106.2	1.297	0	20.0	17511960	0.000	0.00	0.00
76	Nonane	d5CB	TRG	128.3	0.575	0	20.0	17511960	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.008	0	20.0	17511960	0.000	0.00	0.00
78	Bromoform	d5CB	TRG	252.7	0.957	0	20.0	17511960	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.314	0	20.0	17511960	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.186	0	20.0	17511960	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.502	0	20.0	17511960	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.081	0	20.0	17511960	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	2.144	0	20.0	17511960	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.882	0	20.0	17511960	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	1.613	0	20.0	17511960	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.810	0	20.0	17511960	0.000	0.00	0.00
87	Decane	d5CB	TRG	142.3	0.882	0	20.0	17511960	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.678	0	20.0	17511960	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	1.453	0	20.0	17511960	0.000	0.00	0.00
90	i-Butylbenzene	d5CB	TRG	134.2	1.786	0	20.0	17511960	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	2.164	0	20.0	17511960	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	2.201	0	20.0	17511960	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.356	0	20.0	17511960	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	0.660	0	20.0	17511960	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	2.004	0	20.0	17511960	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	2.242	0	20.0	17511960	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	2.676	0	20.0	17511960	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.196	0	20.0	17511960	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.750	0	20.0	17511960	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.424	0	20.0	17511960	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.175	0	20.0	17511960	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	3.485	0	20.0	17511960	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	13360409	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	15829282	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	17511960	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	10018885	10.0		10.296	102.96	103

File : C:\MSCHEM\1\DATA\03315A_C\2510002A.D
Operator : DA
Acquired : 31 Mar 125 3:11 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-102
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **3**

Client ID T-103

Analytical Method TO-15

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Analytical Report
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Sample Calculations
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Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 03**

File Name: 2510003A.D **Date Sampled:** 03/19/25 **Time:** 08:44
Description: T-103 **Date Analyzed:** 03/31/25 **Time:** 15:48
Canister: 881 **Can Dilution Factor:** 1.20
QC_Batch: 033125-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	1.00	0.42	0.69	1.72	0.73	J
75-71-8	Dichlorodifluoromethane	0.60	1.00	ND	2.97	4.95	ND	
67-56-1	Methanol	2.00	2.40	ND	2.62	3.15	ND	
74-87-3	Chloromethane	0.60	1.00	ND	1.24	2.07	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	1.00	ND	2.80	7.00	ND	
75-01-4	Vinyl chloride	0.20	1.00	ND	0.52	2.56	ND	
106-99-0	1,3-Butadiene	0.20	1.00	ND	0.45	2.22	ND	
74-83-9	Bromomethane	0.40	1.00	ND	1.55	3.89	ND	
75-00-3	Chloroethane	0.40	1.00	ND	1.06	2.64	ND	
64-17-5	Ethanol	2.00	12.84	4.11	3.78	24.24	7.75	J
107-02-8	Acrolein	0.40	1.20	1.04	0.92	2.76	2.39	J
75-69-4	Trichlorofluoromethane	0.40	1.00	ND	2.25	5.63	ND	
67-64-1	Acetone	2.00	2.40	4.67	4.76	5.71	11.12	
67-63-0	2-propanol (isopropylalcohol)	0.80	5.00	ND	1.97	12.31	ND	
75-65-0	t-Butyl alcohol	0.40	4.00	ND	1.21	12.14	ND	
4227-95-6	Methyl iodide	0.40	1.20	ND	2.34	7.02	ND	
75-35-4	1,1-Dichloroethene	0.20	1.00	ND	0.79	3.97	ND	
107-13-1	Acrylonitrile	0.80	1.20	ND	1.74	2.61	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.00	ND	1.53	7.67	ND	
107-05-1	Allyl chloride	0.20	4.00	ND	0.63	12.53	ND	
75-09-2	Methylene chloride	0.20	1.00	ND	0.70	3.48	ND	
75-15-0	Carbon disulfide	0.40	1.00	ND	1.25	3.12	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.80	ND	0.79	3.17	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.80	ND	1.44	2.89	ND	
107-12-0	Propionitrile	1.00	1.60	ND	2.26	3.61	ND	
75-34-3	1,1-Dichloroethane	0.20	1.00	ND	0.81	4.05	ND	
637-92-3	Ethyl tert butyl ether	0.40	1.00	ND	1.67	4.19	ND	
108-05-4	Vinyl acetate	0.20	4.00	ND	0.71	14.10	ND	
78-93-3	2-Butanone (MEK)	0.40	1.20	ND	1.18	3.54	ND	
108-20-3	Diisopropyl ether	0.40	2.40	ND	1.67	10.05	ND	
110-54-3	Hexane	0.40	1.00	ND	1.41	3.53	ND	
126-98-7	Methacrylonitrile	0.40	1.00	ND	1.10	2.75	ND	
141-78-6	Ethyl acetate	0.40	1.00	ND	1.44	3.61	ND	
74-97-5	Bromochloromethane	0.20	1.00	ND	1.06	5.30	ND	
96-33-3	Methyl acrylate	0.40	2.00	ND	1.41	7.05	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.20	ND	0.59	3.54	ND	
78-83-1	Isobutyl alcohol	0.80	3.20	ND	2.43	9.71	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.00	ND	0.79	3.97	ND	
594-20-7	2,2-Dichloropropane	0.20	1.00	ND	0.93	4.63	ND	
67-66-3	Chloroform	0.20	1.00	ND	0.98	4.89	ND	
71-55-6	1,1,1-Trichloroethane	0.20	1.00	ND	1.09	5.46	ND	
107-06-2	1,2-Dichloroethane	0.20	1.00	ND	0.81	4.05	ND	
563-58-6	1,1-Dichloropropene	0.20	1.00	ND	0.91	4.55	ND	
110-82-7	Cyclohexane	0.20	1.00	ND	0.69	3.45	ND	
71-43-2	Benzene	1.40	2.00	ND	4.48	6.40	ND	
56-23-5	Carbon tetrachloride	0.20	1.00	ND	1.26	6.30	ND	
994-05-8	t-Amyl methyl ether	0.40	2.00	ND	1.67	8.37	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.00	ND	0.94	4.68	ND	
142-82-5	n-Heptane	0.40	1.00	ND	1.64	4.10	ND	
78-87-5	1,2-Dichloropropane	0.20	1.00	ND	0.93	4.63	ND	
123-91-1	1,4 Dioxane	0.40	2.00	ND	1.44	7.22	ND	
74-95-3	Dibromomethane	0.20	1.00	ND	1.42	7.12	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.00	ND	0.54	5.38	ND	
75-27-4	Bromodichloromethane	0.20	1.00	ND	1.34	6.71	ND	
80-62-6	Methyl methacrylate	0.40	1.00	ND	1.64	4.10	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.20	ND	1.64	13.13	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.00	ND	0.91	4.55	ND	
108-88-3	Toluene	0.80	1.00	ND	3.02	3.77	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.00	ND	0.91	4.55	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.00	ND	1.09	5.46	ND	
97-63-2	Ethyl methacrylate	0.40	1.00	ND	1.87	4.68	ND	
591-78-6	2-Hexanone	0.40	3.20	ND	1.64	13.13	ND	
142-28-9	1,3-Dichloropropane	0.20	2.80	ND	0.93	12.96	ND	
111-65-9	Octane	0.40	1.00	ND	1.87	4.68	ND	
124-48-1	Dibromochloromethane	0.40	1.00	ND	3.41	8.53	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	1.00	ND	3.08	7.70	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.00	ND	0.68	6.79	ND	
108-90-7	Chlorobenzene	0.40	1.00	ND	1.84	4.61	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	1.00	ND	2.75	6.87	ND	
100-41-4	Ethylbenzene	0.40	1.00	ND	1.74	4.35	ND	
1330-20-7	m,p-Xylenes	0.40	1.00	ND	1.74	4.35	ND	
111-84-2	Nonane	0.40	1.00	ND	2.10	5.25	ND	
100-42-5	Styrene	0.60	1.00	ND	2.56	4.27	ND	
75-25-2	Bromoform	0.40	1.00	ND	4.14	10.35	ND	
95-47-6	o-Xylene	0.40	1.00	ND	1.74	4.35	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.80	2.00	ND	5.50	13.74	ND	
96-18-4	1,2,3-Trichloropropane	0.80	2.40	ND	4.83	14.49	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.80	2.40	ND	4.10	12.29	ND	
103-65-1	n-Propylbenzene	0.80	2.80	ND	3.94	13.78	ND	
98-82-8	Isopropylbenzene	0.80	2.80	ND	3.94	13.78	ND	
622-96-8	4-Ethyltoluene	0.80	6.40	ND	3.94	31.51	ND	
108-67-8	1,3,5-Trimethylbenzene	0.80	3.60	ND	3.94	17.72	ND	
124-18-5	Decane	0.80	2.40	ND	4.66	13.99	ND	
98-06-6	tert-butyl benzene	0.80	2.40	ND	4.40	13.19	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.80	3.60	ND	3.94	17.72	ND	
538-93-2	i-Butylbenzene	0.80	2.40	ND	4.40	13.19	ND	
135-98-8	sec-butylbenzene	0.80	2.80	ND	4.40	15.39	ND	
541-73-1	1,3-Dichlorobenzene	0.80	3.20	ND	4.82	19.27	ND	
99-87-6	Isopropyltoluene	0.80	2.40	ND	4.40	13.19	ND	
100-44-7	Benzyl chloride	0.80	2.00	ND	4.15	10.37	ND	
106-46-7	1,4-Dichlorobenzene	0.80	2.00	ND	4.82	12.04	ND	
104-51-8	n-Butylbenzene	0.80	2.40	ND	4.40	13.19	ND	
95-50-1	1,2-Dichlorobenzene	0.80	2.80	ND	4.82	16.86	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.20	2.80	ND	11.61	27.10	ND	
120-82-1	1,2,4-Trichlorobenzene	1.20	2.00	ND	8.92	14.86	ND	
91-20-3	Naphthalene	2.00	0.40	ND	10.50	2.10	ND	
87-61-6	1,2,3-Trichlorobenzene	1.20	2.00	ND	8.92	14.86	ND	
87-68-3	Hexachlorobutadiene	1.00	1.20	ND	10.68	12.82	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	103	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**03**		
File Name:	2510003A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/19/25**	**Time:**	**8:44**
Sample ID:	T-103	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**03/31/25**	**Time:**	**15:48**
Anal Date:	31 Mar 125 3:48 pm	**SF:**	**2**	**QCbatch:**	**033125-MA1**		
Quant Method:	A1563_N.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**881**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.20**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	DA	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.105	4.41	42.00	13722
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.425	4.86	31.00	247046
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	1.027	5.72	46.00	77243
107-02-8	Acrolein	12	TRG	0.261	6.32	56.00	17859
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	1.168	6.42	58.00	147352
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.218	10.70	78.00	175071
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.000	13.50	91.00	0
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.000	15.90	106	0
1330-20-7	m,p-Xylenes	75	TRG	0.000	16.06	91.00	0
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.000	16.61	104.00	0
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	16.92	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.000	18.31	105.00	0
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.000	18.95	105.00	0
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**10576663**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**14926728**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**16352899**
2037-26-5	Toluene-d8	103	SURR	10.344	13.40	98.00	**9492233**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 2E+05
Laboratory Number: 03
File Name: 2510003A.D
Run Method: A1563_P.M
Can Factor: 1.20
Air Volume: 300.0 ml
Can/Tube Number: 881
Dilution Factor: 0.3600
Base Volume: 1000 ml
Unit Factor (ppbv): 1000 PPBV UG/M3

EDD SURR: PERCENT
Sam Type: SA
Instrument: MA1
DETECT: ND
Matrix: AA
Type: TRG
Diluton: 0.3600
Sig Figs: 2
MDLSF: 2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.11	0.42	0.73	0.42	0.73	0.73	0.73	0.100	0.250	0.40	0.69	1.00
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.60	2.97	1.00
Methanol	32.0	0.42	1.70	2.23	ND	ND	0		0.500	0.600	2.00	2.62	2.40
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.60	1.24	1.00
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.80	1.00
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.52	1.00
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.45	1.00
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.55	1.00
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.06	1.00
Ethanol	46.1	1.03	4.11	7.75	4.11	7.75	7.75	7.75	0.500	3.210	2.00	3.78	12.84
Acrolein	56.1	0.26	1.04	2.39	1.04	2.39	2.39	2.39	0.100	0.300	0.40	0.92	1.20
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.25	1.00
Acetone	58.1	1.17	4.67	11.12	4.67	11.12	11.12	11.12	0.500	0.600	2.00	4.76	2.40
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		0.200	1.250	0.80	1.97	5.00
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.40	1.21	4.00
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.40	2.34	1.20
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.79	1.00
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.80	1.74	1.20
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.53	1.00
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.63	4.00
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.70	1.00
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.25	1.00
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.20	0.79	0.80
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.40	1.44	0.80
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.00	2.26	1.60
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.81	1.00
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.67	1.00
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.71	4.00
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.40	1.18	1.20
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.40	1.67	2.40
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.41	1.00
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.10	1.00
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.44	1.00
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.06	1.00
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.41	2.00
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.20	0.59	1.20
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.80	2.43	3.20
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.79	1.00
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.93	1.00
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.98	1.00
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.09	1.00
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.81	1.00
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.91	1.00
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.69	1.00
Benzene	78.1	0.22	0.87	2.80	ND	ND	0		0.350	0.500	1.40	4.48	2.00
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.26	1.00
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.67	2.00
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.94	1.00
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.64	1.00

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.93	1.00
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.44	2.00
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.42	1.00
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.54	1.00
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.34	1.00
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.64	1.00
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.40	1.64	3.20
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.91	1.00
Toluene	92.1	0.00	0.00	0.00	ND	ND	0		0.200	0.250	0.80	3.02	1.00
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.91	1.00
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.09	1.00
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.87	1.00
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.40	1.64	3.20
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.20	0.93	2.80
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.87	1.00
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	3.41	1.00
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	3.08	1.00
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.68	1.00
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.84	1.00
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.75	1.00
Ethylbenzene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.74	1.00
m,p-Xylenes	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.74	1.00
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.10	1.00
Styrene	104.2	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.60	2.56	1.00
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	4.14	1.00
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.74	1.00
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.80	5.50	2.00
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.80	4.83	2.40
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.80	4.10	2.40
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.80	3.94	2.80
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.80	3.94	2.80
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.80	3.94	6.40
1,3,5-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.80	3.94	3.60
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.80	4.66	2.40
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.80	4.40	2.40
1,2,4-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.80	3.94	3.60
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.80	4.40	2.40
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.80	4.40	2.80
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.80	4.82	3.20
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.80	4.40	2.40
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.80	4.15	2.00
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.80	4.82	2.00
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.80	4.40	2.40
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.80	4.82	2.80
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.20	11.61	2.80
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.20	8.92	2.00
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.00	10.50	0.40
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.20	8.92	2.00
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.00	10.68	1.20
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		10.34	103	103	103	103	103	103	10.0	10.0			

0

0

0

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.72	J	J		=		Y	0.42	0.73
4.95	U	ND		ND		Y	0.00	0.00
3.15	U	ND		ND		Y	0.00	0.00
2.07	U	ND		ND		Y	0.00	0.00
7.00	U	ND		ND		Y	0.00	0.00
2.56	U	ND		ND		Y	0.00	0.00
2.22	U	ND		ND		Y	0.00	0.00
3.89	U	ND		ND		Y	0.00	0.00
2.64	U	ND		ND		Y	0.00	0.00
24.24	J	J		=		Y	4.11	7.75
2.76	J	J		=		Y	1.04	2.39
5.63	U	ND		ND		Y	0.00	0.00
5.71				=		Y	4.67	11.12
12.31	U	ND		ND		Y	0.00	0.00
12.14	U	ND		ND		Y	0.00	0.00
7.02	U	ND		ND		Y	0.00	0.00
3.97	U	ND		ND		Y	0.00	0.00
2.61	U	ND		ND		Y	0.00	0.00
7.67	U	ND		ND		Y	0.00	0.00
12.53	U	ND		ND		Y	0.00	0.00
3.48	U	ND		ND		Y	0.00	0.00
3.12	U	ND		ND		Y	0.00	0.00
3.17	U	ND		ND		Y	0.00	0.00
2.89	U	ND		ND		Y	0.00	0.00
3.61	U	ND		ND		Y	0.00	0.00
4.05	U	ND		ND		Y	0.00	0.00
4.19	U	ND		ND		Y	0.00	0.00
14.10	U	ND		ND		Y	0.00	0.00
3.54	U	ND		ND		Y	0.00	0.00
10.05	U	ND		ND		Y	0.00	0.00
3.53	U	ND		ND		Y	0.00	0.00
2.75	U	ND		ND		Y	0.00	0.00
3.61	U	ND		ND		Y	0.00	0.00
5.30	U	ND		ND		Y	0.00	0.00
7.05	U	ND		ND		Y	0.00	0.00
3.54	U	ND		ND		Y	0.00	0.00
9.71	U	ND		ND		Y	0.00	0.00
3.97	U	ND		ND		Y	0.00	0.00
4.63	U	ND		ND		Y	0.00	0.00
4.89	U	ND		ND		Y	0.00	0.00
5.46	U	ND		ND		Y	0.00	0.00
4.05	U	ND		ND		Y	0.00	0.00
4.55	U	ND		ND		Y	0.00	0.00
3.45	U	ND		ND		Y	0.00	0.00
6.40	U	ND		ND		Y	0.00	0.00
6.30	U	ND		ND		Y	0.00	0.00
8.37	U	ND		ND		Y	0.00	0.00
4.68	U	ND		ND		Y	0.00	0.00
4.10	U	ND		ND		Y	0.00	0.00

4.63	U	ND	ND	Y	0.00	0.00
7.22	U	ND	ND	Y	0.00	0.00
7.12	U	ND	ND	Y	0.00	0.00
5.38	U	ND	ND	Y	0.00	0.00
6.71	U	ND	ND	Y	0.00	0.00
4.10	U	ND	ND	Y	0.00	0.00
13.13	U	ND	ND	Y	0.00	0.00
4.55	U	ND	ND	Y	0.00	0.00
3.77	U	ND	ND	Y	0.00	0.00
4.55	U	ND	ND	Y	0.00	0.00
5.46	U	ND	ND	Y	0.00	0.00
4.68	U	ND	ND	Y	0.00	0.00
13.13	U	ND	ND	Y	0.00	0.00
12.96	U	ND	ND	Y	0.00	0.00
4.68	U	ND	ND	Y	0.00	0.00
8.53	U	ND	ND	Y	0.00	0.00
7.70	U	ND	ND	Y	0.00	0.00
6.79	U	ND	ND	Y	0.00	0.00
4.61	U	ND	ND	Y	0.00	0.00
6.87	U	ND	ND	Y	0.00	0.00
4.35	U	ND	ND	Y	0.00	0.00
4.35	U	ND	ND	Y	0.00	0.00
5.25	U	ND	ND	Y	0.00	0.00
4.27	U	ND	ND	Y	0.00	0.00
10.35	U	ND	ND	Y	0.00	0.00
4.35	U	ND	ND	Y	0.00	0.00
13.74	U	ND	ND	Y	0.00	0.00
14.49	U	ND	ND	Y	0.00	0.00
12.29	U	ND	ND	Y	0.00	0.00
13.78	U	ND	ND	Y	0.00	0.00
13.78	U	ND	ND	Y	0.00	0.00
31.51	U	ND	ND	Y	0.00	0.00
17.72	U	ND	ND	Y	0.00	0.00
13.99	U	ND	ND	Y	0.00	0.00
13.19	U	ND	ND	Y	0.00	0.00
17.72	U	ND	ND	Y	0.00	0.00
13.19	U	ND	ND	Y	0.00	0.00
15.39	U	ND	ND	Y	0.00	0.00
19.27	U	ND	ND	Y	0.00	0.00
13.19	U	ND	ND	Y	0.00	0.00
10.37	U	ND	ND	Y	0.00	0.00
12.04	U	ND	ND	Y	0.00	0.00
13.19	U	ND	ND	Y	0.00	0.00
16.86	U	ND	ND	Y	0.00	0.00
27.10	U	ND	ND	Y	0.00	0.00
14.86	U	ND	ND	Y	0.00	0.00
2.10	U	ND	ND	Y	0.00	0.00
14.86	U	ND	ND	Y	0.00	0.00
12.82	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**03**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.20
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) / (Avg RFn) × (Cistdi) / (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) × 1000 / (SV) × (CDF)

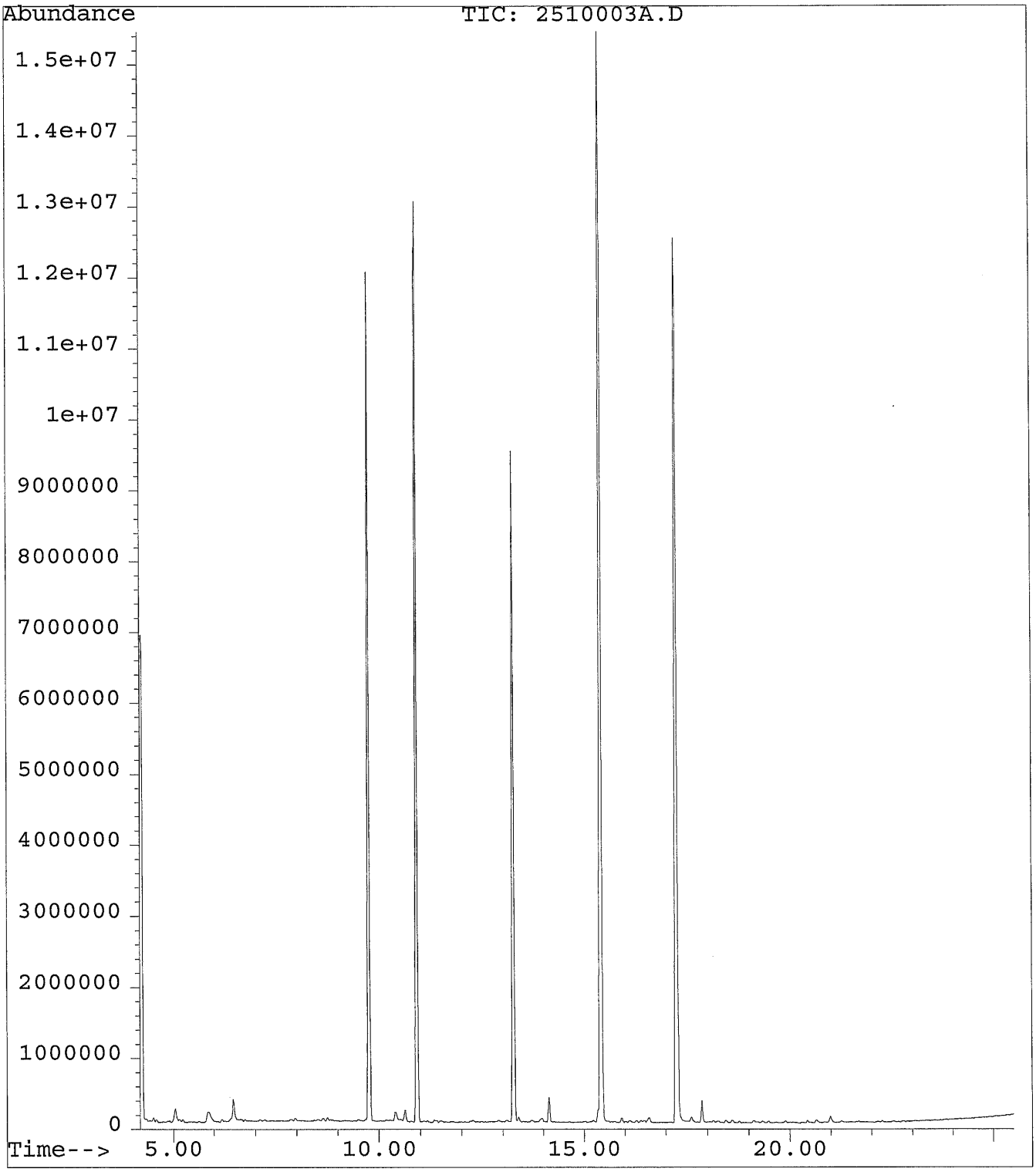
4) Amount ug/m3 = (amt(ppbv) × MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	13722	20.0	10576663	0.105	0.42	0.73
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	10576663	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	247046	20.0	10576663	0.425	1.70	2.23
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	10576663	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	10576663	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	10576663	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	10576663	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	10576663	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	10576663	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	77243	20.0	10576663	1.027	4.11	7.75
12	Acrolein	PFB	TRG	56.1	0.130	17859	20.0	10576663	0.261	1.04	2.39
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	10576663	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	147352	20.0	10576663	1.168	4.67	11.12
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	0	20.0	10576663	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	10576663	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	10576663	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	10576663	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	10576663	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	10576663	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	10576663	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	10576663	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	10576663	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	10576663	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	10576663	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	10576663	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	10576663	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	10576663	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	10576663	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	0	20.0	10576663	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	10576663	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	10576663	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	10576663	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	10576663	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	10576663	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	10576663	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	10576663	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	10576663	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	10576663	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	10576663	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	10576663	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	14926728	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	14926728	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	14926728	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	14926728	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	175071	20.0	14926728	0.218	0.87	2.80
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	14926728	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	14926728	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	14926728	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	14926728	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	14926728	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	14926728	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	14926728	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	14926728	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	14926728	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	14926728	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	14926728	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	14926728	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	0	20.0	14926728	0.000	0.00	0.00
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	14926728	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	14926728	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	14926728	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	14926728	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	14926728	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	14926728	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	14926728	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	14926728	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	14926728	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	16352899	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	16352899	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	0	20.0	16352899	0.000	0.00	0.00
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	0	20.0	16352899	0.000	0.00	0.00
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	16352899	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	0	20.0	16352899	0.000	0.00	0.00
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	16352899	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	0	20.0	16352899	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	16352899	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	16352899	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	16352899	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	16352899	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	16352899	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	16352899	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	0	20.0	16352899	0.000	0.00	0.00
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	16352899	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	16352899	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	0	20.0	16352899	0.000	0.00	0.00
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	16352899	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	16352899	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	16352899	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	16352899	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	16352899	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	16352899	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	16352899	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	16352899	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	16352899	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	16352899	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	16352899	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	16352899	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	16352899	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	10576663	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	14926728	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	16352899	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9492233	10.0		10.344	103.44	103

File : C:\MSCHEM\1\DATA\03315A_C\2510003A.D
Operator : DA
Acquired : 31 Mar 125 3:48 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-103
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number 225100

Lab Id Number 4

Client ID T-104

Analytical Method TO-15

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Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 04

File Name: 2510004A.D
Description: T-104
Canister: 860
QC_Batch: 033125-MA1

Date Sampled: 03/19/25 **Time:** 08:37
Date Analyzed: 03/31/25 **Time:** 16:34
Can Dilution Factor: 1.31
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.44	1.09	1.08	0.75	1.88	1.87	J
75-71-8	Dichlorodifluoromethane	0.66	1.09	ND	3.24	5.41	ND	
67-56-1	Methanol	2.18	2.62	ND	2.86	3.43	ND	
74-87-3	Chloromethane	0.66	1.09	ND	1.35	2.26	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.44	1.09	ND	3.06	7.64	ND	
75-01-4	Vinyl chloride	0.22	1.09	ND	0.56	2.79	ND	
106-99-0	1,3-Butadiene	0.22	1.09	ND	0.49	2.42	ND	
74-83-9	Bromomethane	0.44	1.09	ND	1.70	4.24	ND	
75-00-3	Chloroethane	0.44	1.09	ND	1.15	2.88	ND	
64-17-5	Ethanol	2.18	14.02	3.16	4.12	26.46	5.97	J
107-02-8	Acrolein	0.44	1.31	ND	1.00	3.01	ND	
75-69-4	Trichlorofluoromethane	0.44	1.09	ND	2.46	6.14	ND	
67-64-1	Acetone	2.18	2.62	8.98	5.20	6.23	21.37	
67-63-0	2-propanol (isopropylalcohol)	0.87	5.46	ND	2.15	13.44	ND	
75-65-0	t-Butyl alcohol	0.44	4.37	ND	1.33	13.25	ND	
4227-95-6	Methyl iodide	0.44	1.31	ND	2.56	7.67	ND	
75-35-4	1,1-Dichloroethene	0.22	1.09	ND	0.87	4.33	ND	
107-13-1	Acrylonitrile	0.87	1.31	ND	1.90	2.85	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.22	1.09	ND	1.68	8.38	ND	
107-05-1	Allyl chloride	0.22	4.37	ND	0.68	13.68	ND	
75-09-2	Methylene chloride	0.22	1.09	ND	0.76	3.80	ND	
75-15-0	Carbon disulfide	0.44	1.09	ND	1.36	3.40	ND	
156-60-5	trans-1,2-Dichloroethene	0.22	0.87	ND	0.87	3.47	ND	
1634-04-4	Methyl tert butyl ether	0.44	0.87	ND	1.58	3.15	ND	
107-12-0	Propionitrile	1.09	1.75	ND	2.46	3.94	ND	
75-34-3	1,1-Dichloroethane	0.22	1.09	ND	0.88	4.43	ND	
637-92-3	Ethyl tert butyl ether	0.44	1.09	ND	1.83	4.57	ND	
108-05-4	Vinyl acetate	0.22	4.37	ND	0.77	15.40	ND	
78-93-3	2-Butanone (MEK)	0.44	1.31	ND	1.29	3.87	ND	
108-20-3	Diisopropyl ether	0.44	2.62	ND	1.83	10.97	ND	
110-54-3	Hexane	0.44	1.09	ND	1.54	3.85	ND	
126-98-7	Methacrylonitrile	0.44	1.09	ND	1.20	3.00	ND	
141-78-6	Ethyl acetate	0.44	1.09	ND	1.58	3.94	ND	
74-97-5	Bromochloromethane	0.22	1.09	ND	1.16	5.79	ND	
96-33-3	Methyl acrylate	0.44	2.18	ND	1.54	7.70	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.22	1.31	0.84	0.65	3.87	2.49	J
78-83-1	Isobutyl alcohol	0.87	3.49	ND	2.65	10.60	ND	
156-59-2	cis-1,2-Dichloroethene	0.22	1.09	ND	0.87	4.33	ND	
594-20-7	2,2-Dichloropropane	0.22	1.09	ND	1.01	5.05	ND	
67-66-3	Chloroform	0.22	1.09	ND	1.07	5.34	ND	
71-55-6	1,1,1-Trichloroethane	0.22	1.09	ND	1.19	5.96	ND	
107-06-2	1,2-Dichloroethane	0.22	1.09	ND	0.89	4.43	ND	
563-58-6	1,1-Dichloropropene	0.22	1.09	ND	0.99	4.96	ND	
110-82-7	Cyclohexane	0.22	1.09	ND	0.75	3.76	ND	
71-43-2	Benzene	1.53	2.18	ND	4.89	6.98	ND	
56-23-5	Carbon tetrachloride	0.22	1.09	ND	1.38	6.88	ND	
994-05-8	t-Amyl methyl ether	0.44	2.18	ND	1.83	9.14	ND	
540-84-1	2,2,4-Trimethylpentane	0.22	1.09	ND	1.02	5.11	ND	
142-82-5	n-Heptane	0.44	1.09	ND	1.79	4.48	ND	
78-87-5	1,2-Dichloropropane	0.22	1.09	ND	1.01	5.05	ND	
123-91-1	1,4 Dioxane	0.44	2.18	ND	1.58	7.88	ND	
74-95-3	Dibromomethane	0.22	1.09	ND	1.55	7.77	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.09	ND	0.59	5.87	ND	
75-27-4	Bromodichloromethane	0.22	1.09	ND	1.46	7.32	ND	
80-62-6	Methyl methacrylate	0.44	1.09	ND	1.79	4.48	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.44	3.49	ND	1.79	14.34	ND	
10061-01-5	cis-1,3-Dichloropropene	0.22	1.09	ND	0.99	4.96	ND	
108-88-3	Toluene	0.87	1.09	ND	3.29	4.12	ND	
10061-02-6	trans-1,3-Dichloropropene	0.22	1.09	ND	0.99	4.96	ND	
79-00-5	1,1,2-Trichloroethane	0.22	1.09	ND	1.19	5.96	ND	
97-63-2	Ethyl methacrylate	0.44	1.09	ND	2.04	5.11	ND	
591-78-6	2-Hexanone	0.44	3.49	ND	1.79	14.34	ND	
142-28-9	1,3-Dichloropropane	0.22	3.06	ND	1.01	14.15	ND	
111-65-9	Octane	0.44	1.09	ND	2.04	5.11	ND	
124-48-1	Dibromochloromethane	0.44	1.09	ND	3.73	9.31	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.44	1.09	ND	3.36	8.40	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.09	ND	0.74	7.41	ND	
108-90-7	Chlorobenzene	0.44	1.09	ND	2.01	5.03	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.44	1.09	ND	3.00	7.50	ND	
100-41-4	Ethylbenzene	0.44	1.09	ND	1.90	4.75	ND	
1330-20-7	m,p-Xylenes	0.44	1.09	2.28	1.90	4.75	9.90	
111-84-2	Nonane	0.44	1.09	0.57	2.29	5.74	3.00	J
100-42-5	Styrene	0.66	1.09	ND	2.80	4.66	ND	
75-25-2	Bromoform	0.44	1.09	ND	4.52	11.30	ND	
95-47-6	o-Xylene	0.44	1.09	0.97	1.90	4.75	4.24	J
79-34-5	1,1,2,2-Tetrachloroethane	0.87	2.18	ND	6.00	15.00	ND	
96-18-4	1,2,3-Trichloropropane	0.87	2.62	ND	5.27	15.82	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.87	2.62	ND	4.47	13.41	ND	
103-65-1	n-Propylbenzene	0.87	3.06	ND	4.30	15.05	ND	
98-82-8	Isopropylbenzene	0.87	3.06	ND	4.30	15.05	ND	
622-96-8	4-Ethyltoluene	0.87	6.99	ND	4.30	34.39	ND	
108-67-8	1,3,5-Trimethylbenzene	0.87	3.93	ND	4.30	19.35	ND	
124-18-5	Decane	0.87	2.62	ND	5.09	15.27	ND	
98-06-6	tert-butyl benzene	0.87	2.62	ND	4.80	14.40	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.87	3.93	ND	4.30	19.35	ND	
538-93-2	i-Butylbenzene	0.87	2.62	ND	4.80	14.40	ND	
135-98-8	sec-butylbenzene	0.87	3.06	ND	4.80	16.80	ND	
541-73-1	1,3-Dichlorobenzene	0.87	3.49	ND	5.26	21.03	ND	
99-87-6	Isopropyltoluene	0.87	2.62	ND	4.80	14.40	ND	
100-44-7	Benzyl chloride	0.87	2.18	ND	4.53	11.32	ND	
106-46-7	1,4-Dichlorobenzene	0.87	2.18	ND	5.26	13.14	ND	
104-51-8	n-Butylbenzene	0.87	2.62	ND	4.80	14.40	ND	
95-50-1	1,2-Dichlorobenzene	0.87	3.06	ND	5.26	18.40	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.31	3.06	ND	12.68	29.58	ND	
120-82-1	1,2,4-Trichlorobenzene	1.31	2.18	ND	9.73	16.22	ND	
91-20-3	Naphthalene	2.18	0.44	ND	11.46	2.29	ND	
87-61-6	1,2,3-Trichlorobenzene	1.31	2.18	ND	9.73	16.22	ND	
87-68-3	Hexachlorobutadiene	1.09	1.31	ND	11.66	13.99	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	94	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	225100		
				EAS ID:	04		
File Name:	2510004A.D	Method:	TO-15	Date Sampled:	03/19/25	Time:	8:37
Sample ID:	T-104	Matrix:	AA	Date Received:	03/21/25	Time:	14:30
MiscInfo-Vol:	SCHMIDT	Detect:	ND	Date Analyzed:	03/31/25	Time:	16:34
Anal Date:	31 Mar 125 4:34 pm	SF:	2	QCbatch:	033125-MA1		
Quant Method:	A1563_N.M	MDLSF:	2	Volume:	300.0		
Run Method:	A1563_P.M	Type:	TRG	Can (Vial) No:	860		
Cal Update:	Fri Mar 28 11:07:25 2025	Instrument:	MA1	Can Factor:	1.31		
Instrument:	5970 - MS	EDD SURR:	PERCENT	SamType:	SA		
Analyst:	LR	UnitDil:	1000	PPBV			
Template:	A15CHIQ.MA1	MDL FAC	1	UG/M3			
Temp	24.5	EFLAG:	1.3				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.248	4.41	42.00	38088
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.286	4.86	31.00	196008
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.725	5.72	46.00	64269
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	2.057	6.42	58.00	305864
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.193	9.72	72.00	25683
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.264	10.70	78.00	213006
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.000	13.50	91.00	0
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.086	14.04	85.00	38030
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.000	15.90	106	0
1330-20-7	m,p-Xylenes	75	TRG	0.521	16.06	91.00	672149
111-84-2	Nonane	76	TRG	0.131	16.43	57.00	135591
100-42-5	Styrene	77	TRG	0.000	16.61	104.00	0
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.223	16.54	91.00	300559
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.000	18.31	105.00	0
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.000	18.95	105.00	0
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**12469194**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**15004410**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**16209220**
2037-26-5	Toluene-d8	103	SURR	9.436	13.40	98.00	**8703812**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 2E+05
Laboratory Number: 04
File Name: 2510004A.D
Run Method: A1563_P.M
Can Factor: 1.31
Air Volume: 300.0 ml
Can/Tube Number: 860
Dilution Factor: 0.3930
Base Volume: 1000 ml
Unit Factor (ppbv): 1000 PPBV UG/M3

EDD SURR: PERCENT
Sam Type: SA
Instrument: MA1
DETECT: ND
Matrix: AA
Type: TRG
Diluton: 0.3930
Sig Figs: 2
MDLSF: 2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.25	1.08	1.87	1.08	1.87	1.87	1.87	0.100	0.250	0.44	0.75	1.09
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.66	3.24	1.09
Methanol	32.0	0.29	1.25	1.64	ND	ND	0		0.500	0.600	2.18	2.86	2.62
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.66	1.35	1.09
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	3.06	1.09
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.56	1.09
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.49	1.09
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.70	1.09
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.15	1.09
Ethanol	46.1	0.72	3.16	5.97	3.16	5.97	5.97	5.97	0.500	3.210	2.18	4.12	14.02
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.44	1.00	1.31
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	2.46	1.09
Acetone	58.1	2.06	8.98	21.37	8.98	21.37	21.37	21.37	0.500	0.600	2.18	5.20	2.62
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		0.200	1.250	0.87	2.15	5.46
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.44	1.33	4.37
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.44	2.56	1.31
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.87	1.09
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.87	1.90	1.31
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.68	1.09
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.22	0.68	4.37
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.76	1.09
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.36	1.09
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.22	0.87	0.87
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.44	1.58	0.87
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.09	2.46	1.75
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.88	1.09
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.83	1.09
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.22	0.77	4.37
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.44	1.29	1.31
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.44	1.83	2.62
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.54	1.09
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.20	1.09
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.58	1.09
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.16	1.09
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.44	1.54	2.18
Tetrahydrofuran	72.1	0.19	0.84	2.49	0.84	2.49	2.49	2.49	0.050	0.300	0.22	0.65	1.31
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.87	2.65	3.49
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.87	1.09
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.01	1.09
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.07	1.09
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.19	1.09
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.89	1.09
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.99	1.09
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.75	1.09
Benzene	78.1	0.26	1.15	3.69	ND	ND	0		0.350	0.500	1.53	4.89	2.18
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.38	1.09
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.44	1.83	2.18
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.02	1.09
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.79	1.09

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.01	1.09
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.44	1.58	2.18
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.55	1.09
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.59	1.09
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.46	1.09
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.79	1.09
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.44	1.79	3.49
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.99	1.09
Toluene	92.1	0.00	0.00	0.00	ND	ND	0		0.200	0.250	0.87	3.29	1.09
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.99	1.09
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.19	1.09
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	2.04	1.09
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.44	1.79	3.49
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.22	1.01	3.06
Octane	114.2	0.09	0.37	1.75	ND	ND	0		0.100	0.250	0.44	2.04	1.09
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	3.73	1.09
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	3.36	1.09
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.74	1.09
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	2.01	1.09
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	3.00	1.09
Ethylbenzene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.90	1.09
m,p-Xylenes	106.2	0.52	2.28	9.90	2.28	9.90	9.90	9.90	0.100	0.250	0.44	1.90	1.09
Nonane	128.3	0.13	0.57	3.00	0.57	3.00	3.00	3.00	0.100	0.250	0.44	2.29	1.09
Styrene	104.2	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.66	2.80	1.09
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	4.52	1.09
o-Xylene	106.2	0.22	0.97	4.24	0.97	4.24	4.24	4.24	0.100	0.250	0.44	1.90	1.09
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.87	6.00	2.18
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.87	5.27	2.62
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.87	4.47	2.62
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.87	4.30	3.06
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.87	4.30	3.06
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.87	4.30	6.99
1,3,5-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.87	4.30	3.93
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.87	5.09	2.62
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.87	4.80	2.62
1,2,4-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.87	4.30	3.93
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.87	4.80	2.62
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.87	4.80	3.06
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.87	5.26	3.49
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.87	4.80	2.62
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.87	4.53	2.18
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.87	5.26	2.18
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.87	4.80	2.62
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.87	5.26	3.06
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.31	12.68	3.06
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.31	9.73	2.18
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.18	11.46	0.44
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.31	9.73	2.18
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.09	11.66	1.31
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		9.44	94	94	94	94	94	94	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.88	J	J		=		Y	1.08	1.87
5.41	U	ND		ND		Y	0.00	0.00
3.43	U	ND		ND		Y	0.00	0.00
2.26	U	ND		ND		Y	0.00	0.00
7.64	U	ND		ND		Y	0.00	0.00
2.79	U	ND		ND		Y	0.00	0.00
2.42	U	ND		ND		Y	0.00	0.00
4.24	U	ND		ND		Y	0.00	0.00
2.88	U	ND		ND		Y	0.00	0.00
26.46	J	J		=		Y	3.16	5.97
3.01	U	ND		ND		Y	0.00	0.00
6.14	U	ND		ND		Y	0.00	0.00
6.23				=		Y	8.98	21.37
13.44	U	ND		ND		Y	0.00	0.00
13.25	U	ND		ND		Y	0.00	0.00
7.67	U	ND		ND		Y	0.00	0.00
4.33	U	ND		ND		Y	0.00	0.00
2.85	U	ND		ND		Y	0.00	0.00
8.38	U	ND		ND		Y	0.00	0.00
13.68	U	ND		ND		Y	0.00	0.00
3.80	U	ND		ND		Y	0.00	0.00
3.40	U	ND		ND		Y	0.00	0.00
3.47	U	ND		ND		Y	0.00	0.00
3.15	U	ND		ND		Y	0.00	0.00
3.94	U	ND		ND		Y	0.00	0.00
4.43	U	ND		ND		Y	0.00	0.00
4.57	U	ND		ND		Y	0.00	0.00
15.40	U	ND		ND		Y	0.00	0.00
3.87	U	ND		ND		Y	0.00	0.00
10.97	U	ND		ND		Y	0.00	0.00
3.85	U	ND		ND		Y	0.00	0.00
3.00	U	ND		ND		Y	0.00	0.00
3.94	U	ND		ND		Y	0.00	0.00
5.79	U	ND		ND		Y	0.00	0.00
7.70	U	ND		ND		Y	0.00	0.00
3.87	J	J		=		Y	0.84	2.49
10.60	U	ND		ND		Y	0.00	0.00
4.33	U	ND		ND		Y	0.00	0.00
5.05	U	ND		ND		Y	0.00	0.00
5.34	U	ND		ND		Y	0.00	0.00
5.96	U	ND		ND		Y	0.00	0.00
4.43	U	ND		ND		Y	0.00	0.00
4.96	U	ND		ND		Y	0.00	0.00
3.76	U	ND		ND		Y	0.00	0.00
6.98	U	ND		ND		Y	0.00	0.00
6.88	U	ND		ND		Y	0.00	0.00
9.14	U	ND		ND		Y	0.00	0.00
5.11	U	ND		ND		Y	0.00	0.00
4.48	U	ND		ND		Y	0.00	0.00

5.05	U	ND	ND	Y	0.00	0.00
7.88	U	ND	ND	Y	0.00	0.00
7.77	U	ND	ND	Y	0.00	0.00
5.87	U	ND	ND	Y	0.00	0.00
7.32	U	ND	ND	Y	0.00	0.00
4.48	U	ND	ND	Y	0.00	0.00
14.34	U	ND	ND	Y	0.00	0.00
4.96	U	ND	ND	Y	0.00	0.00
4.12	U	ND	ND	Y	0.00	0.00
4.96	U	ND	ND	Y	0.00	0.00
5.96	U	ND	ND	Y	0.00	0.00
5.11	U	ND	ND	Y	0.00	0.00
14.34	U	ND	ND	Y	0.00	0.00
14.15	U	ND	ND	Y	0.00	0.00
5.11	U	ND	ND	Y	0.00	0.00
9.31	U	ND	ND	Y	0.00	0.00
8.40	U	ND	ND	Y	0.00	0.00
7.41	U	ND	ND	Y	0.00	0.00
5.03	U	ND	ND	Y	0.00	0.00
7.50	U	ND	ND	Y	0.00	0.00
4.75	U	ND	ND	Y	0.00	0.00
4.75			=	Y	2.28	9.90
5.74	J	J	=	Y	0.57	3.00
4.66	U	ND	ND	Y	0.00	0.00
11.30	U	ND	ND	Y	0.00	0.00
4.75	J	J	=	Y	0.97	4.24
15.00	U	ND	ND	Y	0.00	0.00
15.82	U	ND	ND	Y	0.00	0.00
13.41	U	ND	ND	Y	0.00	0.00
15.05	U	ND	ND	Y	0.00	0.00
15.05	U	ND	ND	Y	0.00	0.00
34.39	U	ND	ND	Y	0.00	0.00
19.35	U	ND	ND	Y	0.00	0.00
15.27	U	ND	ND	Y	0.00	0.00
14.40	U	ND	ND	Y	0.00	0.00
19.35	U	ND	ND	Y	0.00	0.00
14.40	U	ND	ND	Y	0.00	0.00
16.80	U	ND	ND	Y	0.00	0.00
21.03	U	ND	ND	Y	0.00	0.00
14.40	U	ND	ND	Y	0.00	0.00
11.32	U	ND	ND	Y	0.00	0.00
13.14	U	ND	ND	Y	0.00	0.00
14.40	U	ND	ND	Y	0.00	0.00
18.40	U	ND	ND	Y	0.00	0.00
29.58	U	ND	ND	Y	0.00	0.00
16.22	U	ND	ND	Y	0.00	0.00
2.29	U	ND	ND	Y	0.00	0.00
16.22	U	ND	ND	Y	0.00	0.00
13.99	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**04**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.31
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) / (Avg RFn) × (Cistdi) / (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) × 1000 / (SV) × (CDF)

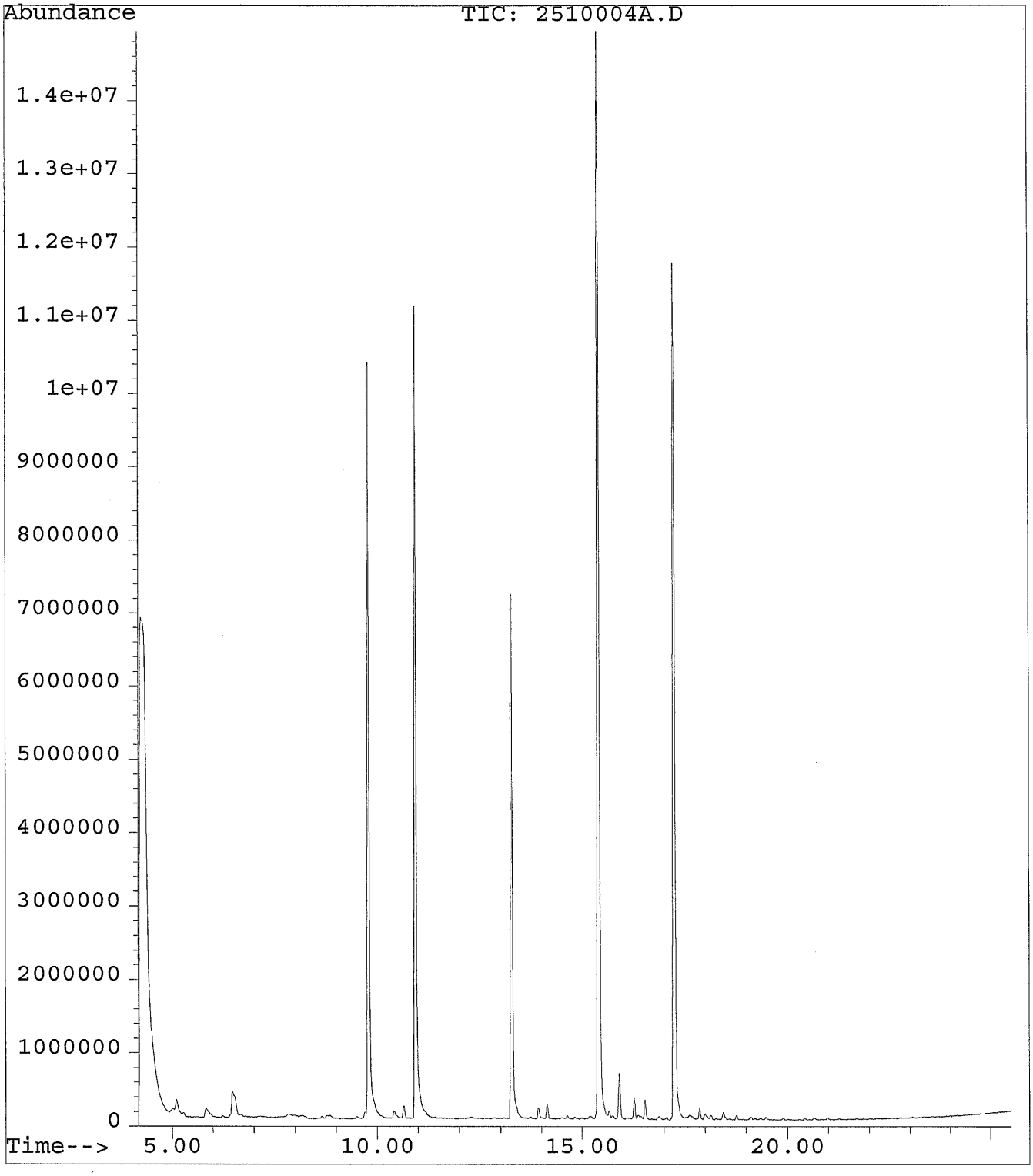
4) Amount ug/m3 = (amt(ppbv) × MW) / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	38088	20.0	12469194	0.248	1.08	1.87
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	12469194	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	196008	20.0	12469194	0.286	1.25	1.64
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	12469194	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	12469194	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	12469194	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	12469194	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	12469194	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	12469194	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	64269	20.0	12469194	0.725	3.16	5.97
12	Acrolein	PFB	TRG	56.1	0.130	0	20.0	12469194	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	12469194	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	305864	20.0	12469194	2.057	8.98	21.37
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	0	20.0	12469194	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	12469194	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	12469194	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	12469194	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	12469194	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	12469194	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	12469194	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	12469194	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	12469194	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	12469194	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	12469194	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	12469194	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	12469194	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	12469194	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	12469194	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	0	20.0	12469194	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	12469194	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	12469194	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	12469194	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	12469194	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	12469194	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	12469194	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	25683	20.0	12469194	0.193	0.84	2.49
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	12469194	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	12469194	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	12469194	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	12469194	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	15004410	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	15004410	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	15004410	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	15004410	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	213006	20.0	15004410	0.264	1.15	3.69
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	15004410	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	15004410	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	15004410	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	15004410	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	15004410	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	15004410	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	15004410	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	15004410	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	15004410	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	15004410	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	15004410	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	15004410	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	0	20.0	15004410	0.000	0.00	0.00
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	15004410	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	15004410	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	15004410	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	15004410	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	15004410	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	38030	20.0	15004410	0.086	0.37	1.75
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	15004410	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	15004410	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	15004410	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	16209220	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	16209220	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	0	20.0	16209220	0.000	0.00	0.00
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	672149	20.0	16209220	0.521	2.28	9.90
76	Nonane	d5CB	TRG	128.3	1.278	135591	20.0	16209220	0.131	0.57	3.00
77	Styrene	d5CB	TRG	104.2	1.106	0	20.0	16209220	0.000	0.00	0.00
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	16209220	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	300559	20.0	16209220	0.223	0.97	4.24
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	16209220	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	16209220	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	16209220	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	16209220	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	16209220	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	16209220	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	0	20.0	16209220	0.000	0.00	0.00
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	16209220	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	16209220	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	0	20.0	16209220	0.000	0.00	0.00
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	16209220	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	16209220	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	16209220	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	16209220	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	16209220	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	16209220	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	16209220	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	16209220	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	16209220	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	16209220	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	16209220	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	16209220	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	16209220	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	12469194	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	15004410	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	16209220	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	8703812	10.0		9.436	94.36	94

File : C:\MSCHEM\1\DATA\03315A_C\2510004A.D
Operator : LR
Acquired : 31 Mar 125 4:34 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-104
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **5**

Client ID T-105

Analytical Method TO-15

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Calculations
Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 05

File Name: 2510005A.D
Description: T-105
Canister: 685
QC_Batch: 033125-MA1

Date Sampled: 03/19/25 **Time:** 10:16
Date Analyzed: 03/31/25 **Time:** 17:14
Can Dilution Factor: 1.23
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.41	1.03	0.55	0.71	1.77	0.95	J
75-71-8	Dichlorodifluoromethane	0.62	1.03	ND	3.05	5.08	ND	
67-56-1	Methanol	2.05	2.46	ND	2.69	3.22	ND	
74-87-3	Chloromethane	0.62	1.03	ND	1.27	2.12	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.41	1.03	ND	2.87	7.17	ND	
75-01-4	Vinyl chloride	0.21	1.03	ND	0.53	2.62	ND	
106-99-0	1,3-Butadiene	0.21	1.03	ND	0.46	2.27	ND	
74-83-9	Bromomethane	0.41	1.03	ND	1.59	3.98	ND	
75-00-3	Chloroethane	0.41	1.03	ND	1.08	2.71	ND	
64-17-5	Ethanol	2.05	13.16	ND	3.87	24.85	ND	
107-02-8	Acrolein	0.41	1.23	ND	0.94	2.83	ND	
75-69-4	Trichlorofluoromethane	0.41	1.03	ND	2.31	5.77	ND	
67-64-1	Acetone	2.05	2.46	2.72	4.88	5.85	6.47	
67-63-0	2-propanol (isopropylalcohol)	0.82	5.13	ND	2.02	12.61	ND	
75-65-0	t-Butyl alcohol	0.41	4.10	ND	1.24	12.44	ND	
4227-95-6	Methyl iodide	0.41	1.23	ND	2.40	7.20	ND	
75-35-4	1,1-Dichloroethene	0.21	1.03	ND	0.81	4.07	ND	
107-13-1	Acrylonitrile	0.82	1.23	ND	1.78	2.67	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.03	ND	1.57	7.87	ND	
107-05-1	Allyl chloride	0.21	4.10	ND	0.64	12.85	ND	
75-09-2	Methylene chloride	0.21	1.03	ND	0.71	3.56	ND	
75-15-0	Carbon disulfide	0.41	1.03	ND	1.28	3.19	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.82	ND	0.81	3.25	ND	
1634-04-4	Methyl tert butyl ether	0.41	0.82	ND	1.48	2.96	ND	
107-12-0	Propionitrile	1.03	1.64	ND	2.31	3.70	ND	
75-34-3	1,1-Dichloroethane	0.20	1.03	ND	0.83	4.16	ND	
637-92-3	Ethyl tert butyl ether	0.41	1.03	ND	1.72	4.29	ND	
108-05-4	Vinyl acetate	0.21	4.10	ND	0.72	14.46	ND	
78-93-3	2-Butanone (MEK)	0.41	1.23	ND	1.21	3.63	ND	
108-20-3	Diisopropyl ether	0.41	2.46	ND	1.72	10.30	ND	
110-54-3	Hexane	0.41	1.03	ND	1.45	3.62	ND	
126-98-7	Methacrylonitrile	0.41	1.03	ND	1.13	2.82	ND	
141-78-6	Ethyl acetate	0.41	1.03	ND	1.48	3.70	ND	
74-97-5	Bromochloromethane	0.21	1.03	ND	1.09	5.43	ND	
96-33-3	Methyl acrylate	0.41	2.05	ND	1.45	7.23	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.23	ND	0.61	3.63	ND	
78-83-1	Isobutyl alcohol	0.82	3.28	ND	2.49	9.95	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.03	ND	0.81	4.07	ND	
594-20-7	2,2-Dichloropropane	0.21	1.03	ND	0.95	4.74	ND	
67-66-3	Chloroform	0.21	1.03	ND	1.01	5.01	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.03	ND	1.12	5.60	ND	
107-06-2	1,2-Dichloroethane	0.21	1.03	ND	0.83	4.16	ND	
563-58-6	1,1-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
110-82-7	Cyclohexane	0.21	1.03	ND	0.71	3.53	ND	
71-43-2	Benzene	1.44	2.05	3.62	4.59	6.56	11.59	
56-23-5	Carbon tetrachloride	0.21	1.03	ND	1.29	6.46	ND	
994-05-8	t-Amyl methyl ether	0.41	2.05	ND	1.72	8.58	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.03	ND	0.96	4.79	ND	
142-82-5	n-Heptane	0.41	1.03	ND	1.68	4.21	ND	
78-87-5	1,2-Dichloropropane	0.21	1.03	ND	0.95	4.74	ND	
123-91-1	1,4 Dioxane	0.41	2.05	ND	1.48	7.40	ND	
74-95-3	Dibromomethane	0.21	1.03	ND	1.46	7.30	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.03	ND	0.55	5.52	ND	
75-27-4	Bromodichloromethane	0.21	1.03	ND	1.38	6.88	ND	
80-62-6	Methyl methacrylate	0.41	1.03	ND	1.68	4.20	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.41	3.28	ND	1.68	13.46	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
108-88-3	Toluene	0.82	1.03	1.22	3.09	3.87	4.58	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.03	ND	1.12	5.60	ND	
97-63-2	Ethyl methacrylate	0.41	1.03	ND	1.92	4.79	ND	
591-78-6	2-Hexanone	0.41	3.28	ND	1.68	13.46	ND	
142-28-9	1,3-Dichloropropane	0.21	2.87	ND	0.95	13.28	ND	
111-65-9	Octane	0.41	1.03	ND	1.92	4.79	ND	
124-48-1	Dibromochloromethane	0.41	1.03	ND	3.50	8.74	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.41	1.03	ND	3.16	7.89	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.03	ND	0.70	6.96	ND	
108-90-7	Chlorobenzene	0.41	1.03	ND	1.89	4.73	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.41	1.03	ND	2.82	7.04	ND	
100-41-4	Ethylbenzene	0.41	1.03	0.63	1.78	4.46	2.76	J
1330-20-7	m,p-Xylenes	0.41	1.03	1.13	1.78	4.46	4.93	
111-84-2	Nonane	0.41	1.03	ND	2.15	5.39	ND	
100-42-5	Styrene	0.62	1.03	ND	2.62	4.37	ND	
75-25-2	Bromoform	0.41	1.03	ND	4.24	10.61	ND	
95-47-6	o-Xylene	0.41	1.03	ND	1.78	4.46	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.82	2.05	ND	5.64	14.09	ND	
96-18-4	1,2,3-Trichloropropane	0.82	2.46	ND	4.95	14.85	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.82	2.46	ND	4.20	12.59	ND	
103-65-1	n-Propylbenzene	0.82	2.87	ND	4.04	14.13	ND	
98-82-8	Isopropylbenzene	0.82	2.87	ND	4.04	14.13	ND	
622-96-8	4-Ethyltoluene	0.82	6.56	ND	4.04	32.29	ND	
108-67-8	1,3,5-Trimethylbenzene	0.82	3.69	ND	4.04	18.17	ND	
124-18-5	Decane	0.82	2.46	ND	4.78	14.34	ND	
98-06-6	tert-butyl benzene	0.82	2.46	ND	4.51	13.52	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.82	3.69	ND	4.04	18.17	ND	
538-93-2	i-Butylbenzene	0.82	2.46	ND	4.51	13.52	ND	
135-98-8	sec-butylbenzene	0.82	2.87	ND	4.51	15.77	ND	
541-73-1	1,3-Dichlorobenzene	0.82	3.28	ND	4.94	19.75	ND	
99-87-6	Isopropyltoluene	0.82	2.46	ND	4.51	13.52	ND	
100-44-7	Benzyl chloride	0.82	2.05	ND	4.25	10.63	ND	
106-46-7	1,4-Dichlorobenzene	0.82	2.05	ND	4.94	12.34	ND	
104-51-8	n-Butylbenzene	0.82	2.46	ND	4.51	13.52	ND	
95-50-1	1,2-Dichlorobenzene	0.82	2.87	ND	4.94	17.28	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.23	2.87	ND	11.90	27.77	ND	
120-82-1	1,2,4-Trichlorobenzene	1.23	2.05	ND	9.14	15.23	ND	
91-20-3	Naphthalene	2.05	0.41	ND	10.76	2.15	ND	
87-61-6	1,2,3-Trichlorobenzene	1.23	2.05	ND	9.14	15.23	ND	
87-68-3	Hexachlorobutadiene	1.03	1.23	ND	10.95	13.14	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	97	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**05**		
File Name:	2510005A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/19/25**	**Time:**	**10:16**
Sample ID:	T-105	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**03/31/25**	**Time:**	**17:14**
Anal Date:	31 Mar 125 5:14 pm	**SF:**	**2**	**QCbatch:**	**033125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**685**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.23**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	LR	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.134	4.41	42.00	22826
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.131	4.86	31.00	99796
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.479	5.72	46.00	47250
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	0.663	6.42	58.00	109613
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.883	10.70	78.00	761930
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.296	13.50	91.00	357256
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.155	15.90	106	231810
1330-20-7	m,p-Xylenes	75	TRG	0.276	16.06	91.00	369825
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.000	16.61	104.00	0
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.077	16.56	91.00	108255
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.000	18.31	105.00	0
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.000	18.95	105.00	0
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**13863070**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**16066748**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**16826626**
2037-26-5	Toluene-d8	103	SURR	9.683	13.40	98.00	**9564244**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**05**
File Name:	2510005A.D
Run Method:	A1563_P.M
Can Factor:	1.23
Air Volume:	300.0 ml
Can/Tube Number:	685
Dilution Factor:	0.3690
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3690
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.13	0.55	0.95	0.55	0.95	0.95	0.95	0.100	0.250	0.41	0.71	1.03
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.62	3.05	1.03
Methanol	32.0	0.13	0.54	0.70	ND	ND	0		0.500	0.600	2.05	2.69	2.46
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.62	1.27	1.03
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.87	1.03
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.53	1.03
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.46	1.03
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.59	1.03
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.08	1.03
Ethanol	46.1	0.48	1.96	3.71	ND	ND	0		0.500	3.210	2.05	3.87	13.16
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.41	0.94	1.23
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.31	1.03
Acetone	58.1	0.66	2.72	6.47	2.72	6.47	6.47	6.47	0.500	0.600	2.05	4.88	2.46
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		0.200	1.250	0.82	2.02	5.13
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.41	1.24	4.10
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.41	2.40	1.23
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.81	1.03
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.82	1.78	1.23
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.57	1.03
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.64	4.10
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.71	1.03
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.28	1.03
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.21	0.81	0.82
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.41	1.48	0.82
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.03	2.31	1.64
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.83	1.03
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.72	1.03
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.72	4.10
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.41	1.21	1.23
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.41	1.72	2.46
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.45	1.03
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.13	1.03
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.48	1.03
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.09	1.03
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.45	2.05
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.21	0.61	1.23
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.82	2.49	3.28
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.81	1.03
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.03
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.01	1.03
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.12	1.03
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.83	1.03
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.93	1.03
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.71	1.03
Benzene	78.1	0.88	3.62	11.59	3.62	11.59	11.59	11.59	0.350	0.500	1.44	4.59	2.05
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.29	1.03
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.72	2.05
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.03
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.68	1.03

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.03
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.48	2.05
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.46	1.03
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.55	1.03
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.38	1.03
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.68	1.03
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.41	1.68	3.28
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.93	1.03
Toluene	92.1	0.30	1.22	4.58	1.22	4.58	4.58	4.58	0.200	0.250	0.82	3.09	1.03
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.93	1.03
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.12	1.03
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.92	1.03
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.41	1.68	3.28
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.21	0.95	2.87
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.92	1.03
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	3.50	1.03
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	3.16	1.03
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.70	1.03
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.89	1.03
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.82	1.03
Ethylbenzene	106.2	0.15	0.63	2.76	0.63	2.76	2.76	2.76	0.100	0.250	0.41	1.78	1.03
m,p-Xylenes	106.2	0.28	1.13	4.93	1.13	4.93	4.93	4.93	0.100	0.250	0.41	1.78	1.03
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.15	1.03
Styrene	104.2	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.62	2.62	1.03
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	4.24	1.03
o-Xylene	106.2	0.08	0.32	1.38	ND	ND	0		0.100	0.250	0.41	1.78	1.03
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.82	5.64	2.05
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.95	2.46
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.20	2.46
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.82	4.04	2.87
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.82	4.04	2.87
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.82	4.04	6.56
1,3,5-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.82	4.04	3.69
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.78	2.46
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.51	2.46
1,2,4-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.82	4.04	3.69
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.51	2.46
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.82	4.51	2.87
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.82	4.94	3.28
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.51	2.46
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.82	4.25	2.05
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.82	4.94	2.05
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.51	2.46
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.82	4.94	2.87
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.23	11.90	2.87
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.23	9.14	2.05
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.05	10.76	0.41
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.23	9.14	2.05
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.03	10.95	1.23
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		9.68	97	97	97	97	97	97	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.77	J	J		=		Y	0.55	0.95
5.08	U	ND		ND		Y	0.00	0.00
3.22	U	ND		ND		Y	0.00	0.00
2.12	U	ND		ND		Y	0.00	0.00
7.17	U	ND		ND		Y	0.00	0.00
2.62	U	ND		ND		Y	0.00	0.00
2.27	U	ND		ND		Y	0.00	0.00
3.98	U	ND		ND		Y	0.00	0.00
2.71	U	ND		ND		Y	0.00	0.00
24.85	U	ND		ND		Y	0.00	0.00
2.83	U	ND		ND		Y	0.00	0.00
5.77	U	ND		ND		Y	0.00	0.00
5.85				=		Y	2.72	6.47
12.61	U	ND		ND		Y	0.00	0.00
12.44	U	ND		ND		Y	0.00	0.00
7.20	U	ND		ND		Y	0.00	0.00
4.07	U	ND		ND		Y	0.00	0.00
2.67	U	ND		ND		Y	0.00	0.00
7.87	U	ND		ND		Y	0.00	0.00
12.85	U	ND		ND		Y	0.00	0.00
3.56	U	ND		ND		Y	0.00	0.00
3.19	U	ND		ND		Y	0.00	0.00
3.25	U	ND		ND		Y	0.00	0.00
2.96	U	ND		ND		Y	0.00	0.00
3.70	U	ND		ND		Y	0.00	0.00
4.16	U	ND		ND		Y	0.00	0.00
4.29	U	ND		ND		Y	0.00	0.00
14.46	U	ND		ND		Y	0.00	0.00
3.63	U	ND		ND		Y	0.00	0.00
10.30	U	ND		ND		Y	0.00	0.00
3.62	U	ND		ND		Y	0.00	0.00
2.82	U	ND		ND		Y	0.00	0.00
3.70	U	ND		ND		Y	0.00	0.00
5.43	U	ND		ND		Y	0.00	0.00
7.23	U	ND		ND		Y	0.00	0.00
3.63	U	ND		ND		Y	0.00	0.00
9.95	U	ND		ND		Y	0.00	0.00
4.07	U	ND		ND		Y	0.00	0.00
4.74	U	ND		ND		Y	0.00	0.00
5.01	U	ND		ND		Y	0.00	0.00
5.60	U	ND		ND		Y	0.00	0.00
4.16	U	ND		ND		Y	0.00	0.00
4.66	U	ND		ND		Y	0.00	0.00
3.53	U	ND		ND		Y	0.00	0.00
6.56				=		Y	3.62	11.59
6.46	U	ND		ND		Y	0.00	0.00
8.58	U	ND		ND		Y	0.00	0.00
4.79	U	ND		ND		Y	0.00	0.00
4.21	U	ND		ND		Y	0.00	0.00

4.74	U	ND	ND	Y	0.00	0.00
7.40	U	ND	ND	Y	0.00	0.00
7.30	U	ND	ND	Y	0.00	0.00
5.52	U	ND	ND	Y	0.00	0.00
6.88	U	ND	ND	Y	0.00	0.00
4.20	U	ND	ND	Y	0.00	0.00
13.46	U	ND	ND	Y	0.00	0.00
4.66	U	ND	ND	Y	0.00	0.00
3.87			=	Y	1.22	4.58
4.66	U	ND	ND	Y	0.00	0.00
5.60	U	ND	ND	Y	0.00	0.00
4.79	U	ND	ND	Y	0.00	0.00
13.46	U	ND	ND	Y	0.00	0.00
13.28	U	ND	ND	Y	0.00	0.00
4.79	U	ND	ND	Y	0.00	0.00
8.74	U	ND	ND	Y	0.00	0.00
7.89	U	ND	ND	Y	0.00	0.00
6.96	U	ND	ND	Y	0.00	0.00
4.73	U	ND	ND	Y	0.00	0.00
7.04	U	ND	ND	Y	0.00	0.00
4.46	J	J	=	Y	0.63	2.76
4.46			=	Y	1.13	4.93
5.39	U	ND	ND	Y	0.00	0.00
4.37	U	ND	ND	Y	0.00	0.00
10.61	U	ND	ND	Y	0.00	0.00
4.46	U	ND	ND	Y	0.00	0.00
14.09	U	ND	ND	Y	0.00	0.00
14.85	U	ND	ND	Y	0.00	0.00
12.59	U	ND	ND	Y	0.00	0.00
14.13	U	ND	ND	Y	0.00	0.00
14.13	U	ND	ND	Y	0.00	0.00
32.29	U	ND	ND	Y	0.00	0.00
18.17	U	ND	ND	Y	0.00	0.00
14.34	U	ND	ND	Y	0.00	0.00
13.52	U	ND	ND	Y	0.00	0.00
18.17	U	ND	ND	Y	0.00	0.00
13.52	U	ND	ND	Y	0.00	0.00
15.77	U	ND	ND	Y	0.00	0.00
19.75	U	ND	ND	Y	0.00	0.00
13.52	U	ND	ND	Y	0.00	0.00
10.63	U	ND	ND	Y	0.00	0.00
12.34	U	ND	ND	Y	0.00	0.00
13.52	U	ND	ND	Y	0.00	0.00
17.28	U	ND	ND	Y	0.00	0.00
27.77	U	ND	ND	Y	0.00	0.00
15.23	U	ND	ND	Y	0.00	0.00
2.15	U	ND	ND	Y	0.00	0.00
15.23	U	ND	ND	Y	0.00	0.00
13.14	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**05**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.23
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\frac{(Astdni)\ (Cistdi)}{(Cstdni)\ (Aistdi)}$ Note: 1 i

2) Raw Amt = $\frac{(Ansamp)\ (Cistdi)}{(Avg\ RFn)\ (Aistdi)}$ **= Cn**

3) Amount ppbv = $\frac{(Raw\ Amt)\ 1000\ (CDF)}{(SV)}$

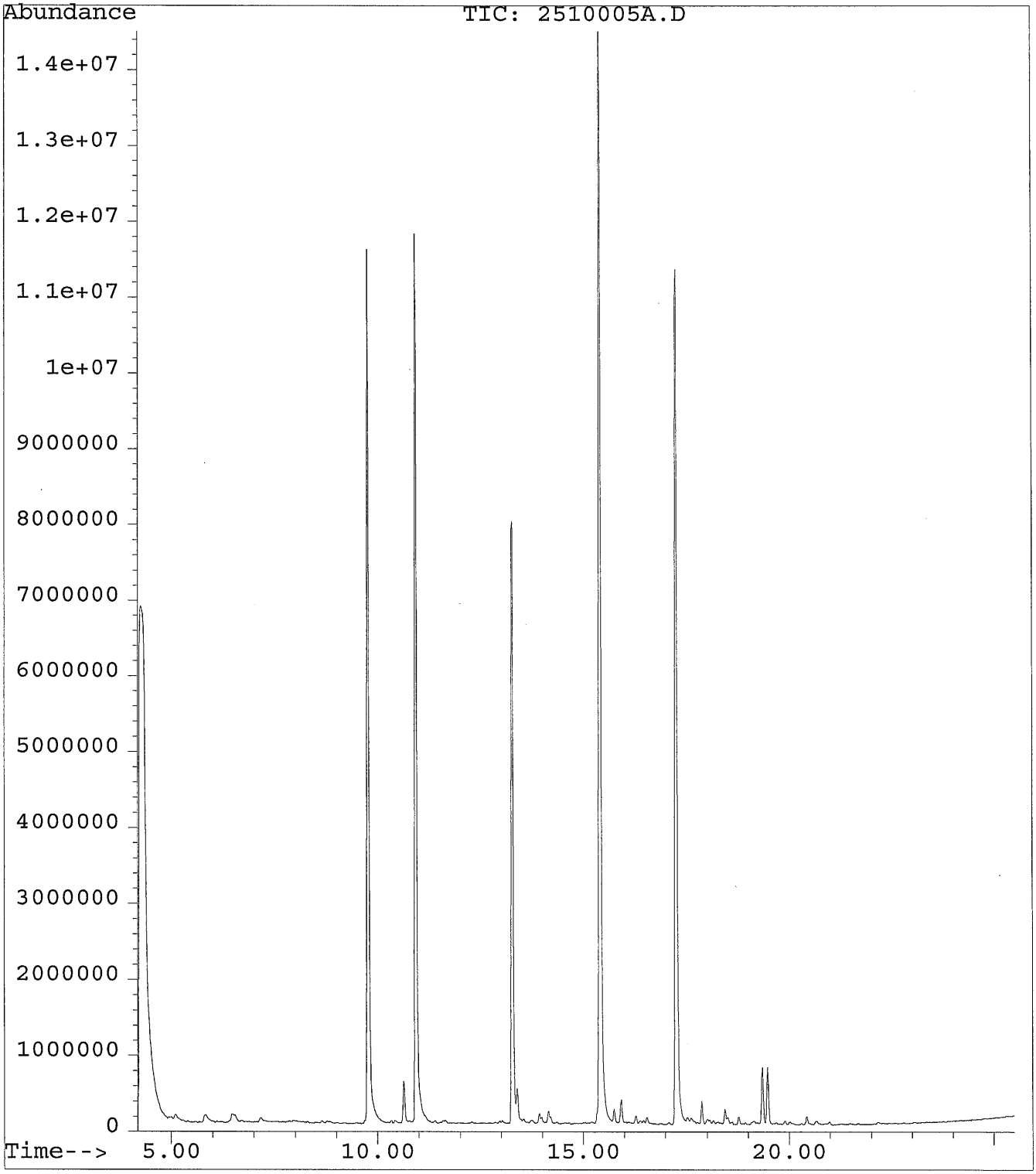
4) Amount ug/m3 = $\frac{(amt(ppbv)\ MW}{24.42}$

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	22826	20.0	13863070	0.134	0.55	0.95
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	13863070	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	99796	20.0	13863070	0.131	0.54	0.70
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	13863070	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	13863070	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	13863070	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	13863070	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	13863070	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	13863070	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	47250	20.0	13863070	0.479	1.96	3.71
12	Acrolein	PFB	TRG	56.1	0.130	0	20.0	13863070	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	13863070	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	109613	20.0	13863070	0.663	2.72	6.47
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	0	20.0	13863070	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	13863070	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	13863070	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	13863070	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	13863070	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	13863070	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	13863070	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	13863070	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	13863070	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	13863070	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	13863070	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	13863070	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	13863070	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	13863070	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	13863070	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	0	20.0	13863070	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	13863070	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	13863070	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	13863070	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	13863070	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	13863070	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	13863070	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	13863070	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	13863070	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	13863070	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	13863070	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	13863070	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	16066748	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	16066748	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	16066748	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	16066748	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	761930	20.0	16066748	0.883	3.62	11.59
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	16066748	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	16066748	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	16066748	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	16066748	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	16066748	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	16066748	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	16066748	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	16066748	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	16066748	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	16066748	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	16066748	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	16066748	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	357256	20.0	16066748	0.296	1.22	4.58
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	16066748	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	16066748	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	16066748	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	16066748	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	16066748	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	16066748	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	16066748	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	16066748	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	16066748	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	16826626	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	16826626	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	231810	20.0	16826626	0.155	0.63	2.76
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	369825	20.0	16826626	0.276	1.13	4.93
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	16826626	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	0	20.0	16826626	0.000	0.00	0.00
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	16826626	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	108255	20.0	16826626	0.077	0.32	1.38
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	16826626	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	16826626	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	16826626	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	16826626	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	16826626	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	16826626	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	0	20.0	16826626	0.000	0.00	0.00
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	16826626	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	16826626	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	0	20.0	16826626	0.000	0.00	0.00
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	16826626	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	16826626	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	16826626	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	16826626	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	16826626	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	16826626	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	16826626	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	16826626	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	16826626	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	16826626	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	16826626	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	16826626	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	16826626	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	13863070	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	16066748	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	16826626	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9564244	10.0		9.683	96.83	97

File : C:\MSCHEM\1\DATA\03315A_C\2510005A.D
Operator : LR
Acquired : 31 Mar 125 5:14 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-105
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **6**

Client ID T-106

Analytical Method TO-15

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 06

File Name: 2510006A.D
Description: T-106
Canister: 621
QC_Batch: 033125-MA1

Date Sampled: 03/19/25 **Time:** 10:22
Date Analyzed: 03/31/25 **Time:** 17:56
Can Dilution Factor: 1.23
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.41	1.03	0.64	0.71	1.77	1.10	J
75-71-8	Dichlorodifluoromethane	0.62	1.03	ND	3.05	5.08	ND	
67-56-1	Methanol	2.05	2.46	ND	2.69	3.22	ND	
74-87-3	Chloromethane	0.62	1.03	ND	1.27	2.12	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.41	1.03	ND	2.87	7.17	ND	
75-01-4	Vinyl chloride	0.21	1.03	ND	0.53	2.62	ND	
106-99-0	1,3-Butadiene	0.21	1.03	ND	0.46	2.27	ND	
74-83-9	Bromomethane	0.41	1.03	ND	1.59	3.98	ND	
75-00-3	Chloroethane	0.41	1.03	ND	1.08	2.71	ND	
64-17-5	Ethanol	2.05	13.16	ND	3.87	24.85	ND	
107-02-8	Acrolein	0.41	1.23	ND	0.94	2.83	ND	
75-69-4	Trichlorofluoromethane	0.41	1.03	ND	2.31	5.77	ND	
67-64-1	Acetone	2.05	2.46	2.70	4.88	5.85	6.42	
67-63-0	2-propanol (isopropylalcohol)	0.82	5.13	ND	2.02	12.61	ND	
75-65-0	t-Butyl alcohol	0.41	4.10	ND	1.24	12.44	ND	
4227-95-6	Methyl iodide	0.41	1.23	ND	2.40	7.20	ND	
75-35-4	1,1-Dichloroethene	0.21	1.03	ND	0.81	4.07	ND	
107-13-1	Acrylonitrile	0.82	1.23	ND	1.78	2.67	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.03	ND	1.57	7.87	ND	
107-05-1	Allyl chloride	0.21	4.10	ND	0.64	12.85	ND	
75-09-2	Methylene chloride	0.21	1.03	ND	0.71	3.56	ND	
75-15-0	Carbon disulfide	0.41	1.03	ND	1.28	3.19	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.82	ND	0.81	3.25	ND	
1634-04-4	Methyl tert butyl ether	0.41	0.82	ND	1.48	2.96	ND	
107-12-0	Propionitrile	1.03	1.64	ND	2.31	3.70	ND	
75-34-3	1,1-Dichloroethane	0.20	1.03	ND	0.83	4.16	ND	
637-92-3	Ethyl tert butyl ether	0.41	1.03	ND	1.72	4.29	ND	
108-05-4	Vinyl acetate	0.21	4.10	ND	0.72	14.46	ND	
78-93-3	2-Butanone (MEK)	0.41	1.23	ND	1.21	3.63	ND	
108-20-3	Diisopropyl ether	0.41	2.46	ND	1.72	10.30	ND	
110-54-3	Hexane	0.41	1.03	ND	1.45	3.62	ND	
126-98-7	Methacrylonitrile	0.41	1.03	ND	1.13	2.82	ND	
141-78-6	Ethyl acetate	0.41	1.03	ND	1.48	3.70	ND	
74-97-5	Bromochloromethane	0.21	1.03	ND	1.09	5.43	ND	
96-33-3	Methyl acrylate	0.41	2.05	ND	1.45	7.23	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.23	0.53	0.61	3.63	1.55	J
78-83-1	Isobutyl alcohol	0.82	3.28	ND	2.49	9.95	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.03	ND	0.81	4.07	ND	
594-20-7	2,2-Dichloropropane	0.21	1.03	ND	0.95	4.74	ND	
67-66-3	Chloroform	0.21	1.03	ND	1.01	5.01	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.03	ND	1.12	5.60	ND	
107-06-2	1,2-Dichloroethane	0.21	1.03	ND	0.83	4.16	ND	
563-58-6	1,1-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
110-82-7	Cyclohexane	0.21	1.03	ND	0.71	3.53	ND	
71-43-2	Benzene	1.44	2.05	1.90	4.59	6.56	6.06	J
56-23-5	Carbon tetrachloride	0.21	1.03	ND	1.29	6.46	ND	
994-05-8	t-Amyl methyl ether	0.41	2.05	ND	1.72	8.58	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.03	ND	0.96	4.79	ND	
142-82-5	n-Heptane	0.41	1.03	ND	1.68	4.21	ND	
78-87-5	1,2-Dichloropropane	0.21	1.03	ND	0.95	4.74	ND	
123-91-1	1,4 Dioxane	0.41	2.05	ND	1.48	7.40	ND	
74-95-3	Dibromomethane	0.21	1.03	ND	1.46	7.30	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.03	ND	0.55	5.52	ND	
75-27-4	Bromodichloromethane	0.21	1.03	ND	1.38	6.88	ND	
80-62-6	Methyl methacrylate	0.41	1.03	ND	1.68	4.20	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.41	3.28	ND	1.68	13.46	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
108-88-3	Toluene	0.82	1.03	ND	3.09	3.87	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.03	ND	1.12	5.60	ND	
97-63-2	Ethyl methacrylate	0.41	1.03	ND	1.92	4.79	ND	
591-78-6	2-Hexanone	0.41	3.28	ND	1.68	13.46	ND	
142-28-9	1,3-Dichloropropane	0.21	2.87	ND	0.95	13.28	ND	
111-65-9	Octane	0.41	1.03	ND	1.92	4.79	ND	
124-48-1	Dibromochloromethane	0.41	1.03	ND	3.50	8.74	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.41	1.03	ND	3.16	7.89	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.03	ND	0.70	6.96	ND	
108-90-7	Chlorobenzene	0.41	1.03	ND	1.89	4.73	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.41	1.03	ND	2.82	7.04	ND	
100-41-4	Ethylbenzene	0.41	1.03	ND	1.78	4.46	ND	
1330-20-7	m,p-Xylenes	0.41	1.03	ND	1.78	4.46	ND	
111-84-2	Nonane	0.41	1.03	ND	2.15	5.39	ND	
100-42-5	Styrene	0.62	1.03	ND	2.62	4.37	ND	
75-25-2	Bromoform	0.41	1.03	ND	4.24	10.61	ND	
95-47-6	o-Xylene	0.41	1.03	ND	1.78	4.46	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.82	2.05	ND	5.64	14.09	ND	
96-18-4	1,2,3-Trichloropropane	0.82	2.46	ND	4.95	14.85	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.82	2.46	ND	4.20	12.59	ND	
103-65-1	n-Propylbenzene	0.82	2.87	ND	4.04	14.13	ND	
98-82-8	Isopropylbenzene	0.82	2.87	ND	4.04	14.13	ND	
622-96-8	4-Ethyltoluene	0.82	6.56	ND	4.04	32.29	ND	
108-67-8	1,3,5-Trimethylbenzene	0.82	3.69	ND	4.04	18.17	ND	
124-18-5	Decane	0.82	2.46	ND	4.78	14.34	ND	
98-06-6	tert-butyl benzene	0.82	2.46	ND	4.51	13.52	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.82	3.69	ND	4.04	18.17	ND	
538-93-2	i-Butylbenzene	0.82	2.46	ND	4.51	13.52	ND	
135-98-8	sec-butylbenzene	0.82	2.87	ND	4.51	15.77	ND	
541-73-1	1,3-Dichlorobenzene	0.82	3.28	ND	4.94	19.75	ND	
99-87-6	Isopropyltoluene	0.82	2.46	ND	4.51	13.52	ND	
100-44-7	Benzyl chloride	0.82	2.05	ND	4.25	10.63	ND	
106-46-7	1,4-Dichlorobenzene	0.82	2.05	ND	4.94	12.34	ND	
104-51-8	n-Butylbenzene	0.82	2.46	ND	4.51	13.52	ND	
95-50-1	1,2-Dichlorobenzene	0.82	2.87	ND	4.94	17.28	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.23	2.87	ND	11.90	27.77	ND	
120-82-1	1,2,4-Trichlorobenzene	1.23	2.05	ND	9.14	15.23	ND	
91-20-3	Naphthalene	2.05	0.41	ND	10.76	2.15	ND	
87-61-6	1,2,3-Trichlorobenzene	1.23	2.05	ND	9.14	15.23	ND	
87-68-3	Hexachlorobutadiene	1.03	1.23	ND	10.95	13.14	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	96	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**06**		
File Name:	2510006A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/19/25**	**Time:**	**10:22**
Sample ID:	T-106	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**03/31/25**	**Time:**	**17:56**
Anal Date:	31 Mar 125 5:56 pm	**SF:**	**2**	**QCbatch:**	**033125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**621**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.23**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	LR	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.156	4.41	42.00	22851
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.101	4.86	31.00	66372
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	0.658	6.42	58.00	93411
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.128	9.72	72.00	16286
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.462	10.70	78.00	357482
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.086	13.50	91.00	93090
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.000	15.90	106	0
1330-20-7	m,p-Xylenes	75	TRG	0.000	16.06	91.00	0
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.000	16.61	104.00	0
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	16.89	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.000	18.31	105.00	0
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.000	18.95	105.00	0
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**11907528**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**14400747**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15488913**
2037-26-5	Toluene-d8	103	SURR	9.581	13.40	98.00	**8482078**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**06**
File Name:	2510006A.D
Run Method:	A1563_P.M
Can Factor:	1.23
Air Volume:	300.0 ml
Can/Tube Number:	621
Dilution Factor:	0.3690
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3690
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.16	0.64	1.10	0.64	1.10	1.10	1.10	0.100	0.250	0.41	0.71	1.03
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.62	3.05	1.03
Methanol	32.0	0.10	0.42	0.54	ND	ND	0		0.500	0.600	2.05	2.69	2.46
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.62	1.27	1.03
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.87	1.03
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.53	1.03
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.46	1.03
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.59	1.03
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.08	1.03
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	2.05	3.87	13.16
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.41	0.94	1.23
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.31	1.03
Acetone	58.1	0.66	2.70	6.42	2.70	6.42	6.42	6.42	0.500	0.600	2.05	4.88	2.46
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		0.200	1.250	0.82	2.02	5.13
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.41	1.24	4.10
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.41	2.40	1.23
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.81	1.03
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.82	1.78	1.23
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.57	1.03
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.64	4.10
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.71	1.03
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.28	1.03
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.21	0.81	0.82
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.41	1.48	0.82
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.03	2.31	1.64
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.83	1.03
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.72	1.03
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.72	4.10
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.41	1.21	1.23
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.41	1.72	2.46
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.45	1.03
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.13	1.03
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.48	1.03
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.09	1.03
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.45	2.05
Tetrahydrofuran	72.1	0.13	0.53	1.55	0.53	1.55	1.55	1.55	0.050	0.300	0.21	0.61	1.23
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.82	2.49	3.28
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.81	1.03
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.03
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.01	1.03
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.12	1.03
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.83	1.03
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.93	1.03
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.71	1.03
Benzene	78.1	0.46	1.90	6.06	1.90	6.06	6.06	6.06	0.350	0.500	1.44	4.59	2.05
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.29	1.03
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.72	2.05
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.03
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.68	1.03

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.03
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.48	2.05
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.46	1.03
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.55	1.03
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.38	1.03
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.68	1.03
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.41	1.68	3.28
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.93	1.03
Toluene	92.1	0.09	0.35	1.33	ND	ND	0		0.200	0.250	0.82	3.09	1.03
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.93	1.03
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.12	1.03
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.92	1.03
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.41	1.68	3.28
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.21	0.95	2.87
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.92	1.03
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	3.50	1.03
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	3.16	1.03
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.70	1.03
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.89	1.03
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.82	1.03
Ethylbenzene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.78	1.03
m,p-Xylenes	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.78	1.03
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.15	1.03
Styrene	104.2	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.62	2.62	1.03
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	4.24	1.03
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.78	1.03
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.82	5.64	2.05
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.95	2.46
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.20	2.46
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.82	4.04	2.87
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.82	4.04	2.87
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.82	4.04	6.56
1,3,5-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.82	4.04	3.69
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.78	2.46
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.51	2.46
1,2,4-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.82	4.04	3.69
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.51	2.46
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.82	4.51	2.87
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.82	4.94	3.28
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.51	2.46
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.82	4.25	2.05
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.82	4.94	2.05
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.51	2.46
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.82	4.94	2.87
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.23	11.90	2.87
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.23	9.14	2.05
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.05	10.76	0.41
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.23	9.14	2.05
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.03	10.95	1.23
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		9.58	96	96	96	96	96	96	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.77	J	J		=		Y	0.64	1.10
5.08	U	ND		ND		Y	0.00	0.00
3.22	U	ND		ND		Y	0.00	0.00
2.12	U	ND		ND		Y	0.00	0.00
7.17	U	ND		ND		Y	0.00	0.00
2.62	U	ND		ND		Y	0.00	0.00
2.27	U	ND		ND		Y	0.00	0.00
3.98	U	ND		ND		Y	0.00	0.00
2.71	U	ND		ND		Y	0.00	0.00
24.85	U	ND		ND		Y	0.00	0.00
2.83	U	ND		ND		Y	0.00	0.00
5.77	U	ND		ND		Y	0.00	0.00
5.85				=		Y	2.70	6.42
12.61	U	ND		ND		Y	0.00	0.00
12.44	U	ND		ND		Y	0.00	0.00
7.20	U	ND		ND		Y	0.00	0.00
4.07	U	ND		ND		Y	0.00	0.00
2.67	U	ND		ND		Y	0.00	0.00
7.87	U	ND		ND		Y	0.00	0.00
12.85	U	ND		ND		Y	0.00	0.00
3.56	U	ND		ND		Y	0.00	0.00
3.19	U	ND		ND		Y	0.00	0.00
3.25	U	ND		ND		Y	0.00	0.00
2.96	U	ND		ND		Y	0.00	0.00
3.70	U	ND		ND		Y	0.00	0.00
4.16	U	ND		ND		Y	0.00	0.00
4.29	U	ND		ND		Y	0.00	0.00
14.46	U	ND		ND		Y	0.00	0.00
3.63	U	ND		ND		Y	0.00	0.00
10.30	U	ND		ND		Y	0.00	0.00
3.62	U	ND		ND		Y	0.00	0.00
2.82	U	ND		ND		Y	0.00	0.00
3.70	U	ND		ND		Y	0.00	0.00
5.43	U	ND		ND		Y	0.00	0.00
7.23	U	ND		ND		Y	0.00	0.00
3.63	J	J		=		Y	0.53	1.55
9.95	U	ND		ND		Y	0.00	0.00
4.07	U	ND		ND		Y	0.00	0.00
4.74	U	ND		ND		Y	0.00	0.00
5.01	U	ND		ND		Y	0.00	0.00
5.60	U	ND		ND		Y	0.00	0.00
4.16	U	ND		ND		Y	0.00	0.00
4.66	U	ND		ND		Y	0.00	0.00
3.53	U	ND		ND		Y	0.00	0.00
6.56	J	J		=		Y	1.90	6.06
6.46	U	ND		ND		Y	0.00	0.00
8.58	U	ND		ND		Y	0.00	0.00
4.79	U	ND		ND		Y	0.00	0.00
4.21	U	ND		ND		Y	0.00	0.00

4.74	U	ND	ND	Y	0.00	0.00
7.40	U	ND	ND	Y	0.00	0.00
7.30	U	ND	ND	Y	0.00	0.00
5.52	U	ND	ND	Y	0.00	0.00
6.88	U	ND	ND	Y	0.00	0.00
4.20	U	ND	ND	Y	0.00	0.00
13.46	U	ND	ND	Y	0.00	0.00
4.66	U	ND	ND	Y	0.00	0.00
3.87	U	ND	ND	Y	0.00	0.00
4.66	U	ND	ND	Y	0.00	0.00
5.60	U	ND	ND	Y	0.00	0.00
4.79	U	ND	ND	Y	0.00	0.00
13.46	U	ND	ND	Y	0.00	0.00
13.28	U	ND	ND	Y	0.00	0.00
4.79	U	ND	ND	Y	0.00	0.00
8.74	U	ND	ND	Y	0.00	0.00
7.89	U	ND	ND	Y	0.00	0.00
6.96	U	ND	ND	Y	0.00	0.00
4.73	U	ND	ND	Y	0.00	0.00
7.04	U	ND	ND	Y	0.00	0.00
4.46	U	ND	ND	Y	0.00	0.00
4.46	U	ND	ND	Y	0.00	0.00
5.39	U	ND	ND	Y	0.00	0.00
4.37	U	ND	ND	Y	0.00	0.00
10.61	U	ND	ND	Y	0.00	0.00
4.46	U	ND	ND	Y	0.00	0.00
14.09	U	ND	ND	Y	0.00	0.00
14.85	U	ND	ND	Y	0.00	0.00
12.59	U	ND	ND	Y	0.00	0.00
14.13	U	ND	ND	Y	0.00	0.00
14.13	U	ND	ND	Y	0.00	0.00
32.29	U	ND	ND	Y	0.00	0.00
18.17	U	ND	ND	Y	0.00	0.00
14.34	U	ND	ND	Y	0.00	0.00
13.52	U	ND	ND	Y	0.00	0.00
18.17	U	ND	ND	Y	0.00	0.00
13.52	U	ND	ND	Y	0.00	0.00
15.77	U	ND	ND	Y	0.00	0.00
19.75	U	ND	ND	Y	0.00	0.00
13.52	U	ND	ND	Y	0.00	0.00
10.63	U	ND	ND	Y	0.00	0.00
12.34	U	ND	ND	Y	0.00	0.00
13.52	U	ND	ND	Y	0.00	0.00
17.28	U	ND	ND	Y	0.00	0.00
27.77	U	ND	ND	Y	0.00	0.00
15.23	U	ND	ND	Y	0.00	0.00
2.15	U	ND	ND	Y	0.00	0.00
15.23	U	ND	ND	Y	0.00	0.00
13.14	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**06**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.23	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) **= Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

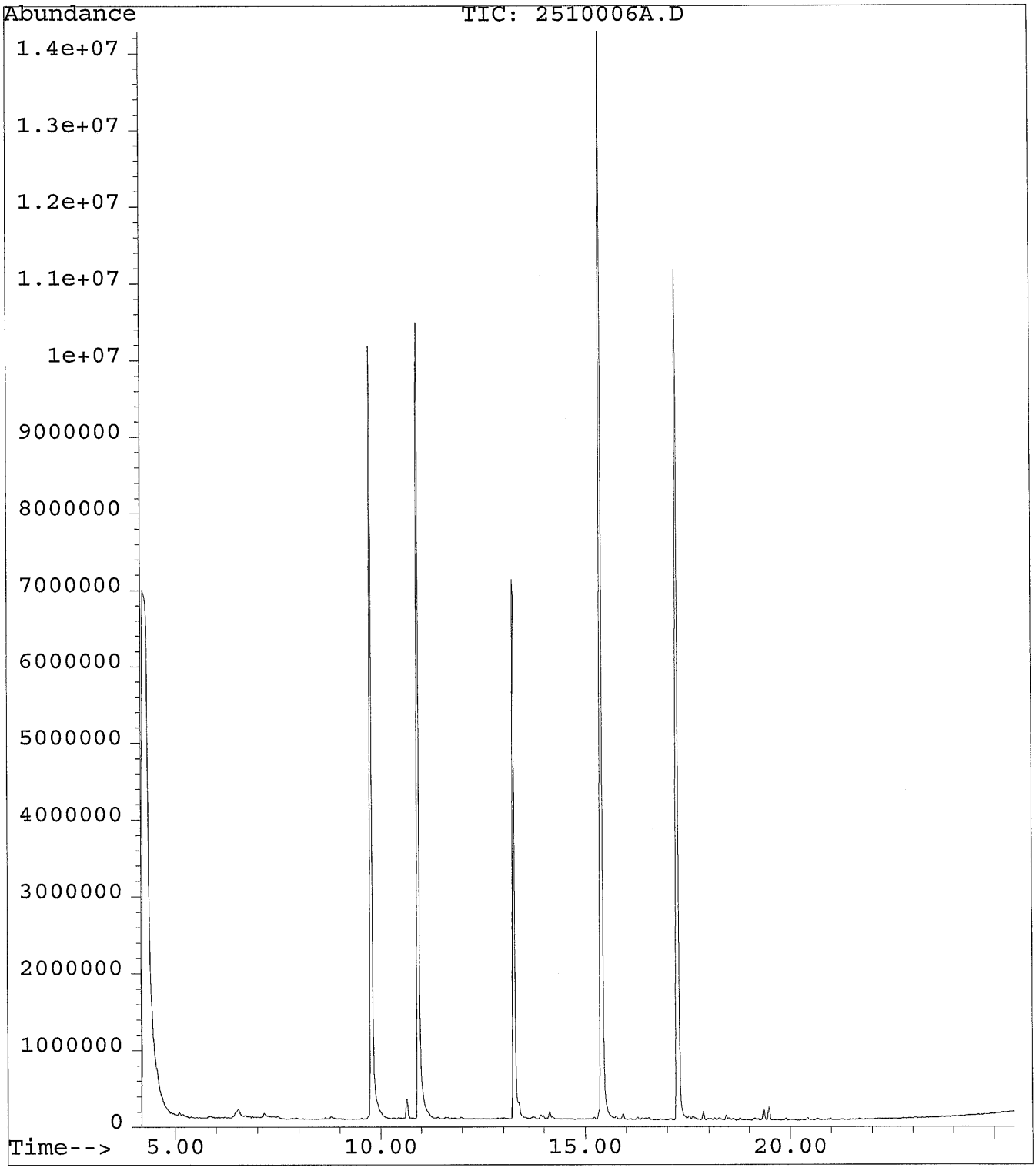
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	22851	20.0	11907528	0.156	0.64	1.10
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	11907528	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	66372	20.0	11907528	0.101	0.42	0.54
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	11907528	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	11907528	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	11907528	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	11907528	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	11907528	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	11907528	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	0	20.0	11907528	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.130	0	20.0	11907528	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	11907528	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	93411	20.0	11907528	0.658	2.70	6.42
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	0	20.0	11907528	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	11907528	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	11907528	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	11907528	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	11907528	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	11907528	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	11907528	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	11907528	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	11907528	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	11907528	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	11907528	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	11907528	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	11907528	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	11907528	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	11907528	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	0	20.0	11907528	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	11907528	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	11907528	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	11907528	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	11907528	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	11907528	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	11907528	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	16286	20.0	11907528	0.128	0.53	1.55
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	11907528	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	11907528	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	11907528	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	11907528	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	14400747	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	14400747	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	14400747	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	14400747	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	357482	20.0	14400747	0.462	1.90	6.06
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	14400747	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	14400747	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	14400747	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	14400747	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	14400747	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	14400747	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	14400747	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	14400747	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	14400747	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	14400747	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	14400747	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	14400747	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	93090	20.0	14400747	0.086	0.35	1.33
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	14400747	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	14400747	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	14400747	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	14400747	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	14400747	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	14400747	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	14400747	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	14400747	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	14400747	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	15488913	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	15488913	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	0	20.0	15488913	0.000	0.00	0.00
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	0	20.0	15488913	0.000	0.00	0.00
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	15488913	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	0	20.0	15488913	0.000	0.00	0.00
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	15488913	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	0	20.0	15488913	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	15488913	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	15488913	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	15488913	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	15488913	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	15488913	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	15488913	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	0	20.0	15488913	0.000	0.00	0.00
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	15488913	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	15488913	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	0	20.0	15488913	0.000	0.00	0.00
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	15488913	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	15488913	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	15488913	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	15488913	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	15488913	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	15488913	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	15488913	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	15488913	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	15488913	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	15488913	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	15488913	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	15488913	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	15488913	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	11907528	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	14400747	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15488913	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	8482078	10.0		9.581	95.81	96

File : C:\MSCHEM\1\DATA\03315A_C\2510006A.D
Operator : LR
Acquired : 31 Mar 125 5:56 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-106
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number 225100

Lab Id Number 7

Client ID T-107

Analytical Method TO-15

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 07**

File Name:	2510007A.D	**Date Sampled:**	03/19/25	**Time:**	10:22
Description:	T-107	**Date Analyzed:**	03/31/25	**Time:**	18:34
Canister:	644	**Can Dilution Factor:**	1.23		
QC_Batch:	033125-MA1	**Air Volume:**	300 ml		

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.41	1.03	0.60	0.71	1.77	1.04	J
75-71-8	Dichlorodifluoromethane	0.62	1.03	ND	3.05	5.08	ND	
67-56-1	Methanol	2.05	2.46	ND	2.69	3.22	ND	
74-87-3	Chloromethane	0.62	1.03	ND	1.27	2.12	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.41	1.03	ND	2.87	7.17	ND	
75-01-4	Vinyl chloride	0.21	1.03	ND	0.53	2.62	ND	
106-99-0	1,3-Butadiene	0.21	1.03	ND	0.46	2.27	ND	
74-83-9	Bromomethane	0.41	1.03	ND	1.59	3.98	ND	
75-00-3	Chloroethane	0.41	1.03	ND	1.08	2.71	ND	
64-17-5	Ethanol	2.05	13.16	ND	3.87	24.85	ND	
107-02-8	Acrolein	0.41	1.23	ND	0.94	2.83	ND	
75-69-4	Trichlorofluoromethane	0.41	1.03	ND	2.31	5.77	ND	
67-64-1	Acetone	2.05	2.46	2.05	4.88	5.85	4.88	J
67-63-0	2-propanol (isopropylalcohol)	0.82	5.13	ND	2.02	12.61	ND	
75-65-0	t-Butyl alcohol	0.41	4.10	ND	1.24	12.44	ND	
4227-95-6	Methyl iodide	0.41	1.23	ND	2.40	7.20	ND	
75-35-4	1,1-Dichloroethene	0.21	1.03	ND	0.81	4.07	ND	
107-13-1	Acrylonitrile	0.82	1.23	ND	1.78	2.67	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.03	ND	1.57	7.87	ND	
107-05-1	Allyl chloride	0.21	4.10	ND	0.64	12.85	ND	
75-09-2	Methylene chloride	0.21	1.03	ND	0.71	3.56	ND	
75-15-0	Carbon disulfide	0.41	1.03	ND	1.28	3.19	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.82	ND	0.81	3.25	ND	
1634-04-4	Methyl tert butyl ether	0.41	0.82	ND	1.48	2.96	ND	
107-12-0	Propionitrile	1.03	1.64	ND	2.31	3.70	ND	
75-34-3	1,1-Dichloroethane	0.20	1.03	ND	0.83	4.16	ND	
637-92-3	Ethyl tert butyl ether	0.41	1.03	ND	1.72	4.29	ND	
108-05-4	Vinyl acetate	0.21	4.10	ND	0.72	14.46	ND	
78-93-3	2-Butanone (MEK)	0.41	1.23	ND	1.21	3.63	ND	
108-20-3	Diisopropyl ether	0.41	2.46	ND	1.72	10.30	ND	
110-54-3	Hexane	0.41	1.03	ND	1.45	3.62	ND	
126-98-7	Methacrylonitrile	0.41	1.03	ND	1.13	2.82	ND	
141-78-6	Ethyl acetate	0.41	1.03	ND	1.48	3.70	ND	
74-97-5	Bromochloromethane	0.21	1.03	ND	1.09	5.43	ND	
96-33-3	Methyl acrylate	0.41	2.05	ND	1.45	7.23	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.23	ND	0.61	3.63	ND	
78-83-1	Isobutyl alcohol	0.82	3.28	ND	2.49	9.95	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.03	ND	0.81	4.07	ND	
594-20-7	2,2-Dichloropropane	0.21	1.03	ND	0.95	4.74	ND	
67-66-3	Chloroform	0.21	1.03	ND	1.01	5.01	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.03	ND	1.12	5.60	ND	
107-06-2	1,2-Dichloroethane	0.21	1.03	ND	0.83	4.16	ND	
563-58-6	1,1-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
110-82-7	Cyclohexane	0.21	1.03	ND	0.71	3.53	ND	
71-43-2	Benzene	1.44	2.05	2.92	4.59	6.56	9.35	
56-23-5	Carbon tetrachloride	0.21	1.03	ND	1.29	6.46	ND	
994-05-8	t-Amyl methyl ether	0.41	2.05	ND	1.72	8.58	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.03	ND	0.96	4.79	ND	
142-82-5	n-Heptane	0.41	1.03	ND	1.68	4.21	ND	
78-87-5	1,2-Dichloropropane	0.21	1.03	ND	0.95	4.74	ND	
123-91-1	1,4 Dioxane	0.41	2.05	ND	1.48	7.40	ND	
74-95-3	Dibromomethane	0.21	1.03	ND	1.46	7.30	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.03	ND	0.55	5.52	ND	
75-27-4	Bromodichloromethane	0.21	1.03	ND	1.38	6.88	ND	
80-62-6	Methyl methacrylate	0.41	1.03	ND	1.68	4.20	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.41	3.28	ND	1.68	13.46	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
108-88-3	Toluene	0.82	1.03	ND	3.09	3.87	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.03	ND	1.12	5.60	ND	
97-63-2	Ethyl methacrylate	0.41	1.03	ND	1.92	4.79	ND	
591-78-6	2-Hexanone	0.41	3.28	ND	1.68	13.46	ND	
142-28-9	1,3-Dichloropropane	0.21	2.87	ND	0.95	13.28	ND	
111-65-9	Octane	0.41	1.03	ND	1.92	4.79	ND	
124-48-1	Dibromochloromethane	0.41	1.03	ND	3.50	8.74	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.41	1.03	ND	3.16	7.89	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.03	ND	0.70	6.96	ND	
108-90-7	Chlorobenzene	0.41	1.03	ND	1.89	4.73	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.41	1.03	ND	2.82	7.04	ND	
100-41-4	Ethylbenzene	0.41	1.03	ND	1.78	4.46	ND	
1330-20-7	m,p-Xylenes	0.41	1.03	0.59	1.78	4.46	2.57	J
111-84-2	Nonane	0.41	1.03	ND	2.15	5.39	ND	
100-42-5	Styrene	0.62	1.03	ND	2.62	4.37	ND	
75-25-2	Bromoform	0.41	1.03	ND	4.24	10.61	ND	
95-47-6	o-Xylene	0.41	1.03	ND	1.78	4.46	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.82	2.05	ND	5.64	14.09	ND	
96-18-4	1,2,3-Trichloropropane	0.82	2.46	ND	4.95	14.85	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.82	2.46	ND	4.20	12.59	ND	
103-65-1	n-Propylbenzene	0.82	2.87	ND	4.04	14.13	ND	
98-82-8	Isopropylbenzene	0.82	2.87	ND	4.04	14.13	ND	
622-96-8	4-Ethyltoluene	0.82	6.56	ND	4.04	32.29	ND	
108-67-8	1,3,5-Trimethylbenzene	0.82	3.69	ND	4.04	18.17	ND	
124-18-5	Decane	0.82	2.46	ND	4.78	14.34	ND	
98-06-6	tert-butyl benzene	0.82	2.46	ND	4.51	13.52	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.82	3.69	ND	4.04	18.17	ND	
538-93-2	i-Butylbenzene	0.82	2.46	ND	4.51	13.52	ND	
135-98-8	sec-butylbenzene	0.82	2.87	ND	4.51	15.77	ND	
541-73-1	1,3-Dichlorobenzene	0.82	3.28	ND	4.94	19.75	ND	
99-87-6	Isopropyltoluene	0.82	2.46	ND	4.51	13.52	ND	
100-44-7	Benzyl chloride	0.82	2.05	ND	4.25	10.63	ND	
106-46-7	1,4-Dichlorobenzene	0.82	2.05	ND	4.94	12.34	ND	
104-51-8	n-Butylbenzene	0.82	2.46	ND	4.51	13.52	ND	
95-50-1	1,2-Dichlorobenzene	0.82	2.87	ND	4.94	17.28	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.23	2.87	ND	11.90	27.77	ND	
120-82-1	1,2,4-Trichlorobenzene	1.23	2.05	ND	9.14	15.23	ND	
91-20-3	Naphthalene	2.05	0.41	ND	10.76	2.15	ND	
87-61-6	1,2,3-Trichlorobenzene	1.23	2.05	ND	9.14	15.23	ND	
87-68-3	Hexachlorobutadiene	1.03	1.23	ND	10.95	13.14	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	96	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**07**		
File Name:	2510007A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/19/25**	**Time:**	**10:22**
Sample ID:	T-107	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**03/31/25**	**Time:**	**18:34**
Anal Date:	31 Mar 125 6:34 pm	**SF:**	**2**	**QCbatch:**	**033125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**644**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.23**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	LR	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.147	4.41	42.00	21730
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.000	4.86	31.00	0
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	0.500	6.42	58.00	71755
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.713	10.70	78.00	557372
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.177	13.50	91.00	193145
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.000	15.90	106	0
1330-20-7	m,p-Xylenes	75	TRG	0.144	16.06	91.00	176356
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.000	16.61	104.00	0
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.037	16.54	91.00	47827
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.000	18.31	105.00	0
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.000	18.95	105.00	0
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**12031913**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**14569428**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15390958**
2037-26-5	Toluene-d8	103	SURR	9.573	13.40	98.00	**8574601**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**07**
File Name:	2510007A.D
Run Method:	A1563_P.M
Can Factor:	1.23
Air Volume:	300.0 ml
Can/Tube Number:	644
Dilution Factor:	0.3690
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3690
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.15	0.60	1.04	0.60	1.04	1.04	1.04	0.100	0.250	0.41	0.71	1.03
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.62	3.05	1.03
Methanol	32.0	0.00	0.00	0.00	ND	ND	0		0.500	0.600	2.05	2.69	2.46
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.62	1.27	1.03
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.87	1.03
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.53	1.03
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.46	1.03
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.59	1.03
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.08	1.03
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	2.05	3.87	13.16
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.41	0.94	1.23
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.31	1.03
Acetone	58.1	0.50	2.05	4.88	2.05	4.88	4.88	4.88	0.500	0.600	2.05	4.88	2.46
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		0.200	1.250	0.82	2.02	5.13
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.41	1.24	4.10
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.41	2.40	1.23
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.81	1.03
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.82	1.78	1.23
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.57	1.03
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.64	4.10
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.71	1.03
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.28	1.03
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.21	0.81	0.82
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.41	1.48	0.82
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.03	2.31	1.64
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.83	1.03
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.72	1.03
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.72	4.10
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.41	1.21	1.23
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.41	1.72	2.46
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.45	1.03
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.13	1.03
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.48	1.03
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.09	1.03
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.45	2.05
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.21	0.61	1.23
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.82	2.49	3.28
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.81	1.03
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.03
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.01	1.03
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.12	1.03
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.83	1.03
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.93	1.03
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.71	1.03
Benzene	78.1	0.71	2.92	9.35	2.92	9.35	9.35	9.35	0.350	0.500	1.44	4.59	2.05
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.29	1.03
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.72	2.05
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.03
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.68	1.03

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.03
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.48	2.05
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.46	1.03
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.55	1.03
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.38	1.03
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.68	1.03
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.41	1.68	3.28
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.93	1.03
Toluene	92.1	0.18	0.72	2.73	ND	ND	0		0.200	0.250	0.82	3.09	1.03
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.93	1.03
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.12	1.03
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.92	1.03
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.41	1.68	3.28
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.21	0.95	2.87
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.92	1.03
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	3.50	1.03
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	3.16	1.03
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.70	1.03
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.89	1.03
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.82	1.03
Ethylbenzene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.78	1.03
m,p-Xylenes	106.2	0.14	0.59	2.57	0.59	2.57	2.57	2.57	0.100	0.250	0.41	1.78	1.03
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.15	1.03
Styrene	104.2	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.62	2.62	1.03
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	4.24	1.03
o-Xylene	106.2	0.04	0.15	0.67	ND	ND	0		0.100	0.250	0.41	1.78	1.03
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.82	5.64	2.05
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.95	2.46
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.20	2.46
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.82	4.04	2.87
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.82	4.04	2.87
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.82	4.04	6.56
1,3,5-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.82	4.04	3.69
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.78	2.46
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.51	2.46
1,2,4-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.82	4.04	3.69
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.51	2.46
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.82	4.51	2.87
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.82	4.94	3.28
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.51	2.46
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.82	4.25	2.05
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.82	4.94	2.05
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.51	2.46
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.82	4.94	2.87
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.23	11.90	2.87
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.23	9.14	2.05
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.05	10.76	0.41
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.23	9.14	2.05
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.03	10.95	1.23
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		9.57	96	96	96	96	96	96	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.77	J	J		=		Y	0.60	1.04
5.08	U	ND		ND		Y	0.00	0.00
3.22	U	ND		ND		Y	0.00	0.00
2.12	U	ND		ND		Y	0.00	0.00
7.17	U	ND		ND		Y	0.00	0.00
2.62	U	ND		ND		Y	0.00	0.00
2.27	U	ND		ND		Y	0.00	0.00
3.98	U	ND		ND		Y	0.00	0.00
2.71	U	ND		ND		Y	0.00	0.00
24.85	U	ND		ND		Y	0.00	0.00
2.83	U	ND		ND		Y	0.00	0.00
5.77	U	ND		ND		Y	0.00	0.00
5.85	J	J		=		Y	2.05	4.88
12.61	U	ND		ND		Y	0.00	0.00
12.44	U	ND		ND		Y	0.00	0.00
7.20	U	ND		ND		Y	0.00	0.00
4.07	U	ND		ND		Y	0.00	0.00
2.67	U	ND		ND		Y	0.00	0.00
7.87	U	ND		ND		Y	0.00	0.00
12.85	U	ND		ND		Y	0.00	0.00
3.56	U	ND		ND		Y	0.00	0.00
3.19	U	ND		ND		Y	0.00	0.00
3.25	U	ND		ND		Y	0.00	0.00
2.96	U	ND		ND		Y	0.00	0.00
3.70	U	ND		ND		Y	0.00	0.00
4.16	U	ND		ND		Y	0.00	0.00
4.29	U	ND		ND		Y	0.00	0.00
14.46	U	ND		ND		Y	0.00	0.00
3.63	U	ND		ND		Y	0.00	0.00
10.30	U	ND		ND		Y	0.00	0.00
3.62	U	ND		ND		Y	0.00	0.00
2.82	U	ND		ND		Y	0.00	0.00
3.70	U	ND		ND		Y	0.00	0.00
5.43	U	ND		ND		Y	0.00	0.00
7.23	U	ND		ND		Y	0.00	0.00
3.63	U	ND		ND		Y	0.00	0.00
9.95	U	ND		ND		Y	0.00	0.00
4.07	U	ND		ND		Y	0.00	0.00
4.74	U	ND		ND		Y	0.00	0.00
5.01	U	ND		ND		Y	0.00	0.00
5.60	U	ND		ND		Y	0.00	0.00
4.16	U	ND		ND		Y	0.00	0.00
4.66	U	ND		ND		Y	0.00	0.00
3.53	U	ND		ND		Y	0.00	0.00
6.56				=		Y	2.92	9.35
6.46	U	ND		ND		Y	0.00	0.00
8.58	U	ND		ND		Y	0.00	0.00
4.79	U	ND		ND		Y	0.00	0.00
4.21	U	ND		ND		Y	0.00	0.00

4.74	U	ND	ND	Y	0.00	0.00
7.40	U	ND	ND	Y	0.00	0.00
7.30	U	ND	ND	Y	0.00	0.00
5.52	U	ND	ND	Y	0.00	0.00
6.88	U	ND	ND	Y	0.00	0.00
4.20	U	ND	ND	Y	0.00	0.00
13.46	U	ND	ND	Y	0.00	0.00
4.66	U	ND	ND	Y	0.00	0.00
3.87	U	ND	ND	Y	0.00	0.00
4.66	U	ND	ND	Y	0.00	0.00
5.60	U	ND	ND	Y	0.00	0.00
4.79	U	ND	ND	Y	0.00	0.00
13.46	U	ND	ND	Y	0.00	0.00
13.28	U	ND	ND	Y	0.00	0.00
4.79	U	ND	ND	Y	0.00	0.00
8.74	U	ND	ND	Y	0.00	0.00
7.89	U	ND	ND	Y	0.00	0.00
6.96	U	ND	ND	Y	0.00	0.00
4.73	U	ND	ND	Y	0.00	0.00
7.04	U	ND	ND	Y	0.00	0.00
4.46	U	ND	ND	Y	0.00	0.00
4.46	J	J	=	Y	0.59	2.57
5.39	U	ND	ND	Y	0.00	0.00
4.37	U	ND	ND	Y	0.00	0.00
10.61	U	ND	ND	Y	0.00	0.00
4.46	U	ND	ND	Y	0.00	0.00
14.09	U	ND	ND	Y	0.00	0.00
14.85	U	ND	ND	Y	0.00	0.00
12.59	U	ND	ND	Y	0.00	0.00
14.13	U	ND	ND	Y	0.00	0.00
14.13	U	ND	ND	Y	0.00	0.00
32.29	U	ND	ND	Y	0.00	0.00
18.17	U	ND	ND	Y	0.00	0.00
14.34	U	ND	ND	Y	0.00	0.00
13.52	U	ND	ND	Y	0.00	0.00
18.17	U	ND	ND	Y	0.00	0.00
13.52	U	ND	ND	Y	0.00	0.00
15.77	U	ND	ND	Y	0.00	0.00
19.75	U	ND	ND	Y	0.00	0.00
13.52	U	ND	ND	Y	0.00	0.00
10.63	U	ND	ND	Y	0.00	0.00
12.34	U	ND	ND	Y	0.00	0.00
13.52	U	ND	ND	Y	0.00	0.00
17.28	U	ND	ND	Y	0.00	0.00
27.77	U	ND	ND	Y	0.00	0.00
15.23	U	ND	ND	Y	0.00	0.00
2.15	U	ND	ND	Y	0.00	0.00
15.23	U	ND	ND	Y	0.00	0.00
13.14	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**07**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.23	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

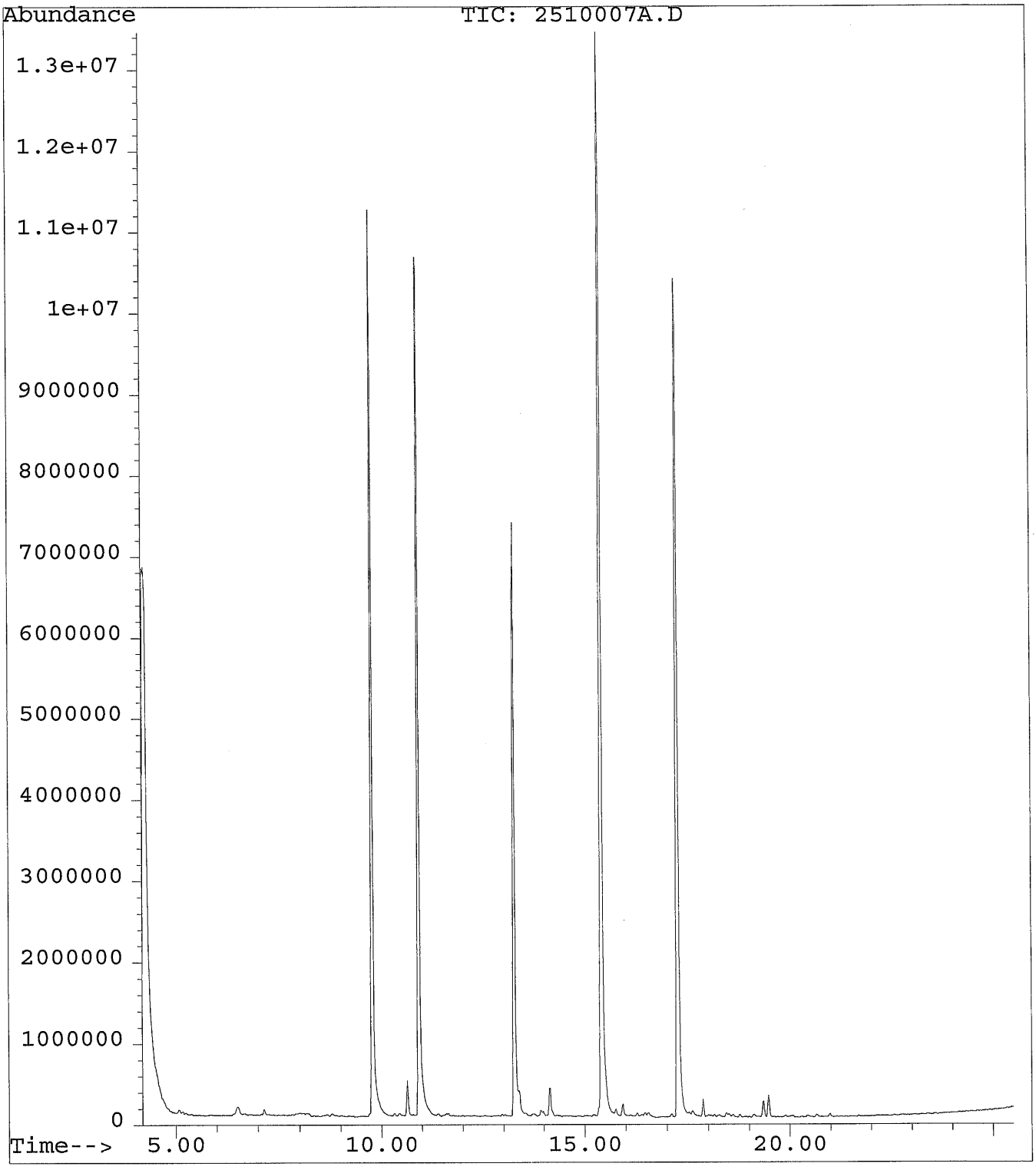
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	21730	20.0	12031913	0.147	0.60	1.04
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	12031913	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	0	20.0	12031913	0.000	0.00	0.00
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	12031913	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	12031913	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	12031913	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	12031913	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	12031913	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	12031913	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	0	20.0	12031913	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.130	0	20.0	12031913	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	12031913	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	71755	20.0	12031913	0.500	2.05	4.88
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	0	20.0	12031913	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	12031913	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	12031913	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	12031913	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	12031913	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	12031913	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	12031913	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	12031913	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	12031913	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	12031913	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	12031913	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	12031913	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	12031913	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	12031913	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	12031913	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	0	20.0	12031913	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	12031913	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	12031913	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	12031913	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	12031913	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	12031913	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	12031913	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	12031913	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	12031913	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	12031913	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	12031913	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	12031913	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	14569428	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	14569428	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	14569428	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	14569428	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	557372	20.0	14569428	0.713	2.92	9.35
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	14569428	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	14569428	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	14569428	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	14569428	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	14569428	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	14569428	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	14569428	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	14569428	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	14569428	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	14569428	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	14569428	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	14569428	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	193145	20.0	14569428	0.177	0.72	2.73
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	14569428	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	14569428	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	14569428	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	14569428	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	14569428	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	14569428	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	14569428	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	14569428	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	14569428	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	15390958	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	15390958	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	0	20.0	15390958	0.000	0.00	0.00
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	176356	20.0	15390958	0.144	0.59	2.57
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	15390958	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	0	20.0	15390958	0.000	0.00	0.00
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	15390958	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	47827	20.0	15390958	0.037	0.15	0.67
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	15390958	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	15390958	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	15390958	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	15390958	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	15390958	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	15390958	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	0	20.0	15390958	0.000	0.00	0.00
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	15390958	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	15390958	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	0	20.0	15390958	0.000	0.00	0.00
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	15390958	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	15390958	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	15390958	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	15390958	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	15390958	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	15390958	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	15390958	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	15390958	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	15390958	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	15390958	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	15390958	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	15390958	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	15390958	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	12031913	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	14569428	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15390958	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	8574601	10.0		9.573	95.73	96

File : C:\MSCHEM\1\DATA\03315A_C\2510007A.D
Operator : LR
Acquired : 31 Mar 125 6:34 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-107
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **8**

Client ID T-108

Analytical Method TO-15

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Analytical Report
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Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 08**

File Name: 2510008A.D **Date Sampled:** 03/19/25 **Time:** 10:30
Description: T-108 **Date Analyzed:** 04/04/25 **Time:** 12:29
Canister: 556 **Can Dilution Factor:** 1.26
QC_Batch: 040425-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.05	92.30	0.72	1.81	159.06	
75-71-8	Dichlorodifluoromethane	0.63	1.05	ND	3.12	5.20	ND	
67-56-1	Methanol	2.10	2.52	2.90	2.75	3.30	3.79	
74-87-3	Chloromethane	0.63	1.05	ND	1.30	2.17	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.05	ND	2.94	7.35	ND	
75-01-4	Vinyl chloride	0.21	1.05	ND	0.54	2.69	ND	
106-99-0	1,3-Butadiene	0.21	1.05	ND	0.47	2.33	ND	
74-83-9	Bromomethane	0.42	1.05	ND	1.63	4.08	ND	
75-00-3	Chloroethane	0.42	1.05	ND	1.11	2.77	ND	
64-17-5	Ethanol	2.10	13.48	ND	3.96	25.45	ND	
107-02-8	Acrolein	0.42	1.26	ND	0.96	2.89	ND	
75-69-4	Trichlorofluoromethane	0.42	1.05	ND	2.36	5.91	ND	
67-64-1	Acetone	2.10	2.52	19.47	5.00	6.00	46.33	
67-63-0	2-propanol (isopropylalcohol)	0.84	5.25	ND	2.07	12.92	ND	
75-65-0	t-Butyl alcohol	0.42	4.20	ND	1.27	12.75	ND	
4227-95-6	Methyl iodide	0.42	1.26	ND	2.46	7.37	ND	
75-35-4	1,1-Dichloroethene	0.21	1.05	ND	0.83	4.17	ND	
107-13-1	Acrylonitrile	0.84	1.26	ND	1.83	2.74	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.05	ND	1.61	8.06	ND	
107-05-1	Allyl chloride	0.21	4.20	ND	0.66	13.16	ND	
75-09-2	Methylene chloride	0.21	1.05	ND	0.73	3.65	ND	
75-15-0	Carbon disulfide	0.42	1.05	ND	1.31	3.27	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.84	ND	0.83	3.33	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.84	ND	1.52	3.03	ND	
107-12-0	Propionitrile	1.05	1.68	ND	2.37	3.79	ND	
75-34-3	1,1-Dichloroethane	0.21	1.05	ND	0.85	4.26	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.05	ND	1.76	4.39	ND	
108-05-4	Vinyl acetate	0.21	4.20	ND	0.74	14.81	ND	
78-93-3	2-Butanone (MEK)	0.42	1.26	ND	1.24	3.72	ND	
108-20-3	Diisopropyl ether	0.42	2.52	ND	1.76	10.55	ND	
110-54-3	Hexane	0.42	1.05	28.72	1.48	3.71	101.39	
126-98-7	Methacrylonitrile	0.42	1.05	ND	1.15	2.89	ND	
141-78-6	Ethyl acetate	0.42	1.05	ND	1.52	3.79	ND	
74-97-5	Bromochloromethane	0.21	1.05	ND	1.11	5.56	ND	
96-33-3	Methyl acrylate	0.42	2.10	ND	1.48	7.41	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
78-83-1	Isobutyl alcohol	0.84	3.36	ND	2.55	10.20	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.05	ND	0.83	4.17	ND	
594-20-7	2,2-Dichloropropane	0.21	1.05	ND	0.97	4.86	ND	
67-66-3	Chloroform	0.21	1.05	ND	1.03	5.13	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.05	ND	1.15	5.74	ND	
107-06-2	1,2-Dichloroethane	0.21	1.05	ND	0.85	4.26	ND	
563-58-6	1,1-Dichloropropene	0.21	1.05	ND	0.95	4.77	ND	
110-82-7	Cyclohexane	0.21	1.05	ND	0.72	3.62	ND	
56-23-5	Carbon tetrachloride	0.21	1.05	ND	1.32	6.61	ND	
994-05-8	t-Amyl methyl ether	0.42	2.10	ND	1.76	8.79	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.05	72.81	0.98	4.91	340.53	
142-82-5	n-Heptane	0.42	1.05	146.36	1.72	4.31	600.61	
78-87-5	1,2-Dichloropropane	0.21	1.05	ND	0.97	4.86	ND	
123-91-1	1,4 Dioxane	0.42	2.10	ND	1.52	7.58	ND	
74-95-3	Dibromomethane	0.21	1.05	ND	1.50	7.48	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.05	ND	0.57	5.65	ND	
75-27-4	Bromodichloromethane	0.21	1.05	ND	1.41	7.04	ND	
80-62-6	Methyl methacrylate	0.42	1.05	ND	1.72	4.30	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.36	ND	1.72	13.79	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.05	ND	0.95	4.77	ND	
108-88-3	Toluene	0.84	1.05	173.51	3.17	3.96	654.46	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.05	ND	0.95	4.77	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.05	ND	1.15	5.74	ND	
97-63-2	Ethyl methacrylate	0.42	1.05	ND	1.96	4.91	ND	
591-78-6	2-Hexanone	0.42	3.36	ND	1.72	13.79	ND	
142-28-9	1,3-Dichloropropane	0.21	2.94	ND	0.97	13.61	ND	
111-65-9	Octane	0.42	1.05	3.80	1.96	4.91	17.77	
124-48-1	Dibromochloromethane	0.42	1.05	ND	3.58	8.96	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.05	ND	3.23	8.08	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.05	16.28	0.71	7.13	110.57	
108-90-7	Chlorobenzene	0.42	1.05	ND	1.94	4.84	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.05	ND	2.89	7.22	ND	
100-41-4	Ethylbenzene	0.42	1.05	165.94	1.83	4.57	721.72	
1330-20-7	m,p-Xylenes	0.42	1.05	145.92	1.83	4.57	634.67	
111-84-2	Nonane	0.42	1.05	35.43	2.21	5.52	186.18	
100-42-5	Styrene	0.63	1.05	0.86	2.69	4.48	3.65	J
75-25-2	Bromoform	0.42	1.05	ND	4.35	10.87	ND	
95-47-6	o-Xylene	0.42	1.05	48.65	1.83	4.57	211.58	
79-34-5	1,1,2,2-Tetrachloroethane	0.84	2.10	ND	5.77	14.43	ND	
96-18-4	1,2,3-Trichloropropane	0.84	2.52	ND	5.07	15.21	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.84	2.52	ND	4.30	12.90	ND	
103-65-1	n-Propylbenzene	0.84	2.94	ND	4.14	14.47	ND	
98-82-8	Isopropylbenzene	0.84	2.94	ND	4.14	14.47	ND	
622-96-8	4-Ethyltoluene	0.84	6.72	1.48	4.14	33.08	7.28	J
108-67-8	1,3,5-Trimethylbenzene	0.84	3.78	ND	4.14	18.61	ND	
124-18-5	Decane	0.84	2.52	ND	4.90	14.69	ND	
98-06-6	tert-butyl benzene	0.84	2.52	ND	4.62	13.85	ND	
95-63-6	1,2,4-Trimethylbenzene	0.84	3.78	0.90	4.14	18.61	4.41	J
538-93-2	i-Butylbenzene	0.84	2.52	ND	4.62	13.85	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
135-98-8	sec-butylbenzene	0.84	2.94	ND	4.62	16.16	ND	
541-73-1	1,3-Dichlorobenzene	0.84	3.36	ND	5.06	20.23	ND	
99-87-6	Isopropyltoluene	0.84	2.52	ND	4.62	13.85	ND	
100-44-7	Benzyl chloride	0.84	2.10	ND	4.36	10.89	ND	
106-46-7	1,4-Dichlorobenzene	0.84	2.10	ND	5.06	12.64	ND	
104-51-8	n-Butylbenzene	0.84	2.52	ND	4.62	13.85	ND	
95-50-1	1,2-Dichlorobenzene	0.84	2.94	ND	5.06	17.70	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.26	2.94	ND	12.19	28.45	ND	
120-82-1	1,2,4-Trichlorobenzene	1.26	2.10	ND	9.36	15.60	ND	
91-20-3	Naphthalene	2.10	0.42	ND	11.03	2.21	ND	
87-61-6	1,2,3-Trichlorobenzene	1.26	2.10	ND	9.36	15.60	ND	
87-68-3	Hexachlorobutadiene	1.05	1.26	ND	11.22	13.46	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	56	70	130	Q

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**08**		
File Name:	2510008A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/19/25**	**Time:**	**10:30**
Sample ID:	T-108	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/04/25**	**Time:**	**12:29**
Anal Date:	4 Apr 125 12:29 pm	**SF:**	**2**	**QCbatch:**	**040425-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**556**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.26**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	MM	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**2.0**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	21.975	4.41	42.00	3117837
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.689	4.86	31.00	437063
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	4.635	6.42	58.00	637462
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	6.838	8.86	57.00	2914455
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	412.891	9.72	72.00	50777771
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	166.096	10.70	78.00	142089514
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	17.336	11.25	57.00	27828173
142-82-5	n-Heptane	51	TRG	34.847	11.48	71.00	10955790
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	41.311	13.50	91.00	49388743
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.904	14.04	85.00	427180
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	3.877	14.69	166.00	2273967
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	39.508	15.90	106	27130183
1330-20-7	m,p-Xylenes	75	TRG	34.743	16.06	91.00	21312682
111-84-2	Nonane	76	TRG	8.436	16.43	57.00	4158744
100-42-5	Styrene	77	TRG	0.204	16.61	104.00	86921
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	11.582	16.50	91.00	7423451
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.352	18.23	105.00	294662
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.118	18.31	105.00	89073
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.213	18.95	105.00	169557
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**11532472**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**15936721**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**7713232**
2037-26-5	Toluene-d8	103	SURR	5.569	13.40	98.00	**5455908**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**08**
File Name:	2510008A.D
Run Method:	A1563_P.M
Can Factor:	1.26
Air Volume:	300.0 ml
Can/Tube Number:	556
Dilution Factor:	0.3780
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3780
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	2.0

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	21.98	92.30	159.06	92.30	159.06	159.06	159.06	0.100	0.250	0.42	0.72	1.05
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.63	3.12	1.05
Methanol	32.0	0.69	2.90	3.79	2.90	3.79	3.79	3.79	0.500	0.600	2.10	2.75	2.52
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.63	1.30	1.05
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.94	1.05
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.54	1.05
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.47	1.05
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.63	1.05
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.11	1.05
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	2.10	3.96	13.48
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.42	0.96	1.26
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.36	1.05
Acetone	58.1	4.64	19.47	46.33	19.47	46.33	46.33	46.33	0.500	0.600	2.10	5.00	2.52
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		0.200	1.250	0.84	2.07	5.25
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.42	1.27	4.20
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.42	2.46	1.26
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.83	1.05
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.84	1.83	1.26
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.61	1.05
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.66	4.20
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.73	1.05
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.31	1.05
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.21	0.83	0.84
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.42	1.52	0.84
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.05	2.37	1.68
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.85	1.05
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.76	1.05
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.74	4.20
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.42	1.24	1.26
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.42	1.76	2.52
Hexane	86.2	6.84	28.72	101.39	28.72	101.39	101.39	101.39	0.100	0.250	0.42	1.48	1.05
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.15	1.05
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.52	1.05
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.11	1.05
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.48	2.10
Tetrahydrofuran	72.1	412.89	1734.14	5120.67	,734.14	5,120.67	5120.67	5,120.67	0.050	0.300	0.21	0.62	1.26
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.84	2.55	3.36
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.83	1.05
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.97	1.05
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.03	1.05
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.15	1.05
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.85	1.05
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.05
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.72	1.05
Benzene	78.1	166.10	697.60	2231.35	697.60	2,231.35	2231.35	2,231.35	0.350	0.500	1.47	4.70	2.10
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.32	1.05
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.76	2.10
2,2,4-Trimethylpentane	114.2	17.34	72.81	340.53	72.81	340.53	340.53	340.53	0.050	0.250	0.21	0.98	1.05
n-Heptane	100.2	34.85	146.36	600.61	146.36	600.61	600.61	600.61	0.100	0.250	0.42	1.72	1.05

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.97	1.05
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.42	1.52	2.10
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.50	1.05
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		**0.025**	**0.250**	0.11	0.57	1.05
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.41	1.05
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.42	1.72	1.05
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.800**	0.42	1.72	3.36
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.95	1.05
Toluene	92.1	41.31	173.51	654.46	173.51	654.46	654.46	654.46	**0.200**	**0.250**	0.84	3.17	1.05
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.95	1.05
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.15	1.05
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.42	1.96	1.05
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.800**	0.42	1.72	3.36
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.700**	0.21	0.97	2.94
Octane	114.2	0.90	3.80	17.77	3.80	17.77	17.77	17.77	**0.100**	**0.250**	0.42	1.96	1.05
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.42	3.58	1.05
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.42	3.23	1.05
Tetrachloroethene (PCE)	165.8	3.88	16.28	110.57	16.28	110.57	110.57	110.57	**0.025**	**0.250**	0.11	0.71	1.05
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.42	1.94	1.05
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.42	2.89	1.05
Ethylbenzene	106.2	39.51	165.94	721.72	165.94	721.72	721.72	721.72	**0.100**	**0.250**	0.42	1.83	1.05
m,p-Xylenes	106.2	34.74	145.92	634.67	145.92	634.67	634.67	634.67	**0.100**	**0.250**	0.42	1.83	1.05
Nonane	128.3	8.44	35.43	186.18	35.43	186.18	186.18	186.18	**0.100**	**0.250**	0.42	2.21	1.05
Styrene	104.2	0.20	0.86	3.65	0.86	3.65	3.65	3.65	**0.150**	**0.250**	0.63	2.69	1.05
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.42	4.35	1.05
o-Xylene	106.2	11.58	48.65	211.58	48.65	211.58	211.58	211.58	**0.100**	**0.250**	0.42	1.83	1.05
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.500**	0.84	5.77	2.10
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.84	5.07	2.52
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.84	4.30	2.52
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.700**	0.84	4.14	2.94
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.700**	0.84	4.14	2.94
4-Ethyltoluene	120.2	0.35	1.48	7.28	1.48	7.28	7.28	7.28	**0.200**	**1.600**	0.84	4.14	6.72
1,3,5-Trimethylbenzene	120.2	0.12	0.50	2.45	ND	ND	0		**0.200**	**0.900**	0.84	4.14	3.78
Decane	142.3	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.84	4.90	2.52
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.84	4.62	2.52
1,2,4-Trimethylbenzene	120.2	0.21	0.90	4.41	0.90	4.41	4.41	4.41	**0.200**	**0.900**	0.84	4.14	3.78
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.84	4.62	2.52
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.700**	0.84	4.62	2.94
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.800**	0.84	5.06	3.36
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.84	4.62	2.52
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.500**	0.84	4.36	2.10
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.500**	0.84	5.06	2.10
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.84	4.62	2.52
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.700**	0.84	5.06	2.94
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		**0.300**	**0.700**	1.26	12.19	2.94
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		**0.300**	**0.500**	1.26	9.36	2.10
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		**0.500**	**0.100**	2.10	11.03	0.42
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		**0.300**	**0.500**	1.26	9.36	2.10
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		**0.250**	**0.300**	1.05	11.22	1.26
Pentafluorobenzene		20.00							**20.0**	**20.0**			
1,4-Difluorobenzene		20.00							**20.0**	**20.0**			
Chlorobenzene-d5		20.00							**20.0**	**20.0**			
Toluene-d8		5.57	56	56	56	56	56	56	**10.0**	**10.0**			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.81				=		Y	92.30	159.06
5.20	U	ND		ND		Y	0.00	0.00
3.30				=		Y	2.90	3.79
2.17	U	ND		ND		Y	0.00	0.00
7.35	U	ND		ND		Y	0.00	0.00
2.69	U	ND		ND		Y	0.00	0.00
2.33	U	ND		ND		Y	0.00	0.00
4.08	U	ND		ND		Y	0.00	0.00
2.77	U	ND		ND		Y	0.00	0.00
25.45	U	ND		ND		Y	0.00	0.00
2.89	U	ND		ND		Y	0.00	0.00
5.91	U	ND		ND		Y	0.00	0.00
6.00				=		Y	19.47	46.33
12.92	U	ND		ND		Y	0.00	0.00
12.75	U	ND		ND		Y	0.00	0.00
7.37	U	ND		ND		Y	0.00	0.00
4.17	U	ND		ND		Y	0.00	0.00
2.74	U	ND		ND		Y	0.00	0.00
8.06	U	ND		ND		Y	0.00	0.00
13.16	U	ND		ND		Y	0.00	0.00
3.65	U	ND		ND		Y	0.00	0.00
3.27	U	ND		ND		Y	0.00	0.00
3.33	U	ND		ND		Y	0.00	0.00
3.03	U	ND		ND		Y	0.00	0.00
3.79	U	ND		ND		Y	0.00	0.00
4.26	U	ND		ND		Y	0.00	0.00
4.39	U	ND		ND		Y	0.00	0.00
14.81	U	ND		ND		Y	0.00	0.00
3.72	U	ND		ND		Y	0.00	0.00
10.55	U	ND		ND		Y	0.00	0.00
3.71				=		Y	28.72	101.39
2.89	U	ND		ND		Y	0.00	0.00
3.79	U	ND		ND		Y	0.00	0.00
5.56	U	ND		ND		Y	0.00	0.00
7.41	U	ND		ND		Y	0.00	0.00
3.72				=	E	Y	1734.14	5120.67
10.20	U	ND		ND		Y	0.00	0.00
4.17	U	ND		ND		Y	0.00	0.00
4.86	U	ND		ND		Y	0.00	0.00
5.13	U	ND		ND		Y	0.00	0.00
5.74	U	ND		ND		Y	0.00	0.00
4.26	U	ND		ND		Y	0.00	0.00
4.77	U	ND		ND		Y	0.00	0.00
3.62	U	ND		ND		Y	0.00	0.00
6.72				=	E	Y	697.60	2231.35
6.61	U	ND		ND		Y	0.00	0.00
8.79	U	ND		ND		Y	0.00	0.00
4.91				=		Y	72.81	340.53
4.31				=		Y	146.36	600.61

4.86	U	ND	ND	Y	0.00	0.00
7.58	U	ND	ND	Y	0.00	0.00
7.48	U	ND	ND	Y	0.00	0.00
5.65	U	ND	ND	Y	0.00	0.00
7.04	U	ND	ND	Y	0.00	0.00
4.30	U	ND	ND	Y	0.00	0.00
13.79	U	ND	ND	Y	0.00	0.00
4.77	U	ND	ND	Y	0.00	0.00
3.96			=	Y	173.51	654.46
4.77	U	ND	ND	Y	0.00	0.00
5.74	U	ND	ND	Y	0.00	0.00
4.91	U	ND	ND	Y	0.00	0.00
13.79	U	ND	ND	Y	0.00	0.00
13.61	U	ND	ND	Y	0.00	0.00
4.91			=	Y	3.80	17.77
8.96	U	ND	ND	Y	0.00	0.00
8.08	U	ND	ND	Y	0.00	0.00
7.13			=	Y	16.28	110.57
4.84	U	ND	ND	Y	0.00	0.00
7.22	U	ND	ND	Y	0.00	0.00
4.57			=	Y	165.94	721.72
4.57			=	Y	145.92	634.67
5.52			=	Y	35.43	186.18
4.48	J	J	=	Y	0.86	3.65
10.87	U	ND	ND	Y	0.00	0.00
4.57			=	Y	48.65	211.58
14.43	U	ND	ND	Y	0.00	0.00
15.21	U	ND	ND	Y	0.00	0.00
12.90	U	ND	ND	Y	0.00	0.00
14.47	U	ND	ND	Y	0.00	0.00
14.47	U	ND	ND	Y	0.00	0.00
33.08	J	J	=	Y	1.48	7.28
18.61	U	ND	ND	Y	0.00	0.00
14.69	U	ND	ND	Y	0.00	0.00
13.85	U	ND	ND	Y	0.00	0.00
18.61	J	J	=	Y	0.90	4.41
13.85	U	ND	ND	Y	0.00	0.00
16.16	U	ND	ND	Y	0.00	0.00
20.23	U	ND	ND	Y	0.00	0.00
13.85	U	ND	ND	Y	0.00	0.00
10.89	U	ND	ND	Y	0.00	0.00
12.64	U	ND	ND	Y	0.00	0.00
13.85	U	ND	ND	Y	0.00	0.00
17.70	U	ND	ND	Y	0.00	0.00
28.45	U	ND	ND	Y	0.00	0.00
15.60	U	ND	ND	Y	0.00	0.00
2.21	U	ND	ND	Y	0.00	0.00
15.60	U	ND	ND	Y	0.00	0.00
13.46	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
	Q		=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**08**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.26
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum [(Astdni)(Cistdi) / (Cstdni)(Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp)(Cistdi) / (Avg RFn)(Aistdi) **= Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

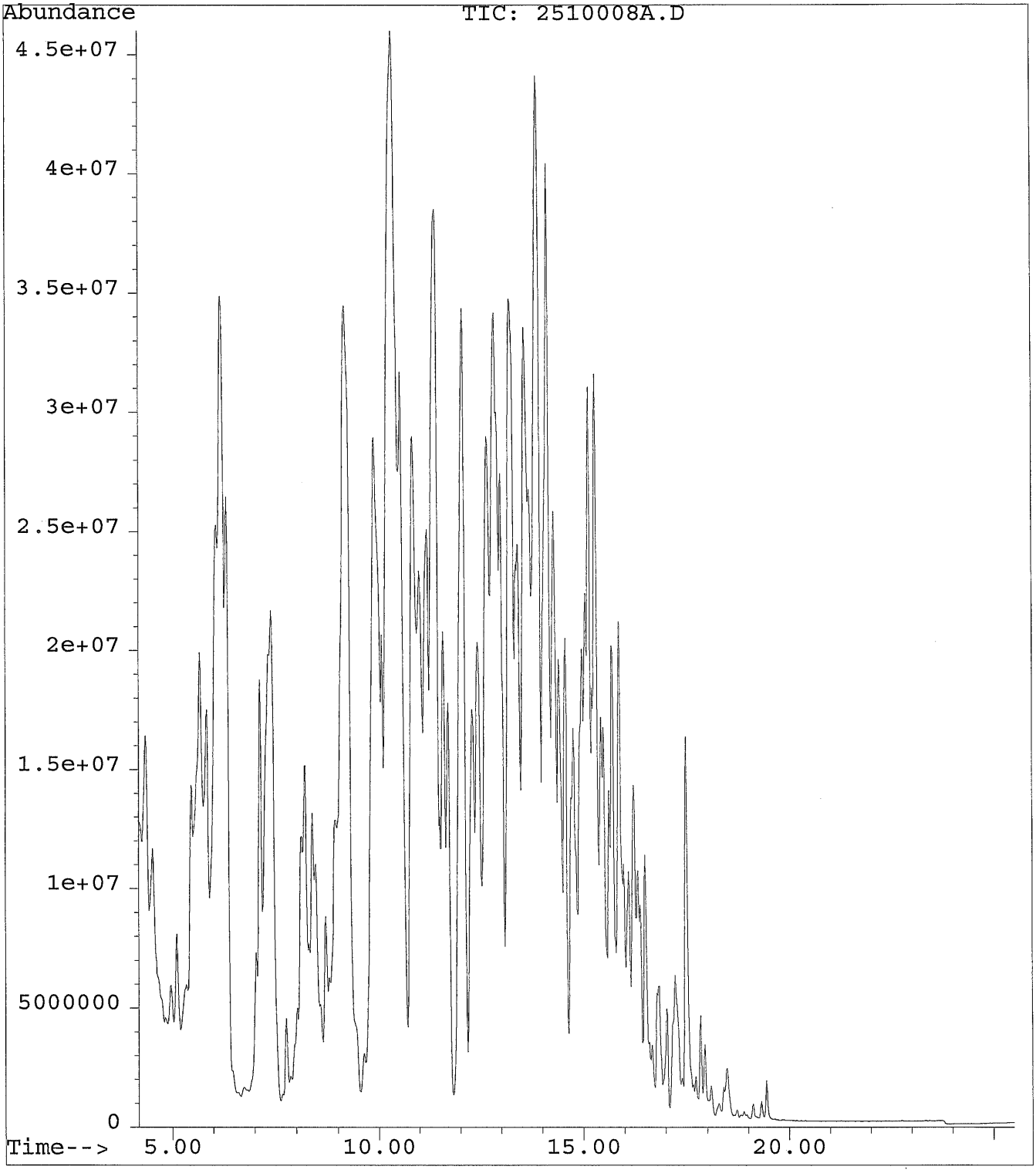
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	3117837	20.0	11532472	21.975	92.30	159.06
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	11532472	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	437063	20.0	11532472	0.689	2.90	3.79
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	11532472	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	11532472	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	11532472	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	11532472	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	11532472	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	11532472	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	0	20.0	11532472	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.130	0	20.0	11532472	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	11532472	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	637462	20.0	11532472	4.635	19.47	46.33
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	0	20.0	11532472	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	11532472	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	11532472	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	11532472	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	11532472	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	11532472	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	11532472	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	11532472	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	11532472	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	11532472	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	11532472	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	11532472	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	11532472	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	11532472	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	11532472	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	0	20.0	11532472	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	11532472	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	2914455	20.0	11532472	6.838	28.72	101.39

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	11532472	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	11532472	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	11532472	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	11532472	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	50777771	20.0	11532472	412.891	1734.14	5120.67
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	11532472	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	11532472	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	11532472	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	11532472	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	15936721	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	15936721	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	15936721	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	15936721	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	142089514	20.0	15936721	166.096	697.60	2231.35
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	15936721	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	15936721	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	27828173	20.0	15936721	17.336	72.81	340.53
51	n-Heptane	14DF	TRG	100.2	0.395	10955790	20.0	15936721	34.847	146.36	600.61
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	15936721	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	15936721	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	15936721	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	15936721	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	15936721	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	15936721	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	15936721	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	15936721	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	49388743	20.0	15936721	41.311	173.51	654.46
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	15936721	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	15936721	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	15936721	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	15936721	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	15936721	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	427180	20.0	15936721	0.904	3.80	17.77
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	15936721	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	15936721	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	2273967	20.0	15936721	3.877	16.28	110.57
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	7713232	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	7713232	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	27130183	20.0	7713232	39.508	165.94	721.72
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	21312682	20.0	7713232	34.743	145.92	634.67
76	Nonane	d5CB	TRG	128.3	1.278	4158744	20.0	7713232	8.436	35.43	186.18
77	Styrene	d5CB	TRG	104.2	1.106	86921	20.0	7713232	0.204	0.86	3.65
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	7713232	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	7423451	20.0	7713232	11.582	48.65	211.58
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	7713232	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	7713232	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	7713232	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	7713232	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	7713232	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	294662	20.0	7713232	0.352	1.48	7.28
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	89073	20.0	7713232	0.118	0.50	2.45
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	7713232	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	7713232	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	169557	20.0	7713232	0.213	0.90	4.41
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	7713232	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	7713232	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	7713232	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	7713232	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	7713232	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	7713232	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	7713232	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	7713232	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	7713232	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	7713232	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	7713232	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	7713232	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	7713232	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	11532472	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	15936721	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	7713232	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	5455908	10.0		5.569	55.69	56

File : C:\MSCHEM\1\DATA\04045A_C\2510008A.D
Operator : MM
Acquired : 4 Apr 125 12:29 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-108
Misc Info : SCHMIDT
Vial Number: 1



ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 08**

File Name:	2510008B.D	**Date Sampled:**	03/19/25	**Time:**	10:30
Description:	T-108	**Date Analyzed:**	04/04/25	**Time:**	13:16
Canister:	556	**Can Dilution Factor:**	1.26		
QC_Batch:	040425-MA1	**Air Volume:**	5 ml		

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	12.7	75.6	4,801.5	37.4	223.2	14,178.1	
71-43-2	Benzene	88.2	126.0	10,111.6	282.1	403.0	32,342.9	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	98	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**08**		
File Name:	2510008B.D	**Method:**	**TO-15**	**Date Sampled:**	**03/19/25**	**Time:**	**10:30**
Sample ID:	T-108	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/04/25**	**Time:**	**13:16**
Anal Date:	4 Apr 125 1:16 pm	**SF:**	**1**	**QCbatch:**	**040425-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**1**	**Volume:**	**5.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**556**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.26**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	MM	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**2.0**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.000	4.41	42.00	0
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.000	4.86	31.00	0
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	0.000	6.42	58.00	0
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	19.054	9.72	72.00	2660771
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	40.126	10.70	78.00	33420495
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.000	13.50	91.00	0
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.000	15.90	106	0
1330-20-7	m,p-Xylenes	75	TRG	0.000	16.06	91.00	0
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.000	16.61	104.00	0
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	16.78	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.000	18.31	105.00	0
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.000	18.95	105.00	0
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**13095330**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**15516318**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**14618152**
2037-26-5	Toluene-d8	103	SURR	9.793	13.40	98.00	**9341681**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**		EDD SURR:	PERCENT										
Laboratory Number:	**08**		Sam Type:	SA										
File Name:	2510008B.D		Instrument:	MA1		IS LCL	50							
Run Method:	A1563_P.M		DETECT:	ND		IS UCL	200			Gas Constant				
Can Factor:	1.26		Matrix:	AA		SUR LCL	70			T	24.5			
Air Volume:	5.0	ml	Type:	TRG		SUR UCL	130			P	760			
Can/Tube Number:	556		Diluton:	0.0063		MDL Factor	1.0			MV	24.417			
Dilution Factor:	0.0063		Sig Figs:	1		E Flag	2.0			GC	24.417			
Base Volume:	1000	ml	MDLSF:	1										
Unit Factor (ppbv):	1000	PPBV	UG/M3		Fixed	Fixed	Fixed	Fixed	(1)	(2)	Calc	Calc	Calc	
	M.W.	Raw	ResultV	Result	Result	Result	ResultQ	ResultG	MDL	RL	MDL	MDL	RL	
Compound		Amount	PPBV	UG/M3	PPBV	UG/M3	UG/M3	UG/M3		PPBV	PPBV	UG/M3	PPBV	
Propylene	42.08	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	25.20	43.43	63.00	
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	37.80	187.17	63.00	
Methanol	32.0	0.00	0.00	0.00	ND	ND	0		**0.500**	**0.600**	126.00	165.13	151.20	
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	37.80	78.18	63.00	
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	25.20	176.38	63.00	
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	12.68	32.45	63.00	
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	12.68	28.09	63.00	
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	25.20	97.94	63.00	
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	25.20	66.57	63.00	
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		**0.500**	**3.210**	126.00	237.89	808.92	
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	25.20	57.90	75.60	
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	25.20	141.81	63.00	
Acetone	58.1	0.00	0.00	0.00	ND	ND	0		**0.500**	**0.600**	126.00	299.82	151.20	
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**1.250**	50.40	124.05	315.00	
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**1.000**	25.20	76.48	252.00	
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	25.20	147.48	75.60	
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	12.60	50.00	63.00	
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.300**	50.40	109.61	75.60	
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	12.60	96.70	63.00	
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	12.60	39.48	252.00	
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	12.60	43.81	63.00	
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	25.20	78.54	63.00	
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.200**	12.60	50.00	50.40	
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.200**	25.20	90.92	50.40	
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		**0.250**	**0.400**	63.00	142.17	100.80	
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	12.57	50.96	63.00	
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	25.20	105.48	63.00	
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	12.60	44.43	252.00	
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	25.20	74.41	75.60	
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.600**	25.20	105.48	151.20	
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	25.20	88.96	63.00	
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	25.20	69.25	63.00	
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	25.20	90.92	63.00	
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	12.60	66.77	63.00	
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	25.20	88.86	126.00	
Tetrahydrofuran	72.1	19.05	4801.49	14178.11	4,801.5	14,178.1	14178.1	14,178.1	**0.050**	**0.300**	12.68	37.43	75.60	
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.800**	50.40	152.95	201.60	
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	12.60	50.00	63.00	
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	12.60	58.31	63.00	
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	12.64	61.80	63.00	
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	12.60	68.84	63.00	
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	12.60	51.09	63.00	
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	12.60	57.28	63.00	
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	12.60	43.45	63.00	
Benzene	78.1	40.13	10111.64	32342.95	0,111.6	32,342.9	32342.9	32,342.9	**0.350**	**0.500**	88.20	282.12	126.00	
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	12.60	79.37	63.00	
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	25.20	105.48	126.00	
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	12.60	58.93	63.00	
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	25.20	103.41	63.00	

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	12.60	58.31	63.00
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	25.20	90.92	126.00
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	12.60	89.70	63.00
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	6.30	33.90	63.00
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	12.60	84.53	63.00
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	25.20	103.31	63.00
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	25.20	103.41	201.60
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	12.60	57.28	63.00
Toluene	92.1	0.00	0.00	0.00	ND	ND	0		0.200	0.250	50.40	190.11	63.00
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	12.60	57.28	63.00
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	12.60	68.84	63.00
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	25.20	117.86	63.00
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	25.20	103.41	201.60
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	12.60	58.31	176.40
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	25.20	117.86	63.00
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	25.20	214.98	63.00
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	25.20	193.93	63.00
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	6.30	42.78	63.00
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	25.20	116.21	63.00
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	25.20	173.18	63.00
Ethylbenzene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	25.20	109.61	63.00
m,p-Xylenes	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	25.20	109.61	63.00
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	25.20	132.41	63.00
Styrene	104.2	0.00	0.00	0.00	ND	ND	0		0.150	0.250	37.80	161.31	63.00
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	25.20	260.80	63.00
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	25.20	109.61	63.00
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	50.40	346.36	126.00
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	50.40	304.25	151.20
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	50.40	258.02	151.20
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	50.40	248.11	176.40
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	50.40	248.11	176.40
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	50.40	248.11	403.20
1,3,5-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	50.40	248.11	226.80
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	50.40	293.73	151.20
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	50.40	277.01	151.20
1,2,4-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	50.40	248.11	226.80
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	50.40	277.01	151.20
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	50.40	277.01	176.40
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	50.40	303.43	201.60
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	50.40	277.01	151.20
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	50.40	261.32	126.00
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	50.40	303.43	126.00
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	50.40	277.01	151.20
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	50.40	303.43	176.40
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	75.60	731.63	176.40
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	75.60	561.65	126.00
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	126.00	661.55	25.20
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	75.60	561.65	126.00
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	63.00	672.91	75.60
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		9.79	98	98	98	98	98	98	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
108.57	U	ND		ND		Y	0.00	0.00
311.94	U	ND		ND		Y	0.00	0.00
198.16	U	ND		ND		Y	0.00	0.00
130.30	U	ND		ND		Y	0.00	0.00
440.95	U	ND		ND		Y	0.00	0.00
161.26	U	ND		ND		Y	0.00	0.00
139.59	U	ND		ND		Y	0.00	0.00
244.86	U	ND		ND		Y	0.00	0.00
166.42	U	ND		ND		Y	0.00	0.00
1527.26	U	ND		ND		Y	0.00	0.00
173.70	U	ND		ND		Y	0.00	0.00
354.51	U	ND		ND		Y	0.00	0.00
359.78	U	ND		ND		Y	0.00	0.00
775.34	U	ND		ND		Y	0.00	0.00
764.76	U	ND		ND		Y	0.00	0.00
442.45	U	ND		ND		Y	0.00	0.00
250.02	U	ND		ND		Y	0.00	0.00
164.41	U	ND		ND		Y	0.00	0.00
483.52	U	ND		ND		Y	0.00	0.00
789.53	U	ND		ND		Y	0.00	0.00
219.06	U	ND		ND		Y	0.00	0.00
196.35	U	ND		ND		Y	0.00	0.00
200.01	U	ND		ND		Y	0.00	0.00
181.85	U	ND		ND		Y	0.00	0.00
227.47	U	ND		ND		Y	0.00	0.00
255.44	U	ND		ND		Y	0.00	0.00
263.69	U	ND		ND		Y	0.00	0.00
888.61	U	ND		ND		Y	0.00	0.00
223.24	U	ND		ND		Y	0.00	0.00
632.86	U	ND		ND		Y	0.00	0.00
222.41	U	ND		ND		Y	0.00	0.00
173.13	U	ND		ND		Y	0.00	0.00
227.31	U	ND		ND		Y	0.00	0.00
333.87	U	ND		ND		Y	0.00	0.00
444.30	U	ND		ND		Y	0.00	0.00
223.24				=		Y	4801.49	14178.11
611.81	U	ND		ND		Y	0.00	0.00
250.02	U	ND		ND		Y	0.00	0.00
291.56	U	ND		ND		Y	0.00	0.00
308.07	U	ND		ND		Y	0.00	0.00
344.19	U	ND		ND		Y	0.00	0.00
255.44	U	ND		ND		Y	0.00	0.00
286.40	U	ND		ND		Y	0.00	0.00
217.25	U	ND		ND		Y	0.00	0.00
403.02				=		Y	10111.64	32342.95
396.83	U	ND		ND		Y	0.00	0.00
527.39	U	ND		ND		Y	0.00	0.00
294.65	U	ND		ND		Y	0.00	0.00
258.53	U	ND		ND		Y	0.00	0.00

291.56	U	ND	ND	Y	0.00	0.00
454.62	U	ND	ND	Y	0.00	0.00
448.51	U	ND	ND	Y	0.00	0.00
339.03	U	ND	ND	Y	0.00	0.00
422.63	U	ND	ND	Y	0.00	0.00
258.27	U	ND	ND	Y	0.00	0.00
827.30	U	ND	ND	Y	0.00	0.00
286.40	U	ND	ND	Y	0.00	0.00
237.63	U	ND	ND	Y	0.00	0.00
286.40	U	ND	ND	Y	0.00	0.00
344.19	U	ND	ND	Y	0.00	0.00
294.65	U	ND	ND	Y	0.00	0.00
827.30	U	ND	ND	Y	0.00	0.00
816.36	U	ND	ND	Y	0.00	0.00
294.65	U	ND	ND	Y	0.00	0.00
537.45	U	ND	ND	Y	0.00	0.00
484.81	U	ND	ND	Y	0.00	0.00
427.79	U	ND	ND	Y	0.00	0.00
290.53	U	ND	ND	Y	0.00	0.00
432.95	U	ND	ND	Y	0.00	0.00
274.01	U	ND	ND	Y	0.00	0.00
274.01	U	ND	ND	Y	0.00	0.00
331.04	U	ND	ND	Y	0.00	0.00
268.85	U	ND	ND	Y	0.00	0.00
652.01	U	ND	ND	Y	0.00	0.00
274.01	U	ND	ND	Y	0.00	0.00
865.90	U	ND	ND	Y	0.00	0.00
912.76	U	ND	ND	Y	0.00	0.00
774.05	U	ND	ND	Y	0.00	0.00
868.38	U	ND	ND	Y	0.00	0.00
868.38	U	ND	ND	Y	0.00	0.00
1984.87	U	ND	ND	Y	0.00	0.00
1116.49	U	ND	ND	Y	0.00	0.00
881.18	U	ND	ND	Y	0.00	0.00
831.02	U	ND	ND	Y	0.00	0.00
1116.49	U	ND	ND	Y	0.00	0.00
831.02	U	ND	ND	Y	0.00	0.00
969.52	U	ND	ND	Y	0.00	0.00
1213.71	U	ND	ND	Y	0.00	0.00
831.02	U	ND	ND	Y	0.00	0.00
653.30	U	ND	ND	Y	0.00	0.00
758.57	U	ND	ND	Y	0.00	0.00
831.02	U	ND	ND	Y	0.00	0.00
1062.00	U	ND	ND	Y	0.00	0.00
1707.14	U	ND	ND	Y	0.00	0.00
936.08	U	ND	ND	Y	0.00	0.00
132.31	U	ND	ND	Y	0.00	0.00
936.08	U	ND	ND	Y	0.00	0.00
807.49	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**08**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	5	ml
Can Dilution Factor	CDF	1.26	
Gas Constant		24.42	
Decimal Places:		1	

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) **= Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

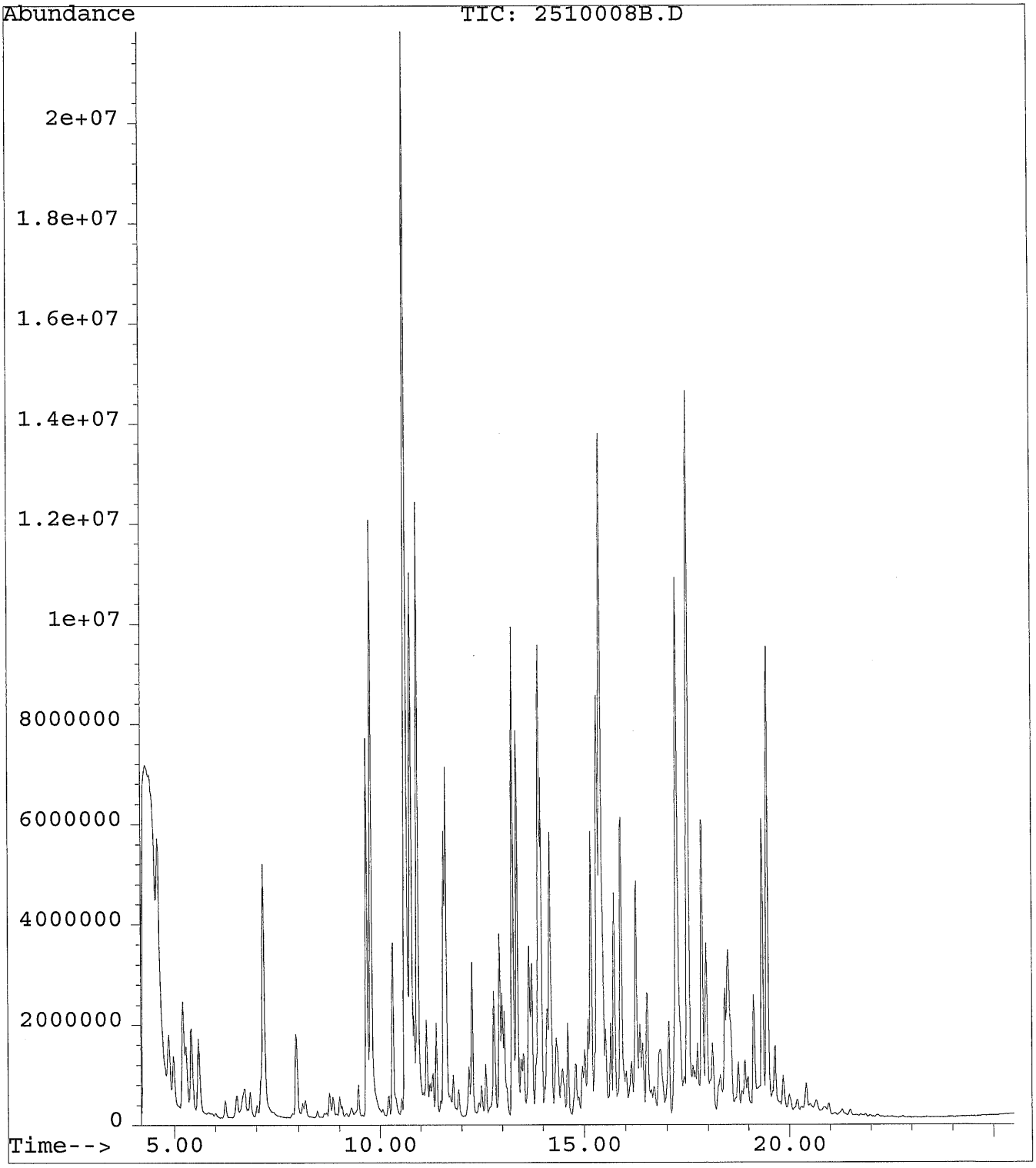
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	0	20.0	13095330	0.000	0.00	0.00
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	13095330	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	0	20.0	13095330	0.000	0.00	0.00
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	13095330	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	13095330	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	13095330	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	13095330	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	13095330	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	13095330	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	0	20.0	13095330	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.130	0	20.0	13095330	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	13095330	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	0	20.0	13095330	0.000	0.00	0.00
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	0	20.0	13095330	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	13095330	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	13095330	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	13095330	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	13095330	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	13095330	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	13095330	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	13095330	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	13095330	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	13095330	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	13095330	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	13095330	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	13095330	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	13095330	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	13095330	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	0	20.0	13095330	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	13095330	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	13095330	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	13095330	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	13095330	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	13095330	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	13095330	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	2660771	20.0	13095330	19.054	4801.49	14178.11
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	13095330	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	13095330	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	13095330	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	13095330	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	15516318	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	15516318	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	15516318	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	15516318	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	33420495	20.0	15516318	40.126	10111.64	32342.95
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	15516318	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	15516318	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	15516318	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	15516318	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	15516318	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	15516318	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	15516318	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	15516318	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	15516318	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	15516318	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	15516318	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	15516318	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	0	20.0	15516318	0.000	0.00	0.00
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	15516318	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	15516318	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	15516318	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	15516318	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	15516318	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	15516318	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	15516318	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	15516318	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	15516318	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	14618152	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	14618152	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	0	20.0	14618152	0.000	0.00	0.00
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	0	20.0	14618152	0.000	0.00	0.00
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	14618152	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	0	20.0	14618152	0.000	0.00	0.00
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	14618152	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	0	20.0	14618152	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	14618152	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	14618152	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	14618152	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	14618152	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	14618152	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	14618152	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	0	20.0	14618152	0.000	0.00	0.00
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	14618152	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	14618152	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	0	20.0	14618152	0.000	0.00	0.00
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	14618152	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	14618152	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	14618152	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	14618152	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	14618152	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	14618152	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	14618152	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	14618152	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	14618152	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	14618152	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	14618152	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	14618152	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	14618152	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	13095330	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	15516318	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	14618152	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9341681	10.0		9.793	97.93	98

File : C:\MSCHEM\1\DATA\04045A_C\2510008B.D
Operator : MM
Acquired : 4 Apr 125 1:16 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-108
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number 225100

Lab Id Number 9

Client ID T-109

Analytical Method TO-15

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 09

File Name: 2510009A.D
Description: T-109
Canister: 694
QC_Batch: 040125-MA1

Date Sampled: 03/19/25 **Time:** 11:25
Date Analyzed: 04/01/25 **Time:** 14:57
Can Dilution Factor: 1.30
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.43	1.08	1.70	0.75	1.87	2.93	
75-71-8	Dichlorodifluoromethane	0.65	1.08	ND	3.22	5.36	ND	
67-56-1	Methanol	2.17	2.60	ND	2.84	3.41	ND	
74-87-3	Chloromethane	0.65	1.08	ND	1.34	2.24	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.43	1.08	ND	3.03	7.58	ND	
75-01-4	Vinyl chloride	0.22	1.08	ND	0.56	2.77	ND	
106-99-0	1,3-Butadiene	0.22	1.08	ND	0.48	2.40	ND	
74-83-9	Bromomethane	0.43	1.08	ND	1.68	4.21	ND	
75-00-3	Chloroethane	0.43	1.08	ND	1.14	2.86	ND	
64-17-5	Ethanol	2.17	13.91	ND	4.09	26.26	ND	
107-02-8	Acrolein	0.43	1.30	ND	1.00	2.99	ND	
75-69-4	Trichlorofluoromethane	0.43	1.08	ND	2.44	6.10	ND	
67-64-1	Acetone	2.17	2.60	4.25	5.16	6.19	10.10	
67-63-0	2-propanol (isopropylalcohol)	0.87	5.42	1.21	2.13	13.33	2.98	J
75-65-0	t-Butyl alcohol	0.43	4.33	ND	1.32	13.15	ND	
4227-95-6	Methyl iodide	0.43	1.30	ND	2.54	7.61	ND	
75-35-4	1,1-Dichloroethene	0.22	1.08	ND	0.86	4.30	ND	
107-13-1	Acrylonitrile	0.87	1.30	ND	1.88	2.83	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.22	1.08	ND	1.66	8.31	ND	
107-05-1	Allyl chloride	0.22	4.33	ND	0.68	13.58	ND	
75-09-2	Methylene chloride	0.22	1.08	ND	0.75	3.77	ND	
75-15-0	Carbon disulfide	0.43	1.08	ND	1.35	3.38	ND	
156-60-5	trans-1,2-Dichloroethene	0.22	0.87	ND	0.86	3.44	ND	
1634-04-4	Methyl tert butyl ether	0.43	0.87	ND	1.56	3.13	ND	
107-12-0	Propionitrile	1.08	1.73	ND	2.44	3.91	ND	
75-34-3	1,1-Dichloroethane	0.22	1.08	ND	0.88	4.39	ND	
637-92-3	Ethyl tert butyl ether	0.43	1.08	ND	1.81	4.53	ND	
108-05-4	Vinyl acetate	0.22	4.33	ND	0.76	15.28	ND	
78-93-3	2-Butanone (MEK)	0.43	1.30	1.73	1.28	3.84	5.11	
108-20-3	Diisopropyl ether	0.43	2.60	ND	1.81	10.88	ND	
110-54-3	Hexane	0.43	1.08	ND	1.53	3.82	ND	
126-98-7	Methacrylonitrile	0.43	1.08	ND	1.19	2.98	ND	
141-78-6	Ethyl acetate	0.43	1.08	ND	1.56	3.91	ND	
74-97-5	Bromochloromethane	0.22	1.08	ND	1.15	5.74	ND	
96-33-3	Methyl acrylate	0.43	2.17	ND	1.53	7.64	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.22	1.30	5.96	0.64	3.84	17.59	
78-83-1	Isobutyl alcohol	0.87	3.47	ND	2.63	10.52	ND	
156-59-2	cis-1,2-Dichloroethene	0.22	1.08	ND	0.86	4.30	ND	
594-20-7	2,2-Dichloropropane	0.22	1.08	ND	1.00	5.01	ND	
67-66-3	Chloroform	0.22	1.08	ND	1.06	5.30	ND	
71-55-6	1,1,1-Trichloroethane	0.22	1.08	ND	1.18	5.92	ND	
107-06-2	1,2-Dichloroethane	0.22	1.08	ND	0.88	4.39	ND	
563-58-6	1,1-Dichloropropene	0.22	1.08	ND	0.98	4.92	ND	
110-82-7	Cyclohexane	0.22	1.08	ND	0.75	3.74	ND	
71-43-2	Benzene	1.52	2.17	20.44	4.85	6.93	65.39	
56-23-5	Carbon tetrachloride	0.22	1.08	ND	1.36	6.82	ND	
994-05-8	t-Amyl methyl ether	0.43	2.17	ND	1.81	9.07	ND	
540-84-1	2,2,4-Trimethylpentane	0.22	1.08	ND	1.01	5.07	ND	
142-82-5	n-Heptane	0.43	1.08	ND	1.78	4.45	ND	
78-87-5	1,2-Dichloropropane	0.22	1.08	ND	1.00	5.01	ND	
123-91-1	1,4 Dioxane	0.43	2.17	ND	1.56	7.82	ND	
74-95-3	Dibromomethane	0.22	1.08	ND	1.54	7.71	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.08	ND	0.58	5.83	ND	
75-27-4	Bromodichloromethane	0.22	1.08	ND	1.45	7.27	ND	
80-62-6	Methyl methacrylate	0.43	1.08	ND	1.78	4.44	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.43	3.47	ND	1.78	14.23	ND	
10061-01-5	cis-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.92	ND	
108-88-3	Toluene	0.87	1.08	4.02	3.27	4.09	15.16	
10061-02-6	trans-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.92	ND	
79-00-5	1,1,2-Trichloroethane	0.22	1.08	ND	1.18	5.92	ND	
97-63-2	Ethyl methacrylate	0.43	1.08	ND	2.03	5.07	ND	
591-78-6	2-Hexanone	0.43	3.47	ND	1.78	14.23	ND	
142-28-9	1,3-Dichloropropane	0.22	3.03	ND	1.00	14.04	ND	
111-65-9	Octane	0.43	1.08	ND	2.03	5.07	ND	
124-48-1	Dibromochloromethane	0.43	1.08	ND	3.70	9.24	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.43	1.08	ND	3.33	8.34	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.08	0.14	0.74	7.36	0.94	J
108-90-7	Chlorobenzene	0.43	1.08	ND	2.00	5.00	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.43	1.08	ND	2.98	7.44	ND	
100-41-4	Ethylbenzene	0.43	1.08	2.86	1.88	4.71	12.43	
1330-20-7	m,p-Xylenes	0.43	1.08	3.85	1.88	4.71	16.76	
111-84-2	Nonane	0.43	1.08	2.07	2.28	5.69	10.87	
100-42-5	Styrene	0.65	1.08	ND	2.77	4.62	ND	
75-25-2	Bromoform	0.43	1.08	ND	4.48	11.21	ND	
95-47-6	o-Xylene	0.43	1.08	1.23	1.88	4.71	5.34	
79-34-5	1,1,2,2-Tetrachloroethane	0.87	2.17	ND	5.96	14.89	ND	
96-18-4	1,2,3-Trichloropropane	0.87	2.60	ND	5.23	15.70	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.87	2.60	ND	4.44	13.31	ND	
103-65-1	n-Propylbenzene	0.87	3.03	ND	4.27	14.93	ND	
98-82-8	Isopropylbenzene	0.87	3.03	ND	4.27	14.93	ND	
622-96-8	4-Ethyltoluene	0.87	6.93	ND	4.27	34.13	ND	
108-67-8	1,3,5-Trimethylbenzene	0.87	3.90	ND	4.27	19.20	ND	
124-18-5	Decane	0.87	2.60	1.06	5.05	15.15	6.16	J
98-06-6	tert-butyl benzene	0.87	2.60	ND	4.76	14.29	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.87	3.90	ND	4.27	19.20	ND	
538-93-2	i-Butylbenzene	0.87	2.60	ND	4.76	14.29	ND	
135-98-8	sec-butylbenzene	0.87	3.03	ND	4.76	16.67	ND	
541-73-1	1,3-Dichlorobenzene	0.87	3.47	ND	5.22	20.87	ND	
99-87-6	Isopropyltoluene	0.87	2.60	4.09	4.76	14.29	22.48	
100-44-7	Benzyl chloride	0.87	2.17	ND	4.49	11.23	ND	
106-46-7	1,4-Dichlorobenzene	0.87	2.17	ND	5.22	13.04	ND	
104-51-8	n-Butylbenzene	0.87	2.60	ND	4.76	14.29	ND	
95-50-1	1,2-Dichlorobenzene	0.87	3.03	ND	5.22	18.26	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.30	3.03	ND	12.58	29.36	ND	
120-82-1	1,2,4-Trichlorobenzene	1.30	2.17	ND	9.66	16.10	ND	
91-20-3	Naphthalene	2.17	0.43	ND	11.38	2.28	ND	
87-61-6	1,2,3-Trichlorobenzene	1.30	2.17	ND	9.66	16.10	ND	
87-68-3	Hexachlorobutadiene	1.08	1.30	ND	11.57	13.89	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	105	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**09**		
File Name:	2510009A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/19/25**	**Time:**	**11:25**
Sample ID:	T-109	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/01/25**	**Time:**	**14:57**
Anal Date:	1 Apr 125 2:57 pm	**SF:**	**2**	**QCbatch:**	**040125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**694**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.30**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	DA	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.392	4.41	42.00	62362
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.253	4.86	31.00	179770
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.238	5.72	46.00	21906
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	0.980	6.42	58.00	150930
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.279	6.45	45.00	179488
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.399	8.75	72.00	51509
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	1.374	9.72	72.00	189315
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	4.718	10.70	78.00	3819962
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.928	13.50	91.00	1049820
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.032	14.69	166.00	17812
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.659	15.90	106	891619
1330-20-7	m,p-Xylenes	75	TRG	0.889	16.06	91.00	1074032
111-84-2	Nonane	76	TRG	0.478	16.43	57.00	463495
100-42-5	Styrene	77	TRG	0.058	16.61	104.00	48284
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.283	16.54	91.00	357557
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.096	18.23	105.00	157514
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.057	18.31	105.00	83927
124-18-5	Decane	87	TRG	0.244	18.60	57.00	431063
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.094	18.95	105.00	146751
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.944	19.53	119.00	2089462
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**12916126**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**15083691**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15187024**
2037-26-5	Toluene-d8	103	SURR	10.543	13.40	98.00	**9776209**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	2E+05
Laboratory Number:	09
File Name:	2510009A.D
Run Method:	A1563_P.M
Can Factor:	1.30
Air Volume:	300.0 ml
Can/Tube Number:	694
Dilution Factor:	0.3900
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3900
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.39	1.70	2.93	1.70	2.93	2.93	2.93	0.100	0.250	0.43	0.75	1.08
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.65	3.22	1.08
Methanol	32.0	0.25	1.10	1.44	ND	ND	0		0.500	0.600	2.17	2.84	2.60
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.65	1.34	1.08
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	3.03	1.08
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.56	1.08
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.48	1.08
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.68	1.08
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.14	1.08
Ethanol	46.1	0.24	1.03	1.95	ND	ND	0		0.500	3.210	2.17	4.09	13.91
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.43	1.00	1.30
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.44	1.08
Acetone	58.1	0.98	4.25	10.10	4.25	10.10	10.10	10.10	0.500	0.600	2.17	5.16	2.60
2-propanol (isopropylalcohol)	60.1	0.28	1.21	2.98	1.21	2.98	2.98	2.98	0.200	1.250	0.87	2.13	5.42
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.43	1.32	4.33
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.43	2.54	1.30
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.86	1.08
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.87	1.88	1.30
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.66	1.08
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.22	0.68	4.33
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.75	1.08
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.35	1.08
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.22	0.86	0.87
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.43	1.56	0.87
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.08	2.44	1.73
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.88	1.08
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.81	1.08
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.22	0.76	4.33
2-Butanone (MEK)	72.1	0.40	1.73	5.11	1.73	5.11	5.11	5.11	0.100	0.300	0.43	1.28	1.30
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.43	1.81	2.60
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.53	1.08
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.19	1.08
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.56	1.08
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.15	1.08
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.43	1.53	2.17
Tetrahydrofuran	72.1	1.37	5.96	17.59	5.96	17.59	17.59	17.59	0.050	0.300	0.22	0.64	1.30
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.87	2.63	3.47
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.86	1.08
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.00	1.08
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.06	1.08
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.18	1.08
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.88	1.08
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.98	1.08
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.75	1.08
Benzene	78.1	4.72	20.44	65.39	20.44	65.39	65.39	65.39	0.350	0.500	1.52	4.85	2.17
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.36	1.08
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.43	1.81	2.17
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.01	1.08
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.78	1.08

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	1.00	1.08
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.43	1.56	2.17
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	1.54	1.08
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		**0.025**	**0.250**	0.11	0.58	1.08
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	1.45	1.08
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.43	1.78	1.08
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.800**	0.43	1.78	3.47
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	0.98	1.08
Toluene	92.1	0.93	4.02	15.16	4.02	15.16	15.16	15.16	**0.200**	**0.250**	0.87	3.27	1.08
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	0.98	1.08
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	1.18	1.08
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.43	2.03	1.08
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.800**	0.43	1.78	3.47
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.700**	0.22	1.00	3.03
Octane	114.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.43	2.03	1.08
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.43	3.70	1.08
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.43	3.33	1.08
Tetrachloroethene (PCE)	165.8	0.03	0.14	0.94	0.14	0.94	0.94	0.94	**0.025**	**0.250**	0.11	0.74	1.08
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.43	2.00	1.08
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.43	2.98	1.08
Ethylbenzene	106.2	0.66	2.86	12.43	2.86	12.43	12.43	12.43	**0.100**	**0.250**	0.43	1.88	1.08
m,p-Xylenes	106.2	0.89	3.85	16.76	3.85	16.76	16.76	16.76	**0.100**	**0.250**	0.43	1.88	1.08
Nonane	128.3	0.48	2.07	10.87	2.07	10.87	10.87	10.87	**0.100**	**0.250**	0.43	2.28	1.08
Styrene	104.2	0.06	0.25	1.06	ND	ND	0		**0.150**	**0.250**	0.65	2.77	1.08
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.43	4.48	1.08
o-Xylene	106.2	0.28	1.23	5.34	1.23	5.34	5.34	5.34	**0.100**	**0.250**	0.43	1.88	1.08
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.500**	0.87	5.96	2.17
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.87	5.23	2.60
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.87	4.44	2.60
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.700**	0.87	4.27	3.03
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.700**	0.87	4.27	3.03
4-Ethyltoluene	120.2	0.10	0.41	2.04	ND	ND	0		**0.200**	**1.600**	0.87	4.27	6.93
1,3,5-Trimethylbenzene	120.2	0.06	0.25	1.21	ND	ND	0		**0.200**	**0.900**	0.87	4.27	3.90
Decane	142.3	0.24	1.06	6.16	1.06	6.16	6.16	6.16	**0.200**	**0.600**	0.87	5.05	2.60
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.87	4.76	2.60
1,2,4-Trimethylbenzene	120.2	0.09	0.41	2.00	ND	ND	0		**0.200**	**0.900**	0.87	4.27	3.90
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.87	4.76	2.60
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.700**	0.87	4.76	3.03
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.800**	0.87	5.22	3.47
Isopropyltoluene	134.2	0.94	4.09	22.48	4.09	22.48	22.48	22.48	**0.200**	**0.600**	0.87	4.76	2.60
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.500**	0.87	4.49	2.17
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.500**	0.87	5.22	2.17
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.87	4.76	2.60
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.700**	0.87	5.22	3.03
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		**0.300**	**0.700**	1.30	12.58	3.03
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		**0.300**	**0.500**	1.30	9.66	2.17
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		**0.500**	**0.100**	2.17	11.38	0.43
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		**0.300**	**0.500**	1.30	9.66	2.17
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		**0.250**	**0.300**	1.08	11.57	1.30
Pentafluorobenzene		20.00							**20.0**	**20.0**			
1,4-Difluorobenzene		20.00							**20.0**	**20.0**			
Chlorobenzene-d5		20.00							**20.0**	**20.0**			
Toluene-d8		10.54	105	105	105	105	105	105	**10.0**	**10.0**			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.87				=		Y	1.70	2.93
5.36	U	ND		ND		Y	0.00	0.00
3.41	U	ND		ND		Y	0.00	0.00
2.24	U	ND		ND		Y	0.00	0.00
7.58	U	ND		ND		Y	0.00	0.00
2.77	U	ND		ND		Y	0.00	0.00
2.40	U	ND		ND		Y	0.00	0.00
4.21	U	ND		ND		Y	0.00	0.00
2.86	U	ND		ND		Y	0.00	0.00
26.26	U	ND		ND		Y	0.00	0.00
2.99	U	ND		ND		Y	0.00	0.00
6.10	U	ND		ND		Y	0.00	0.00
6.19				=		Y	4.25	10.10
13.33	J	J		=		Y	1.21	2.98
13.15	U	ND		ND		Y	0.00	0.00
7.61	U	ND		ND		Y	0.00	0.00
4.30	U	ND		ND		Y	0.00	0.00
2.83	U	ND		ND		Y	0.00	0.00
8.31	U	ND		ND		Y	0.00	0.00
13.58	U	ND		ND		Y	0.00	0.00
3.77	U	ND		ND		Y	0.00	0.00
3.38	U	ND		ND		Y	0.00	0.00
3.44	U	ND		ND		Y	0.00	0.00
3.13	U	ND		ND		Y	0.00	0.00
3.91	U	ND		ND		Y	0.00	0.00
4.39	U	ND		ND		Y	0.00	0.00
4.53	U	ND		ND		Y	0.00	0.00
15.28	U	ND		ND		Y	0.00	0.00
3.84				=		Y	1.73	5.11
10.88	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
2.98	U	ND		ND		Y	0.00	0.00
3.91	U	ND		ND		Y	0.00	0.00
5.74	U	ND		ND		Y	0.00	0.00
7.64	U	ND		ND		Y	0.00	0.00
3.84				=		Y	5.96	17.59
10.52	U	ND		ND		Y	0.00	0.00
4.30	U	ND		ND		Y	0.00	0.00
5.01	U	ND		ND		Y	0.00	0.00
5.30	U	ND		ND		Y	0.00	0.00
5.92	U	ND		ND		Y	0.00	0.00
4.39	U	ND		ND		Y	0.00	0.00
4.92	U	ND		ND		Y	0.00	0.00
3.74	U	ND		ND		Y	0.00	0.00
6.93				=		Y	20.44	65.39
6.82	U	ND		ND		Y	0.00	0.00
9.07	U	ND		ND		Y	0.00	0.00
5.07	U	ND		ND		Y	0.00	0.00
4.45	U	ND		ND		Y	0.00	0.00

5.01	U	ND	ND	Y	0.00	0.00
7.82	U	ND	ND	Y	0.00	0.00
7.71	U	ND	ND	Y	0.00	0.00
5.83	U	ND	ND	Y	0.00	0.00
7.27	U	ND	ND	Y	0.00	0.00
4.44	U	ND	ND	Y	0.00	0.00
14.23	U	ND	ND	Y	0.00	0.00
4.92	U	ND	ND	Y	0.00	0.00
4.09			=	Y	4.02	15.16
4.92	U	ND	ND	Y	0.00	0.00
5.92	U	ND	ND	Y	0.00	0.00
5.07	U	ND	ND	Y	0.00	0.00
14.23	U	ND	ND	Y	0.00	0.00
14.04	U	ND	ND	Y	0.00	0.00
5.07	U	ND	ND	Y	0.00	0.00
9.24	U	ND	ND	Y	0.00	0.00
8.34	U	ND	ND	Y	0.00	0.00
7.36	J	J	=	Y	0.14	0.94
5.00	U	ND	ND	Y	0.00	0.00
7.44	U	ND	ND	Y	0.00	0.00
4.71			=	Y	2.86	12.43
4.71			=	Y	3.85	16.76
5.69			=	Y	2.07	10.87
4.62	U	ND	ND	Y	0.00	0.00
11.21	U	ND	ND	Y	0.00	0.00
4.71			=	Y	1.23	5.34
14.89	U	ND	ND	Y	0.00	0.00
15.70	U	ND	ND	Y	0.00	0.00
13.31	U	ND	ND	Y	0.00	0.00
14.93	U	ND	ND	Y	0.00	0.00
14.93	U	ND	ND	Y	0.00	0.00
34.13	U	ND	ND	Y	0.00	0.00
19.20	U	ND	ND	Y	0.00	0.00
15.15	J	J	=	Y	1.06	6.16
14.29	U	ND	ND	Y	0.00	0.00
19.20	U	ND	ND	Y	0.00	0.00
14.29	U	ND	ND	Y	0.00	0.00
16.67	U	ND	ND	Y	0.00	0.00
20.87	U	ND	ND	Y	0.00	0.00
14.29			=	Y	4.09	22.48
11.23	U	ND	ND	Y	0.00	0.00
13.04	U	ND	ND	Y	0.00	0.00
14.29	U	ND	ND	Y	0.00	0.00
18.26	U	ND	ND	Y	0.00	0.00
29.36	U	ND	ND	Y	0.00	0.00
16.10	U	ND	ND	Y	0.00	0.00
2.28	U	ND	ND	Y	0.00	0.00
16.10	U	ND	ND	Y	0.00	0.00
13.89	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**09**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.30	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum $\frac{(Astdni)}{(Cstdni)}$ $\frac{(Cistdi)}{(Aistdi)}$ i Note: 1

2) Raw Amt = $\frac{(Ansamp)}{(Avg\ RFn)}$ $\frac{(Cistdi)}{(Aistdi)}$ = **Cn**

3) Amount ppbv = $\frac{(Raw\ Amt)\ 1000}{(SV)}$ (CDF)

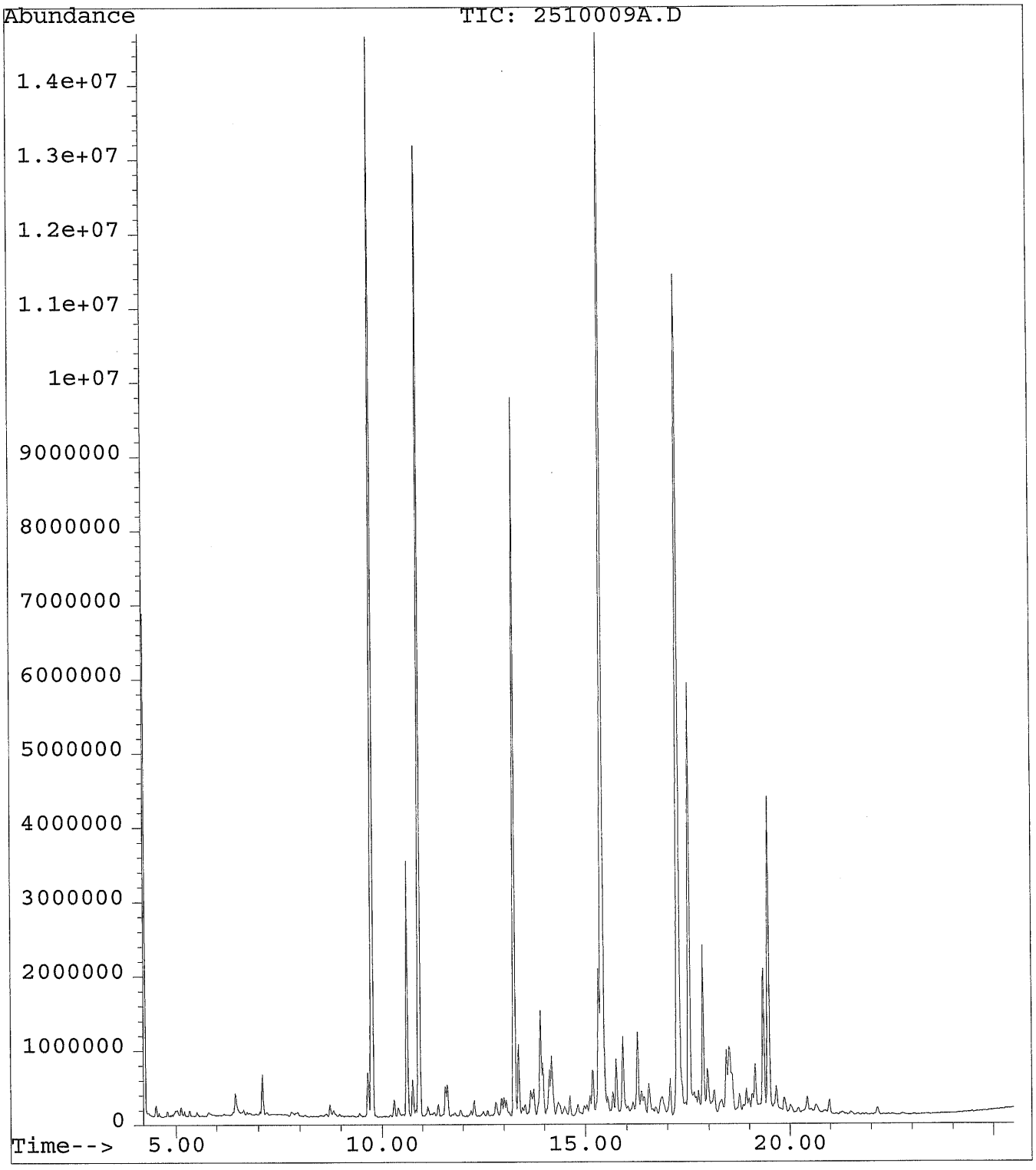
4) Amount ug/m3 = $\frac{(amt(ppbv)\ MW}{24.42}$

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	62362	20.0	12916126	0.392	1.70	2.93
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	12916126	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	179770	20.0	12916126	0.253	1.10	1.44
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	12916126	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	12916126	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	12916126	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	12916126	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	12916126	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	12916126	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	21906	20.0	12916126	0.238	1.03	1.95
12	Acrolein	PFB	TRG	56.1	0.130	0	20.0	12916126	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	12916126	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	150930	20.0	12916126	0.980	4.25	10.10
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	179488	20.0	12916126	0.279	1.21	2.98
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	12916126	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	12916126	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	12916126	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	12916126	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	12916126	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	12916126	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	12916126	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	12916126	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	12916126	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	12916126	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	12916126	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	12916126	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	12916126	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	12916126	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	51509	20.0	12916126	0.399	1.73	5.11
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	12916126	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	12916126	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	12916126	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	12916126	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	12916126	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	12916126	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	189315	20.0	12916126	1.374	5.96	17.59
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	12916126	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	12916126	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	12916126	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	12916126	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	15083691	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	15083691	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	15083691	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	15083691	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	3819962	20.0	15083691	4.718	20.44	65.39
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	15083691	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	15083691	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	15083691	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	15083691	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	15083691	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	15083691	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	15083691	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	15083691	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	15083691	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	15083691	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	15083691	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	15083691	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	1049820	20.0	15083691	0.928	4.02	15.16
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	15083691	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	15083691	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	15083691	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	15083691	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	15083691	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	15083691	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	15083691	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	15083691	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	17812	20.0	15083691	0.032	0.14	0.94
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	15187024	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	15187024	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	891619	20.0	15187024	0.659	2.86	12.43
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	1074032	20.0	15187024	0.889	3.85	16.76
76	Nonane	d5CB	TRG	128.3	1.278	463495	20.0	15187024	0.478	2.07	10.87
77	Styrene	d5CB	TRG	104.2	1.106	48284	20.0	15187024	0.058	0.25	1.06
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	15187024	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	357557	20.0	15187024	0.283	1.23	5.34
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	15187024	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	15187024	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	15187024	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	15187024	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	15187024	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	157514	20.0	15187024	0.096	0.41	2.04
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	83927	20.0	15187024	0.057	0.25	1.21
87	Decane	d5CB	TRG	142.3	2.327	431063	20.0	15187024	0.244	1.06	6.16
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	15187024	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	146751	20.0	15187024	0.094	0.41	2.00
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	15187024	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	15187024	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	15187024	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	2089462	20.0	15187024	0.944	4.09	22.48
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	15187024	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	15187024	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	15187024	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	15187024	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	15187024	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	15187024	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	15187024	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	15187024	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	15187024	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	12916126	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	15083691	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15187024	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9776209	10.0		10.543	105.43	105

File : C:\MSCHEM\1\DATA\04015A_C\2510009A.D
Operator : DA
Acquired : 1 Apr 125 2:57 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-109
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **10**

Client ID T-110

Analytical Method TO-15

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 10

File Name: 2510010A.D
Description: T-110
Canister: 857
QC_Batch: 033125-MA1

Date Sampled: 03/19/25 **Time:** 11:32
Date Analyzed: 03/31/25 **Time:** 19:15
Can Dilution Factor: 1.27
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.06	1.73	0.73	1.82	2.99	
75-71-8	Dichlorodifluoromethane	0.64	1.06	ND	3.14	5.24	ND	
67-56-1	Methanol	2.12	2.54	ND	2.77	3.33	ND	
74-87-3	Chloromethane	0.64	1.06	ND	1.31	2.19	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.06	ND	2.96	7.41	ND	
75-01-4	Vinyl chloride	0.21	1.06	ND	0.55	2.71	ND	
106-99-0	1,3-Butadiene	0.21	1.06	ND	0.47	2.34	ND	
74-83-9	Bromomethane	0.42	1.06	ND	1.65	4.11	ND	
75-00-3	Chloroethane	0.42	1.06	ND	1.12	2.80	ND	
64-17-5	Ethanol	2.12	13.59	ND	4.00	25.66	ND	
107-02-8	Acrolein	0.42	1.27	ND	0.97	2.92	ND	
75-69-4	Trichlorofluoromethane	0.42	1.06	ND	2.38	5.96	ND	
67-64-1	Acetone	2.12	2.54	4.93	5.04	6.04	11.73	
67-63-0	2-propanol (isopropylalcohol)	0.85	5.29	ND	2.08	13.02	ND	
75-65-0	t-Butyl alcohol	0.42	4.23	ND	1.28	12.85	ND	
4227-95-6	Methyl iodide	0.42	1.27	ND	2.48	7.43	ND	
75-35-4	1,1-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
107-13-1	Acrylonitrile	0.85	1.27	ND	1.84	2.76	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.06	ND	1.62	8.12	ND	
107-05-1	Allyl chloride	0.21	4.23	ND	0.66	13.26	ND	
75-09-2	Methylene chloride	0.21	1.06	ND	0.74	3.68	ND	
75-15-0	Carbon disulfide	0.42	1.06	ND	1.32	3.30	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.85	ND	0.84	3.36	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.85	ND	1.53	3.05	ND	
107-12-0	Propionitrile	1.06	1.69	ND	2.39	3.82	ND	
75-34-3	1,1-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.06	ND	1.77	4.43	ND	
108-05-4	Vinyl acetate	0.21	4.23	ND	0.75	14.93	ND	
78-93-3	2-Butanone (MEK)	0.42	1.27	1.68	1.25	3.75	4.95	
108-20-3	Diisopropyl ether	0.42	2.54	ND	1.77	10.63	ND	
110-54-3	Hexane	0.42	1.06	ND	1.49	3.74	ND	
126-98-7	Methacrylonitrile	0.42	1.06	ND	1.16	2.91	ND	
141-78-6	Ethyl acetate	0.42	1.06	ND	1.53	3.82	ND	
74-97-5	Bromochloromethane	0.21	1.06	ND	1.12	5.61	ND	
96-33-3	Methyl acrylate	0.42	2.12	ND	1.49	7.46	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.27	6.07	0.63	3.75	17.93	
78-83-1	Isobutyl alcohol	0.85	3.39	ND	2.57	10.28	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
594-20-7	2,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
67-66-3	Chloroform	0.21	1.06	ND	1.04	5.18	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
107-06-2	1,2-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
563-58-6	1,1-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
110-82-7	Cyclohexane	0.21	1.06	ND	0.73	3.65	ND	
71-43-2	Benzene	1.48	2.12	26.98	4.74	6.77	86.29	
56-23-5	Carbon tetrachloride	0.21	1.06	ND	1.33	6.67	ND	
994-05-8	t-Amyl methyl ether	0.42	2.12	ND	1.77	8.86	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.06	ND	0.99	4.95	ND	
142-82-5	n-Heptane	0.42	1.06	0.61	1.74	4.34	2.51	J
78-87-5	1,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
123-91-1	1,4 Dioxane	0.42	2.12	ND	1.53	7.64	ND	
74-95-3	Dibromomethane	0.21	1.06	ND	1.51	7.53	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.06	ND	0.57	5.70	ND	
75-27-4	Bromodichloromethane	0.21	1.06	ND	1.42	7.10	ND	
80-62-6	Methyl methacrylate	0.42	1.06	ND	1.74	4.34	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.39	ND	1.74	13.90	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
108-88-3	Toluene	0.85	1.06	6.65	3.19	3.99	25.09	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
97-63-2	Ethyl methacrylate	0.42	1.06	ND	1.98	4.95	ND	
591-78-6	2-Hexanone	0.42	3.39	ND	1.74	13.90	ND	
142-28-9	1,3-Dichloropropane	0.21	2.96	ND	0.98	13.71	ND	
111-65-9	Octane	0.42	1.06	1.86	1.98	4.95	8.72	
124-48-1	Dibromochloromethane	0.42	1.06	ND	3.61	9.03	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.06	ND	3.26	8.14	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.06	0.33	0.72	7.19	2.23	J
108-90-7	Chlorobenzene	0.42	1.06	ND	1.95	4.88	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.06	ND	2.91	7.27	ND	
100-41-4	Ethylbenzene	0.42	1.06	3.62	1.84	4.60	15.72	
1330-20-7	m,p-Xylenes	0.42	1.06	6.36	1.84	4.60	27.66	
111-84-2	Nonane	0.42	1.06	2.43	2.22	5.56	12.77	
100-42-5	Styrene	0.64	1.06	ND	2.71	4.52	ND	
75-25-2	Bromoform	0.42	1.06	ND	4.38	10.95	ND	
95-47-6	o-Xylene	0.42	1.06	1.56	1.84	4.60	6.79	
79-34-5	1,1,2,2-Tetrachloroethane	0.85	2.12	ND	5.82	14.55	ND	
96-18-4	1,2,3-Trichloropropane	0.85	2.54	ND	5.11	15.33	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.85	2.54	ND	4.33	13.00	ND	
103-65-1	n-Propylbenzene	0.85	2.96	ND	4.17	14.59	ND	
98-82-8	Isopropylbenzene	0.85	2.96	ND	4.17	14.59	ND	
622-96-8	4-Ethyltoluene	0.85	6.77	ND	4.17	33.34	ND	
108-67-8	1,3,5-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
124-18-5	Decane	0.85	2.54	1.30	4.93	14.80	7.60	J
98-06-6	tert-butyl benzene	0.85	2.54	ND	4.65	13.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
538-93-2	i-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
135-98-8	sec-butylbenzene	0.85	2.96	ND	4.65	16.29	ND	
541-73-1	1,3-Dichlorobenzene	0.85	3.39	ND	5.10	20.39	ND	
99-87-6	Isopropyltoluene	0.85	2.54	4.69	4.65	13.96	25.80	
100-44-7	Benzyl chloride	0.85	2.12	ND	4.39	10.97	ND	
106-46-7	1,4-Dichlorobenzene	0.85	2.12	ND	5.10	12.74	ND	
104-51-8	n-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
95-50-1	1,2-Dichlorobenzene	0.85	2.96	ND	5.10	17.84	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.27	2.96	ND	12.29	28.68	ND	
120-82-1	1,2,4-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
91-20-3	Naphthalene	2.12	0.42	ND	11.11	2.22	ND	
87-61-6	1,2,3-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
87-68-3	Hexachlorobutadiene	1.06	1.27	ND	11.30	13.56	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	102	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**10**		
File Name:	2510010A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/19/25**	**Time:**	**11:32**
Sample ID:	T-110	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**03/31/25**	**Time:**	**19:15**
Anal Date:	31 Mar 125 7:15 pm	**SF:**	**2**	**QCbatch:**	**033125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**857**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.27**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	LR	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.409	4.41	42.00	62840
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.000	4.86	31.00	0
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	1.164	6.42	58.00	173222
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.396	8.75	72.00	49338
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	1.434	9.72	72.00	190788
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	6.372	10.70	78.00	4992938
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.144	11.48	71.00	41582
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	1.571	13.50	91.00	1720526
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.440	14.04	85.00	190520
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.078	14.69	166.00	41737
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.854	15.90	106	1163166
1330-20-7	m,p-Xylenes	75	TRG	1.502	16.06	91.00	1827584
111-84-2	Nonane	76	TRG	0.574	16.43	57.00	561262
100-42-5	Styrene	77	TRG	0.117	16.61	104.00	99076
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.369	16.54	91.00	468509
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.000	18.31	105.00	0
124-18-5	Decane	87	TRG	0.308	18.60	57.00	548473
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.154	18.95	105.00	242548
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	1.109	19.53	119.00	2472177
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**12474561**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**14596806**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15298746**
2037-26-5	Toluene-d8	103	SURR	10.166	13.40	98.00	**9122122**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**10**
File Name:	2510010A.D
Run Method:	A1563_P.M
Can Factor:	1.27
Air Volume:	300.0 ml
Can/Tube Number:	857
Dilution Factor:	0.3810
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3810
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.41	1.73	2.99	1.73	2.99	2.99	2.99	0.100	0.250	0.42	0.73	1.06
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.64	3.14	1.06
Methanol	32.0	0.00	0.00	0.00	ND	ND	0		0.500	0.600	2.12	2.77	2.54
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.64	1.31	1.06
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.96	1.06
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.55	1.06
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.47	1.06
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.65	1.06
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.12	1.06
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	2.12	4.00	13.59
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.42	0.97	1.27
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.38	1.06
Acetone	58.1	1.16	4.93	11.73	4.93	11.73	11.73	11.73	0.500	0.600	2.12	5.04	2.54
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		0.200	1.250	0.85	2.08	5.29
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.42	1.28	4.23
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.42	2.48	1.27
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.06
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.85	1.84	1.27
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.62	1.06
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.66	4.23
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.74	1.06
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.32	1.06
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.21	0.84	0.85
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.42	1.53	0.85
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.06	2.39	1.69
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.86	1.06
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.77	1.06
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.75	4.23
2-Butanone (MEK)	72.1	0.40	1.68	4.95	1.68	4.95	4.95	4.95	0.100	0.300	0.42	1.25	1.27
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.42	1.77	2.54
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.49	1.06
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.16	1.06
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.53	1.06
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.12	1.06
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.49	2.12
Tetrahydrofuran	72.1	1.43	6.07	17.93	6.07	17.93	17.93	17.93	0.050	0.300	0.21	0.63	1.27
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.85	2.57	3.39
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.06
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.98	1.06
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.04	1.06
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.16	1.06
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.86	1.06
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.73	1.06
Benzene	78.1	6.37	26.98	86.29	26.98	86.29	86.29	86.29	0.350	0.500	1.48	4.74	2.12
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.33	1.06
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.77	2.12
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.99	1.06
n-Heptane	100.2	0.14	0.61	2.51	0.61	2.51	2.51	2.51	0.100	0.250	0.42	1.74	1.06

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.98	1.06
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.53	2.12
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.51	1.06
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.57	1.06
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.42	1.06
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.74	1.06
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.42	1.74	3.39
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06
Toluene	92.1	1.57	6.65	25.09	6.65	25.09	25.09	25.09	0.200	0.250	0.85	3.19	1.06
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.16	1.06
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.98	1.06
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.42	1.74	3.39
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.21	0.98	2.96
Octane	114.2	0.44	1.86	8.72	1.86	8.72	8.72	8.72	0.100	0.250	0.42	1.98	1.06
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.61	1.06
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.26	1.06
Tetrachloroethene (PCE)	165.8	0.08	0.33	2.23	0.33	2.23	2.23	2.23	0.025	0.250	0.11	0.72	1.06
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.95	1.06
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.91	1.06
Ethylbenzene	106.2	0.85	3.62	15.72	3.62	15.72	15.72	15.72	0.100	0.250	0.42	1.84	1.06
m,p-Xylenes	106.2	1.50	6.36	27.66	6.36	27.66	27.66	27.66	0.100	0.250	0.42	1.84	1.06
Nonane	128.3	0.57	2.43	12.77	2.43	12.77	12.77	12.77	0.100	0.250	0.42	2.22	1.06
Styrene	104.2	0.12	0.50	2.12	ND	ND	0		0.150	0.250	0.64	2.71	1.06
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	4.38	1.06
o-Xylene	106.2	0.37	1.56	6.79	1.56	6.79	6.79	6.79	0.100	0.250	0.42	1.84	1.06
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	5.82	2.12
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	5.11	2.54
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.33	2.54
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.17	2.96
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.17	2.96
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.85	4.17	6.77
1,3,5-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.85	4.17	3.81
Decane	142.3	0.31	1.30	7.60	1.30	7.60	7.60	7.60	0.200	0.600	0.85	4.93	2.54
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.65	2.54
1,2,4-Trimethylbenzene	120.2	0.15	0.65	3.21	ND	ND	0		0.200	0.900	0.85	4.17	3.81
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.65	2.54
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.65	2.96
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.85	5.10	3.39
Isopropyltoluene	134.2	1.11	4.69	25.80	4.69	25.80	25.80	25.80	0.200	0.600	0.85	4.65	2.54
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	4.39	2.12
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	5.10	2.12
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.65	2.54
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	5.10	2.96
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.27	12.29	2.96
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.27	9.44	2.12
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.12	11.11	0.42
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.27	9.44	2.12
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.06	11.30	1.27
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		10.17	102	102	102	102	102	102	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.82				=		Y	1.73	2.99
5.24	U	ND		ND		Y	0.00	0.00
3.33	U	ND		ND		Y	0.00	0.00
2.19	U	ND		ND		Y	0.00	0.00
7.41	U	ND		ND		Y	0.00	0.00
2.71	U	ND		ND		Y	0.00	0.00
2.34	U	ND		ND		Y	0.00	0.00
4.11	U	ND		ND		Y	0.00	0.00
2.80	U	ND		ND		Y	0.00	0.00
25.66	U	ND		ND		Y	0.00	0.00
2.92	U	ND		ND		Y	0.00	0.00
5.96	U	ND		ND		Y	0.00	0.00
6.04				=		Y	4.93	11.73
13.02	U	ND		ND		Y	0.00	0.00
12.85	U	ND		ND		Y	0.00	0.00
7.43	U	ND		ND		Y	0.00	0.00
4.20	U	ND		ND		Y	0.00	0.00
2.76	U	ND		ND		Y	0.00	0.00
8.12	U	ND		ND		Y	0.00	0.00
13.26	U	ND		ND		Y	0.00	0.00
3.68	U	ND		ND		Y	0.00	0.00
3.30	U	ND		ND		Y	0.00	0.00
3.36	U	ND		ND		Y	0.00	0.00
3.05	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
4.29	U	ND		ND		Y	0.00	0.00
4.43	U	ND		ND		Y	0.00	0.00
14.93	U	ND		ND		Y	0.00	0.00
3.75				=		Y	1.68	4.95
10.63	U	ND		ND		Y	0.00	0.00
3.74	U	ND		ND		Y	0.00	0.00
2.91	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
5.61	U	ND		ND		Y	0.00	0.00
7.46	U	ND		ND		Y	0.00	0.00
3.75				=		Y	6.07	17.93
10.28	U	ND		ND		Y	0.00	0.00
4.20	U	ND		ND		Y	0.00	0.00
4.90	U	ND		ND		Y	0.00	0.00
5.18	U	ND		ND		Y	0.00	0.00
5.78	U	ND		ND		Y	0.00	0.00
4.29	U	ND		ND		Y	0.00	0.00
4.81	U	ND		ND		Y	0.00	0.00
3.65	U	ND		ND		Y	0.00	0.00
6.77				=		Y	26.98	86.29
6.67	U	ND		ND		Y	0.00	0.00
8.86	U	ND		ND		Y	0.00	0.00
4.95	U	ND		ND		Y	0.00	0.00
4.34	J	J		=		Y	0.61	2.51

4.90	U	ND	ND	Y	0.00	0.00
7.64	U	ND	ND	Y	0.00	0.00
7.53	U	ND	ND	Y	0.00	0.00
5.70	U	ND	ND	Y	0.00	0.00
7.10	U	ND	ND	Y	0.00	0.00
4.34	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
4.81	U	ND	ND	Y	0.00	0.00
3.99			=	Y	6.65	25.09
4.81	U	ND	ND	Y	0.00	0.00
5.78	U	ND	ND	Y	0.00	0.00
4.95	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
13.71	U	ND	ND	Y	0.00	0.00
4.95			=	Y	1.86	8.72
9.03	U	ND	ND	Y	0.00	0.00
8.14	U	ND	ND	Y	0.00	0.00
7.19	J	J	=	Y	0.33	2.23
4.88	U	ND	ND	Y	0.00	0.00
7.27	U	ND	ND	Y	0.00	0.00
4.60			=	Y	3.62	15.72
4.60			=	Y	6.36	27.66
5.56			=	Y	2.43	12.77
4.52	U	ND	ND	Y	0.00	0.00
10.95	U	ND	ND	Y	0.00	0.00
4.60			=	Y	1.56	6.79
14.55	U	ND	ND	Y	0.00	0.00
15.33	U	ND	ND	Y	0.00	0.00
13.00	U	ND	ND	Y	0.00	0.00
14.59	U	ND	ND	Y	0.00	0.00
14.59	U	ND	ND	Y	0.00	0.00
33.34	U	ND	ND	Y	0.00	0.00
18.76	U	ND	ND	Y	0.00	0.00
14.80	J	J	=	Y	1.30	7.60
13.96	U	ND	ND	Y	0.00	0.00
18.76	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
16.29	U	ND	ND	Y	0.00	0.00
20.39	U	ND	ND	Y	0.00	0.00
13.96			=	Y	4.69	25.80
10.97	U	ND	ND	Y	0.00	0.00
12.74	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
17.84	U	ND	ND	Y	0.00	0.00
28.68	U	ND	ND	Y	0.00	0.00
15.73	U	ND	ND	Y	0.00	0.00
2.22	U	ND	ND	Y	0.00	0.00
15.73	U	ND	ND	Y	0.00	0.00
13.56	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**10**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.27	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) / (Avg RFn) × (Cistdi) / (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) × 1000 / (SV) × (CDF)

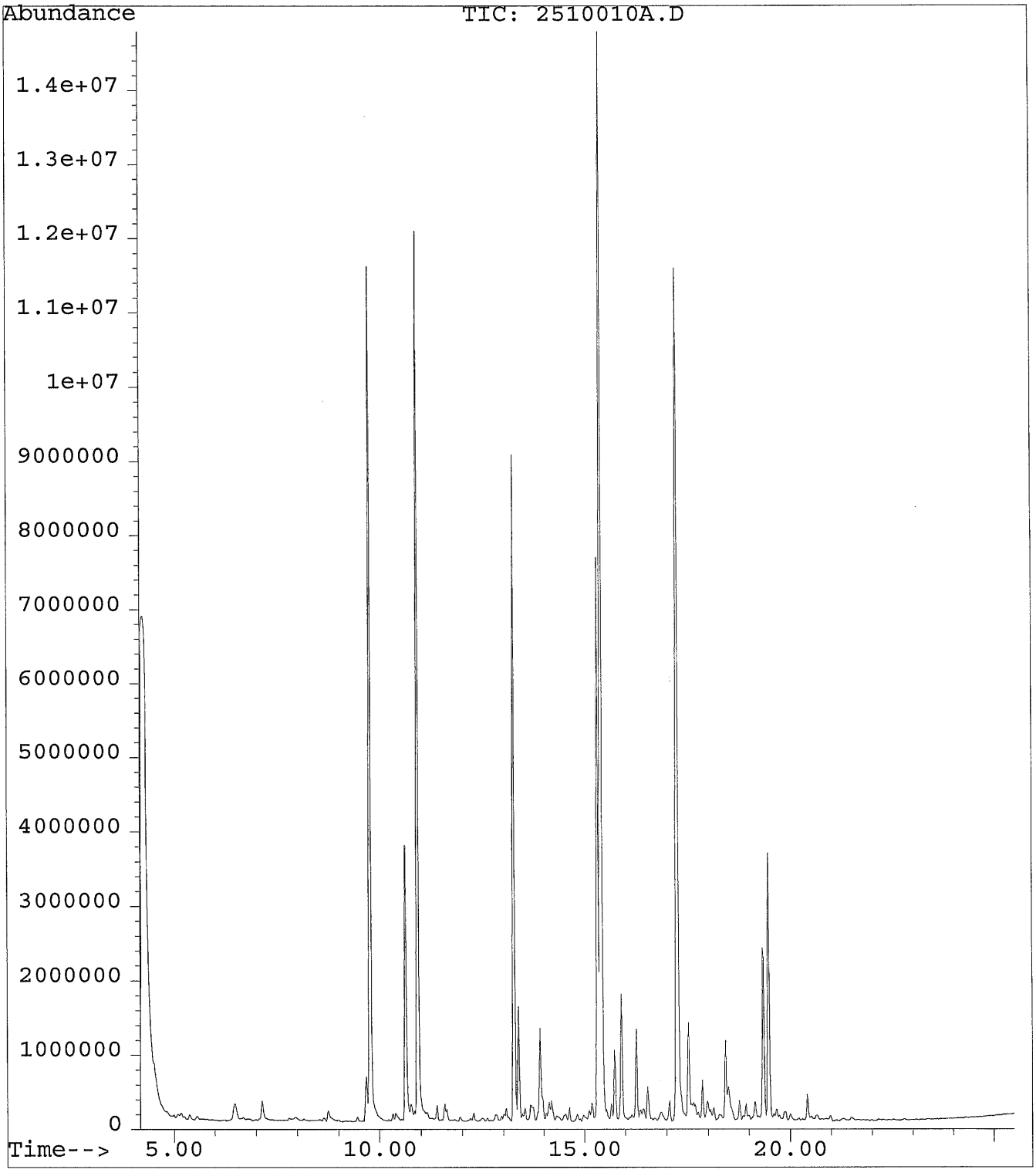
4) Amount ug/m3 = (amt(ppbv) × MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	62840	20.0	12474561	0.409	1.73	2.99
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	12474561	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	0	20.0	12474561	0.000	0.00	0.00
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	12474561	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	12474561	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	12474561	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	12474561	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	12474561	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	12474561	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	0	20.0	12474561	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.130	0	20.0	12474561	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	12474561	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	173222	20.0	12474561	1.164	4.93	11.73
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	0	20.0	12474561	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	12474561	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	12474561	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	12474561	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	12474561	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	12474561	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	12474561	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	12474561	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	12474561	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	12474561	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	12474561	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	12474561	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	12474561	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	12474561	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	12474561	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	49338	20.0	12474561	0.396	1.68	4.95
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	12474561	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	12474561	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	12474561	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	12474561	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	12474561	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	12474561	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	190788	20.0	12474561	1.434	6.07	17.93
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	12474561	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	12474561	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	12474561	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	12474561	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	14596806	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	14596806	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	14596806	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	14596806	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	4992938	20.0	14596806	6.372	26.98	86.29
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	14596806	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	14596806	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	14596806	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	41582	20.0	14596806	0.144	0.61	2.51
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	14596806	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	14596806	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	14596806	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	14596806	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	14596806	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	14596806	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	14596806	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	14596806	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	1720526	20.0	14596806	1.571	6.65	25.09
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	14596806	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	14596806	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	14596806	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	14596806	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	14596806	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	190520	20.0	14596806	0.440	1.86	8.72
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	14596806	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	14596806	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	41737	20.0	14596806	0.078	0.33	2.23
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	15298746	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	15298746	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	1163166	20.0	15298746	0.854	3.62	15.72
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	1827584	20.0	15298746	1.502	6.36	27.66
76	Nonane	d5CB	TRG	128.3	1.278	561262	20.0	15298746	0.574	2.43	12.77
77	Styrene	d5CB	TRG	104.2	1.106	99076	20.0	15298746	0.117	0.50	2.12
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	15298746	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	468509	20.0	15298746	0.369	1.56	6.79
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	15298746	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	15298746	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	15298746	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	15298746	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	15298746	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	15298746	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	0	20.0	15298746	0.000	0.00	0.00
87	Decane	d5CB	TRG	142.3	2.327	548473	20.0	15298746	0.308	1.30	7.60
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	15298746	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	242548	20.0	15298746	0.154	0.65	3.21
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	15298746	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	15298746	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	15298746	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	2472177	20.0	15298746	1.109	4.69	25.80
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	15298746	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	15298746	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	15298746	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	15298746	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	15298746	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	15298746	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	15298746	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	15298746	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	15298746	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	12474561	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	14596806	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15298746	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9122122	10.0		10.166	101.66	102

File : C:\MSCHEM\1\DATA\03315A_C\2510010A.D
Operator : LR
Acquired : 31 Mar 125 7:15 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-110
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **11**

Client ID T-111

Analytical Method TO-15

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Analytical Report
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Calculations
Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 11**

File Name: 2510011A.D
Description: T-111
Canister: 504
QC_Batch: 033125-MA1

Date Sampled: 03/19/25 **Time:** 11:32
Date Analyzed: 03/31/25 **Time:** 19:53
Can Dilution Factor: 1.25
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.04	1.05	0.72	1.80	1.81	
75-71-8	Dichlorodifluoromethane	0.63	1.04	ND	3.09	5.16	ND	
67-56-1	Methanol	2.08	2.50	5.43	2.73	3.28	7.12	
74-87-3	Chloromethane	0.63	1.04	0.68	1.29	2.15	1.40	J
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.04	ND	2.92	7.29	ND	
75-01-4	Vinyl chloride	0.21	1.04	ND	0.54	2.67	ND	
106-99-0	1,3-Butadiene	0.21	1.04	ND	0.46	2.31	ND	
74-83-9	Bromomethane	0.42	1.04	ND	1.62	4.05	ND	
75-00-3	Chloroethane	0.42	1.04	ND	1.10	2.75	ND	
64-17-5	Ethanol	2.08	13.38	28.23	3.93	25.25	53.29	
107-02-8	Acrolein	0.42	1.25	2.02	0.96	2.87	4.65	
75-69-4	Trichlorofluoromethane	0.42	1.04	ND	2.34	5.86	ND	
67-64-1	Acetone	2.08	2.50	34.24	4.96	5.95	81.47	
67-63-0	2-propanol (isopropylalcohol)	0.83	5.21	2.29	2.05	12.82	5.64	J
75-65-0	t-Butyl alcohol	0.42	4.17	ND	1.26	12.64	ND	
4227-95-6	Methyl iodide	0.42	1.25	ND	2.44	7.32	ND	
75-35-4	1,1-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
107-13-1	Acrylonitrile	0.83	1.25	ND	1.81	2.72	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.04	ND	1.60	7.99	ND	
107-05-1	Allyl chloride	0.21	4.17	ND	0.65	13.05	ND	
75-09-2	Methylene chloride	0.21	1.04	ND	0.72	3.62	ND	
75-15-0	Carbon disulfide	0.42	1.04	ND	1.30	3.25	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.83	ND	0.83	3.31	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.83	ND	1.50	3.01	ND	
107-12-0	Propionitrile	1.04	1.67	ND	2.35	3.76	ND	
75-34-3	1,1-Dichloroethane	0.21	1.04	ND	0.84	4.22	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.04	ND	1.74	4.36	ND	
108-05-4	Vinyl acetate	0.21	4.17	ND	0.73	14.69	ND	
78-93-3	2-Butanone (MEK)	0.42	1.25	33.40	1.23	3.69	98.63	
108-20-3	Diisopropyl ether	0.42	2.50	ND	1.74	10.46	ND	
110-54-3	Hexane	0.42	1.04	ND	1.47	3.68	ND	
126-98-7	Methacrylonitrile	0.42	1.04	ND	1.15	2.86	ND	
141-78-6	Ethyl acetate	0.42	1.04	23.01	1.50	3.76	83.04	
74-97-5	Bromochloromethane	0.21	1.04	ND	1.10	5.52	ND	
96-33-3	Methyl acrylate	0.42	2.08	ND	1.47	7.35	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.25	12.48	0.62	3.69	36.84	
78-83-1	Isobutyl alcohol	0.83	3.33	ND	2.53	10.12	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
594-20-7	2,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
67-66-3	Chloroform	0.21	1.04	ND	1.02	5.09	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
107-06-2	1,2-Dichloroethane	0.21	1.04	ND	0.84	4.22	ND	
563-58-6	1,1-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
110-82-7	Cyclohexane	0.21	1.04	ND	0.72	3.59	ND	
71-43-2	Benzene	1.46	2.08	4.08	4.66	6.66	13.07	
56-23-5	Carbon tetrachloride	0.21	1.04	ND	1.31	6.56	ND	
994-05-8	t-Amyl methyl ether	0.42	2.08	ND	1.74	8.72	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.04	ND	0.97	4.87	ND	
142-82-5	n-Heptane	0.42	1.04	ND	1.71	4.27	ND	
78-87-5	1,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
123-91-1	1,4 Dioxane	0.42	2.08	ND	1.50	7.52	ND	
74-95-3	Dibromomethane	0.21	1.04	ND	1.48	7.42	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.04	ND	0.56	5.61	ND	
75-27-4	Bromodichloromethane	0.21	1.04	ND	1.40	6.99	ND	
80-62-6	Methyl methacrylate	0.42	1.04	ND	1.71	4.27	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.33	0.44	1.71	13.68	1.80	J
10061-01-5	cis-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
108-88-3	Toluene	0.83	1.04	1.47	3.14	3.93	5.54	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
97-63-2	Ethyl methacrylate	0.42	1.04	ND	1.95	4.87	ND	
591-78-6	2-Hexanone	0.42	3.33	ND	1.71	13.68	ND	
142-28-9	1,3-Dichloropropane	0.21	2.92	ND	0.96	13.50	ND	
111-65-9	Octane	0.42	1.04	ND	1.95	4.87	ND	
124-48-1	Dibromochloromethane	0.42	1.04	ND	3.55	8.89	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.04	ND	3.21	8.02	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.04	ND	0.71	7.07	ND	
108-90-7	Chlorobenzene	0.42	1.04	ND	1.92	4.80	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.04	ND	2.86	7.16	ND	
100-41-4	Ethylbenzene	0.42	1.04	0.78	1.81	4.53	3.41	J
1330-20-7	m,p-Xylenes	0.42	1.04	1.52	1.81	4.53	6.63	
111-84-2	Nonane	0.42	1.04	ND	2.19	5.47	ND	
100-42-5	Styrene	0.63	1.04	ND	2.67	4.45	ND	
75-25-2	Bromoform	0.42	1.04	ND	4.31	10.78	ND	
95-47-6	o-Xylene	0.42	1.04	ND	1.81	4.53	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.83	2.08	ND	5.73	14.32	ND	
96-18-4	1,2,3-Trichloropropane	0.83	2.50	ND	5.03	15.09	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.83	2.50	ND	4.27	12.80	ND	
103-65-1	n-Propylbenzene	0.83	2.92	ND	4.10	14.36	ND	
98-82-8	Isopropylbenzene	0.83	2.92	ND	4.10	14.36	ND	
622-96-8	4-Ethyltoluene	0.83	6.67	ND	4.10	32.82	ND	
108-67-8	1,3,5-Trimethylbenzene	0.83	3.75	ND	4.10	18.46	ND	
124-18-5	Decane	0.83	2.50	ND	4.86	14.57	ND	
98-06-6	tert-butyl benzene	0.83	2.50	ND	4.58	13.74	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.83	3.75	ND	4.10	18.46	ND	
538-93-2	i-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
135-98-8	sec-butylbenzene	0.83	2.92	ND	4.58	16.03	ND	
541-73-1	1,3-Dichlorobenzene	0.83	3.33	ND	5.02	20.07	ND	
99-87-6	Isopropyltoluene	0.83	2.50	10.36	4.58	13.74	56.95	
100-44-7	Benzyl chloride	0.83	2.08	ND	4.32	10.80	ND	
106-46-7	1,4-Dichlorobenzene	0.83	2.08	ND	5.02	12.54	ND	
104-51-8	n-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
95-50-1	1,2-Dichlorobenzene	0.83	2.92	ND	5.02	17.56	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.25	2.92	ND	12.10	28.23	ND	
120-82-1	1,2,4-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
91-20-3	Naphthalene	2.08	0.42	ND	10.94	2.19	ND	
87-61-6	1,2,3-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
87-68-3	Hexachlorobutadiene	1.04	1.25	ND	11.13	13.35	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	99	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**11**		
File Name:	2510011A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/19/25**	**Time:**	**11:32**
Sample ID:	T-111	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**03/31/25**	**Time:**	**19:53**
Anal Date:	31 Mar 125 7:53 pm	**SF:**	**2**	**QCbatch:**	**033125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**504**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.25**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	LR	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.251	4.41	42.00	38316
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	1.303	4.86	31.00	887393
74-87-3	Chloromethane	5	TRG	0.163	4.77	50.00	39436
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	6.775	5.72	46.00	596885
107-02-8	Acrolein	12	TRG	0.486	6.32	56.00	38993
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	8.217	6.42	58.00	1213574
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.550	6.45	45.00	339022
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.067	7.61	76.00	36753
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	8.016	8.75	72.00	992013
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	5.524	9.17	61.00	2638193
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	2.995	9.72	72.00	395505
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.980	10.70	78.00	757623
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.105	12.55	58.00	38660
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.353	13.50	91.00	380825
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.188	15.90	106	251595
1330-20-7	m,p-Xylenes	75	TRG	0.366	16.06	91.00	436410
111-84-2	Nonane	76	TRG	0.066	16.43	57.00	63382
100-42-5	Styrene	77	TRG	0.080	16.61	104.00	66203
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.091	16.54	91.00	113549
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.035	18.23	105.00	56871
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.036	18.31	105.00	52076
124-18-5	Decane	87	TRG	0.059	18.60	57.00	103300
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.064	18.95	105.00	99247
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	2.487	19.53	119.00	5439951
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**12385101**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**14396563**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15010150**
2037-26-5	Toluene-d8	103	SURR	9.904	13.40	98.00	**8765344**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**11**
File Name:	2510011A.D
Run Method:	A1563_P.M
Can Factor:	1.25
Air Volume:	300.0 ml
Can/Tube Number:	504
Dilution Factor:	0.3750
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3750
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.25	1.05	1.81	1.05	1.81	1.81	1.81	0.100	0.250	0.42	0.72	1.04
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.63	3.09	1.04
Methanol	32.0	1.30	5.43	7.12	5.43	7.12	7.12	7.12	0.500	0.600	2.08	2.73	2.50
Chloromethane	50.5	0.16	0.68	1.40	0.68	1.40	1.40	1.40	0.150	0.250	0.63	1.29	1.04
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.92	1.04
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.54	1.04
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.46	1.04
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.62	1.04
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.10	1.04
Ethanol	46.1	6.77	28.23	53.29	28.23	53.29	53.29	53.29	0.500	3.210	2.08	3.93	13.38
Acrolein	56.1	0.49	2.02	4.65	2.02	4.65	4.65	4.65	0.100	0.300	0.42	0.96	1.25
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.34	1.04
Acetone	58.1	8.22	34.24	81.47	34.24	81.47	81.47	81.47	0.500	0.600	2.08	4.96	2.50
2-propanol (isopropylalcohol)	60.1	0.55	2.29	5.64	2.29	5.64	5.64	5.64	0.200	1.250	0.83	2.05	5.21
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.42	1.26	4.17
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.42	2.44	1.25
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.83	1.04
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.83	1.81	1.25
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.60	1.04
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.65	4.17
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.72	1.04
Carbon disulfide	76.1	0.07	0.28	0.87	ND	ND	0		0.100	0.250	0.42	1.30	1.04
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.21	0.83	0.83
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.42	1.50	0.83
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.04	2.35	1.67
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.04
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.74	1.04
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.73	4.17
2-Butanone (MEK)	72.1	8.02	33.40	98.63	33.40	98.63	98.63	98.63	0.100	0.300	0.42	1.23	1.25
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.42	1.74	2.50
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.47	1.04
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.15	1.04
Ethyl acetate	88.1	5.52	23.01	83.04	23.01	83.04	83.04	83.04	0.100	0.250	0.42	1.50	1.04
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.10	1.04
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.47	2.08
Tetrahydrofuran	72.1	2.99	12.48	36.84	12.48	36.84	36.84	36.84	0.050	0.300	0.21	0.62	1.25
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.83	2.53	3.33
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.83	1.04
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.04
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.02	1.04
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.14	1.04
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.04
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.04
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.72	1.04
Benzene	78.1	0.98	4.08	13.07	4.08	13.07	13.07	13.07	0.350	0.500	1.46	4.66	2.08
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.31	1.04
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.74	2.08
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.97	1.04
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.71	1.04

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.96	1.04
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.42	1.50	2.08
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.48	1.04
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		**0.025**	**0.250**	0.10	0.56	1.04
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.40	1.04
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.42	1.71	1.04
4-Methyl-2-pentanone (MIBK)	100.2	0.11	0.44	1.80	0.44	1.80	1.80	1.80	**0.100**	**0.800**	0.42	1.71	3.33
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.95	1.04
Toluene	92.1	0.35	1.47	5.54	1.47	5.54	5.54	5.54	**0.200**	**0.250**	0.83	3.14	1.04
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.95	1.04
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.14	1.04
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.42	1.95	1.04
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.800**	0.42	1.71	3.33
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.700**	0.21	0.96	2.92
Octane	114.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.42	1.95	1.04
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.42	3.55	1.04
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.42	3.21	1.04
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		**0.025**	**0.250**	0.10	0.71	1.04
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.42	1.92	1.04
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.42	2.86	1.04
Ethylbenzene	106.2	0.19	0.78	3.41	0.78	3.41	3.41	3.41	**0.100**	**0.250**	0.42	1.81	1.04
m,p-Xylenes	106.2	0.37	1.52	6.63	1.52	6.63	6.63	6.63	**0.100**	**0.250**	0.42	1.81	1.04
Nonane	128.3	0.07	0.28	1.45	ND	ND	0		**0.100**	**0.250**	0.42	2.19	1.04
Styrene	104.2	0.08	0.33	1.42	ND	ND	0		**0.150**	**0.250**	0.63	2.67	1.04
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.42	4.31	1.04
o-Xylene	106.2	0.09	0.38	1.65	ND	ND	0		**0.100**	**0.250**	0.42	1.81	1.04
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.500**	0.83	5.73	2.08
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.83	5.03	2.50
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.83	4.27	2.50
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.700**	0.83	4.10	2.92
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.700**	0.83	4.10	2.92
4-Ethyltoluene	120.2	0.03	0.15	0.72	ND	ND	0		**0.200**	**1.600**	0.83	4.10	6.67
1,3,5-Trimethylbenzene	120.2	0.04	0.15	0.73	ND	ND	0		**0.200**	**0.900**	0.83	4.10	3.75
Decane	142.3	0.06	0.25	1.44	ND	ND	0		**0.200**	**0.600**	0.83	4.86	2.50
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.83	4.58	2.50
1,2,4-Trimethylbenzene	120.2	0.06	0.27	1.32	ND	ND	0		**0.200**	**0.900**	0.83	4.10	3.75
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.83	4.58	2.50
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.700**	0.83	4.58	2.92
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.800**	0.83	5.02	3.33
Isopropyltoluene	134.2	2.49	10.36	56.95	10.36	56.95	56.95	56.95	**0.200**	**0.600**	0.83	4.58	2.50
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.500**	0.83	4.32	2.08
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.500**	0.83	5.02	2.08
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.83	4.58	2.50
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.700**	0.83	5.02	2.92
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		**0.300**	**0.700**	1.25	12.10	2.92
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		**0.300**	**0.500**	1.25	9.29	2.08
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		**0.500**	**0.100**	2.08	10.94	0.42
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		**0.300**	**0.500**	1.25	9.29	2.08
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		**0.250**	**0.300**	1.04	11.13	1.25
Pentafluorobenzene		20.00							**20.0**	**20.0**			
1,4-Difluorobenzene		20.00							**20.0**	**20.0**			
Chlorobenzene-d5		20.00							**20.0**	**20.0**			
Toluene-d8		9.90	99	99	99	99	99	99	**10.0**	**10.0**			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.80				=		Y	1.05	1.81
5.16	U	ND		ND		Y	0.00	0.00
3.28				=		Y	5.43	7.12
2.15	J	J		=		Y	0.68	1.40
7.29	U	ND		ND		Y	0.00	0.00
2.67	U	ND		ND		Y	0.00	0.00
2.31	U	ND		ND		Y	0.00	0.00
4.05	U	ND		ND		Y	0.00	0.00
2.75	U	ND		ND		Y	0.00	0.00
25.25				=		Y	28.23	53.29
2.87				=		Y	2.02	4.65
5.86	U	ND		ND		Y	0.00	0.00
5.95				=		Y	34.24	81.47
12.82	J	J		=		Y	2.29	5.64
12.64	U	ND		ND		Y	0.00	0.00
7.32	U	ND		ND		Y	0.00	0.00
4.13	U	ND		ND		Y	0.00	0.00
2.72	U	ND		ND		Y	0.00	0.00
7.99	U	ND		ND		Y	0.00	0.00
13.05	U	ND		ND		Y	0.00	0.00
3.62	U	ND		ND		Y	0.00	0.00
3.25	U	ND		ND		Y	0.00	0.00
3.31	U	ND		ND		Y	0.00	0.00
3.01	U	ND		ND		Y	0.00	0.00
3.76	U	ND		ND		Y	0.00	0.00
4.22	U	ND		ND		Y	0.00	0.00
4.36	U	ND		ND		Y	0.00	0.00
14.69	U	ND		ND		Y	0.00	0.00
3.69				=		Y	33.40	98.63
10.46	U	ND		ND		Y	0.00	0.00
3.68	U	ND		ND		Y	0.00	0.00
2.86	U	ND		ND		Y	0.00	0.00
3.76				=		Y	23.01	83.04
5.52	U	ND		ND		Y	0.00	0.00
7.35	U	ND		ND		Y	0.00	0.00
3.69				=		Y	12.48	36.84
10.12	U	ND		ND		Y	0.00	0.00
4.13	U	ND		ND		Y	0.00	0.00
4.82	U	ND		ND		Y	0.00	0.00
5.09	U	ND		ND		Y	0.00	0.00
5.69	U	ND		ND		Y	0.00	0.00
4.22	U	ND		ND		Y	0.00	0.00
4.74	U	ND		ND		Y	0.00	0.00
3.59	U	ND		ND		Y	0.00	0.00
6.66				=		Y	4.08	13.07
6.56	U	ND		ND		Y	0.00	0.00
8.72	U	ND		ND		Y	0.00	0.00
4.87	U	ND		ND		Y	0.00	0.00
4.27	U	ND		ND		Y	0.00	0.00

4.82	U	ND	ND	Y	0.00	0.00
7.52	U	ND	ND	Y	0.00	0.00
7.42	U	ND	ND	Y	0.00	0.00
5.61	U	ND	ND	Y	0.00	0.00
6.99	U	ND	ND	Y	0.00	0.00
4.27	U	ND	ND	Y	0.00	0.00
13.68	J	J	=	Y	0.44	1.80
4.74	U	ND	ND	Y	0.00	0.00
3.93			=	Y	1.47	5.54
4.74	U	ND	ND	Y	0.00	0.00
5.69	U	ND	ND	Y	0.00	0.00
4.87	U	ND	ND	Y	0.00	0.00
13.68	U	ND	ND	Y	0.00	0.00
13.50	U	ND	ND	Y	0.00	0.00
4.87	U	ND	ND	Y	0.00	0.00
8.89	U	ND	ND	Y	0.00	0.00
8.02	U	ND	ND	Y	0.00	0.00
7.07	U	ND	ND	Y	0.00	0.00
4.80	U	ND	ND	Y	0.00	0.00
7.16	U	ND	ND	Y	0.00	0.00
4.53	J	J	=	Y	0.78	3.41
4.53			=	Y	1.52	6.63
5.47	U	ND	ND	Y	0.00	0.00
4.45	U	ND	ND	Y	0.00	0.00
10.78	U	ND	ND	Y	0.00	0.00
4.53	U	ND	ND	Y	0.00	0.00
14.32	U	ND	ND	Y	0.00	0.00
15.09	U	ND	ND	Y	0.00	0.00
12.80	U	ND	ND	Y	0.00	0.00
14.36	U	ND	ND	Y	0.00	0.00
14.36	U	ND	ND	Y	0.00	0.00
32.82	U	ND	ND	Y	0.00	0.00
18.46	U	ND	ND	Y	0.00	0.00
14.57	U	ND	ND	Y	0.00	0.00
13.74	U	ND	ND	Y	0.00	0.00
18.46	U	ND	ND	Y	0.00	0.00
13.74	U	ND	ND	Y	0.00	0.00
16.03	U	ND	ND	Y	0.00	0.00
20.07	U	ND	ND	Y	0.00	0.00
13.74			=	Y	10.36	56.95
10.80	U	ND	ND	Y	0.00	0.00
12.54	U	ND	ND	Y	0.00	0.00
13.74	U	ND	ND	Y	0.00	0.00
17.56	U	ND	ND	Y	0.00	0.00
28.23	U	ND	ND	Y	0.00	0.00
15.48	U	ND	ND	Y	0.00	0.00
2.19	U	ND	ND	Y	0.00	0.00
15.48	U	ND	ND	Y	0.00	0.00
13.35	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**11**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.25
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) **= Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

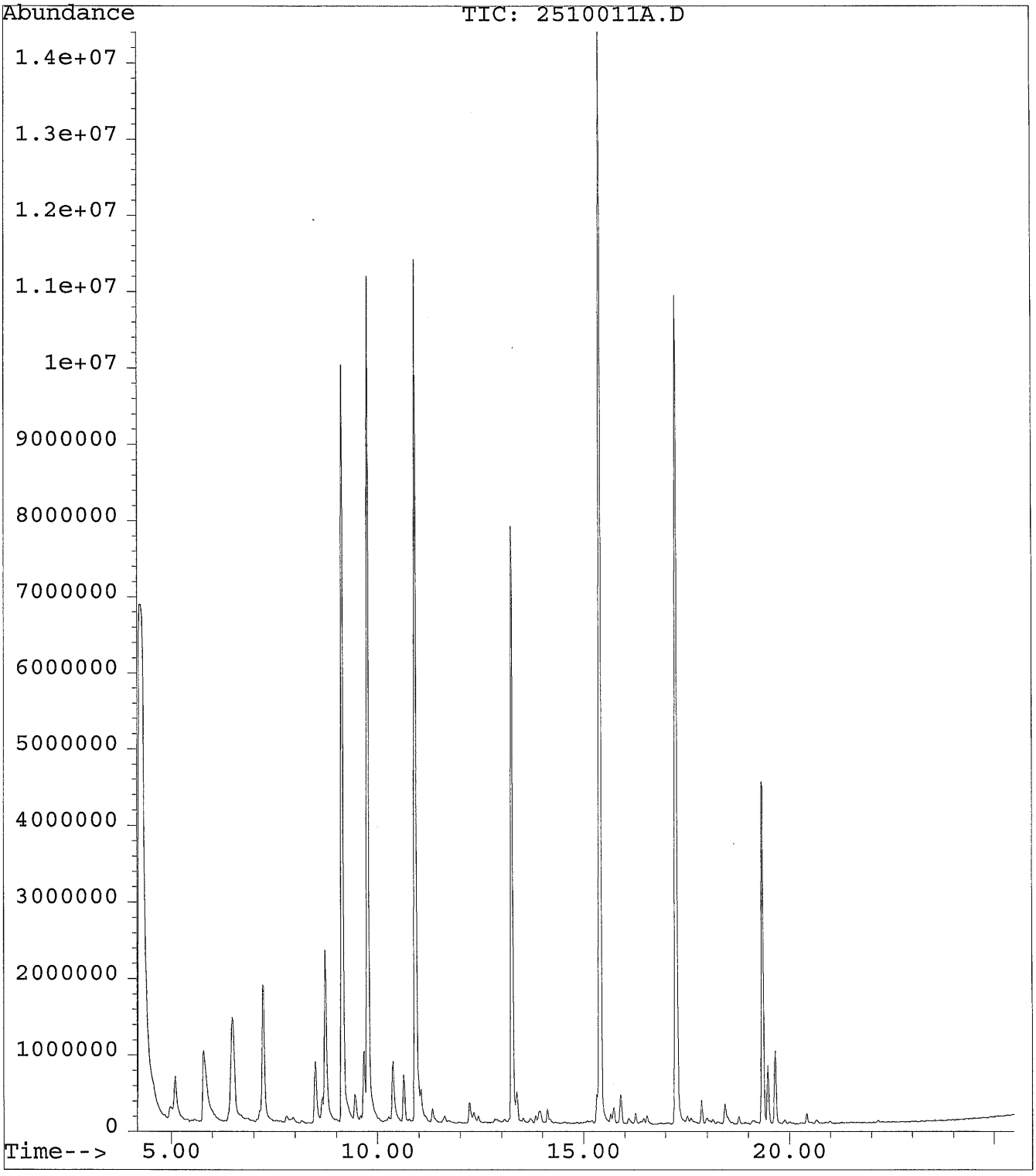
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	38316	20.0	12385101	0.251	1.05	1.81
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	12385101	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	887393	20.0	12385101	1.303	5.43	7.12
5	Chloromethane	PFB	TRG	50.5	0.391	39436	20.0	12385101	0.163	0.68	1.40
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	12385101	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	12385101	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	12385101	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	12385101	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	12385101	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	596885	20.0	12385101	6.775	28.23	53.29
12	Acrolein	PFB	TRG	56.1	0.130	38993	20.0	12385101	0.486	2.02	4.65
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	12385101	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	1213574	20.0	12385101	8.217	34.24	81.47
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	339022	20.0	12385101	0.550	2.29	5.64
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	12385101	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	12385101	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	12385101	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	12385101	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	12385101	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	12385101	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	12385101	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	36753	20.0	12385101	0.067	0.28	0.87
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	12385101	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	12385101	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	12385101	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	12385101	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	12385101	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	12385101	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	992013	20.0	12385101	8.016	33.40	98.63
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	12385101	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	12385101	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	12385101	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	2638193	20.0	12385101	5.524	23.01	83.04
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	12385101	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	12385101	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	395505	20.0	12385101	2.995	12.48	36.84
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	12385101	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	12385101	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	12385101	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	12385101	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	14396563	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	14396563	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	14396563	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	14396563	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	757623	20.0	14396563	0.980	4.08	13.07
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	14396563	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	14396563	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	14396563	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	14396563	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	14396563	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	14396563	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	14396563	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	14396563	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	14396563	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	14396563	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	38660	20.0	14396563	0.105	0.44	1.80
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	14396563	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	380825	20.0	14396563	0.353	1.47	5.54
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	14396563	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	14396563	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	14396563	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	14396563	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	14396563	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	14396563	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	14396563	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	14396563	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	14396563	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	15010150	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	15010150	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	251595	20.0	15010150	0.188	0.78	3.41
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	436410	20.0	15010150	0.366	1.52	6.63
76	Nonane	d5CB	TRG	128.3	1.278	63382	20.0	15010150	0.066	0.28	1.45
77	Styrene	d5CB	TRG	104.2	1.106	66203	20.0	15010150	0.080	0.33	1.42
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	15010150	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	113549	20.0	15010150	0.091	0.38	1.65
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	15010150	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	15010150	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	15010150	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	15010150	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	15010150	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	56871	20.0	15010150	0.035	0.15	0.72
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	52076	20.0	15010150	0.036	0.15	0.73
87	Decane	d5CB	TRG	142.3	2.327	103300	20.0	15010150	0.059	0.25	1.44
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	15010150	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	99247	20.0	15010150	0.064	0.27	1.32
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	15010150	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	15010150	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	15010150	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	5439951	20.0	15010150	2.487	10.36	56.95
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	15010150	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	15010150	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	15010150	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	15010150	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	15010150	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	15010150	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	15010150	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	15010150	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	15010150	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	12385101	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	14396563	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15010150	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	8765344	10.0		9.904	99.04	99

File : C:\MSCHEM\1\DATA\03315A_C\2510011A.D
Operator : LR
Acquired : 31 Mar 125 7:53 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-111
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **12**

Client ID T-112

Analytical Method TO-15

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 12**

File Name: 2510012A.D **Date Sampled:** 03/19/25 **Time:** 11:38
Description: T-112 **Date Analyzed:** 03/31/25 **Time:** 20:31
Canister: 631 **Can Dilution Factor:** 1.24
QC_Batch: 033125-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.41	1.03	10.87	0.71	1.78	18.73	
75-71-8	Dichlorodifluoromethane	0.62	1.03	ND	3.07	5.12	ND	
67-56-1	Methanol	2.07	2.48	3.13	2.71	3.25	4.10	
74-87-3	Chloromethane	0.62	1.03	ND	1.28	2.14	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.41	1.03	ND	2.89	7.23	ND	
75-01-4	Vinyl chloride	0.21	1.03	ND	0.53	2.65	ND	
106-99-0	1,3-Butadiene	0.21	1.03	ND	0.46	2.29	ND	
74-83-9	Bromomethane	0.41	1.03	ND	1.61	4.02	ND	
75-00-3	Chloroethane	0.41	1.03	ND	1.09	2.73	ND	
64-17-5	Ethanol	2.07	13.27	5.13	3.90	25.05	9.69	J
107-02-8	Acrolein	0.41	1.24	ND	0.95	2.85	ND	
75-69-4	Trichlorofluoromethane	0.41	1.03	ND	2.33	5.81	ND	
67-64-1	Acetone	2.07	2.48	14.85	4.92	5.90	35.35	
67-63-0	2-propanol (isopropylalcohol)	0.83	5.17	57.64	2.03	12.72	141.87	
75-65-0	t-Butyl alcohol	0.41	4.13	ND	1.25	12.54	ND	
4227-95-6	Methyl iodide	0.41	1.24	ND	2.42	7.26	ND	
75-35-4	1,1-Dichloroethene	0.21	1.03	ND	0.82	4.10	ND	
107-13-1	Acrylonitrile	0.83	1.24	ND	1.80	2.70	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.03	ND	1.59	7.93	ND	
107-05-1	Allyl chloride	0.21	4.13	ND	0.65	12.95	ND	
75-09-2	Methylene chloride	0.21	1.03	ND	0.72	3.59	ND	
75-15-0	Carbon disulfide	0.41	1.03	ND	1.29	3.22	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.83	ND	0.82	3.28	ND	
1634-04-4	Methyl tert butyl ether	0.41	0.83	ND	1.49	2.98	ND	
107-12-0	Propionitrile	1.03	1.65	ND	2.33	3.73	ND	
75-34-3	1,1-Dichloroethane	0.21	1.03	ND	0.84	4.19	ND	
637-92-3	Ethyl tert butyl ether	0.41	1.03	ND	1.73	4.33	ND	
108-05-4	Vinyl acetate	0.21	4.13	ND	0.73	14.58	ND	
78-93-3	2-Butanone (MEK)	0.41	1.24	1.24	1.22	3.66	3.67	
108-20-3	Diisopropyl ether	0.41	2.48	ND	1.73	10.38	ND	
110-54-3	Hexane	0.41	1.03	ND	1.46	3.65	ND	
126-98-7	Methacrylonitrile	0.41	1.03	ND	1.14	2.84	ND	
141-78-6	Ethyl acetate	0.41	1.03	0.43	1.49	3.73	1.55	J
74-97-5	Bromochloromethane	0.21	1.03	ND	1.10	5.48	ND	
96-33-3	Methyl acrylate	0.41	2.07	ND	1.46	7.29	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.24	ND	0.61	3.66	ND	
78-83-1	Isobutyl alcohol	0.83	3.31	ND	2.51	10.03	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.03	ND	0.82	4.10	ND	
594-20-7	2,2-Dichloropropane	0.21	1.03	ND	0.96	4.78	ND	
67-66-3	Chloroform	0.21	1.03	ND	1.01	5.05	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.03	ND	1.13	5.65	ND	
107-06-2	1,2-Dichloroethane	0.21	1.03	ND	0.84	4.19	ND	
563-58-6	1,1-Dichloropropene	0.21	1.03	ND	0.94	4.70	ND	
110-82-7	Cyclohexane	0.21	1.03	ND	0.71	3.56	ND	
71-43-2	Benzene	1.45	2.07	5.10	4.63	6.61	16.32	
56-23-5	Carbon tetrachloride	0.21	1.03	ND	1.30	6.51	ND	
994-05-8	t-Amyl methyl ether	0.41	2.07	ND	1.73	8.65	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.03	ND	0.97	4.83	ND	
142-82-5	n-Heptane	0.41	1.03	ND	1.70	4.24	ND	
78-87-5	1,2-Dichloropropane	0.21	1.03	ND	0.96	4.78	ND	
123-91-1	1,4 Dioxane	0.41	2.07	ND	1.49	7.46	ND	
74-95-3	Dibromomethane	0.21	1.03	ND	1.47	7.36	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.03	ND	0.56	5.56	ND	
75-27-4	Bromodichloromethane	0.21	1.03	ND	1.39	6.93	ND	
80-62-6	Methyl methacrylate	0.41	1.03	ND	1.69	4.24	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.41	3.31	ND	1.70	13.57	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.03	ND	0.94	4.70	ND	
108-88-3	Toluene	0.83	1.03	1.21	3.12	3.90	4.55	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.03	ND	0.94	4.70	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.03	ND	1.13	5.65	ND	
97-63-2	Ethyl methacrylate	0.41	1.03	ND	1.93	4.83	ND	
591-78-6	2-Hexanone	0.41	3.31	ND	1.70	13.57	ND	
142-28-9	1,3-Dichloropropane	0.21	2.89	ND	0.96	13.39	ND	
111-65-9	Octane	0.41	1.03	ND	1.93	4.83	ND	
124-48-1	Dibromochloromethane	0.41	1.03	ND	3.53	8.82	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.41	1.03	ND	3.18	7.95	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.03	ND	0.70	7.02	ND	
108-90-7	Chlorobenzene	0.41	1.03	ND	1.91	4.77	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.41	1.03	ND	2.84	7.10	ND	
100-41-4	Ethylbenzene	0.41	1.03	ND	1.80	4.49	ND	
1330-20-7	m,p-Xylenes	0.41	1.03	ND	1.80	4.49	ND	
111-84-2	Nonane	0.41	1.03	ND	2.17	5.43	ND	
100-42-5	Styrene	0.62	1.03	ND	2.65	4.41	ND	
75-25-2	Bromoform	0.41	1.03	ND	4.28	10.69	ND	
95-47-6	o-Xylene	0.41	1.03	ND	1.80	4.49	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.83	2.07	ND	5.68	14.20	ND	
96-18-4	1,2,3-Trichloropropane	0.83	2.48	ND	4.99	14.97	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.83	2.48	ND	4.23	12.70	ND	
103-65-1	n-Propylbenzene	0.83	2.89	ND	4.07	14.24	ND	
98-82-8	Isopropylbenzene	0.83	2.89	ND	4.07	14.24	ND	
622-96-8	4-Ethyltoluene	0.83	6.61	ND	4.07	32.56	ND	
108-67-8	1,3,5-Trimethylbenzene	0.83	3.72	ND	4.07	18.31	ND	
124-18-5	Decane	0.83	2.48	ND	4.82	14.45	ND	
98-06-6	tert-butyl benzene	0.83	2.48	ND	4.54	13.63	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.83	3.72	ND	4.07	18.31	ND	
538-93-2	i-Butylbenzene	0.83	2.48	ND	4.54	13.63	ND	
135-98-8	sec-butylbenzene	0.83	2.89	ND	4.54	15.90	ND	
541-73-1	1,3-Dichlorobenzene	0.83	3.31	ND	4.98	19.91	ND	
99-87-6	Isopropyltoluene	0.83	2.48	ND	4.54	13.63	ND	
100-44-7	Benzyl chloride	0.83	2.07	ND	4.29	10.72	ND	
106-46-7	1,4-Dichlorobenzene	0.83	2.07	ND	4.98	12.44	ND	
104-51-8	n-Butylbenzene	0.83	2.48	ND	4.54	13.63	ND	
95-50-1	1,2-Dichlorobenzene	0.83	2.89	ND	4.98	17.42	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.24	2.89	ND	12.00	28.00	ND	
120-82-1	1,2,4-Trichlorobenzene	1.24	2.07	ND	9.21	15.35	ND	
91-20-3	Naphthalene	2.07	0.41	ND	10.85	2.17	ND	
87-61-6	1,2,3-Trichlorobenzene	1.24	2.07	ND	9.21	15.35	ND	
87-68-3	Hexachlorobutadiene	1.03	1.24	ND	11.04	13.24	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	99	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**12**		
File Name:	2510012A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/19/25**	**Time:**	**11:38**
Sample ID:	T-112	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**03/31/25**	**Time:**	**20:31**
Anal Date:	31 Mar 125 8:31 pm	**SF:**	**2**	**QCbatch:**	**033125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**631**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.24**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	LR	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	2.629	4.41	42.00	412053
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.757	4.86	31.00	529963
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	1.241	5.72	46.00	112511
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	3.594	6.42	58.00	545947
67-63-0	2-propanol (isopropylalcoh	15	TRG	13.945	6.45	45.00	8842685
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.300	8.75	72.00	38232
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.104	9.17	61.00	51218
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.006	10.74	56.00	2714
71-43-2	Benzene	47	TRG	1.235	10.70	78.00	991859
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.292	13.50	91.00	327645
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.041	15.90	106	54572
1330-20-7	m,p-Xylenes	75	TRG	0.092	16.06	91.00	109525
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.027	16.61	104.00	22737
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.034	16.54	91.00	42063
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.008	18.23	105.00	13161
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.017	18.31	105.00	25022
124-18-5	Decane	87	TRG	0.013	18.60	57.00	23539
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.019	18.95	105.00	29403
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	919
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**12739464**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**14965012**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15037379**
2037-26-5	Toluene-d8	103	SURR	9.924	13.40	98.00	**9129800**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 2E+05
Laboratory Number: 12
File Name: 2510012A.D
Run Method: A1563_P.M
Can Factor: 1.24
Air Volume: 300.0 ml
Can/Tube Number: 631
Dilution Factor: 0.3720
Base Volume: 1000 ml
Unit Factor (ppbv): 1000 PPBV UG/M3

EDD SURR: PERCENT
Sam Type: SA
Instrument: MA1
DETECT: ND
Matrix: AA
Type: TRG
Diluton: 0.3720
Sig Figs: 2
MDLSF: 2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	2.63	10.87	18.73	10.87	18.73	18.73	18.73	0.100	0.250	0.41	0.71	1.03
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.62	3.07	1.03
Methanol	32.0	0.76	3.13	4.10	3.13	4.10	4.10	4.10	0.500	0.600	2.07	2.71	2.48
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.62	1.28	1.03
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.89	1.03
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.53	1.03
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.46	1.03
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.61	1.03
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.09	1.03
Ethanol	46.1	1.24	5.13	9.69	5.13	9.69	9.69	9.69	0.500	3.210	2.07	3.90	13.27
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.41	0.95	1.24
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.33	1.03
Acetone	58.1	3.59	14.85	35.35	14.85	35.35	35.35	35.35	0.500	0.600	2.07	4.92	2.48
2-propanol (isopropylalcohol)	60.1	13.94	57.64	141.87	57.64	141.87	141.87	141.87	0.200	1.250	0.83	2.03	5.17
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.41	1.25	4.13
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.41	2.42	1.24
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.82	1.03
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.83	1.80	1.24
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.59	1.03
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.65	4.13
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.72	1.03
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.29	1.03
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.21	0.82	0.83
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.41	1.49	0.83
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.03	2.33	1.65
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.03
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.73	1.03
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.73	4.13
2-Butanone (MEK)	72.1	0.30	1.24	3.67	1.24	3.67	3.67	3.67	0.100	0.300	0.41	1.22	1.24
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.41	1.73	2.48
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.46	1.03
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.14	1.03
Ethyl acetate	88.1	0.10	0.43	1.55	0.43	1.55	1.55	1.55	0.100	0.250	0.41	1.49	1.03
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.10	1.03
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.46	2.07
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.21	0.61	1.24
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.83	2.51	3.31
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.82	1.03
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.03
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.01	1.03
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.13	1.03
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.03
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.94	1.03
Cyclohexane	84.2	0.01	0.03	0.09	ND	ND	0		0.050	0.250	0.21	0.71	1.03
Benzene	78.1	1.23	5.10	16.32	5.10	16.32	16.32	16.32	0.350	0.500	1.45	4.63	2.07
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.30	1.03
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.73	2.07
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.97	1.03
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.70	1.03

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.03
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.49	2.07
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.47	1.03
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.56	1.03
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.39	1.03
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.69	1.03
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.41	1.70	3.31
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.94	1.03
Toluene	92.1	0.29	1.21	4.55	1.21	4.55	4.55	4.55	0.200	0.250	0.83	3.12	1.03
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.94	1.03
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.13	1.03
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.93	1.03
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.41	1.70	3.31
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.21	0.96	2.89
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.93	1.03
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	3.53	1.03
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	3.18	1.03
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.70	1.03
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.91	1.03
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.84	1.03
Ethylbenzene	106.2	0.04	0.17	0.73	ND	ND	0		0.100	0.250	0.41	1.80	1.03
m,p-Xylenes	106.2	0.09	0.38	1.65	ND	ND	0		0.100	0.250	0.41	1.80	1.03
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.17	1.03
Styrene	104.2	0.03	0.11	0.48	ND	ND	0		0.150	0.250	0.62	2.65	1.03
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	4.28	1.03
o-Xylene	106.2	0.03	0.14	0.61	ND	ND	0		0.100	0.250	0.41	1.80	1.03
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.83	5.68	2.07
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.99	2.48
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.23	2.48
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.07	2.89
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.07	2.89
4-Ethyltoluene	120.2	0.01	0.03	0.16	ND	ND	0		0.200	1.600	0.83	4.07	6.61
1,3,5-Trimethylbenzene	120.2	0.02	0.07	0.35	ND	ND	0		0.200	0.900	0.83	4.07	3.72
Decane	142.3	0.01	0.06	0.32	ND	ND	0		0.200	0.600	0.83	4.82	2.48
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.54	2.48
1,2,4-Trimethylbenzene	120.2	0.02	0.08	0.39	ND	ND	0		0.200	0.900	0.83	4.07	3.72
i-Butylbenzene	134.2	0.00	0.00	0.01	ND	ND	0		0.200	0.600	0.83	4.54	2.48
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.54	2.89
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.83	4.98	3.31
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.54	2.48
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.83	4.29	2.07
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.83	4.98	2.07
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.54	2.48
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.98	2.89
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.24	12.00	2.89
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.24	9.21	2.07
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.07	10.85	0.41
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.24	9.21	2.07
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.03	11.04	1.24
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		9.92	99	99	99	99	99	99	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.78				=		Y	10.87	18.73
5.12	U	ND		ND		Y	0.00	0.00
3.25				=		Y	3.13	4.10
2.14	U	ND		ND		Y	0.00	0.00
7.23	U	ND		ND		Y	0.00	0.00
2.65	U	ND		ND		Y	0.00	0.00
2.29	U	ND		ND		Y	0.00	0.00
4.02	U	ND		ND		Y	0.00	0.00
2.73	U	ND		ND		Y	0.00	0.00
25.05	J	J		=		Y	5.13	9.69
2.85	U	ND		ND		Y	0.00	0.00
5.81	U	ND		ND		Y	0.00	0.00
5.90				=		Y	14.85	35.35
12.72				=		Y	57.64	141.87
12.54	U	ND		ND		Y	0.00	0.00
7.26	U	ND		ND		Y	0.00	0.00
4.10	U	ND		ND		Y	0.00	0.00
2.70	U	ND		ND		Y	0.00	0.00
7.93	U	ND		ND		Y	0.00	0.00
12.95	U	ND		ND		Y	0.00	0.00
3.59	U	ND		ND		Y	0.00	0.00
3.22	U	ND		ND		Y	0.00	0.00
3.28	U	ND		ND		Y	0.00	0.00
2.98	U	ND		ND		Y	0.00	0.00
3.73	U	ND		ND		Y	0.00	0.00
4.19	U	ND		ND		Y	0.00	0.00
4.33	U	ND		ND		Y	0.00	0.00
14.58	U	ND		ND		Y	0.00	0.00
3.66				=		Y	1.24	3.67
10.38	U	ND		ND		Y	0.00	0.00
3.65	U	ND		ND		Y	0.00	0.00
2.84	U	ND		ND		Y	0.00	0.00
3.73	J	J		=		Y	0.43	1.55
5.48	U	ND		ND		Y	0.00	0.00
7.29	U	ND		ND		Y	0.00	0.00
3.66	U	ND		ND		Y	0.00	0.00
10.03	U	ND		ND		Y	0.00	0.00
4.10	U	ND		ND		Y	0.00	0.00
4.78	U	ND		ND		Y	0.00	0.00
5.05	U	ND		ND		Y	0.00	0.00
5.65	U	ND		ND		Y	0.00	0.00
4.19	U	ND		ND		Y	0.00	0.00
4.70	U	ND		ND		Y	0.00	0.00
3.56	U	ND		ND		Y	0.00	0.00
6.61				=		Y	5.10	16.32
6.51	U	ND		ND		Y	0.00	0.00
8.65	U	ND		ND		Y	0.00	0.00
4.83	U	ND		ND		Y	0.00	0.00
4.24	U	ND		ND		Y	0.00	0.00

4.78	U	ND	ND	Y	0.00	0.00
7.46	U	ND	ND	Y	0.00	0.00
7.36	U	ND	ND	Y	0.00	0.00
5.56	U	ND	ND	Y	0.00	0.00
6.93	U	ND	ND	Y	0.00	0.00
4.24	U	ND	ND	Y	0.00	0.00
13.57	U	ND	ND	Y	0.00	0.00
4.70	U	ND	ND	Y	0.00	0.00
3.90			=	Y	1.21	4.55
4.70	U	ND	ND	Y	0.00	0.00
5.65	U	ND	ND	Y	0.00	0.00
4.83	U	ND	ND	Y	0.00	0.00
13.57	U	ND	ND	Y	0.00	0.00
13.39	U	ND	ND	Y	0.00	0.00
4.83	U	ND	ND	Y	0.00	0.00
8.82	U	ND	ND	Y	0.00	0.00
7.95	U	ND	ND	Y	0.00	0.00
7.02	U	ND	ND	Y	0.00	0.00
4.77	U	ND	ND	Y	0.00	0.00
7.10	U	ND	ND	Y	0.00	0.00
4.49	U	ND	ND	Y	0.00	0.00
4.49	U	ND	ND	Y	0.00	0.00
5.43	U	ND	ND	Y	0.00	0.00
4.41	U	ND	ND	Y	0.00	0.00
10.69	U	ND	ND	Y	0.00	0.00
4.49	U	ND	ND	Y	0.00	0.00
14.20	U	ND	ND	Y	0.00	0.00
14.97	U	ND	ND	Y	0.00	0.00
12.70	U	ND	ND	Y	0.00	0.00
14.24	U	ND	ND	Y	0.00	0.00
14.24	U	ND	ND	Y	0.00	0.00
32.56	U	ND	ND	Y	0.00	0.00
18.31	U	ND	ND	Y	0.00	0.00
14.45	U	ND	ND	Y	0.00	0.00
13.63	U	ND	ND	Y	0.00	0.00
18.31	U	ND	ND	Y	0.00	0.00
13.63	U	ND	ND	Y	0.00	0.00
15.90	U	ND	ND	Y	0.00	0.00
19.91	U	ND	ND	Y	0.00	0.00
13.63	U	ND	ND	Y	0.00	0.00
10.72	U	ND	ND	Y	0.00	0.00
12.44	U	ND	ND	Y	0.00	0.00
13.63	U	ND	ND	Y	0.00	0.00
17.42	U	ND	ND	Y	0.00	0.00
28.00	U	ND	ND	Y	0.00	0.00
15.35	U	ND	ND	Y	0.00	0.00
2.17	U	ND	ND	Y	0.00	0.00
15.35	U	ND	ND	Y	0.00	0.00
13.24	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**12**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.24	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum $\frac{(Astdni)\ (Cistdi)}{(Cstdni)\ (Aistdi)}$ Note: 1 i

2) Raw Amt = $\frac{(Ansamp)\ (Cistdi)}{(Avg\ RFn)\ (Aistdi)}$ = **Cn**

3) Amount ppbv = $\frac{(Raw\ Amt)\ 1000\ (CDF)}{(SV)}$

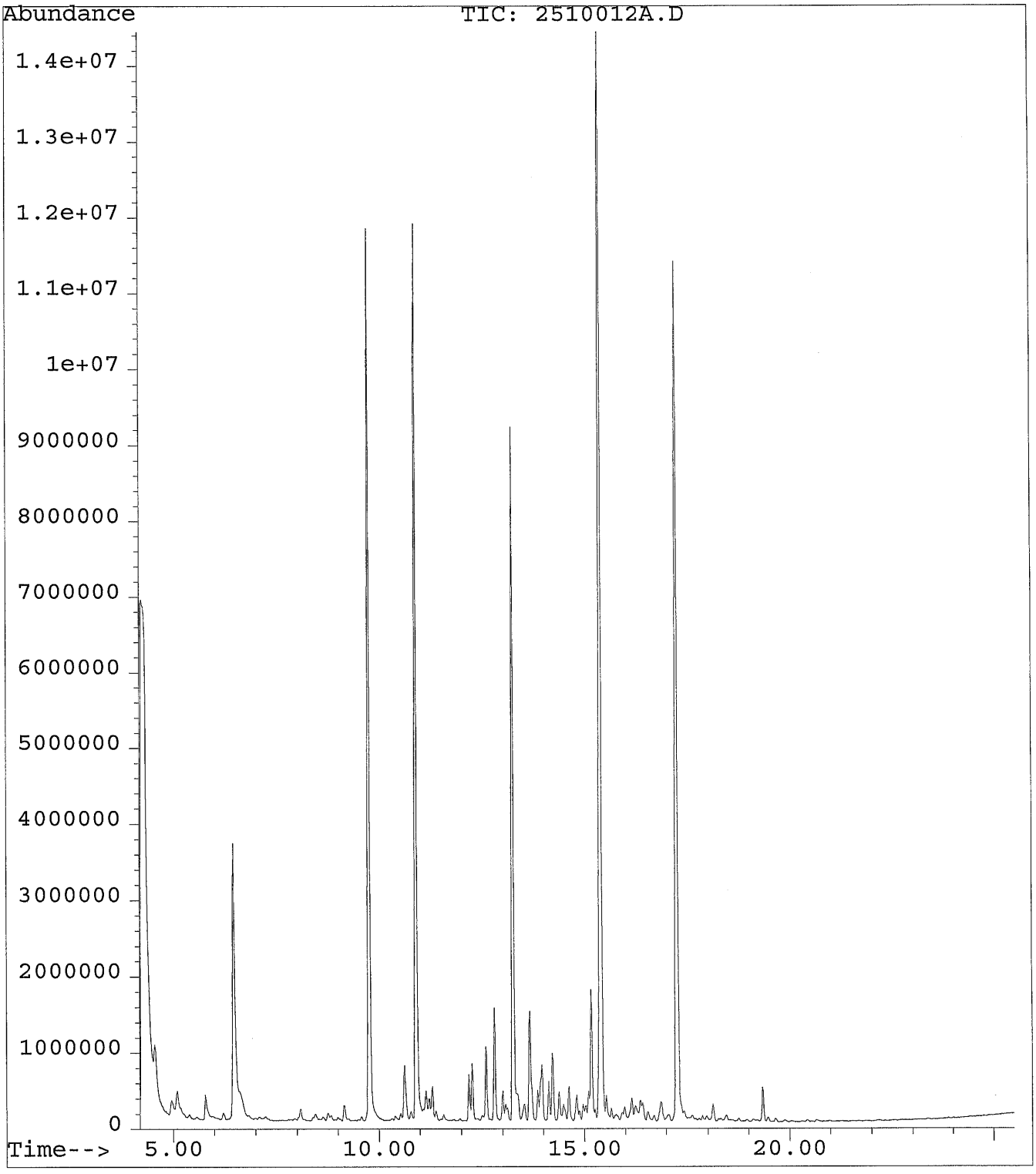
4) Amount ug/m3 = $\frac{(amt(ppbv)\ MW}{24.42}$

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	412053	20.0	12739464	2.629	10.87	18.73
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	12739464	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	529963	20.0	12739464	0.757	3.13	4.10
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	12739464	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	12739464	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	12739464	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	12739464	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	12739464	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	12739464	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	112511	20.0	12739464	1.241	5.13	9.69
12	Acrolein	PFB	TRG	56.1	0.130	0	20.0	12739464	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	12739464	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	545947	20.0	12739464	3.594	14.85	35.35
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	8842685	20.0	12739464	13.945	57.64	141.87
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	12739464	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	12739464	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	12739464	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	12739464	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	12739464	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	12739464	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	12739464	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	12739464	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	12739464	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	12739464	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	12739464	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	12739464	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	12739464	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	12739464	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	38232	20.0	12739464	0.300	1.24	3.67
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	12739464	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	12739464	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	12739464	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	51218	20.0	12739464	0.104	0.43	1.55
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	12739464	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	12739464	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	12739464	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	12739464	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	12739464	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	12739464	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	12739464	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	14965012	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	14965012	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	14965012	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	2714	20.0	14965012	0.006	0.03	0.09
47	Benzene	14DF	TRG	78.1	1.074	991859	20.0	14965012	1.235	5.10	16.32
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	14965012	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	14965012	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	14965012	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	14965012	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	14965012	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	14965012	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	14965012	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	14965012	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	14965012	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	14965012	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	14965012	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	14965012	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	327645	20.0	14965012	0.292	1.21	4.55
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	14965012	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	14965012	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	14965012	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	14965012	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	14965012	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	14965012	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	14965012	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	14965012	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	14965012	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	15037379	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	15037379	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	54572	20.0	15037379	0.041	0.17	0.73
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	109525	20.0	15037379	0.092	0.38	1.65
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	15037379	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	22737	20.0	15037379	0.027	0.11	0.48
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	15037379	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	42063	20.0	15037379	0.034	0.14	0.61
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	15037379	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	15037379	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	15037379	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	15037379	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	15037379	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	13161	20.0	15037379	0.008	0.03	0.16
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	25022	20.0	15037379	0.017	0.07	0.35
87	Decane	d5CB	TRG	142.3	2.327	23539	20.0	15037379	0.013	0.06	0.32
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	15037379	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	29403	20.0	15037379	0.019	0.08	0.39
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	919	20.0	15037379	0.000	0.00	0.01
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	15037379	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	15037379	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	15037379	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	15037379	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	15037379	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	15037379	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	15037379	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	15037379	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	15037379	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	15037379	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	15037379	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	15037379	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	12739464	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	14965012	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15037379	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9129800	10.0		9.924	99.24	99

File : C:\MSCHEM\1\DATA\03315A_C\2510012A.D
Operator : LR
Acquired : 31 Mar 125 8:31 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-112
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **13**

Client ID T-113

Analytical Method TO-15

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Analytical Report
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Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 13**

File Name:	2510013A.D	**Date Sampled:**	03/19/25	**Time:**	13:05
Description:	T-113	**Date Analyzed:**	04/01/25	**Time:**	13:05
Canister:	690	**Can Dilution Factor:**	1.23		
QC_Batch:	040125-MA1	**Air Volume:**	300 ml		

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.41	1.03	0.88	0.71	1.77	1.51	J
75-71-8	Dichlorodifluoromethane	0.62	1.03	ND	3.05	5.08	ND	
67-56-1	Methanol	2.05	2.46	4.49	2.69	3.22	5.89	
74-87-3	Chloromethane	0.62	1.03	ND	1.27	2.12	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.41	1.03	ND	2.87	7.17	ND	
75-01-4	Vinyl chloride	0.21	1.03	ND	0.53	2.62	ND	
106-99-0	1,3-Butadiene	0.21	1.03	ND	0.46	2.27	ND	
74-83-9	Bromomethane	0.41	1.03	ND	1.59	3.98	ND	
75-00-3	Chloroethane	0.41	1.03	ND	1.08	2.71	ND	
64-17-5	Ethanol	2.05	13.16	5.47	3.87	24.85	10.32	J
107-02-8	Acrolein	0.41	1.23	ND	0.94	2.83	ND	
75-69-4	Trichlorofluoromethane	0.41	1.03	ND	2.31	5.77	ND	
67-64-1	Acetone	2.05	2.46	7.35	4.88	5.85	17.48	
67-63-0	2-propanol (isopropylalcohol)	0.82	5.13	0.92	2.02	12.61	2.27	J
75-65-0	t-Butyl alcohol	0.41	4.10	ND	1.24	12.44	ND	
4227-95-6	Methyl iodide	0.41	1.23	ND	2.40	7.20	ND	
75-35-4	1,1-Dichloroethene	0.21	1.03	ND	0.81	4.07	ND	
107-13-1	Acrylonitrile	0.82	1.23	ND	1.78	2.67	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.03	ND	1.57	7.87	ND	
107-05-1	Allyl chloride	0.21	4.10	ND	0.64	12.85	ND	
75-09-2	Methylene chloride	0.21	1.03	ND	0.71	3.56	ND	
75-15-0	Carbon disulfide	0.41	1.03	ND	1.28	3.19	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.82	ND	0.81	3.25	ND	
1634-04-4	Methyl tert butyl ether	0.41	0.82	ND	1.48	2.96	ND	
107-12-0	Propionitrile	1.03	1.64	ND	2.31	3.70	ND	
75-34-3	1,1-Dichloroethane	0.20	1.03	ND	0.83	4.16	ND	
637-92-3	Ethyl tert butyl ether	0.41	1.03	ND	1.72	4.29	ND	
108-05-4	Vinyl acetate	0.21	4.10	ND	0.72	14.46	ND	
78-93-3	2-Butanone (MEK)	0.41	1.23	1.73	1.21	3.63	5.11	
108-20-3	Diisopropyl ether	0.41	2.46	ND	1.72	10.30	ND	
110-54-3	Hexane	0.41	1.03	ND	1.45	3.62	ND	
126-98-7	Methacrylonitrile	0.41	1.03	ND	1.13	2.82	ND	
141-78-6	Ethyl acetate	0.41	1.03	ND	1.48	3.70	ND	
74-97-5	Bromochloromethane	0.21	1.03	ND	1.09	5.43	ND	
96-33-3	Methyl acrylate	0.41	2.05	ND	1.45	7.23	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.23	ND	0.61	3.63	ND	
78-83-1	Isobutyl alcohol	0.82	3.28	ND	2.49	9.95	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.03	ND	0.81	4.07	ND	
594-20-7	2,2-Dichloropropane	0.21	1.03	ND	0.95	4.74	ND	
67-66-3	Chloroform	0.21	1.03	ND	1.01	5.01	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.03	ND	1.12	5.60	ND	
107-06-2	1,2-Dichloroethane	0.21	1.03	ND	0.83	4.16	ND	
563-58-6	1,1-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
110-82-7	Cyclohexane	0.21	1.03	ND	0.71	3.53	ND	
71-43-2	Benzene	1.44	2.05	1.49	4.59	6.56	4.75	J
56-23-5	Carbon tetrachloride	0.21	1.03	ND	1.29	6.46	ND	
994-05-8	t-Amyl methyl ether	0.41	2.05	ND	1.72	8.58	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.03	ND	0.96	4.79	ND	
142-82-5	n-Heptane	0.41	1.03	ND	1.68	4.21	ND	
78-87-5	1,2-Dichloropropane	0.21	1.03	ND	0.95	4.74	ND	
123-91-1	1,4 Dioxane	0.41	2.05	ND	1.48	7.40	ND	
74-95-3	Dibromomethane	0.21	1.03	ND	1.46	7.30	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.03	ND	0.55	5.52	ND	
75-27-4	Bromodichloromethane	0.21	1.03	ND	1.38	6.88	ND	
80-62-6	Methyl methacrylate	0.41	1.03	ND	1.68	4.20	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.41	3.28	ND	1.68	13.46	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
108-88-3	Toluene	0.82	1.03	ND	3.09	3.87	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.03	ND	0.93	4.66	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.03	ND	1.12	5.60	ND	
97-63-2	Ethyl methacrylate	0.41	1.03	ND	1.92	4.79	ND	
591-78-6	2-Hexanone	0.41	3.28	ND	1.68	13.46	ND	
142-28-9	1,3-Dichloropropane	0.21	2.87	ND	0.95	13.28	ND	
111-65-9	Octane	0.41	1.03	ND	1.92	4.79	ND	
124-48-1	Dibromochloromethane	0.41	1.03	ND	3.50	8.74	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.41	1.03	ND	3.16	7.89	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.03	ND	0.70	6.96	ND	
108-90-7	Chlorobenzene	0.41	1.03	ND	1.89	4.73	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.41	1.03	ND	2.82	7.04	ND	
100-41-4	Ethylbenzene	0.41	1.03	ND	1.78	4.46	ND	
1330-20-7	m,p-Xylenes	0.41	1.03	ND	1.78	4.46	ND	
111-84-2	Nonane	0.41	1.03	ND	2.15	5.39	ND	
100-42-5	Styrene	0.62	1.03	ND	2.62	4.37	ND	
75-25-2	Bromoform	0.41	1.03	ND	4.24	10.61	ND	
95-47-6	o-Xylene	0.41	1.03	ND	1.78	4.46	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.82	2.05	ND	5.64	14.09	ND	
96-18-4	1,2,3-Trichloropropane	0.82	2.46	ND	4.95	14.85	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.82	2.46	ND	4.20	12.59	ND	
103-65-1	n-Propylbenzene	0.82	2.87	ND	4.04	14.13	ND	
98-82-8	Isopropylbenzene	0.82	2.87	ND	4.04	14.13	ND	
622-96-8	4-Ethyltoluene	0.82	6.56	ND	4.04	32.29	ND	
108-67-8	1,3,5-Trimethylbenzene	0.82	3.69	ND	4.04	18.17	ND	
124-18-5	Decane	0.82	2.46	ND	4.78	14.34	ND	
98-06-6	tert-butyl benzene	0.82	2.46	ND	4.51	13.52	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.82	3.69	ND	4.04	18.17	ND	
538-93-2	i-Butylbenzene	0.82	2.46	ND	4.51	13.52	ND	
135-98-8	sec-butylbenzene	0.82	2.87	ND	4.51	15.77	ND	
541-73-1	1,3-Dichlorobenzene	0.82	3.28	ND	4.94	19.75	ND	
99-87-6	Isopropyltoluene	0.82	2.46	ND	4.51	13.52	ND	
100-44-7	Benzyl chloride	0.82	2.05	ND	4.25	10.63	ND	
106-46-7	1,4-Dichlorobenzene	0.82	2.05	ND	4.94	12.34	ND	
104-51-8	n-Butylbenzene	0.82	2.46	ND	4.51	13.52	ND	
95-50-1	1,2-Dichlorobenzene	0.82	2.87	ND	4.94	17.28	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.23	2.87	ND	11.90	27.77	ND	
120-82-1	1,2,4-Trichlorobenzene	1.23	2.05	ND	9.14	15.23	ND	
91-20-3	Naphthalene	2.05	0.41	ND	10.76	2.15	ND	
87-61-6	1,2,3-Trichlorobenzene	1.23	2.05	ND	9.14	15.23	ND	
87-68-3	Hexachlorobutadiene	1.03	1.23	ND	10.95	13.14	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	118	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**13**		
File Name:	2510013A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/19/25**	**Time:**	**13:05**
Sample ID:	T-113	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/01/25**	**Time:**	**13:05**
Anal Date:	1 Apr 125 1:05 pm	**SF:**	**2**	**QCbatch:**	**040125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**690**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.23**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	MM	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.214	4.41	42.00	27476
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	1.096	4.86	31.00	628409
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	1.333	5.72	46.00	98930
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	1.792	6.42	58.00	222953
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.225	6.45	45.00	116821
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.422	8.75	72.00	44034
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.362	10.70	78.00	248246
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.063	13.50	91.00	60567
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.030	13.79	58.00	16286
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.018	15.90	106	25423
1330-20-7	m,p-Xylenes	75	TRG	0.026	16.06	91.00	31787
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.051	16.61	104.00	43782
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.014	16.55	91.00	18388
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.028	18.23	105.00	47855
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.024	18.31	105.00	37237
124-18-5	Decane	87	TRG	0.009	18.60	57.00	16144
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.025	18.95	105.00	40454
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.134	19.53	119.00	303836
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.010	20.20	91.00	26046
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**10432786**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**12765051**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15577152**
2037-26-5	Toluene-d8	103	SURR	11.777	13.40	98.00	**9241640**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**13**
File Name:	2510013A.D
Run Method:	A1563_P.M
Can Factor:	1.23
Air Volume:	300.0 ml
Can/Tube Number:	690
Dilution Factor:	0.3690
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3690
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.21	0.88	1.51	0.88	1.51	1.51	1.51	**0.100**	**0.250**	0.41	0.71	1.03
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	0.62	3.05	1.03
Methanol	32.0	1.10	4.49	5.89	4.49	5.89	5.89	5.89	**0.500**	**0.600**	2.05	2.69	2.46
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	0.62	1.27	1.03
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	2.87	1.03
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.53	1.03
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.46	1.03
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	1.59	1.03
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	1.08	1.03
Ethanol	46.1	1.33	5.47	10.32	5.47	10.32	10.32	10.32	**0.500**	**3.210**	2.05	3.87	13.16
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	0.41	0.94	1.23
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	2.31	1.03
Acetone	58.1	1.79	7.35	17.48	7.35	17.48	17.48	17.48	**0.500**	**0.600**	2.05	4.88	2.46
2-propanol (isopropylalcohol)	60.1	0.22	0.92	2.27	0.92	2.27	2.27	2.27	**0.200**	**1.250**	0.82	2.02	5.13
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**1.000**	0.41	1.24	4.10
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	0.41	2.40	1.23
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.81	1.03
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.300**	0.82	1.78	1.23
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.57	1.03
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	0.21	0.64	4.10
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.71	1.03
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	1.28	1.03
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.200**	0.21	0.81	0.82
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.200**	0.41	1.48	0.82
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		**0.250**	**0.400**	1.03	2.31	1.64
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.20	0.83	1.03
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	1.72	1.03
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	0.21	0.72	4.10
2-Butanone (MEK)	72.1	0.42	1.73	5.11	1.73	5.11	5.11	5.11	**0.100**	**0.300**	0.41	1.21	1.23
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.600**	0.41	1.72	2.46
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	1.45	1.03
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	1.13	1.03
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	1.48	1.03
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.09	1.03
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.41	1.45	2.05
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.300**	0.21	0.61	1.23
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.800**	0.82	2.49	3.28
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.81	1.03
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.95	1.03
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.01	1.03
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.12	1.03
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.83	1.03
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.93	1.03
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.71	1.03
Benzene	78.1	0.36	1.49	4.75	1.49	4.75	4.75	4.75	**0.350**	**0.500**	1.44	4.59	2.05
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.29	1.03
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.41	1.72	2.05
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.96	1.03
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	1.68	1.03

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.03
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.48	2.05
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.46	1.03
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.55	1.03
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.38	1.03
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.68	1.03
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.41	1.68	3.28
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.93	1.03
Toluene	92.1	0.06	0.26	0.98	ND	ND	0		0.200	0.250	0.82	3.09	1.03
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.93	1.03
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.12	1.03
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.92	1.03
2-Hexanone	100.2	0.03	0.12	0.50	ND	ND	0		0.100	0.800	0.41	1.68	3.28
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.21	0.95	2.87
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.92	1.03
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	3.50	1.03
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	3.16	1.03
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.70	1.03
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.89	1.03
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.82	1.03
Ethylbenzene	106.2	0.02	0.08	0.33	ND	ND	0		0.100	0.250	0.41	1.78	1.03
m,p-Xylenes	106.2	0.03	0.11	0.46	ND	ND	0		0.100	0.250	0.41	1.78	1.03
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.15	1.03
Styrene	104.2	0.05	0.21	0.89	ND	ND	0		0.150	0.250	0.62	2.62	1.03
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	4.24	1.03
o-Xylene	106.2	0.01	0.06	0.25	ND	ND	0		0.100	0.250	0.41	1.78	1.03
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.82	5.64	2.05
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.95	2.46
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.20	2.46
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.82	4.04	2.87
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.82	4.04	2.87
4-Ethyltoluene	120.2	0.03	0.12	0.57	ND	ND	0		0.200	1.600	0.82	4.04	6.56
1,3,5-Trimethylbenzene	120.2	0.02	0.10	0.49	ND	ND	0		0.200	0.900	0.82	4.04	3.69
Decane	142.3	0.01	0.04	0.21	ND	ND	0		0.200	0.600	0.82	4.78	2.46
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.51	2.46
1,2,4-Trimethylbenzene	120.2	0.03	0.10	0.51	ND	ND	0		0.200	0.900	0.82	4.04	3.69
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.82	4.51	2.46
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.82	4.51	2.87
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.82	4.94	3.28
Isopropyltoluene	134.2	0.13	0.55	3.02	ND	ND	0		0.200	0.600	0.82	4.51	2.46
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.82	4.25	2.05
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.82	4.94	2.05
n-Butylbenzene	134.2	0.01	0.04	0.23	ND	ND	0		0.200	0.600	0.82	4.51	2.46
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.82	4.94	2.87
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.23	11.90	2.87
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.23	9.14	2.05
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.05	10.76	0.41
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.23	9.14	2.05
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.03	10.95	1.23
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		11.78	118	118	118	118	118	118	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.77	J	J		=		Y	0.88	1.51
5.08	U	ND		ND		Y	0.00	0.00
3.22				=		Y	4.49	5.89
2.12	U	ND		ND		Y	0.00	0.00
7.17	U	ND		ND		Y	0.00	0.00
2.62	U	ND		ND		Y	0.00	0.00
2.27	U	ND		ND		Y	0.00	0.00
3.98	U	ND		ND		Y	0.00	0.00
2.71	U	ND		ND		Y	0.00	0.00
24.85	J	J		=		Y	5.47	10.32
2.83	U	ND		ND		Y	0.00	0.00
5.77	U	ND		ND		Y	0.00	0.00
5.85				=		Y	7.35	17.48
12.61	J	J		=		Y	0.92	2.27
12.44	U	ND		ND		Y	0.00	0.00
7.20	U	ND		ND		Y	0.00	0.00
4.07	U	ND		ND		Y	0.00	0.00
2.67	U	ND		ND		Y	0.00	0.00
7.87	U	ND		ND		Y	0.00	0.00
12.85	U	ND		ND		Y	0.00	0.00
3.56	U	ND		ND		Y	0.00	0.00
3.19	U	ND		ND		Y	0.00	0.00
3.25	U	ND		ND		Y	0.00	0.00
2.96	U	ND		ND		Y	0.00	0.00
3.70	U	ND		ND		Y	0.00	0.00
4.16	U	ND		ND		Y	0.00	0.00
4.29	U	ND		ND		Y	0.00	0.00
14.46	U	ND		ND		Y	0.00	0.00
3.63				=		Y	1.73	5.11
10.30	U	ND		ND		Y	0.00	0.00
3.62	U	ND		ND		Y	0.00	0.00
2.82	U	ND		ND		Y	0.00	0.00
3.70	U	ND		ND		Y	0.00	0.00
5.43	U	ND		ND		Y	0.00	0.00
7.23	U	ND		ND		Y	0.00	0.00
3.63	U	ND		ND		Y	0.00	0.00
9.95	U	ND		ND		Y	0.00	0.00
4.07	U	ND		ND		Y	0.00	0.00
4.74	U	ND		ND		Y	0.00	0.00
5.01	U	ND		ND		Y	0.00	0.00
5.60	U	ND		ND		Y	0.00	0.00
4.16	U	ND		ND		Y	0.00	0.00
4.66	U	ND		ND		Y	0.00	0.00
3.53	U	ND		ND		Y	0.00	0.00
6.56	J	J		=		Y	1.49	4.75
6.46	U	ND		ND		Y	0.00	0.00
8.58	U	ND		ND		Y	0.00	0.00
4.79	U	ND		ND		Y	0.00	0.00
4.21	U	ND		ND		Y	0.00	0.00

4.74	U	ND	ND	Y	0.00	0.00
7.40	U	ND	ND	Y	0.00	0.00
7.30	U	ND	ND	Y	0.00	0.00
5.52	U	ND	ND	Y	0.00	0.00
6.88	U	ND	ND	Y	0.00	0.00
4.20	U	ND	ND	Y	0.00	0.00
13.46	U	ND	ND	Y	0.00	0.00
4.66	U	ND	ND	Y	0.00	0.00
3.87	U	ND	ND	Y	0.00	0.00
4.66	U	ND	ND	Y	0.00	0.00
5.60	U	ND	ND	Y	0.00	0.00
4.79	U	ND	ND	Y	0.00	0.00
13.46	U	ND	ND	Y	0.00	0.00
13.28	U	ND	ND	Y	0.00	0.00
4.79	U	ND	ND	Y	0.00	0.00
8.74	U	ND	ND	Y	0.00	0.00
7.89	U	ND	ND	Y	0.00	0.00
6.96	U	ND	ND	Y	0.00	0.00
4.73	U	ND	ND	Y	0.00	0.00
7.04	U	ND	ND	Y	0.00	0.00
4.46	U	ND	ND	Y	0.00	0.00
4.46	U	ND	ND	Y	0.00	0.00
5.39	U	ND	ND	Y	0.00	0.00
4.37	U	ND	ND	Y	0.00	0.00
10.61	U	ND	ND	Y	0.00	0.00
4.46	U	ND	ND	Y	0.00	0.00
14.09	U	ND	ND	Y	0.00	0.00
14.85	U	ND	ND	Y	0.00	0.00
12.59	U	ND	ND	Y	0.00	0.00
14.13	U	ND	ND	Y	0.00	0.00
14.13	U	ND	ND	Y	0.00	0.00
32.29	U	ND	ND	Y	0.00	0.00
18.17	U	ND	ND	Y	0.00	0.00
14.34	U	ND	ND	Y	0.00	0.00
13.52	U	ND	ND	Y	0.00	0.00
18.17	U	ND	ND	Y	0.00	0.00
13.52	U	ND	ND	Y	0.00	0.00
15.77	U	ND	ND	Y	0.00	0.00
19.75	U	ND	ND	Y	0.00	0.00
13.52	U	ND	ND	Y	0.00	0.00
10.63	U	ND	ND	Y	0.00	0.00
12.34	U	ND	ND	Y	0.00	0.00
13.52	U	ND	ND	Y	0.00	0.00
17.28	U	ND	ND	Y	0.00	0.00
27.77	U	ND	ND	Y	0.00	0.00
15.23	U	ND	ND	Y	0.00	0.00
2.15	U	ND	ND	Y	0.00	0.00
15.23	U	ND	ND	Y	0.00	0.00
13.14	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**13**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.23	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum (Astdni) (Cistdi) / (Cstdni) (Aistdi) i — Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) **= Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

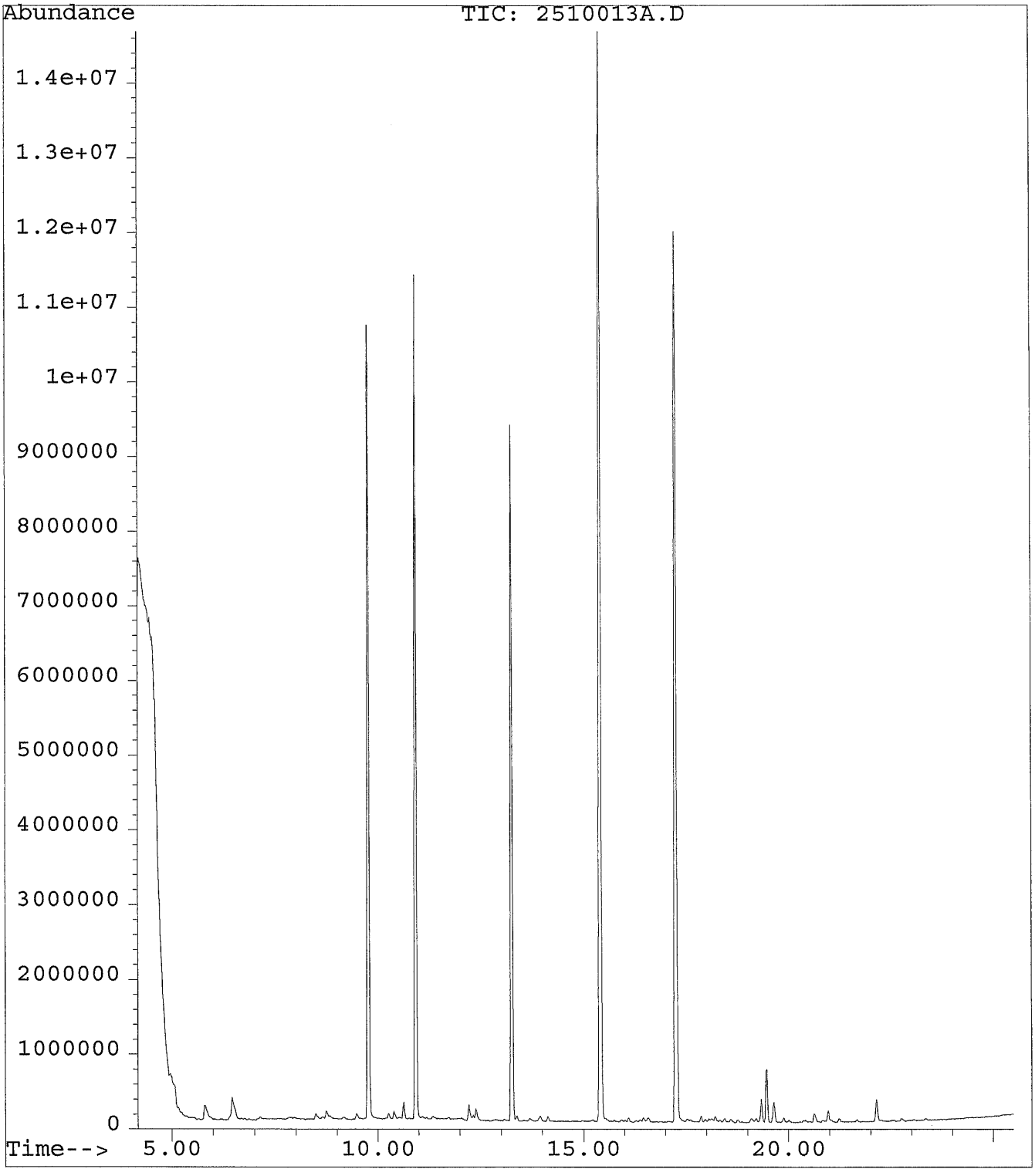
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	27476	20.0	10432786	0.214	0.88	1.51
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	10432786	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	628409	20.0	10432786	1.096	4.49	5.89
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	10432786	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	10432786	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	10432786	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	10432786	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	10432786	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	10432786	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	98930	20.0	10432786	1.333	5.47	10.32
12	Acrolein	PFB	TRG	56.1	0.130	0	20.0	10432786	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	10432786	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	222953	20.0	10432786	1.792	7.35	17.48
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	116821	20.0	10432786	0.225	0.92	2.27
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	10432786	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	10432786	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	10432786	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	10432786	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	10432786	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	10432786	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	10432786	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	10432786	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	10432786	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	10432786	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	10432786	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	10432786	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	10432786	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	10432786	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	44034	20.0	10432786	0.422	1.73	5.11
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	10432786	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	10432786	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	10432786	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	10432786	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	10432786	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	10432786	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	10432786	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	10432786	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	10432786	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	10432786	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	10432786	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	12765051	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	12765051	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	12765051	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	12765051	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	248246	20.0	12765051	0.362	1.49	4.75
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	12765051	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	12765051	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	12765051	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	12765051	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	12765051	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	12765051	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	12765051	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	12765051	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	12765051	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	12765051	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	12765051	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	12765051	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	60567	20.0	12765051	0.063	0.26	0.98
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	12765051	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	12765051	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	12765051	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	16286	20.0	12765051	0.030	0.12	0.50
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	12765051	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	12765051	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	12765051	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	12765051	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	12765051	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	15577152	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	15577152	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	25423	20.0	15577152	0.018	0.08	0.33
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	31787	20.0	15577152	0.026	0.11	0.46
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	15577152	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	43782	20.0	15577152	0.051	0.21	0.89
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	15577152	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	18388	20.0	15577152	0.014	0.06	0.25
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	15577152	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	15577152	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	15577152	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	15577152	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	15577152	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	47855	20.0	15577152	0.028	0.12	0.57
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	37237	20.0	15577152	0.024	0.10	0.49
87	Decane	d5CB	TRG	142.3	2.327	16144	20.0	15577152	0.009	0.04	0.21
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	15577152	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	40454	20.0	15577152	0.025	0.10	0.51
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	15577152	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	15577152	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	15577152	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	303836	20.0	15577152	0.134	0.55	3.02
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	15577152	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	15577152	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	26046	20.0	15577152	0.010	0.04	0.23
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	15577152	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	15577152	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	15577152	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	15577152	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	15577152	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	15577152	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	10432786	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	12765051	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15577152	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9241640	10.0		11.777	117.77	118

File : C:\MSCHEM\1\DATA\04015A_C\2510013A.D
Operator : MM
Acquired : 1 Apr 125 1:05 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-113
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number 225100

Lab Id Number 14

Client ID T-114

Analytical Method TO-15

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Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 14**

File Name: 2510014A.D **Date Sampled:** 03/19/25 **Time:** 13:11
Description: T-114 **Date Analyzed:** 04/01/25 **Time:** 13:43
Canister: 645 **Can Dilution Factor:** 1.27
QC_Batch: 040125-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.06	0.91	0.73	1.82	1.57	J
75-71-8	Dichlorodifluoromethane	0.64	1.06	ND	3.14	5.24	ND	
67-56-1	Methanol	2.12	2.54	ND	2.77	3.33	ND	
74-87-3	Chloromethane	0.64	1.06	ND	1.31	2.19	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.06	ND	2.96	7.41	ND	
75-01-4	Vinyl chloride	0.21	1.06	ND	0.55	2.71	ND	
106-99-0	1,3-Butadiene	0.21	1.06	ND	0.47	2.34	ND	
74-83-9	Bromomethane	0.42	1.06	ND	1.65	4.11	ND	
75-00-3	Chloroethane	0.42	1.06	ND	1.12	2.80	ND	
64-17-5	Ethanol	2.12	13.59	ND	4.00	25.66	ND	
107-02-8	Acrolein	0.42	1.27	1.02	0.97	2.92	2.34	J
75-69-4	Trichlorofluoromethane	0.42	1.06	ND	2.38	5.96	ND	
67-64-1	Acetone	2.12	2.54	3.26	5.04	6.04	7.76	
67-63-0	2-propanol (isopropylalcohol)	0.85	5.29	ND	2.08	13.02	ND	
75-65-0	t-Butyl alcohol	0.42	4.23	ND	1.28	12.85	ND	
4227-95-6	Methyl iodide	0.42	1.27	ND	2.48	7.43	ND	
75-35-4	1,1-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
107-13-1	Acrylonitrile	0.85	1.27	ND	1.84	2.76	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.06	ND	1.62	8.12	ND	
107-05-1	Allyl chloride	0.21	4.23	ND	0.66	13.26	ND	
75-09-2	Methylene chloride	0.21	1.06	ND	0.74	3.68	ND	
75-15-0	Carbon disulfide	0.42	1.06	ND	1.32	3.30	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.85	ND	0.84	3.36	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.85	ND	1.53	3.05	ND	
107-12-0	Propionitrile	1.06	1.69	ND	2.39	3.82	ND	
75-34-3	1,1-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.06	ND	1.77	4.43	ND	
108-05-4	Vinyl acetate	0.21	4.23	ND	0.75	14.93	ND	
78-93-3	2-Butanone (MEK)	0.42	1.27	ND	1.25	3.75	ND	
108-20-3	Diisopropyl ether	0.42	2.54	ND	1.77	10.63	ND	
110-54-3	Hexane	0.42	1.06	ND	1.49	3.74	ND	
126-98-7	Methacrylonitrile	0.42	1.06	ND	1.16	2.91	ND	
141-78-6	Ethyl acetate	0.42	1.06	ND	1.53	3.82	ND	
74-97-5	Bromochloromethane	0.21	1.06	ND	1.12	5.61	ND	
96-33-3	Methyl acrylate	0.42	2.12	ND	1.49	7.46	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.27	3.84	0.63	3.75	11.33	
78-83-1	Isobutyl alcohol	0.85	3.39	ND	2.57	10.28	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
594-20-7	2,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
67-66-3	Chloroform	0.21	1.06	ND	1.04	5.18	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
107-06-2	1,2-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
563-58-6	1,1-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
110-82-7	Cyclohexane	0.21	1.06	ND	0.73	3.65	ND	
71-43-2	Benzene	1.48	2.12	9.36	4.74	6.77	29.95	
56-23-5	Carbon tetrachloride	0.21	1.06	ND	1.33	6.67	ND	
994-05-8	t-Amyl methyl ether	0.42	2.12	ND	1.77	8.86	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.06	ND	0.99	4.95	ND	
142-82-5	n-Heptane	0.42	1.06	ND	1.74	4.34	ND	
78-87-5	1,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
123-91-1	1,4 Dioxane	0.42	2.12	ND	1.53	7.64	ND	
74-95-3	Dibromomethane	0.21	1.06	ND	1.51	7.53	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.06	ND	0.57	5.70	ND	
75-27-4	Bromodichloromethane	0.21	1.06	ND	1.42	7.10	ND	
80-62-6	Methyl methacrylate	0.42	1.06	ND	1.74	4.34	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.39	ND	1.74	13.90	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
108-88-3	Toluene	0.85	1.06	2.40	3.19	3.99	9.05	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
97-63-2	Ethyl methacrylate	0.42	1.06	ND	1.98	4.95	ND	
591-78-6	2-Hexanone	0.42	3.39	ND	1.74	13.90	ND	
142-28-9	1,3-Dichloropropane	0.21	2.96	ND	0.98	13.71	ND	
111-65-9	Octane	0.42	1.06	ND	1.98	4.95	ND	
124-48-1	Dibromochloromethane	0.42	1.06	ND	3.61	9.03	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.06	ND	3.26	8.14	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.06	ND	0.72	7.19	ND	
108-90-7	Chlorobenzene	0.42	1.06	ND	1.95	4.88	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.06	ND	2.91	7.27	ND	
100-41-4	Ethylbenzene	0.42	1.06	1.93	1.84	4.60	8.39	
1330-20-7	m,p-Xylenes	0.42	1.06	2.61	1.84	4.60	11.33	
111-84-2	Nonane	0.42	1.06	1.56	2.22	5.56	8.19	
100-42-5	Styrene	0.64	1.06	ND	2.71	4.52	ND	
75-25-2	Bromoform	0.42	1.06	ND	4.38	10.95	ND	
95-47-6	o-Xylene	0.42	1.06	0.86	1.84	4.60	3.74	J
79-34-5	1,1,2,2-Tetrachloroethane	0.85	2.12	ND	5.82	14.55	ND	
96-18-4	1,2,3-Trichloropropane	0.85	2.54	ND	5.11	15.33	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.85	2.54	ND	4.33	13.00	ND	
103-65-1	n-Propylbenzene	0.85	2.96	ND	4.17	14.59	ND	
98-82-8	Isopropylbenzene	0.85	2.96	ND	4.17	14.59	ND	
622-96-8	4-Ethyltoluene	0.85	6.77	ND	4.17	33.34	ND	
108-67-8	1,3,5-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
124-18-5	Decane	0.85	2.54	ND	4.93	14.80	ND	
98-06-6	tert-butyl benzene	0.85	2.54	ND	4.65	13.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
538-93-2	i-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
135-98-8	sec-butylbenzene	0.85	2.96	ND	4.65	16.29	ND	
541-73-1	1,3-Dichlorobenzene	0.85	3.39	ND	5.10	20.39	ND	
99-87-6	Isopropyltoluene	0.85	2.54	3.24	4.65	13.96	17.80	
100-44-7	Benzyl chloride	0.85	2.12	ND	4.39	10.97	ND	
106-46-7	1,4-Dichlorobenzene	0.85	2.12	ND	5.10	12.74	ND	
104-51-8	n-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
95-50-1	1,2-Dichlorobenzene	0.85	2.96	ND	5.10	17.84	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.27	2.96	ND	12.29	28.68	ND	
120-82-1	1,2,4-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
91-20-3	Naphthalene	2.12	0.42	ND	11.11	2.22	ND	
87-61-6	1,2,3-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
87-68-3	Hexachlorobutadiene	1.06	1.27	ND	11.30	13.56	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	106	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**14**		
File Name:	2510014A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/19/25**	**Time:**	**13:11**
Sample ID:	T-114	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/01/25**	**Time:**	**13:43**
Anal Date:	1 Apr 125 1:43 pm	**SF:**	**2**	**QCbatch:**	**040125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**645**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.27**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	DA	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.216	4.41	42.00	31970
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.188	4.86	31.00	124214
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.220	5.72	46.00	18856
107-02-8	Acrolein	12	TRG	0.240	6.32	56.00	18760
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	0.770	6.42	58.00	110546
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.085	6.45	45.00	50798
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.036	7.61	76.00	19032
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.906	9.72	72.00	116327
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	2.212	10.70	78.00	1802520
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.567	13.50	91.00	645563
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.456	15.90	106	637850
1330-20-7	m,p-Xylenes	75	TRG	0.615	16.06	91.00	769617
111-84-2	Nonane	76	TRG	0.368	16.43	57.00	370024
100-42-5	Styrene	77	TRG	0.053	16.61	104.00	46283
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.203	16.54	91.00	265124
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.074	18.23	105.00	126230
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.043	18.31	105.00	66501
124-18-5	Decane	87	TRG	0.175	18.60	57.00	320000
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.077	18.95	105.00	125565
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.765	19.53	119.00	1753124
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.002	23.23	128.00	125
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**12040670**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**15181687**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15725409**
2037-26-5	Toluene-d8	103	SURR	10.617	13.40	98.00	**9909055**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**14**
File Name:	2510014A.D
Run Method:	A1563_P.M
Can Factor:	1.27
Air Volume:	300.0 ml
Can/Tube Number:	645
Dilution Factor:	0.3810
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3810
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.22	0.91	1.57	0.91	1.57	1.57	1.57	0.100	0.250	0.42	0.73	1.06
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.64	3.14	1.06
Methanol	32.0	0.19	0.79	1.04	ND	ND	0		0.500	0.600	2.12	2.77	2.54
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.64	1.31	1.06
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.96	1.06
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.55	1.06
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.47	1.06
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.65	1.06
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.12	1.06
Ethanol	46.1	0.22	0.93	1.76	ND	ND	0		0.500	3.210	2.12	4.00	13.59
Acrolein	56.1	0.24	1.02	2.34	1.02	2.34	2.34	2.34	0.100	0.300	0.42	0.97	1.27
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.38	1.06
Acetone	58.1	0.77	3.26	7.76	3.26	7.76	7.76	7.76	0.500	0.600	2.12	5.04	2.54
2-propanol (isopropylalcohol)	60.1	0.08	0.36	0.88	ND	ND	0		0.200	1.250	0.85	2.08	5.29
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.42	1.28	4.23
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.42	2.48	1.27
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.06
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.85	1.84	1.27
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.62	1.06
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.66	4.23
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.74	1.06
Carbon disulfide	76.1	0.04	0.15	0.47	ND	ND	0		0.100	0.250	0.42	1.32	1.06
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.21	0.84	0.85
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.42	1.53	0.85
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.06	2.39	1.69
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.86	1.06
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.77	1.06
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.75	4.23
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.42	1.25	1.27
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.42	1.77	2.54
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.49	1.06
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.16	1.06
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.53	1.06
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.12	1.06
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.49	2.12
Tetrahydrofuran	72.1	0.91	3.84	11.33	3.84	11.33	11.33	11.33	0.050	0.300	0.21	0.63	1.27
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.85	2.57	3.39
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.06
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.98	1.06
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.04	1.06
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.16	1.06
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.86	1.06
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.73	1.06
Benzene	78.1	2.21	9.36	29.95	9.36	29.95	29.95	29.95	0.350	0.500	1.48	4.74	2.12
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.33	1.06
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.77	2.12
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.99	1.06
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.74	1.06

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.98	1.06
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.53	2.12
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.51	1.06
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.57	1.06
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.42	1.06
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.74	1.06
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.42	1.74	3.39
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06
Toluene	92.1	0.57	2.40	9.05	2.40	9.05	9.05	9.05	0.200	0.250	0.85	3.19	1.06
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.16	1.06
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.98	1.06
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.42	1.74	3.39
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.21	0.98	2.96
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.98	1.06
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.61	1.06
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.26	1.06
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.72	1.06
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.95	1.06
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.91	1.06
Ethylbenzene	106.2	0.46	1.93	8.39	1.93	8.39	8.39	8.39	0.100	0.250	0.42	1.84	1.06
m,p-Xylenes	106.2	0.62	2.61	11.33	2.61	11.33	11.33	11.33	0.100	0.250	0.42	1.84	1.06
Nonane	128.3	0.37	1.56	8.19	1.56	8.19	8.19	8.19	0.100	0.250	0.42	2.22	1.06
Styrene	104.2	0.05	0.23	0.96	ND	ND	0		0.150	0.250	0.64	2.71	1.06
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	4.38	1.06
o-Xylene	106.2	0.20	0.86	3.74	0.86	3.74	3.74	3.74	0.100	0.250	0.42	1.84	1.06
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	5.82	2.12
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	5.11	2.54
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.33	2.54
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.17	2.96
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.17	2.96
4-Ethyltoluene	120.2	0.07	0.31	1.54	ND	ND	0		0.200	1.600	0.85	4.17	6.77
1,3,5-Trimethylbenzene	120.2	0.04	0.18	0.90	ND	ND	0		0.200	0.900	0.85	4.17	3.81
Decane	142.3	0.17	0.74	4.32	ND	ND	0		0.200	0.600	0.85	4.93	2.54
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.65	2.54
1,2,4-Trimethylbenzene	120.2	0.08	0.33	1.61	ND	ND	0		0.200	0.900	0.85	4.17	3.81
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.65	2.54
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.65	2.96
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.85	5.10	3.39
Isopropyltoluene	134.2	0.76	3.24	17.80	3.24	17.80	17.80	17.80	0.200	0.600	0.85	4.65	2.54
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	4.39	2.12
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	5.10	2.12
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.65	2.54
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	5.10	2.96
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.27	12.29	2.96
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.27	9.44	2.12
Naphthalene	128.2	0.00	0.01	0.03	ND	ND	0		0.500	0.100	2.12	11.11	0.42
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.27	9.44	2.12
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.06	11.30	1.27
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		10.62	106	106	106	106	106	106	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.82	J	J		=		Y	0.91	1.57
5.24	U	ND		ND		Y	0.00	0.00
3.33	U	ND		ND		Y	0.00	0.00
2.19	U	ND		ND		Y	0.00	0.00
7.41	U	ND		ND		Y	0.00	0.00
2.71	U	ND		ND		Y	0.00	0.00
2.34	U	ND		ND		Y	0.00	0.00
4.11	U	ND		ND		Y	0.00	0.00
2.80	U	ND		ND		Y	0.00	0.00
25.66	U	ND		ND		Y	0.00	0.00
2.92	J	J		=		Y	1.02	2.34
5.96	U	ND		ND		Y	0.00	0.00
6.04				=		Y	3.26	7.76
13.02	U	ND		ND		Y	0.00	0.00
12.85	U	ND		ND		Y	0.00	0.00
7.43	U	ND		ND		Y	0.00	0.00
4.20	U	ND		ND		Y	0.00	0.00
2.76	U	ND		ND		Y	0.00	0.00
8.12	U	ND		ND		Y	0.00	0.00
13.26	U	ND		ND		Y	0.00	0.00
3.68	U	ND		ND		Y	0.00	0.00
3.30	U	ND		ND		Y	0.00	0.00
3.36	U	ND		ND		Y	0.00	0.00
3.05	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
4.29	U	ND		ND		Y	0.00	0.00
4.43	U	ND		ND		Y	0.00	0.00
14.93	U	ND		ND		Y	0.00	0.00
3.75	U	ND		ND		Y	0.00	0.00
10.63	U	ND		ND		Y	0.00	0.00
3.74	U	ND		ND		Y	0.00	0.00
2.91	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
5.61	U	ND		ND		Y	0.00	0.00
7.46	U	ND		ND		Y	0.00	0.00
3.75				=		Y	3.84	11.33
10.28	U	ND		ND		Y	0.00	0.00
4.20	U	ND		ND		Y	0.00	0.00
4.90	U	ND		ND		Y	0.00	0.00
5.18	U	ND		ND		Y	0.00	0.00
5.78	U	ND		ND		Y	0.00	0.00
4.29	U	ND		ND		Y	0.00	0.00
4.81	U	ND		ND		Y	0.00	0.00
3.65	U	ND		ND		Y	0.00	0.00
6.77				=		Y	9.36	29.95
6.67	U	ND		ND		Y	0.00	0.00
8.86	U	ND		ND		Y	0.00	0.00
4.95	U	ND		ND		Y	0.00	0.00
4.34	U	ND		ND		Y	0.00	0.00

4.90	U	ND	ND	Y	0.00	0.00
7.64	U	ND	ND	Y	0.00	0.00
7.53	U	ND	ND	Y	0.00	0.00
5.70	U	ND	ND	Y	0.00	0.00
7.10	U	ND	ND	Y	0.00	0.00
4.34	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
4.81	U	ND	ND	Y	0.00	0.00
3.99			=	Y	2.40	9.05
4.81	U	ND	ND	Y	0.00	0.00
5.78	U	ND	ND	Y	0.00	0.00
4.95	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
13.71	U	ND	ND	Y	0.00	0.00
4.95	U	ND	ND	Y	0.00	0.00
9.03	U	ND	ND	Y	0.00	0.00
8.14	U	ND	ND	Y	0.00	0.00
7.19	U	ND	ND	Y	0.00	0.00
4.88	U	ND	ND	Y	0.00	0.00
7.27	U	ND	ND	Y	0.00	0.00
4.60			=	Y	1.93	8.39
4.60			=	Y	2.61	11.33
5.56			=	Y	1.56	8.19
4.52	U	ND	ND	Y	0.00	0.00
10.95	U	ND	ND	Y	0.00	0.00
4.60	J	J	=	Y	0.86	3.74
14.55	U	ND	ND	Y	0.00	0.00
15.33	U	ND	ND	Y	0.00	0.00
13.00	U	ND	ND	Y	0.00	0.00
14.59	U	ND	ND	Y	0.00	0.00
14.59	U	ND	ND	Y	0.00	0.00
33.34	U	ND	ND	Y	0.00	0.00
18.76	U	ND	ND	Y	0.00	0.00
14.80	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
18.76	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
16.29	U	ND	ND	Y	0.00	0.00
20.39	U	ND	ND	Y	0.00	0.00
13.96			=	Y	3.24	17.80
10.97	U	ND	ND	Y	0.00	0.00
12.74	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
17.84	U	ND	ND	Y	0.00	0.00
28.68	U	ND	ND	Y	0.00	0.00
15.73	U	ND	ND	Y	0.00	0.00
2.22	U	ND	ND	Y	0.00	0.00
15.73	U	ND	ND	Y	0.00	0.00
13.56	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**14**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.27	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi) i] Note: 1

2) Raw Amt = (Ansamp) / (Avg RFn) × (Cistdi) / (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) × 1000 / (SV) × (CDF)

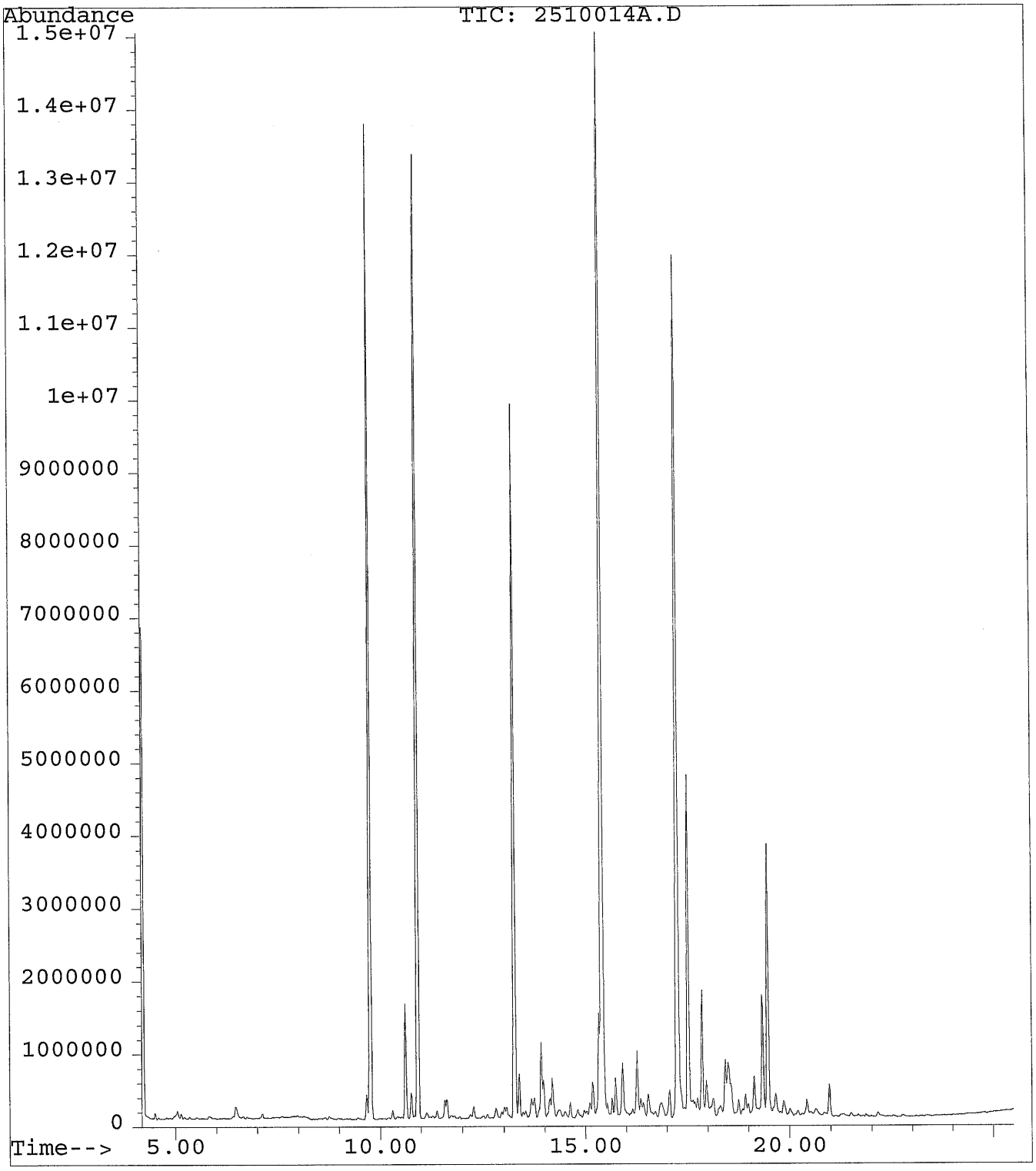
4) Amount ug/m3 = (amt(ppbv) × MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	31970	20.0	12040670	0.216	0.91	1.57
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	12040670	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	124214	20.0	12040670	0.188	0.79	1.04
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	12040670	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	12040670	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	12040670	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	12040670	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	12040670	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	12040670	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	18856	20.0	12040670	0.220	0.93	1.76
12	Acrolein	PFB	TRG	56.1	0.130	18760	20.0	12040670	0.240	1.02	2.34
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	12040670	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	110546	20.0	12040670	0.770	3.26	7.76
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	50798	20.0	12040670	0.085	0.36	0.88
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	12040670	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	12040670	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	12040670	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	12040670	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	12040670	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	12040670	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	12040670	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	19032	20.0	12040670	0.036	0.15	0.47
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	12040670	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	12040670	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	12040670	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	12040670	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	12040670	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	12040670	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	0	20.0	12040670	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	12040670	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	12040670	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	12040670	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	12040670	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	12040670	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	12040670	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	116327	20.0	12040670	0.906	3.84	11.33
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	12040670	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	12040670	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	12040670	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	12040670	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	15181687	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	15181687	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	15181687	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	15181687	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	1802520	20.0	15181687	2.212	9.36	29.95
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	15181687	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	15181687	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	15181687	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	15181687	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	15181687	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	15181687	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	15181687	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	15181687	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	15181687	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	15181687	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	15181687	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	15181687	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	645563	20.0	15181687	0.567	2.40	9.05
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	15181687	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	15181687	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	15181687	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	15181687	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	15181687	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	15181687	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	15181687	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	15181687	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	15181687	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	15725409	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	15725409	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	637850	20.0	15725409	0.456	1.93	8.39
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	769617	20.0	15725409	0.615	2.61	11.33
76	Nonane	d5CB	TRG	128.3	1.278	370024	20.0	15725409	0.368	1.56	8.19
77	Styrene	d5CB	TRG	104.2	1.106	46283	20.0	15725409	0.053	0.23	0.96
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	15725409	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	265124	20.0	15725409	0.203	0.86	3.74
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	15725409	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	15725409	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	15725409	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	15725409	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	15725409	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	126230	20.0	15725409	0.074	0.31	1.54
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	66501	20.0	15725409	0.043	0.18	0.90
87	Decane	d5CB	TRG	142.3	2.327	320000	20.0	15725409	0.175	0.74	4.32
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	15725409	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	125565	20.0	15725409	0.077	0.33	1.61
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	15725409	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	15725409	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	15725409	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	1753124	20.0	15725409	0.765	3.24	17.80
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	15725409	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	15725409	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	15725409	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	15725409	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	15725409	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	15725409	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	125	20.0	15725409	0.002	0.01	0.03
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	15725409	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	15725409	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	12040670	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	15181687	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15725409	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9909055	10.0		10.617	106.17	106

File : C:\MSCHEM\1\DATA\04015A_C\2510014A.D
Operator : DA
Acquired : 1 Apr 125 1:43 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-114
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **15**

Client ID T-115

Analytical Method TO-15

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Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 15**

File Name: 2510015A.D
Description: T-115
Canister: 654
QC_Batch: 040125-MA1

Date Sampled: 03/19/25 **Time:** 12:53
Date Analyzed: 04/01/25 **Time:** 14:20
Can Dilution Factor: 1.27
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.06	1.02	0.73	1.82	1.76	J
75-71-8	Dichlorodifluoromethane	0.64	1.06	ND	3.14	5.24	ND	
67-56-1	Methanol	2.12	2.54	2.49	2.77	3.33	3.26	J
74-87-3	Chloromethane	0.64	1.06	ND	1.31	2.19	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.06	ND	2.96	7.41	ND	
75-01-4	Vinyl chloride	0.21	1.06	ND	0.55	2.71	ND	
106-99-0	1,3-Butadiene	0.21	1.06	ND	0.47	2.34	ND	
74-83-9	Bromomethane	0.42	1.06	ND	1.65	4.11	ND	
75-00-3	Chloroethane	0.42	1.06	ND	1.12	2.80	ND	
64-17-5	Ethanol	2.12	13.59	2.41	4.00	25.66	4.55	J
107-02-8	Acrolein	0.42	1.27	2.51	0.97	2.92	5.77	
75-69-4	Trichlorofluoromethane	0.42	1.06	ND	2.38	5.96	ND	
67-64-1	Acetone	2.12	2.54	21.77	5.04	6.04	51.80	
67-63-0	2-propanol (isopropylalcohol)	0.85	5.29	129.21	2.08	13.02	318.03	
75-65-0	t-Butyl alcohol	0.42	4.23	0.47	1.28	12.85	1.44	J
4227-95-6	Methyl iodide	0.42	1.27	ND	2.48	7.43	ND	
75-35-4	1,1-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
107-13-1	Acrylonitrile	0.85	1.27	ND	1.84	2.76	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.06	ND	1.62	8.12	ND	
107-05-1	Allyl chloride	0.21	4.23	ND	0.66	13.26	ND	
75-09-2	Methylene chloride	0.21	1.06	ND	0.74	3.68	ND	
75-15-0	Carbon disulfide	0.42	1.06	ND	1.32	3.30	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.85	ND	0.84	3.36	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.85	ND	1.53	3.05	ND	
107-12-0	Propionitrile	1.06	1.69	ND	2.39	3.82	ND	
75-34-3	1,1-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.06	ND	1.77	4.43	ND	
108-05-4	Vinyl acetate	0.21	4.23	ND	0.75	14.93	ND	
78-93-3	2-Butanone (MEK)	0.42	1.27	5.47	1.25	3.75	16.16	
108-20-3	Diisopropyl ether	0.42	2.54	ND	1.77	10.63	ND	
110-54-3	Hexane	0.42	1.06	ND	1.49	3.74	ND	
126-98-7	Methacrylonitrile	0.42	1.06	ND	1.16	2.91	ND	
141-78-6	Ethyl acetate	0.42	1.06	ND	1.53	3.82	ND	
74-97-5	Bromochloromethane	0.21	1.06	ND	1.12	5.61	ND	
96-33-3	Methyl acrylate	0.42	2.12	ND	1.49	7.46	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.27	1.75	0.63	3.75	5.17	
78-83-1	Isobutyl alcohol	0.85	3.39	ND	2.57	10.28	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
594-20-7	2,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
67-66-3	Chloroform	0.21	1.06	ND	1.04	5.18	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
107-06-2	1,2-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
563-58-6	1,1-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
110-82-7	Cyclohexane	0.21	1.06	ND	0.73	3.65	ND	
71-43-2	Benzene	1.48	2.12	2.16	4.74	6.77	6.92	
56-23-5	Carbon tetrachloride	0.21	1.06	ND	1.33	6.67	ND	
994-05-8	t-Amyl methyl ether	0.42	2.12	ND	1.77	8.86	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.06	ND	0.99	4.95	ND	
142-82-5	n-Heptane	0.42	1.06	ND	1.74	4.34	ND	
78-87-5	1,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
123-91-1	1,4 Dioxane	0.42	2.12	ND	1.53	7.64	ND	
74-95-3	Dibromomethane	0.21	1.06	ND	1.51	7.53	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.06	ND	0.57	5.70	ND	
75-27-4	Bromodichloromethane	0.21	1.06	ND	1.42	7.10	ND	
80-62-6	Methyl methacrylate	0.42	1.06	ND	1.74	4.34	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.39	0.53	1.74	13.90	2.17	J
10061-01-5	cis-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
108-88-3	Toluene	0.85	1.06	ND	3.19	3.99	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
97-63-2	Ethyl methacrylate	0.42	1.06	ND	1.98	4.95	ND	
591-78-6	2-Hexanone	0.42	3.39	0.47	1.74	13.90	1.95	J
142-28-9	1,3-Dichloropropane	0.21	2.96	ND	0.98	13.71	ND	
111-65-9	Octane	0.42	1.06	ND	1.98	4.95	ND	
124-48-1	Dibromochloromethane	0.42	1.06	ND	3.61	9.03	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.06	ND	3.26	8.14	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.06	ND	0.72	7.19	ND	
108-90-7	Chlorobenzene	0.42	1.06	ND	1.95	4.88	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.06	ND	2.91	7.27	ND	
100-41-4	Ethylbenzene	0.42	1.06	ND	1.84	4.60	ND	
1330-20-7	m,p-Xylenes	0.42	1.06	ND	1.84	4.60	ND	
111-84-2	Nonane	0.42	1.06	ND	2.22	5.56	ND	
100-42-5	Styrene	0.64	1.06	ND	2.71	4.52	ND	
75-25-2	Bromoform	0.42	1.06	ND	4.38	10.95	ND	
95-47-6	o-Xylene	0.42	1.06	ND	1.84	4.60	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.85	2.12	ND	5.82	14.55	ND	
96-18-4	1,2,3-Trichloropropane	0.85	2.54	ND	5.11	15.33	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.85	2.54	ND	4.33	13.00	ND	
103-65-1	n-Propylbenzene	0.85	2.96	ND	4.17	14.59	ND	
98-82-8	Isopropylbenzene	0.85	2.96	ND	4.17	14.59	ND	
622-96-8	4-Ethyltoluene	0.85	6.77	ND	4.17	33.34	ND	
108-67-8	1,3,5-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
124-18-5	Decane	0.85	2.54	ND	4.93	14.80	ND	
98-06-6	tert-butyl benzene	0.85	2.54	ND	4.65	13.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
538-93-2	i-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
135-98-8	sec-butylbenzene	0.85	2.96	ND	4.65	16.29	ND	
541-73-1	1,3-Dichlorobenzene	0.85	3.39	ND	5.10	20.39	ND	
99-87-6	Isopropyltoluene	0.85	2.54	ND	4.65	13.96	ND	
100-44-7	Benzyl chloride	0.85	2.12	ND	4.39	10.97	ND	
106-46-7	1,4-Dichlorobenzene	0.85	2.12	ND	5.10	12.74	ND	
104-51-8	n-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
95-50-1	1,2-Dichlorobenzene	0.85	2.96	ND	5.10	17.84	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.27	2.96	ND	12.29	28.68	ND	
120-82-1	1,2,4-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
91-20-3	Naphthalene	2.12	0.42	ND	11.11	2.22	ND	
87-61-6	1,2,3-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
87-68-3	Hexachlorobutadiene	1.06	1.27	ND	11.30	13.56	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	129	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**15**		
File Name:	2510015A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/19/25**	**Time:**	**12:53**
Sample ID:	T-115	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/01/25**	**Time:**	**14:20**
Anal Date:	1 Apr 125 2:20 pm	**SF:**	**2**	**QCbatch:**	**040125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**654**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.27**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	DA	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.5**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.241	4.41	42.00	30955
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.588	4.86	31.00	338150
74-87-3	Chloromethane	5	TRG	0.001	4.77	50.00	245
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.569	5.72	46.00	42292
107-02-8	Acrolein	12	TRG	0.593	6.32	56.00	40165
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	5.142	6.42	58.00	640898
67-63-0	2-propanol (isopropylalcoh	15	TRG	30.522	6.45	45.00	15879463
75-65-0	t-Butyl alcohol	16	TRG	0.112	7.03	59.00	53126
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	1.292	8.75	72.00	134978
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.064	9.17	61.00	25832
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.414	9.72	72.00	46103
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.511	10.70	78.00	342416
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.125	12.55	58.00	39765
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.102	13.50	91.00	95608
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.112	13.79	58.00	59591
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.043	15.90	106	60816
1330-20-7	m,p-Xylenes	75	TRG	0.062	16.06	91.00	78414
111-84-2	Nonane	76	TRG	0.031	16.43	57.00	31689
100-42-5	Styrene	77	TRG	0.053	16.61	104.00	47261
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.023	16.54	91.00	29979
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.015	18.23	105.00	25294
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.031	18.31	105.00	48963
124-18-5	Decane	87	TRG	0.019	18.60	57.00	35354
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.025	18.95	105.00	41175
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.120	19.53	119.00	279900
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.008	20.20	91.00	21619
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**10452266**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**12488034**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15987245**
2037-26-5	Toluene-d8	103	SURR	12.925	13.40	98.00	**9922637**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**		EDD SURR:	PERCENT		IS LCL	50		Gas Constant						
Laboratory Number:	**15**		Sam Type:	SA		IS UCL	200		T	24.5					
File Name:	2510015A.D		Instrument:	MA1		SUR LCL	70		P	760					
Run Method:	A1563_P.M		DETECT:	ND		SUR UCL	130		MV	24.417					
Can Factor:	1.27		Matrix:	AA		MDL Factor	1.0		GC	24.417					
Air Volume:	300.0	ml	Type:	TRG		E Flag	1.5								
Can/Tube Number:	654		Diluton:	0.3810											
Dilution Factor:	0.3810		Sig Figs:	2											
Base Volume:	1000	ml	MDLSF:	2											
Unit Factor (ppbv):	1000	PPBV	UG/M3		Fixed	Fixed	Fixed	Fixed	(1)	(2)	Calc	Calc	Calc		
	M.W.	Raw	ResultV	Result	Result	Result	ResultQ	ResultG	MDL	RL	MDL	MDL	RL		
Compound		Amount	PPBV	UG/M3	PPBV	UG/M3	UG/M3	UG/M3		PPBV	PPBV	UG/M3	PPBV		
Propylene	42.08	0.24	1.02	1.76	1.02	1.76	1.76	1.76	0.100	0.250	0.42	0.73	1.06		
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.64	3.14	1.06		
Methanol	32.0	0.59	2.49	3.26	2.49	3.26	3.26	3.26	0.500	0.600	2.12	2.77	2.54		
Chloromethane	50.5	0.00	0.01	0.01	ND	ND	0		0.150	0.250	0.64	1.31	1.06		
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.96	1.06		
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.55	1.06		
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.47	1.06		
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.65	1.06		
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.12	1.06		
Ethanol	46.1	0.57	2.41	4.55	2.41	4.55	4.55	4.55	0.500	3.210	2.12	4.00	13.59		
Acrolein	56.1	0.59	2.51	5.77	2.51	5.77	5.77	5.77	0.100	0.300	0.42	0.97	1.27		
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.38	1.06		
Acetone	58.1	5.14	21.77	51.80	21.77	51.80	51.80	51.80	0.500	0.600	2.12	5.04	2.54		
2-propanol (isopropylalcohol)	60.1	30.52	129.21	318.03	129.21	318.03	318.03	318.03	0.200	1.250	0.85	2.08	5.29		
t-Butyl alcohol	74.1	0.11	0.47	1.44	0.47	1.44	1.44	1.44	0.100	1.000	0.42	1.28	4.23		
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.42	2.48	1.27		
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.06		
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.85	1.84	1.27		
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.62	1.06		
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.66	4.23		
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.74	1.06		
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.32	1.06		
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.21	0.84	0.85		
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.42	1.53	0.85		
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.06	2.39	1.69		
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.86	1.06		
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.77	1.06		
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.75	4.23		
2-Butanone (MEK)	72.1	1.29	5.47	16.16	5.47	16.16	16.16	16.16	0.100	0.300	0.42	1.25	1.27		
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.42	1.77	2.54		
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.49	1.06		
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.16	1.06		
Ethyl acetate	88.1	0.06	0.27	0.98	ND	ND	0		0.100	0.250	0.42	1.53	1.06		
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.12	1.06		
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.49	2.12		
Tetrahydrofuran	72.1	0.41	1.75	5.17	1.75	5.17	5.17	5.17	0.050	0.300	0.21	0.63	1.27		
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.85	2.57	3.39		
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.06		
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.98	1.06		
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.04	1.06		
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.16	1.06		
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.86	1.06		
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06		
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.73	1.06		
Benzene	78.1	0.51	2.16	6.92	2.16	6.92	6.92	6.92	0.350	0.500	1.48	4.74	2.12		
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.33	1.06		
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.77	2.12		
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.99	1.06		
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.74	1.06		

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.98	1.06
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.53	2.12
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.51	1.06
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.57	1.06
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.42	1.06
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.74	1.06
4-Methyl-2-pentanone (MIBK)	100.2	0.12	0.53	2.17	0.53	2.17	2.17	2.17	0.100	0.800	0.42	1.74	3.39
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06
Toluene	92.1	0.10	0.43	1.63	ND	ND	0		0.200	0.250	0.85	3.19	1.06
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.16	1.06
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.98	1.06
2-Hexanone	100.2	0.11	0.47	1.95	0.47	1.95	1.95	1.95	0.100	0.800	0.42	1.74	3.39
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.21	0.98	2.96
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.98	1.06
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.61	1.06
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.26	1.06
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.72	1.06
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.95	1.06
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.91	1.06
Ethylbenzene	106.2	0.04	0.18	0.79	ND	ND	0		0.100	0.250	0.42	1.84	1.06
m,p-Xylenes	106.2	0.06	0.26	1.14	ND	ND	0		0.100	0.250	0.42	1.84	1.06
Nonane	128.3	0.03	0.13	0.69	ND	ND	0		0.100	0.250	0.42	2.22	1.06
Styrene	104.2	0.05	0.23	0.97	ND	ND	0		0.150	0.250	0.64	2.71	1.06
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	4.38	1.06
o-Xylene	106.2	0.02	0.10	0.42	ND	ND	0		0.100	0.250	0.42	1.84	1.06
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	5.82	2.12
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	5.11	2.54
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.33	2.54
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.17	2.96
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.17	2.96
4-Ethyltoluene	120.2	0.01	0.06	0.30	ND	ND	0		0.200	1.600	0.85	4.17	6.77
1,3,5-Trimethylbenzene	120.2	0.03	0.13	0.65	ND	ND	0		0.200	0.900	0.85	4.17	3.81
Decane	142.3	0.02	0.08	0.47	ND	ND	0		0.200	0.600	0.85	4.93	2.54
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.65	2.54
1,2,4-Trimethylbenzene	120.2	0.02	0.11	0.52	ND	ND	0		0.200	0.900	0.85	4.17	3.81
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.65	2.54
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.65	2.96
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.85	5.10	3.39
Isopropyltoluene	134.2	0.12	0.51	2.80	ND	ND	0		0.200	0.600	0.85	4.65	2.54
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	4.39	2.12
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	5.10	2.12
n-Butylbenzene	134.2	0.01	0.04	0.19	ND	ND	0		0.200	0.600	0.85	4.65	2.54
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	5.10	2.96
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.27	12.29	2.96
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.27	9.44	2.12
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.12	11.11	0.42
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.27	9.44	2.12
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.06	11.30	1.27
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		12.92	129	129	129	129	129	129	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.82	J	J		=		Y	1.02	1.76
5.24	U	ND		ND		Y	0.00	0.00
3.33	J	J		=		Y	2.49	3.26
2.19	U	ND		ND		Y	0.00	0.00
7.41	U	ND		ND		Y	0.00	0.00
2.71	U	ND		ND		Y	0.00	0.00
2.34	U	ND		ND		Y	0.00	0.00
4.11	U	ND		ND		Y	0.00	0.00
2.80	U	ND		ND		Y	0.00	0.00
25.66	J	J		=		Y	2.41	4.55
2.92				=		Y	2.51	5.77
5.96	U	ND		ND		Y	0.00	0.00
6.04				=		Y	21.77	51.80
13.02				=		Y	129.21	318.03
12.85	J	J		=		Y	0.47	1.44
7.43	U	ND		ND		Y	0.00	0.00
4.20	U	ND		ND		Y	0.00	0.00
2.76	U	ND		ND		Y	0.00	0.00
8.12	U	ND		ND		Y	0.00	0.00
13.26	U	ND		ND		Y	0.00	0.00
3.68	U	ND		ND		Y	0.00	0.00
3.30	U	ND		ND		Y	0.00	0.00
3.36	U	ND		ND		Y	0.00	0.00
3.05	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
4.29	U	ND		ND		Y	0.00	0.00
4.43	U	ND		ND		Y	0.00	0.00
14.93	U	ND		ND		Y	0.00	0.00
3.75				=		Y	5.47	16.16
10.63	U	ND		ND		Y	0.00	0.00
3.74	U	ND		ND		Y	0.00	0.00
2.91	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
5.61	U	ND		ND		Y	0.00	0.00
7.46	U	ND		ND		Y	0.00	0.00
3.75				=		Y	1.75	5.17
10.28	U	ND		ND		Y	0.00	0.00
4.20	U	ND		ND		Y	0.00	0.00
4.90	U	ND		ND		Y	0.00	0.00
5.18	U	ND		ND		Y	0.00	0.00
5.78	U	ND		ND		Y	0.00	0.00
4.29	U	ND		ND		Y	0.00	0.00
4.81	U	ND		ND		Y	0.00	0.00
3.65	U	ND		ND		Y	0.00	0.00
6.77				=		Y	2.16	6.92
6.67	U	ND		ND		Y	0.00	0.00
8.86	U	ND		ND		Y	0.00	0.00
4.95	U	ND		ND		Y	0.00	0.00
4.34	U	ND		ND		Y	0.00	0.00

4.90	U	ND	ND	Y	0.00	0.00
7.64	U	ND	ND	Y	0.00	0.00
7.53	U	ND	ND	Y	0.00	0.00
5.70	U	ND	ND	Y	0.00	0.00
7.10	U	ND	ND	Y	0.00	0.00
4.34	U	ND	ND	Y	0.00	0.00
13.90	J	J	=	Y	0.53	2.17
4.81	U	ND	ND	Y	0.00	0.00
3.99	U	ND	ND	Y	0.00	0.00
4.81	U	ND	ND	Y	0.00	0.00
5.78	U	ND	ND	Y	0.00	0.00
4.95	U	ND	ND	Y	0.00	0.00
13.90	J	J	=	Y	0.47	1.95
13.71	U	ND	ND	Y	0.00	0.00
4.95	U	ND	ND	Y	0.00	0.00
9.03	U	ND	ND	Y	0.00	0.00
8.14	U	ND	ND	Y	0.00	0.00
7.19	U	ND	ND	Y	0.00	0.00
4.88	U	ND	ND	Y	0.00	0.00
7.27	U	ND	ND	Y	0.00	0.00
4.60	U	ND	ND	Y	0.00	0.00
4.60	U	ND	ND	Y	0.00	0.00
5.56	U	ND	ND	Y	0.00	0.00
4.52	U	ND	ND	Y	0.00	0.00
10.95	U	ND	ND	Y	0.00	0.00
4.60	U	ND	ND	Y	0.00	0.00
14.55	U	ND	ND	Y	0.00	0.00
15.33	U	ND	ND	Y	0.00	0.00
13.00	U	ND	ND	Y	0.00	0.00
14.59	U	ND	ND	Y	0.00	0.00
14.59	U	ND	ND	Y	0.00	0.00
33.34	U	ND	ND	Y	0.00	0.00
18.76	U	ND	ND	Y	0.00	0.00
14.80	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
18.76	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
16.29	U	ND	ND	Y	0.00	0.00
20.39	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
10.97	U	ND	ND	Y	0.00	0.00
12.74	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
17.84	U	ND	ND	Y	0.00	0.00
28.68	U	ND	ND	Y	0.00	0.00
15.73	U	ND	ND	Y	0.00	0.00
2.22	U	ND	ND	Y	0.00	0.00
15.73	U	ND	ND	Y	0.00	0.00
13.56	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**15**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.27
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\frac{(Astdni)\ (Cistdi)}{(Cstdni)\ (Aistdi)}$ Note: 1 i

2) Raw Amt = $\frac{(Ansamp)\ (Cistdi)}{(Avg\ RFn)\ (Aistdi)}$ = **Cn**

3) Amount ppbv = $\frac{(Raw\ Amt)\ 1000\ (CDF)}{(SV)}$

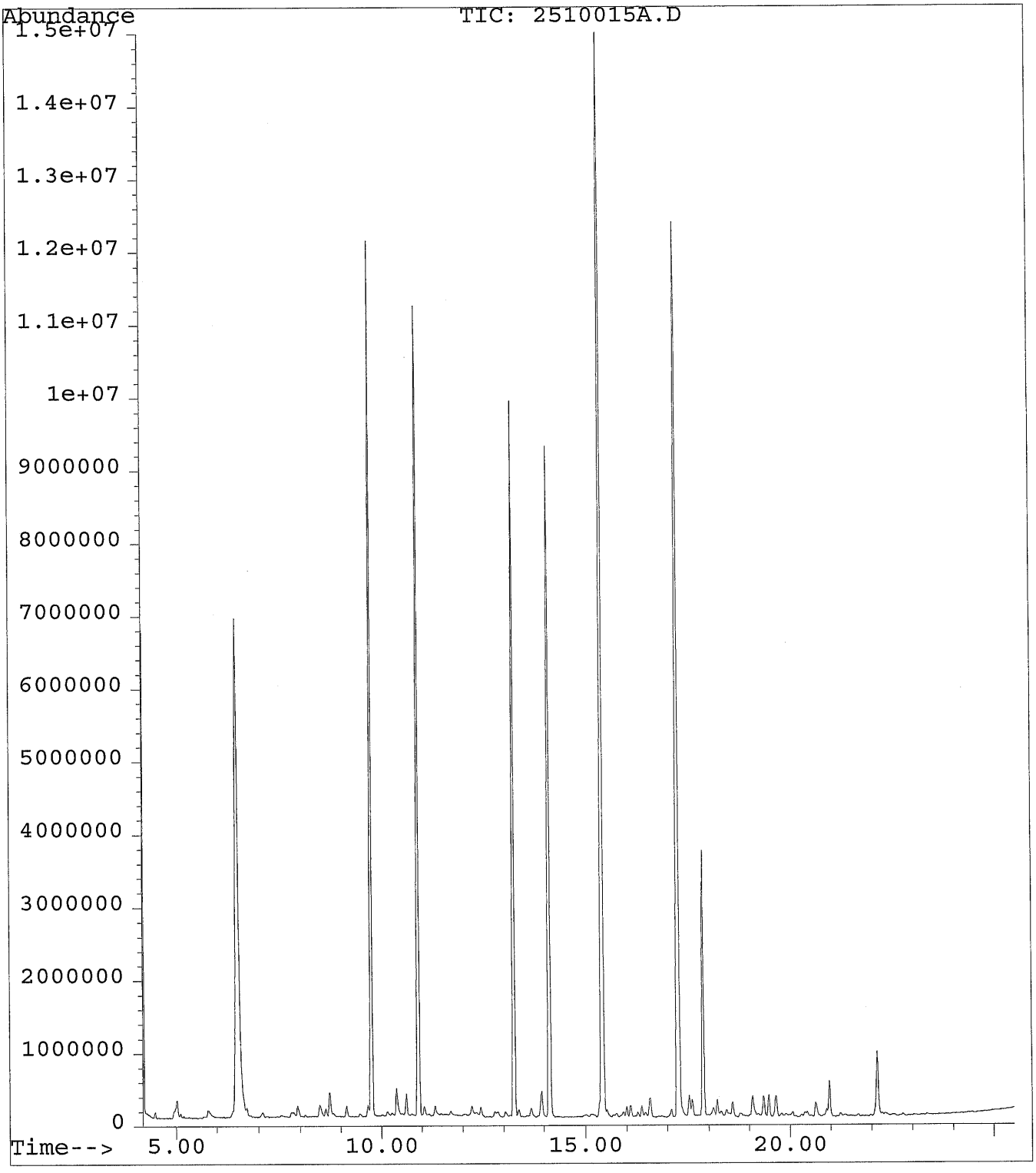
4) Amount ug/m3 = $\frac{(amt(ppbv)\ MW}{24.42}$

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	30955	20.0	10452266	0.241	1.02	1.76
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	10452266	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	338150	20.0	10452266	0.588	2.49	3.26
5	Chloromethane	PFB	TRG	50.5	0.391	245	20.0	10452266	0.001	0.01	0.01
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	10452266	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	10452266	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	10452266	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	10452266	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	10452266	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	42292	20.0	10452266	0.569	2.41	4.55
12	Acrolein	PFB	TRG	56.1	0.130	40165	20.0	10452266	0.593	2.51	5.77
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	10452266	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	640898	20.0	10452266	5.142	21.77	51.80
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	15879463	20.0	10452266	30.522	129.21	318.03
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	53126	20.0	10452266	0.112	0.47	1.44
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	10452266	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	10452266	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	10452266	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	10452266	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	10452266	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	10452266	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	10452266	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	10452266	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	10452266	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	10452266	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	10452266	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	10452266	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	10452266	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	134978	20.0	10452266	1.292	5.47	16.16
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	10452266	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	10452266	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	10452266	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	25832	20.0	10452266	0.064	0.27	0.98
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	10452266	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	10452266	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	46103	20.0	10452266	0.414	1.75	5.17
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	10452266	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	10452266	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	10452266	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	10452266	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	12488034	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	12488034	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	12488034	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	12488034	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	342416	20.0	12488034	0.511	2.16	6.92
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	12488034	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	12488034	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	12488034	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	12488034	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	12488034	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	12488034	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	12488034	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	12488034	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	12488034	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	12488034	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	39765	20.0	12488034	0.125	0.53	2.17
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	12488034	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	95608	20.0	12488034	0.102	0.43	1.63
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	12488034	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	12488034	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	12488034	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	59591	20.0	12488034	0.112	0.47	1.95
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	12488034	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	12488034	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	12488034	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	12488034	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	12488034	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	15987245	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	15987245	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	60816	20.0	15987245	0.043	0.18	0.79
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	78414	20.0	15987245	0.062	0.26	1.14
76	Nonane	d5CB	TRG	128.3	1.278	31689	20.0	15987245	0.031	0.13	0.69
77	Styrene	d5CB	TRG	104.2	1.106	47261	20.0	15987245	0.053	0.23	0.97
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	15987245	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	29979	20.0	15987245	0.023	0.10	0.42
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	15987245	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	15987245	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	15987245	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	15987245	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	15987245	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	25294	20.0	15987245	0.015	0.06	0.30
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	48963	20.0	15987245	0.031	0.13	0.65
87	Decane	d5CB	TRG	142.3	2.327	35354	20.0	15987245	0.019	0.08	0.47
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	15987245	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	41175	20.0	15987245	0.025	0.11	0.52
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	15987245	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	15987245	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	15987245	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	279900	20.0	15987245	0.120	0.51	2.80
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	15987245	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	15987245	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	21619	20.0	15987245	0.008	0.04	0.19
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	15987245	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	15987245	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	15987245	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	15987245	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	15987245	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	15987245	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	10452266	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	12488034	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15987245	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9922637	10.0		12.925	129.25	129

File : C:\MSCHEM\1\DATA\04015A_C\2510015A.D
Operator : DA
Acquired : 1 Apr 125 2:20 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-115
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **16**

Client ID T-116

Analytical Method TO-15

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Analytical Report
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Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 16**

File Name: 2510016A.D **Date Sampled:** 03/19/25 **Time:** 13:03
Description: T-116 **Date Analyzed:** 04/01/25 **Time:** 15:34
Canister: 782 **Can Dilution Factor:** 1.48
QC_Batch: 040125-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.49	1.23	1.02	0.85	2.13	1.76	J
75-71-8	Dichlorodifluoromethane	0.74	1.23	ND	3.66	6.11	ND	
67-56-1	Methanol	2.47	2.96	ND	3.23	3.88	ND	
74-87-3	Chloromethane	0.74	1.23	ND	1.53	2.55	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.49	1.23	ND	3.45	8.63	ND	
75-01-4	Vinyl chloride	0.25	1.23	ND	0.64	3.16	ND	
106-99-0	1,3-Butadiene	0.25	1.23	ND	0.55	2.73	ND	
74-83-9	Bromomethane	0.49	1.23	ND	1.92	4.79	ND	
75-00-3	Chloroethane	0.49	1.23	ND	1.30	3.26	ND	
64-17-5	Ethanol	2.47	15.84	ND	4.66	29.90	ND	
107-02-8	Acrolein	0.49	1.48	2.63	1.13	3.40	6.05	
75-69-4	Trichlorofluoromethane	0.49	1.23	ND	2.78	6.94	ND	
67-64-1	Acetone	2.47	2.96	6.10	5.87	7.04	14.52	
67-63-0	2-propanol (isopropylalcohol)	0.99	6.17	ND	2.43	15.18	ND	
75-65-0	t-Butyl alcohol	0.49	4.93	ND	1.50	14.97	ND	
4227-95-6	Methyl iodide	0.49	1.48	ND	2.89	8.66	ND	
75-35-4	1,1-Dichloroethene	0.25	1.23	ND	0.98	4.89	ND	
107-13-1	Acrylonitrile	0.99	1.48	ND	2.15	3.22	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	1.23	ND	1.89	9.47	ND	
107-05-1	Allyl chloride	0.25	4.93	ND	0.77	15.46	ND	
75-09-2	Methylene chloride	0.25	1.23	ND	0.86	4.29	ND	
75-15-0	Carbon disulfide	0.49	1.23	0.83	1.54	3.84	2.58	J
156-60-5	trans-1,2-Dichloroethene	0.25	0.99	ND	0.98	3.92	ND	
1634-04-4	Methyl tert butyl ether	0.49	0.99	ND	1.78	3.56	ND	
107-12-0	Propionitrile	1.23	1.97	ND	2.78	4.45	ND	
75-34-3	1,1-Dichloroethane	0.25	1.23	ND	1.00	5.00	ND	
637-92-3	Ethyl tert butyl ether	0.49	1.23	ND	2.06	5.16	ND	
108-05-4	Vinyl acetate	0.25	4.93	ND	0.87	17.40	ND	
78-93-3	2-Butanone (MEK)	0.49	1.48	0.72	1.46	4.37	2.14	J
108-20-3	Diisopropyl ether	0.49	2.96	ND	2.06	12.39	ND	
110-54-3	Hexane	0.49	1.23	ND	1.74	4.35	ND	
126-98-7	Methacrylonitrile	0.49	1.23	ND	1.36	3.39	ND	
141-78-6	Ethyl acetate	0.49	1.23	ND	1.78	4.45	ND	
74-97-5	Bromochloromethane	0.25	1.23	ND	1.31	6.54	ND	
96-33-3	Methyl acrylate	0.49	2.47	ND	1.74	8.70	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.25	1.48	ND	0.73	4.37	ND	
78-83-1	Isobutyl alcohol	0.99	3.95	ND	2.99	11.98	ND	
156-59-2	cis-1,2-Dichloroethene	0.25	1.23	ND	0.98	4.89	ND	
594-20-7	2,2-Dichloropropane	0.25	1.23	ND	1.14	5.71	ND	
67-66-3	Chloroform	0.25	1.23	ND	1.21	6.03	ND	
71-55-6	1,1,1-Trichloroethane	0.25	1.23	ND	1.35	6.74	ND	
107-06-2	1,2-Dichloroethane	0.25	1.23	ND	1.00	5.00	ND	
563-58-6	1,1-Dichloropropene	0.25	1.23	ND	1.12	5.61	ND	
110-82-7	Cyclohexane	0.25	1.23	ND	0.85	4.25	ND	
71-43-2	Benzene	1.73	2.47	2.76	5.52	7.89	8.84	
56-23-5	Carbon tetrachloride	0.25	1.23	ND	1.55	7.77	ND	
994-05-8	t-Amyl methyl ether	0.49	2.47	ND	2.06	10.32	ND	
540-84-1	2,2,4-Trimethylpentane	0.25	1.23	ND	1.15	5.77	ND	
142-82-5	n-Heptane	0.49	1.23	ND	2.02	5.06	ND	
78-87-5	1,2-Dichloropropane	0.25	1.23	ND	1.14	5.71	ND	
123-91-1	1,4 Dioxane	0.49	2.47	ND	1.78	8.90	ND	
74-95-3	Dibromomethane	0.25	1.23	ND	1.76	8.78	ND	
79-01-6	Trichloroethene (TCE)	0.12	1.23	ND	0.66	6.64	ND	
75-27-4	Bromodichloromethane	0.25	1.23	ND	1.65	8.27	ND	
80-62-6	Methyl methacrylate	0.49	1.23	ND	2.02	5.06	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.49	3.95	ND	2.02	16.20	ND	
10061-01-5	cis-1,3-Dichloropropene	0.25	1.23	ND	1.12	5.61	ND	
108-88-3	Toluene	0.99	1.23	ND	3.72	4.65	ND	
10061-02-6	trans-1,3-Dichloropropene	0.25	1.23	ND	1.12	5.61	ND	
79-00-5	1,1,2-Trichloroethane	0.25	1.23	ND	1.35	6.74	ND	
97-63-2	Ethyl methacrylate	0.49	1.23	ND	2.31	5.77	ND	
591-78-6	2-Hexanone	0.49	3.95	ND	2.02	16.20	ND	
142-28-9	1,3-Dichloropropane	0.25	3.45	ND	1.14	15.98	ND	
111-65-9	Octane	0.49	1.23	ND	2.31	5.77	ND	
124-48-1	Dibromochloromethane	0.49	1.23	ND	4.21	10.52	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.49	1.23	ND	3.80	9.49	ND	
127-18-4	Tetrachloroethene (PCE)	0.12	1.23	ND	0.84	8.37	ND	
108-90-7	Chlorobenzene	0.49	1.23	ND	2.28	5.69	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.49	1.23	ND	3.39	8.48	ND	
100-41-4	Ethylbenzene	0.49	1.23	ND	2.15	5.36	ND	
1330-20-7	m,p-Xylenes	0.49	1.23	ND	2.15	5.36	ND	
111-84-2	Nonane	0.49	1.23	ND	2.59	6.48	ND	
100-42-5	Styrene	0.74	1.23	ND	3.16	5.26	ND	
75-25-2	Bromoform	0.49	1.23	ND	5.11	12.76	ND	
95-47-6	o-Xylene	0.49	1.23	ND	2.15	5.36	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.99	2.47	ND	6.78	16.95	ND	
96-18-4	1,2,3-Trichloropropane	0.99	2.96	ND	5.96	17.87	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.99	2.96	ND	5.05	15.15	ND	
103-65-1	n-Propylbenzene	0.99	3.45	ND	4.86	17.00	ND	
98-82-8	Isopropylbenzene	0.99	3.45	ND	4.86	17.00	ND	
622-96-8	4-Ethyltoluene	0.99	7.89	ND	4.86	38.86	ND	
108-67-8	1,3,5-Trimethylbenzene	0.99	4.44	ND	4.86	21.86	ND	
124-18-5	Decane	0.99	2.96	ND	5.75	17.25	ND	
98-06-6	tert-butyl benzene	0.99	2.96	ND	5.42	16.27	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.99	4.44	ND	4.86	21.86	ND	
538-93-2	i-Butylbenzene	0.99	2.96	ND	5.42	16.27	ND	
135-98-8	sec-butylbenzene	0.99	3.45	ND	5.42	18.98	ND	
541-73-1	1,3-Dichlorobenzene	0.99	3.95	ND	5.94	23.76	ND	
99-87-6	Isopropyltoluene	0.99	2.96	ND	5.42	16.27	ND	
100-44-7	Benzyl chloride	0.99	2.47	ND	5.12	12.79	ND	
106-46-7	1,4-Dichlorobenzene	0.99	2.47	ND	5.94	14.85	ND	
104-51-8	n-Butylbenzene	0.99	2.96	ND	5.42	16.27	ND	
95-50-1	1,2-Dichlorobenzene	0.99	3.45	ND	5.94	20.79	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.48	3.45	ND	14.32	33.42	ND	
120-82-1	1,2,4-Trichlorobenzene	1.48	2.47	ND	11.00	18.33	ND	
91-20-3	Naphthalene	2.47	0.49	ND	12.95	2.59	ND	
87-61-6	1,2,3-Trichlorobenzene	1.48	2.47	ND	11.00	18.33	ND	
87-68-3	Hexachlorobutadiene	1.23	1.48	ND	13.17	15.81	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	122	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**16**		
File Name:	2510016A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/19/25**	**Time:**	**13:03**
Sample ID:	T-116	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/01/25**	**Time:**	**15:34**
Anal Date:	1 Apr 125 3:34 pm	**SF:**	**2**	**QCbatch:**	**040125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**782**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.48**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	DA	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.5**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.207	4.41	42.00	27061
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.401	4.86	31.00	234073
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.221	5.72	46.00	16730
107-02-8	Acrolein	12	TRG	0.534	6.32	56.00	36788
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	1.237	6.42	58.00	156750
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.164	6.45	45.00	86937
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.168	7.61	76.00	78795
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.147	8.75	72.00	15574
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.560	10.70	78.00	396195
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.072	13.50	91.00	71403
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.029	15.90	106	39859
1330-20-7	m,p-Xylenes	75	TRG	0.037	16.06	91.00	46559
111-84-2	Nonane	76	TRG	0.024	16.43	57.00	24447
100-42-5	Styrene	77	TRG	0.039	16.61	104.00	33547
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.015	16.55	91.00	19623
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.016	18.23	105.00	27375
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.019	18.31	105.00	28307
124-18-5	Decane	87	TRG	0.014	18.60	57.00	26048
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.018	18.95	105.00	29215
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.057	19.53	119.00	130833
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.007	20.20	91.00	17829
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**10626534**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**13179278**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15643607**
2037-26-5	Toluene-d8	103	SURR	12.199	13.40	98.00	**9883640**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**16**
File Name:	2510016A.D
Run Method:	A1563_P.M
Can Factor:	1.48
Air Volume:	300.0 ml
Can/Tube Number:	782
Dilution Factor:	0.4440
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.4440
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.5

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.21	1.02	1.76	1.02	1.76	1.76	1.76	0.100	0.250	0.49	0.85	1.23
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.74	3.66	1.23
Methanol	32.0	0.40	1.98	2.59	ND	ND	0		0.500	0.600	2.47	3.23	2.96
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.74	1.53	1.23
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.49	3.45	1.23
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	0.64	1.23
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	0.55	1.23
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.49	1.92	1.23
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.49	1.30	1.23
Ethanol	46.1	0.22	1.09	2.06	ND	ND	0		0.500	3.210	2.47	4.66	15.84
Acrolein	56.1	0.53	2.63	6.05	2.63	6.05	6.05	6.05	0.100	0.300	0.49	1.13	1.48
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.49	2.78	1.23
Acetone	58.1	1.24	6.10	14.52	6.10	14.52	14.52	14.52	0.500	0.600	2.47	5.87	2.96
2-propanol (isopropylalcohol)	60.1	0.16	0.81	2.00	ND	ND	0		0.200	1.250	0.99	2.43	6.17
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.49	1.50	4.93
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.49	2.89	1.48
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	0.98	1.23
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.99	2.15	1.48
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.89	1.23
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.25	0.77	4.93
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	0.86	1.23
Carbon disulfide	76.1	0.17	0.83	2.58	0.83	2.58	2.58	2.58	0.100	0.250	0.49	1.54	1.23
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.25	0.98	0.99
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.49	1.78	0.99
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.23	2.78	1.97
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.00	1.23
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.49	2.06	1.23
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.25	0.87	4.93
2-Butanone (MEK)	72.1	0.15	0.72	2.14	0.72	2.14	2.14	2.14	0.100	0.300	0.49	1.46	1.48
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.49	2.06	2.96
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.49	1.74	1.23
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.49	1.36	1.23
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.49	1.78	1.23
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.31	1.23
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.49	1.74	2.47
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.25	0.73	1.48
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.99	2.99	3.95
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	0.98	1.23
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.14	1.23
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.21	1.23
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.35	1.23
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.00	1.23
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.12	1.23
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	0.85	1.23
Benzene	78.1	0.56	2.76	8.84	2.76	8.84	8.84	8.84	0.350	0.500	1.73	5.52	2.47
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.55	1.23
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.49	2.06	2.47
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.15	1.23
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.49	2.02	1.23

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.14	1.23
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.49	1.78	2.47
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.76	1.23
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.12	0.66	1.23
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.65	1.23
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.49	2.02	1.23
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.49	2.02	3.95
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.12	1.23
Toluene	92.1	0.07	0.36	1.34	ND	ND	0		0.200	0.250	0.99	3.72	1.23
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.12	1.23
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.35	1.23
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.49	2.31	1.23
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.49	2.02	3.95
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.25	1.14	3.45
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.49	2.31	1.23
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.49	4.21	1.23
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.49	3.80	1.23
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.12	0.84	1.23
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.49	2.28	1.23
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.49	3.39	1.23
Ethylbenzene	106.2	0.03	0.14	0.61	ND	ND	0		0.100	0.250	0.49	2.15	1.23
m,p-Xylenes	106.2	0.04	0.18	0.80	ND	ND	0		0.100	0.250	0.49	2.15	1.23
Nonane	128.3	0.02	0.12	0.63	ND	ND	0		0.100	0.250	0.49	2.59	1.23
Styrene	104.2	0.04	0.19	0.82	ND	ND	0		0.150	0.250	0.74	3.16	1.23
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.49	5.11	1.23
o-Xylene	106.2	0.02	0.07	0.32	ND	ND	0		0.100	0.250	0.49	2.15	1.23
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.99	6.78	2.47
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.99	5.96	2.96
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.99	5.05	2.96
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.99	4.86	3.45
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.99	4.86	3.45
4-Ethyltoluene	120.2	0.02	0.08	0.39	ND	ND	0		0.200	1.600	0.99	4.86	7.89
1,3,5-Trimethylbenzene	120.2	0.02	0.09	0.45	ND	ND	0		0.200	0.900	0.99	4.86	4.44
Decane	142.3	0.01	0.07	0.41	ND	ND	0		0.200	0.600	0.99	5.75	2.96
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.99	5.42	2.96
1,2,4-Trimethylbenzene	120.2	0.02	0.09	0.44	ND	ND	0		0.200	0.900	0.99	4.86	4.44
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.99	5.42	2.96
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.99	5.42	3.45
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.99	5.94	3.95
Isopropyltoluene	134.2	0.06	0.28	1.56	ND	ND	0		0.200	0.600	0.99	5.42	2.96
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.99	5.12	2.47
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.99	5.94	2.47
n-Butylbenzene	134.2	0.01	0.03	0.19	ND	ND	0		0.200	0.600	0.99	5.42	2.96
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.99	5.94	3.45
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.48	14.32	3.45
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.48	11.00	2.47
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.47	12.95	0.49
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.48	11.00	2.47
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.23	13.17	1.48
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		12.20	122	122	122	122	122	122	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
2.13	J	J		=		Y	1.02	1.76
6.11	U	ND		ND		Y	0.00	0.00
3.88	U	ND		ND		Y	0.00	0.00
2.55	U	ND		ND		Y	0.00	0.00
8.63	U	ND		ND		Y	0.00	0.00
3.16	U	ND		ND		Y	0.00	0.00
2.73	U	ND		ND		Y	0.00	0.00
4.79	U	ND		ND		Y	0.00	0.00
3.26	U	ND		ND		Y	0.00	0.00
29.90	U	ND		ND		Y	0.00	0.00
3.40				=		Y	2.63	6.05
6.94	U	ND		ND		Y	0.00	0.00
7.04				=		Y	6.10	14.52
15.18	U	ND		ND		Y	0.00	0.00
14.97	U	ND		ND		Y	0.00	0.00
8.66	U	ND		ND		Y	0.00	0.00
4.89	U	ND		ND		Y	0.00	0.00
3.22	U	ND		ND		Y	0.00	0.00
9.47	U	ND		ND		Y	0.00	0.00
15.46	U	ND		ND		Y	0.00	0.00
4.29	U	ND		ND		Y	0.00	0.00
3.84	J	J		=		Y	0.83	2.58
3.92	U	ND		ND		Y	0.00	0.00
3.56	U	ND		ND		Y	0.00	0.00
4.45	U	ND		ND		Y	0.00	0.00
5.00	U	ND		ND		Y	0.00	0.00
5.16	U	ND		ND		Y	0.00	0.00
17.40	U	ND		ND		Y	0.00	0.00
4.37	J	J		=		Y	0.72	2.14
12.39	U	ND		ND		Y	0.00	0.00
4.35	U	ND		ND		Y	0.00	0.00
3.39	U	ND		ND		Y	0.00	0.00
4.45	U	ND		ND		Y	0.00	0.00
6.54	U	ND		ND		Y	0.00	0.00
8.70	U	ND		ND		Y	0.00	0.00
4.37	U	ND		ND		Y	0.00	0.00
11.98	U	ND		ND		Y	0.00	0.00
4.89	U	ND		ND		Y	0.00	0.00
5.71	U	ND		ND		Y	0.00	0.00
6.03	U	ND		ND		Y	0.00	0.00
6.74	U	ND		ND		Y	0.00	0.00
5.00	U	ND		ND		Y	0.00	0.00
5.61	U	ND		ND		Y	0.00	0.00
4.25	U	ND		ND		Y	0.00	0.00
7.89				=		Y	2.76	8.84
7.77	U	ND		ND		Y	0.00	0.00
10.32	U	ND		ND		Y	0.00	0.00
5.77	U	ND		ND		Y	0.00	0.00
5.06	U	ND		ND		Y	0.00	0.00

5.71	U	ND	ND	Y	0.00	0.00
8.90	U	ND	ND	Y	0.00	0.00
8.78	U	ND	ND	Y	0.00	0.00
6.64	U	ND	ND	Y	0.00	0.00
8.27	U	ND	ND	Y	0.00	0.00
5.06	U	ND	ND	Y	0.00	0.00
16.20	U	ND	ND	Y	0.00	0.00
5.61	U	ND	ND	Y	0.00	0.00
4.65	U	ND	ND	Y	0.00	0.00
5.61	U	ND	ND	Y	0.00	0.00
6.74	U	ND	ND	Y	0.00	0.00
5.77	U	ND	ND	Y	0.00	0.00
16.20	U	ND	ND	Y	0.00	0.00
15.98	U	ND	ND	Y	0.00	0.00
5.77	U	ND	ND	Y	0.00	0.00
10.52	U	ND	ND	Y	0.00	0.00
9.49	U	ND	ND	Y	0.00	0.00
8.37	U	ND	ND	Y	0.00	0.00
5.69	U	ND	ND	Y	0.00	0.00
8.48	U	ND	ND	Y	0.00	0.00
5.36	U	ND	ND	Y	0.00	0.00
5.36	U	ND	ND	Y	0.00	0.00
6.48	U	ND	ND	Y	0.00	0.00
5.26	U	ND	ND	Y	0.00	0.00
12.76	U	ND	ND	Y	0.00	0.00
5.36	U	ND	ND	Y	0.00	0.00
16.95	U	ND	ND	Y	0.00	0.00
17.87	U	ND	ND	Y	0.00	0.00
15.15	U	ND	ND	Y	0.00	0.00
17.00	U	ND	ND	Y	0.00	0.00
17.00	U	ND	ND	Y	0.00	0.00
38.86	U	ND	ND	Y	0.00	0.00
21.86	U	ND	ND	Y	0.00	0.00
17.25	U	ND	ND	Y	0.00	0.00
16.27	U	ND	ND	Y	0.00	0.00
21.86	U	ND	ND	Y	0.00	0.00
16.27	U	ND	ND	Y	0.00	0.00
18.98	U	ND	ND	Y	0.00	0.00
23.76	U	ND	ND	Y	0.00	0.00
16.27	U	ND	ND	Y	0.00	0.00
12.79	U	ND	ND	Y	0.00	0.00
14.85	U	ND	ND	Y	0.00	0.00
16.27	U	ND	ND	Y	0.00	0.00
20.79	U	ND	ND	Y	0.00	0.00
33.42	U	ND	ND	Y	0.00	0.00
18.33	U	ND	ND	Y	0.00	0.00
2.59	U	ND	ND	Y	0.00	0.00
18.33	U	ND	ND	Y	0.00	0.00
15.81	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**16**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.48
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\frac{(Astdni)\ (Cistdi)}{(Cstdni)\ (Aistdi)}$ Note: 1 i

2) Raw Amt = $\frac{(Ansamp)\ (Cistdi)}{(Avg\ RFn)\ (Aistdi)}$ **= Cn**

3) Amount ppbv = $\frac{(Raw\ Amt)\ 1000\ (CDF)}{(SV)}$

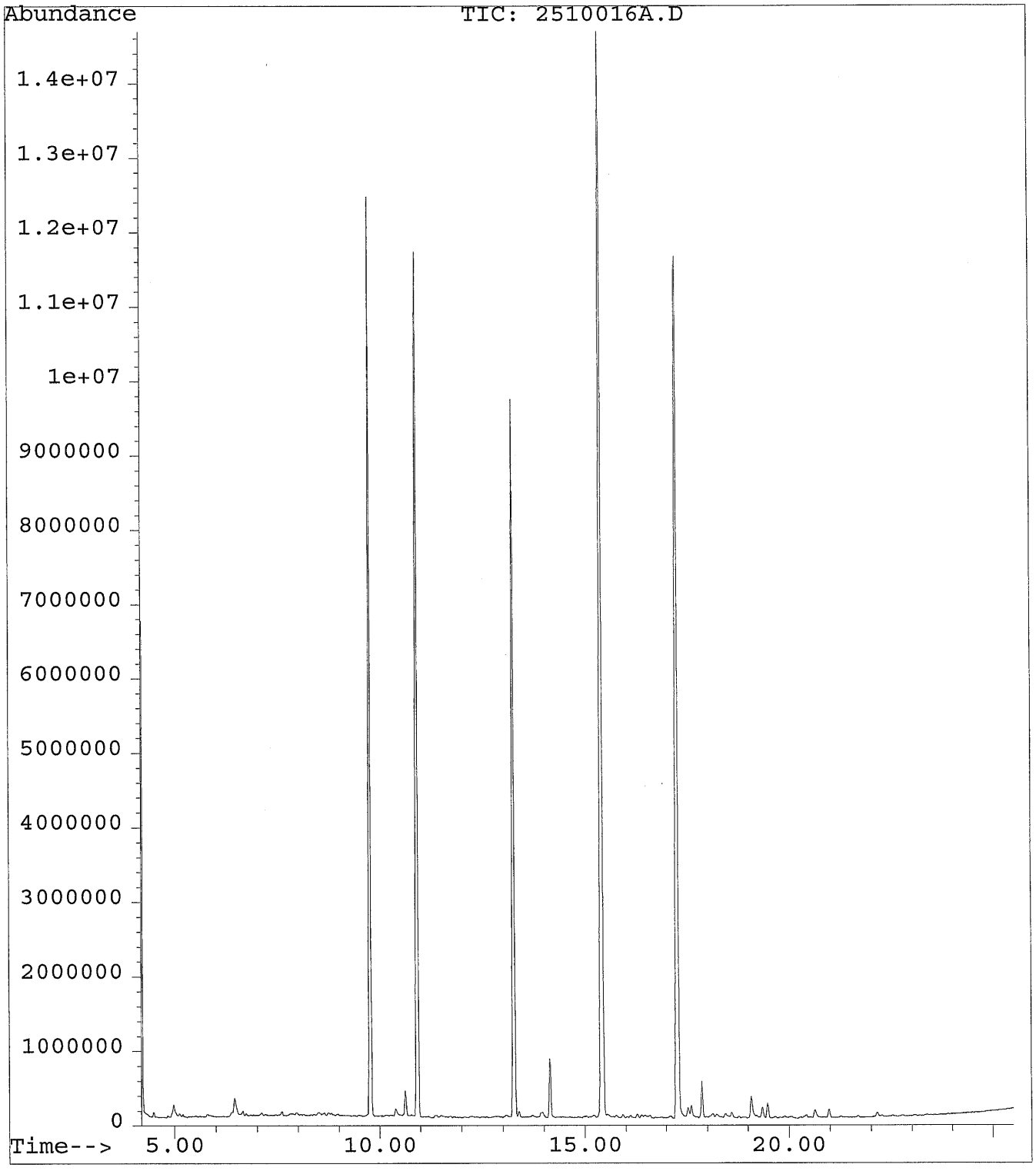
4) Amount ug/m3 = $\frac{(amt(ppbv)\ MW}{24.42}$

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	27061	20.0	10626534	0.207	1.02	1.76
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	10626534	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	234073	20.0	10626534	0.401	1.98	2.59
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	10626534	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	10626534	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	10626534	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	10626534	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	10626534	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	10626534	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	16730	20.0	10626534	0.221	1.09	2.06
12	Acrolein	PFB	TRG	56.1	0.130	36788	20.0	10626534	0.534	2.63	6.05
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	10626534	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	156750	20.0	10626534	1.237	6.10	14.52
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	86937	20.0	10626534	0.164	0.81	2.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	10626534	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	10626534	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	10626534	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	10626534	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	10626534	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	10626534	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	10626534	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	78795	20.0	10626534	0.168	0.83	2.58
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	10626534	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	10626534	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	10626534	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	10626534	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	10626534	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	10626534	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	15574	20.0	10626534	0.147	0.72	2.14
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	10626534	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	10626534	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	10626534	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	10626534	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	10626534	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	10626534	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	10626534	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	10626534	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	10626534	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	10626534	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	10626534	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	13179278	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	13179278	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	13179278	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	13179278	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	396195	20.0	13179278	0.560	2.76	8.84
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	13179278	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	13179278	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	13179278	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	13179278	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	13179278	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	13179278	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	13179278	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	13179278	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	13179278	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	13179278	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	13179278	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	13179278	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	71403	20.0	13179278	0.072	0.36	1.34
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	13179278	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	13179278	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	13179278	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	13179278	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	13179278	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	13179278	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	13179278	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	13179278	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	13179278	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	15643607	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	15643607	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	39859	20.0	15643607	0.029	0.14	0.61
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	46559	20.0	15643607	0.037	0.18	0.80
76	Nonane	d5CB	TRG	128.3	1.278	24447	20.0	15643607	0.024	0.12	0.63
77	Styrene	d5CB	TRG	104.2	1.106	33547	20.0	15643607	0.039	0.19	0.82
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	15643607	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	19623	20.0	15643607	0.015	0.07	0.32
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	15643607	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	15643607	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	15643607	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	15643607	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	15643607	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	27375	20.0	15643607	0.016	0.08	0.39
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	28307	20.0	15643607	0.019	0.09	0.45
87	Decane	d5CB	TRG	142.3	2.327	26048	20.0	15643607	0.014	0.07	0.41
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	15643607	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	29215	20.0	15643607	0.018	0.09	0.44
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	15643607	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	15643607	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	15643607	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	130833	20.0	15643607	0.057	0.28	1.56
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	15643607	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	15643607	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	17829	20.0	15643607	0.007	0.03	0.19
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	15643607	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	15643607	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	15643607	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	15643607	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	15643607	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	15643607	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	10626534	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	13179278	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15643607	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9883640	10.0		12.199	121.99	122

File : C:\MSCHEM\1\DATA\04015A_C\2510016A.D
Operator : DA
Acquired : 1 Apr 125 3:34 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-116
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **17**

Client ID T-117

Analytical Method TO-15

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 17

File Name: 2510017A.D
Description: T-117
Canister: 643
QC_Batch: 040125-MA1

Date Sampled: 03/19/25 **Time:** 13:03
Date Analyzed: 04/01/25 **Time:** 16:12
Can Dilution Factor: 1.25
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.04	0.67	0.72	1.80	1.16	J
75-71-8	Dichlorodifluoromethane	0.63	1.04	ND	3.09	5.16	ND	
67-56-1	Methanol	2.08	2.50	ND	2.73	3.28	ND	
74-87-3	Chloromethane	0.63	1.04	ND	1.29	2.15	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.04	ND	2.92	7.29	ND	
75-01-4	Vinyl chloride	0.21	1.04	ND	0.54	2.67	ND	
106-99-0	1,3-Butadiene	0.21	1.04	ND	0.46	2.31	ND	
74-83-9	Bromomethane	0.42	1.04	ND	1.62	4.05	ND	
75-00-3	Chloroethane	0.42	1.04	ND	1.10	2.75	ND	
64-17-5	Ethanol	2.08	13.38	ND	3.93	25.25	ND	
107-02-8	Acrolein	0.42	1.25	1.82	0.96	2.87	4.18	
75-69-4	Trichlorofluoromethane	0.42	1.04	ND	2.34	5.86	ND	
67-64-1	Acetone	2.08	2.50	4.45	4.96	5.95	10.58	
67-63-0	2-propanol (isopropylalcohol)	0.83	5.21	ND	2.05	12.82	ND	
75-65-0	t-Butyl alcohol	0.42	4.17	ND	1.26	12.64	ND	
4227-95-6	Methyl iodide	0.42	1.25	ND	2.44	7.32	ND	
75-35-4	1,1-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
107-13-1	Acrylonitrile	0.83	1.25	ND	1.81	2.72	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.04	ND	1.60	7.99	ND	
107-05-1	Allyl chloride	0.21	4.17	ND	0.65	13.05	ND	
75-09-2	Methylene chloride	0.21	1.04	ND	0.72	3.62	ND	
75-15-0	Carbon disulfide	0.42	1.04	ND	1.30	3.25	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.83	ND	0.83	3.31	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.83	ND	1.50	3.01	ND	
107-12-0	Propionitrile	1.04	1.67	ND	2.35	3.76	ND	
75-34-3	1,1-Dichloroethane	0.21	1.04	ND	0.84	4.22	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.04	ND	1.74	4.36	ND	
108-05-4	Vinyl acetate	0.21	4.17	ND	0.73	14.69	ND	
78-93-3	2-Butanone (MEK)	0.42	1.25	ND	1.23	3.69	ND	
108-20-3	Diisopropyl ether	0.42	2.50	ND	1.74	10.46	ND	
110-54-3	Hexane	0.42	1.04	ND	1.47	3.68	ND	
126-98-7	Methacrylonitrile	0.42	1.04	ND	1.15	2.86	ND	
141-78-6	Ethyl acetate	0.42	1.04	ND	1.50	3.76	ND	
74-97-5	Bromochloromethane	0.21	1.04	ND	1.10	5.52	ND	
96-33-3	Methyl acrylate	0.42	2.08	ND	1.47	7.35	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.25	ND	0.62	3.69	ND	
78-83-1	Isobutyl alcohol	0.83	3.33	ND	2.53	10.12	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
594-20-7	2,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
67-66-3	Chloroform	0.21	1.04	ND	1.02	5.09	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
107-06-2	1,2-Dichloroethane	0.21	1.04	ND	0.84	4.22	ND	
563-58-6	1,1-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
110-82-7	Cyclohexane	0.21	1.04	ND	0.72	3.59	ND	
71-43-2	Benzene	1.46	2.08	1.71	4.66	6.66	5.46	J
56-23-5	Carbon tetrachloride	0.21	1.04	ND	1.31	6.56	ND	
994-05-8	t-Amyl methyl ether	0.42	2.08	ND	1.74	8.72	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.04	ND	0.97	4.87	ND	
142-82-5	n-Heptane	0.42	1.04	ND	1.71	4.27	ND	
78-87-5	1,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
123-91-1	1,4 Dioxane	0.42	2.08	ND	1.50	7.52	ND	
74-95-3	Dibromomethane	0.21	1.04	ND	1.48	7.42	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.04	ND	0.56	5.61	ND	
75-27-4	Bromodichloromethane	0.21	1.04	ND	1.40	6.99	ND	
80-62-6	Methyl methacrylate	0.42	1.04	ND	1.71	4.27	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.33	ND	1.71	13.68	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
108-88-3	Toluene	0.83	1.04	ND	3.14	3.93	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
97-63-2	Ethyl methacrylate	0.42	1.04	ND	1.95	4.87	ND	
591-78-6	2-Hexanone	0.42	3.33	ND	1.71	13.68	ND	
142-28-9	1,3-Dichloropropane	0.21	2.92	ND	0.96	13.50	ND	
111-65-9	Octane	0.42	1.04	ND	1.95	4.87	ND	
124-48-1	Dibromochloromethane	0.42	1.04	ND	3.55	8.89	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.04	ND	3.21	8.02	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.04	ND	0.71	7.07	ND	
108-90-7	Chlorobenzene	0.42	1.04	ND	1.92	4.80	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.04	ND	2.86	7.16	ND	
100-41-4	Ethylbenzene	0.42	1.04	ND	1.81	4.53	ND	
1330-20-7	m,p-Xylenes	0.42	1.04	ND	1.81	4.53	ND	
111-84-2	Nonane	0.42	1.04	ND	2.19	5.47	ND	
100-42-5	Styrene	0.63	1.04	ND	2.67	4.45	ND	
75-25-2	Bromoform	0.42	1.04	ND	4.31	10.78	ND	
95-47-6	o-Xylene	0.42	1.04	ND	1.81	4.53	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.83	2.08	ND	5.73	14.32	ND	
96-18-4	1,2,3-Trichloropropane	0.83	2.50	ND	5.03	15.09	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.83	2.50	ND	4.27	12.80	ND	
103-65-1	n-Propylbenzene	0.83	2.92	ND	4.10	14.36	ND	
98-82-8	Isopropylbenzene	0.83	2.92	ND	4.10	14.36	ND	
622-96-8	4-Ethyltoluene	0.83	6.67	ND	4.10	32.82	ND	
108-67-8	1,3,5-Trimethylbenzene	0.83	3.75	ND	4.10	18.46	ND	
124-18-5	Decane	0.83	2.50	ND	4.86	14.57	ND	
98-06-6	tert-butyl benzene	0.83	2.50	ND	4.58	13.74	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.83	3.75	ND	4.10	18.46	ND	
538-93-2	i-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
135-98-8	sec-butylbenzene	0.83	2.92	ND	4.58	16.03	ND	
541-73-1	1,3-Dichlorobenzene	0.83	3.33	ND	5.02	20.07	ND	
99-87-6	Isopropyltoluene	0.83	2.50	ND	4.58	13.74	ND	
100-44-7	Benzyl chloride	0.83	2.08	ND	4.32	10.80	ND	
106-46-7	1,4-Dichlorobenzene	0.83	2.08	ND	5.02	12.54	ND	
104-51-8	n-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
95-50-1	1,2-Dichlorobenzene	0.83	2.92	ND	5.02	17.56	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.25	2.92	ND	12.10	28.23	ND	
120-82-1	1,2,4-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
91-20-3	Naphthalene	2.08	0.42	ND	10.94	2.19	ND	
87-61-6	1,2,3-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
87-68-3	Hexachlorobutadiene	1.04	1.25	ND	11.13	13.35	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	129	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**17**		
File Name:	2510017A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/19/25**	**Time:**	**13:03**
Sample ID:	T-117	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/01/25**	**Time:**	**16:12**
Anal Date:	1 Apr 125 4:12 pm	**SF:**	**2**	**QCbatch:**	**040125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**643**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.25**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	DA	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.5**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.161	4.41	42.00	19357
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.342	4.86	31.00	183560
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.436	6.32	56.00	27652
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	1.067	6.42	58.00	124373
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.077	6.45	45.00	37568
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.410	10.70	78.00	271909
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.052	13.50	91.00	47809
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.013	15.90	106	18216
1330-20-7	m,p-Xylenes	75	TRG	0.014	16.06	91.00	17119
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.035	16.61	104.00	29269
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	0.00	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.018	18.23	105.00	30125
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.006	18.31	105.00	8396
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.011	18.95	105.00	17373
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.015	19.53	119.00	32578
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**9774781**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**12368160**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15237082**
2037-26-5	Toluene-d8	103	SURR	12.942	13.40	98.00	**9839992**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**17**
File Name:	2510017A.D
Run Method:	A1563_P.M
Can Factor:	1.25
Air Volume:	300.0 ml
Can/Tube Number:	643
Dilution Factor:	0.3750
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3750
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.5

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.16	0.67	1.16	0.67	1.16	1.16	1.16	0.100	0.250	0.42	0.72	1.04
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.63	3.09	1.04
Methanol	32.0	0.34	1.42	1.87	ND	ND	0		0.500	0.600	2.08	2.73	2.50
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.63	1.29	1.04
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.92	1.04
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.54	1.04
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.46	1.04
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.62	1.04
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.10	1.04
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	2.08	3.93	13.38
Acrolein	56.1	0.44	1.82	4.18	1.82	4.18	4.18	4.18	0.100	0.300	0.42	0.96	1.25
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.34	1.04
Acetone	58.1	1.07	4.45	10.58	4.45	10.58	10.58	10.58	0.500	0.600	2.08	4.96	2.50
2-propanol (isopropylalcohol)	60.1	0.08	0.32	0.79	ND	ND	0		0.200	1.250	0.83	2.05	5.21
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.42	1.26	4.17
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.42	2.44	1.25
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.83	1.04
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.83	1.81	1.25
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.60	1.04
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.65	4.17
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.72	1.04
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.30	1.04
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.21	0.83	0.83
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.42	1.50	0.83
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.04	2.35	1.67
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.04
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.74	1.04
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.73	4.17
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.42	1.23	1.25
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.42	1.74	2.50
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.47	1.04
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.15	1.04
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.50	1.04
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.10	1.04
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.47	2.08
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.21	0.62	1.25
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.83	2.53	3.33
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.83	1.04
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.04
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.02	1.04
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.14	1.04
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.04
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.04
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.72	1.04
Benzene	78.1	0.41	1.71	5.46	1.71	5.46	5.46	5.46	0.350	0.500	1.46	4.66	2.08
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.31	1.04
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.74	2.08
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.97	1.04
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.71	1.04

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.04
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.50	2.08
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.48	1.04
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.56	1.04
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.40	1.04
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.71	1.04
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.42	1.71	3.33
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.04
Toluene	92.1	0.05	0.21	0.81	ND	ND	0		0.200	0.250	0.83	3.14	1.04
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.04
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.14	1.04
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.95	1.04
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.42	1.71	3.33
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.21	0.96	2.92
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.95	1.04
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.55	1.04
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.21	1.04
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.71	1.04
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.92	1.04
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.86	1.04
Ethylbenzene	106.2	0.01	0.06	0.24	ND	ND	0		0.100	0.250	0.42	1.81	1.04
m,p-Xylenes	106.2	0.01	0.06	0.26	ND	ND	0		0.100	0.250	0.42	1.81	1.04
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.19	1.04
Styrene	104.2	0.03	0.14	0.62	ND	ND	0		0.150	0.250	0.63	2.67	1.04
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	4.31	1.04
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.81	1.04
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.83	5.73	2.08
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	5.03	2.50
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.27	2.50
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.10	2.92
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.10	2.92
4-Ethyltoluene	120.2	0.02	0.08	0.37	ND	ND	0		0.200	1.600	0.83	4.10	6.67
1,3,5-Trimethylbenzene	120.2	0.01	0.02	0.12	ND	ND	0		0.200	0.900	0.83	4.10	3.75
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.86	2.50
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.58	2.50
1,2,4-Trimethylbenzene	120.2	0.01	0.05	0.23	ND	ND	0		0.200	0.900	0.83	4.10	3.75
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.58	2.50
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.58	2.92
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.83	5.02	3.33
Isopropyltoluene	134.2	0.01	0.06	0.34	ND	ND	0		0.200	0.600	0.83	4.58	2.50
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.83	4.32	2.08
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.83	5.02	2.08
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.58	2.50
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	5.02	2.92
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.25	12.10	2.92
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.25	9.29	2.08
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.08	10.94	0.42
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.25	9.29	2.08
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.04	11.13	1.25
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		12.94	129	129	129	129	129	129	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.80	J	J		=		Y	0.67	1.16
5.16	U	ND		ND		Y	0.00	0.00
3.28	U	ND		ND		Y	0.00	0.00
2.15	U	ND		ND		Y	0.00	0.00
7.29	U	ND		ND		Y	0.00	0.00
2.67	U	ND		ND		Y	0.00	0.00
2.31	U	ND		ND		Y	0.00	0.00
4.05	U	ND		ND		Y	0.00	0.00
2.75	U	ND		ND		Y	0.00	0.00
25.25	U	ND		ND		Y	0.00	0.00
2.87				=		Y	1.82	4.18
5.86	U	ND		ND		Y	0.00	0.00
5.95				=		Y	4.45	10.58
12.82	U	ND		ND		Y	0.00	0.00
12.64	U	ND		ND		Y	0.00	0.00
7.32	U	ND		ND		Y	0.00	0.00
4.13	U	ND		ND		Y	0.00	0.00
2.72	U	ND		ND		Y	0.00	0.00
7.99	U	ND		ND		Y	0.00	0.00
13.05	U	ND		ND		Y	0.00	0.00
3.62	U	ND		ND		Y	0.00	0.00
3.25	U	ND		ND		Y	0.00	0.00
3.31	U	ND		ND		Y	0.00	0.00
3.01	U	ND		ND		Y	0.00	0.00
3.76	U	ND		ND		Y	0.00	0.00
4.22	U	ND		ND		Y	0.00	0.00
4.36	U	ND		ND		Y	0.00	0.00
14.69	U	ND		ND		Y	0.00	0.00
3.69	U	ND		ND		Y	0.00	0.00
10.46	U	ND		ND		Y	0.00	0.00
3.68	U	ND		ND		Y	0.00	0.00
2.86	U	ND		ND		Y	0.00	0.00
3.76	U	ND		ND		Y	0.00	0.00
5.52	U	ND		ND		Y	0.00	0.00
7.35	U	ND		ND		Y	0.00	0.00
3.69	U	ND		ND		Y	0.00	0.00
10.12	U	ND		ND		Y	0.00	0.00
4.13	U	ND		ND		Y	0.00	0.00
4.82	U	ND		ND		Y	0.00	0.00
5.09	U	ND		ND		Y	0.00	0.00
5.69	U	ND		ND		Y	0.00	0.00
4.22	U	ND		ND		Y	0.00	0.00
4.74	U	ND		ND		Y	0.00	0.00
3.59	U	ND		ND		Y	0.00	0.00
6.66	J	J		=		Y	1.71	5.46
6.56	U	ND		ND		Y	0.00	0.00
8.72	U	ND		ND		Y	0.00	0.00
4.87	U	ND		ND		Y	0.00	0.00
4.27	U	ND		ND		Y	0.00	0.00

4.82	U	ND	ND	Y	0.00	0.00
7.52	U	ND	ND	Y	0.00	0.00
7.42	U	ND	ND	Y	0.00	0.00
5.61	U	ND	ND	Y	0.00	0.00
6.99	U	ND	ND	Y	0.00	0.00
4.27	U	ND	ND	Y	0.00	0.00
13.68	U	ND	ND	Y	0.00	0.00
4.74	U	ND	ND	Y	0.00	0.00
3.93	U	ND	ND	Y	0.00	0.00
4.74	U	ND	ND	Y	0.00	0.00
5.69	U	ND	ND	Y	0.00	0.00
4.87	U	ND	ND	Y	0.00	0.00
13.68	U	ND	ND	Y	0.00	0.00
13.50	U	ND	ND	Y	0.00	0.00
4.87	U	ND	ND	Y	0.00	0.00
8.89	U	ND	ND	Y	0.00	0.00
8.02	U	ND	ND	Y	0.00	0.00
7.07	U	ND	ND	Y	0.00	0.00
4.80	U	ND	ND	Y	0.00	0.00
7.16	U	ND	ND	Y	0.00	0.00
4.53	U	ND	ND	Y	0.00	0.00
4.53	U	ND	ND	Y	0.00	0.00
5.47	U	ND	ND	Y	0.00	0.00
4.45	U	ND	ND	Y	0.00	0.00
10.78	U	ND	ND	Y	0.00	0.00
4.53	U	ND	ND	Y	0.00	0.00
14.32	U	ND	ND	Y	0.00	0.00
15.09	U	ND	ND	Y	0.00	0.00
12.80	U	ND	ND	Y	0.00	0.00
14.36	U	ND	ND	Y	0.00	0.00
14.36	U	ND	ND	Y	0.00	0.00
32.82	U	ND	ND	Y	0.00	0.00
18.46	U	ND	ND	Y	0.00	0.00
14.57	U	ND	ND	Y	0.00	0.00
13.74	U	ND	ND	Y	0.00	0.00
18.46	U	ND	ND	Y	0.00	0.00
13.74	U	ND	ND	Y	0.00	0.00
16.03	U	ND	ND	Y	0.00	0.00
20.07	U	ND	ND	Y	0.00	0.00
13.74	U	ND	ND	Y	0.00	0.00
10.80	U	ND	ND	Y	0.00	0.00
12.54	U	ND	ND	Y	0.00	0.00
13.74	U	ND	ND	Y	0.00	0.00
17.56	U	ND	ND	Y	0.00	0.00
28.23	U	ND	ND	Y	0.00	0.00
15.48	U	ND	ND	Y	0.00	0.00
2.19	U	ND	ND	Y	0.00	0.00
15.48	U	ND	ND	Y	0.00	0.00
13.35	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**17**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.25	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) **= Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

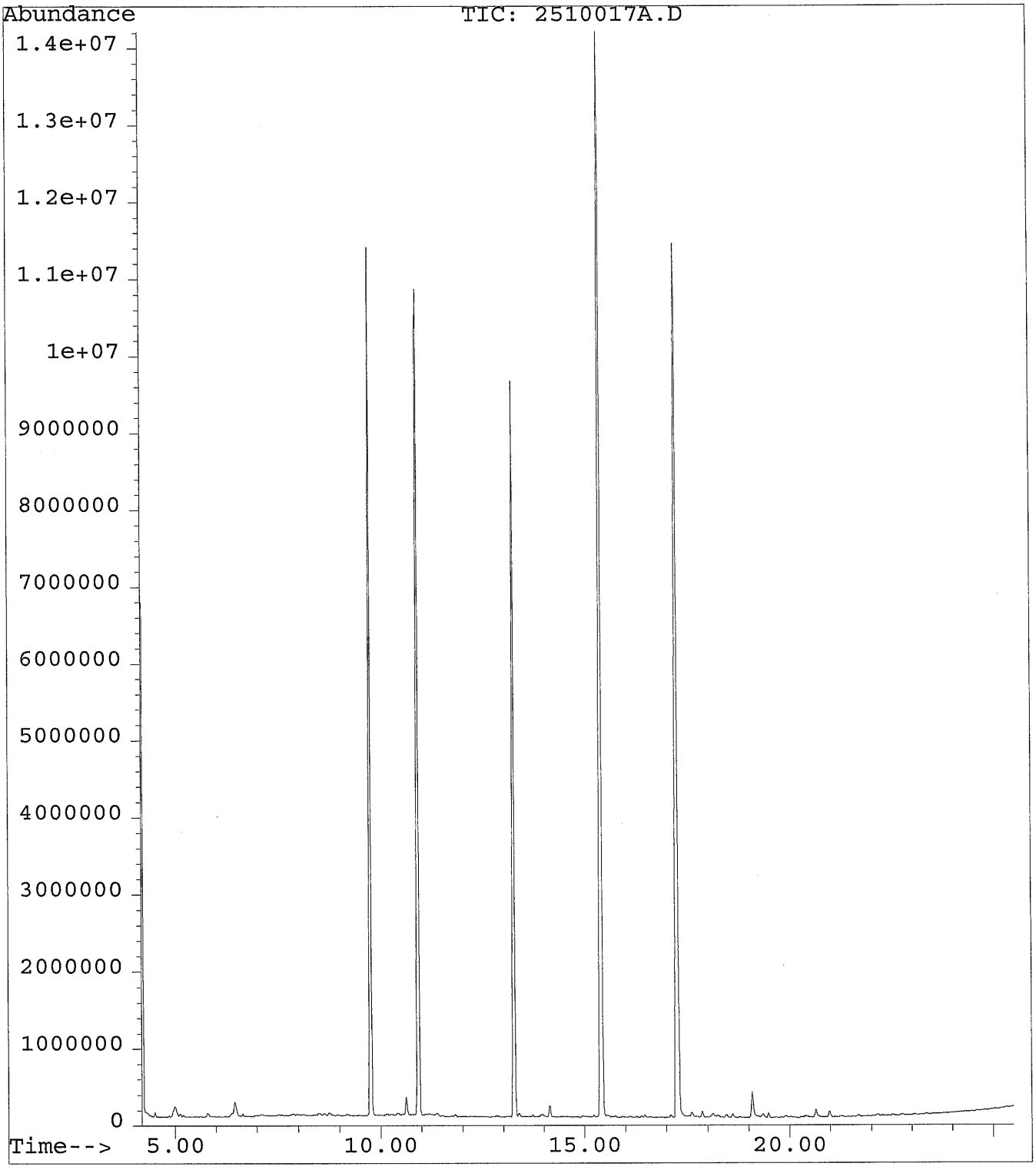
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	19357	20.0	9774781	0.161	0.67	1.16
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	9774781	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	183560	20.0	9774781	0.342	1.42	1.87
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	9774781	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	9774781	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	9774781	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	9774781	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	9774781	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	9774781	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	0	20.0	9774781	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.130	27652	20.0	9774781	0.436	1.82	4.18
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	9774781	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	124373	20.0	9774781	1.067	4.45	10.58
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	37568	20.0	9774781	0.077	0.32	0.79
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	9774781	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	9774781	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	9774781	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	9774781	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	9774781	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	9774781	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	9774781	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	9774781	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	9774781	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	9774781	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	9774781	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	9774781	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	9774781	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	9774781	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	0	20.0	9774781	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	9774781	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	9774781	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	9774781	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	9774781	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	9774781	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	9774781	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	9774781	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	9774781	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	9774781	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	9774781	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	9774781	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	12368160	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	12368160	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	12368160	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	12368160	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	271909	20.0	12368160	0.410	1.71	5.46
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	12368160	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	12368160	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	12368160	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	12368160	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	12368160	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	12368160	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	12368160	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	12368160	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	12368160	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	12368160	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	12368160	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	12368160	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	47809	20.0	12368160	0.052	0.21	0.81
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	12368160	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	12368160	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	12368160	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	12368160	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	12368160	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	12368160	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	12368160	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	12368160	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	12368160	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	15237082	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	15237082	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	18216	20.0	15237082	0.013	0.06	0.24
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	17119	20.0	15237082	0.014	0.06	0.26
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	15237082	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	29269	20.0	15237082	0.035	0.14	0.62
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	15237082	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	0	20.0	15237082	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	15237082	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	15237082	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	15237082	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	15237082	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	15237082	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	30125	20.0	15237082	0.018	0.08	0.37
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	8396	20.0	15237082	0.006	0.02	0.12
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	15237082	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	15237082	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	17373	20.0	15237082	0.011	0.05	0.23
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	15237082	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	15237082	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	15237082	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	32578	20.0	15237082	0.015	0.06	0.34
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	15237082	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	15237082	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	15237082	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	15237082	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	15237082	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	15237082	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	15237082	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	15237082	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	15237082	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	9774781	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	12368160	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15237082	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9839992	10.0		12.942	129.42	129

File : C:\MSCHEM\1\DATA\04015A_C\2510017A.D
Operator : DA
Acquired : 1 Apr 125 4:12 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-117
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **18**

Client ID T-118

Analytical Method TO-15

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Analytical Report
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Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 18**

File Name: 2510018A.D
Description: T-118
Canister: 553
QC_Batch: 033125-MA1

Date Sampled: 03/19/25 **Time:** 13:25
Date Analyzed: 03/31/25 **Time:** 12:32
Can Dilution Factor: 1.14
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.38	0.95	ND	0.65	1.64	ND	
75-71-8	Dichlorodifluoromethane	0.57	0.95	ND	2.82	4.70	ND	
67-56-1	Methanol	1.90	2.28	ND	2.49	2.99	ND	
74-87-3	Chloromethane	0.57	0.95	ND	1.18	1.96	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.38	0.95	ND	2.66	6.65	ND	
75-01-4	Vinyl chloride	0.19	0.95	ND	0.49	2.43	ND	
106-99-0	1,3-Butadiene	0.19	0.95	ND	0.42	2.10	ND	
74-83-9	Bromomethane	0.38	0.95	ND	1.48	3.69	ND	
75-00-3	Chloroethane	0.38	0.95	ND	1.00	2.51	ND	
64-17-5	Ethanol	1.90	12.20	ND	3.59	23.03	ND	
107-02-8	Acrolein	0.38	1.14	ND	0.87	2.62	ND	
75-69-4	Trichlorofluoromethane	0.38	0.95	ND	2.14	5.35	ND	
67-64-1	Acetone	1.90	2.28	ND	4.52	5.43	ND	
67-63-0	2-propanol (isopropylalcohol)	0.76	4.75	ND	1.87	11.69	ND	
75-65-0	t-Butyl alcohol	0.38	3.80	ND	1.15	11.53	ND	
4227-95-6	Methyl iodide	0.38	1.14	ND	2.22	6.67	ND	
75-35-4	1,1-Dichloroethene	0.19	0.95	ND	0.75	3.77	ND	
107-13-1	Acrylonitrile	0.76	1.14	ND	1.65	2.48	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.19	0.95	ND	1.46	7.29	ND	
107-05-1	Allyl chloride	0.19	3.80	ND	0.60	11.91	ND	
75-09-2	Methylene chloride	0.19	0.95	ND	0.66	3.30	ND	
75-15-0	Carbon disulfide	0.38	0.95	ND	1.18	2.96	ND	
156-60-5	trans-1,2-Dichloroethene	0.19	0.76	ND	0.75	3.02	ND	
1634-04-4	Methyl tert butyl ether	0.38	0.76	ND	1.37	2.74	ND	
107-12-0	Propionitrile	0.95	1.52	ND	2.14	3.43	ND	
75-34-3	1,1-Dichloroethane	0.19	0.95	ND	0.77	3.85	ND	
637-92-3	Ethyl tert butyl ether	0.38	0.95	ND	1.59	3.98	ND	
108-05-4	Vinyl acetate	0.19	3.80	ND	0.67	13.40	ND	
78-93-3	2-Butanone (MEK)	0.38	1.14	ND	1.12	3.37	ND	
108-20-3	Diisopropyl ether	0.38	2.28	ND	1.59	9.54	ND	
110-54-3	Hexane	0.38	0.95	ND	1.34	3.35	ND	
126-98-7	Methacrylonitrile	0.38	0.95	ND	1.04	2.61	ND	
141-78-6	Ethyl acetate	0.38	0.95	ND	1.37	3.43	ND	
74-97-5	Bromochloromethane	0.19	0.95	ND	1.01	5.03	ND	
96-33-3	Methyl acrylate	0.38	1.90	ND	1.34	6.70	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.19	1.14	ND	0.56	3.37	ND	
78-83-1	Isobutyl alcohol	0.76	3.04	ND	2.31	9.23	ND	
156-59-2	cis-1,2-Dichloroethene	0.19	0.95	ND	0.75	3.77	ND	
594-20-7	2,2-Dichloropropane	0.19	0.95	ND	0.88	4.40	ND	
67-66-3	Chloroform	0.19	0.95	ND	0.93	4.65	ND	
71-55-6	1,1,1-Trichloroethane	0.19	0.95	ND	1.04	5.19	ND	
107-06-2	1,2-Dichloroethane	0.19	0.95	ND	0.77	3.85	ND	
563-58-6	1,1-Dichloropropene	0.19	0.95	ND	0.86	4.32	ND	
110-82-7	Cyclohexane	0.19	0.95	ND	0.66	3.28	ND	
71-43-2	Benzene	1.33	1.90	ND	4.25	6.08	ND	
56-23-5	Carbon tetrachloride	0.19	0.95	ND	1.20	5.98	ND	
994-05-8	t-Amyl methyl ether	0.38	1.90	ND	1.59	7.95	ND	
540-84-1	2,2,4-Trimethylpentane	0.19	0.95	ND	0.89	4.44	ND	
142-82-5	n-Heptane	0.38	0.95	ND	1.56	3.90	ND	
78-87-5	1,2-Dichloropropane	0.19	0.95	ND	0.88	4.40	ND	
123-91-1	1,4 Dioxane	0.38	1.90	ND	1.37	6.86	ND	
74-95-3	Dibromomethane	0.19	0.95	ND	1.35	6.76	ND	
79-01-6	Trichloroethene (TCE)	0.10	0.95	ND	0.51	5.11	ND	
75-27-4	Bromodichloromethane	0.19	0.95	ND	1.27	6.37	ND	
80-62-6	Methyl methacrylate	0.38	0.95	ND	1.56	3.89	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.38	3.04	ND	1.56	12.48	ND	
10061-01-5	cis-1,3-Dichloropropene	0.19	0.95	ND	0.86	4.32	ND	
108-88-3	Toluene	0.76	0.95	ND	2.87	3.58	ND	
10061-02-6	trans-1,3-Dichloropropene	0.19	0.95	ND	0.86	4.32	ND	
79-00-5	1,1,2-Trichloroethane	0.19	0.95	ND	1.04	5.19	ND	
97-63-2	Ethyl methacrylate	0.38	0.95	ND	1.78	4.44	ND	
591-78-6	2-Hexanone	0.38	3.04	ND	1.56	12.48	ND	
142-28-9	1,3-Dichloropropane	0.19	2.66	ND	0.88	12.31	ND	
111-65-9	Octane	0.38	0.95	ND	1.78	4.44	ND	
124-48-1	Dibromochloromethane	0.38	0.95	ND	3.24	8.10	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.38	0.95	ND	2.92	7.31	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	0.95	ND	0.65	6.45	ND	
108-90-7	Chlorobenzene	0.38	0.95	ND	1.75	4.38	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.38	0.95	ND	2.61	6.53	ND	
100-41-4	Ethylbenzene	0.38	0.95	ND	1.65	4.13	ND	
1330-20-7	m,p-Xylenes	0.38	0.95	ND	1.65	4.13	ND	
111-84-2	Nonane	0.38	0.95	ND	2.00	4.99	ND	
100-42-5	Styrene	0.57	0.95	ND	2.43	4.05	ND	
75-25-2	Bromoform	0.38	0.95	ND	3.93	9.83	ND	
95-47-6	o-Xylene	0.38	0.95	ND	1.65	4.13	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.76	1.90	ND	5.22	13.06	ND	
96-18-4	1,2,3-Trichloropropane	0.76	2.28	ND	4.59	13.76	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.76	2.28	ND	3.89	11.67	ND	
103-65-1	n-Propylbenzene	0.76	2.66	ND	3.74	13.09	ND	
98-82-8	Isopropylbenzene	0.76	2.66	ND	3.74	13.09	ND	
622-96-8	4-Ethyltoluene	0.76	6.08	ND	3.74	29.93	ND	
108-67-8	1,3,5-Trimethylbenzene	0.76	3.42	ND	3.74	16.84	ND	
124-18-5	Decane	0.76	2.28	ND	4.43	13.29	ND	
98-06-6	tert-butyl benzene	0.76	2.28	ND	4.18	12.53	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.76	3.42	ND	3.74	16.84	ND	
538-93-2	i-Butylbenzene	0.76	2.28	ND	4.18	12.53	ND	
135-98-8	sec-butylbenzene	0.76	2.66	ND	4.18	14.62	ND	
541-73-1	1,3-Dichlorobenzene	0.76	3.04	ND	4.58	18.30	ND	
99-87-6	Isopropyltoluene	0.76	2.28	ND	4.18	12.53	ND	
100-44-7	Benzyl chloride	0.76	1.90	ND	3.94	9.85	ND	
106-46-7	1,4-Dichlorobenzene	0.76	1.90	ND	4.58	11.44	ND	
104-51-8	n-Butylbenzene	0.76	2.28	ND	4.18	12.53	ND	
95-50-1	1,2-Dichlorobenzene	0.76	2.66	ND	4.58	16.01	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.14	2.66	ND	11.03	25.74	ND	
120-82-1	1,2,4-Trichlorobenzene	1.14	1.90	ND	8.47	14.12	ND	
91-20-3	Naphthalene	1.90	0.38	ND	9.98	2.00	ND	
87-61-6	1,2,3-Trichlorobenzene	1.14	1.90	ND	8.47	14.12	ND	
87-68-3	Hexachlorobutadiene	0.95	1.14	ND	10.15	12.18	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	112	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**18**		
File Name:	2510018A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/19/25**	**Time:**	**13:25**
Sample ID:	T-118	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**03/31/25**	**Time:**	**12:32**
Anal Date:	31 Mar 125 12:32 pm	**SF:**	**2**	**QCbatch:**	**033125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**553**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.14**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	MM	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.000	4.41	42.00	0
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.000	4.86	31.00	0
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	0.000	6.42	58.00	0
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.000	10.70	78.00	0
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.000	13.50	91.00	0
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.000	15.90	106	0
1330-20-7	m,p-Xylenes	75	TRG	0.000	16.06	91.00	0
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.000	16.61	104.00	0
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	0.00	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.000	18.31	105.00	0
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.000	18.95	105.00	0
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	23.59	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**9936495**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**11938426**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**16058876**
2037-26-5	Toluene-d8	103	SURR	11.242	13.40	98.00	**8251045**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**	EDD SURR:	PERCENT	IS LCL	50	Gas Constant	
Laboratory Number:	**18**	Sam Type:	SA	IS UCL	200	T	24.5
File Name:	2510018A.D	Instrument:	MA1	SUR LCL	70	P	760
Run Method:	A1563_P.M	DETECT:	ND	SUR UCL	130	MV	24.417
Can Factor:	1.14	Matrix:	AA	MDL Factor	1.0	GC	24.417
Air Volume:	300.0 ml	Type:	TRG	E Flag	1.3		
Can/Tube Number:	553	Diluton:	0.3420				
Dilution Factor:	0.3420	Sig Figs:	2				
Base Volume:	1000 ml	MDLSF:	2				

Unit Factor (ppbv):	1000	PPBV	UG/M3		Fixed	Fixed	Fixed	Fixed	(1)	(2)	Calc	Calc	Calc
	M.W.	Raw	ResultV	Result	Result	Result	ResultQ	ResultG	MDL	RL	MDL	MDL	RL
Compound		Amount	PPBV	UG/M3	PPBV	UG/M3	UG/M3	UG/M3		PPBV	PPBV	UG/M3	PPBV
Propylene	42.08	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.38	0.65	0.95
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	0.57	2.82	0.95
Methanol	32.0	0.00	0.00	0.00	ND	ND	0		**0.500**	**0.600**	1.90	2.49	2.28
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	0.57	1.18	0.95
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.38	2.66	0.95
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.19	0.49	0.95
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.19	0.42	0.95
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.38	1.48	0.95
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.38	1.00	0.95
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		**0.500**	**3.210**	1.90	3.59	12.20
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	0.38	0.87	1.14
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.38	2.14	0.95
Acetone	58.1	0.00	0.00	0.00	ND	ND	0		**0.500**	**0.600**	1.90	4.52	2.28
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**1.250**	0.76	1.87	4.75
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**1.000**	0.38	1.15	3.80
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	0.38	2.22	1.14
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.19	0.75	0.95
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.300**	0.76	1.65	1.14
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.19	1.46	0.95
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	0.19	0.60	3.80
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.19	0.66	0.95
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.38	1.18	0.95
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.200**	0.19	0.75	0.76
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.200**	0.38	1.37	0.76
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		**0.250**	**0.400**	0.95	2.14	1.52
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.19	0.77	0.95
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.38	1.59	0.95
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	0.19	0.67	3.80
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	0.38	1.12	1.14
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.600**	0.38	1.59	2.28
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.38	1.34	0.95
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.38	1.04	0.95
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.38	1.37	0.95
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.19	1.01	0.95
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.38	1.34	1.90
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.300**	0.19	0.56	1.14
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.800**	0.76	2.31	3.04
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.19	0.75	0.95
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.19	0.88	0.95
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.19	0.93	0.95
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.19	1.04	0.95
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.19	0.77	0.95
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.19	0.86	0.95
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.19	0.66	0.95
Benzene	78.1	0.00	0.00	0.00	ND	ND	0		**0.350**	**0.500**	1.33	4.25	1.90
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.19	1.20	0.95
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.38	1.59	1.90
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.19	0.89	0.95
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.38	1.56	0.95

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	0.88	0.95
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.38	1.37	1.90
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	1.35	0.95
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.51	0.95
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	1.27	0.95
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.38	1.56	0.95
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.38	1.56	3.04
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	0.86	0.95
Toluene	92.1	0.00	0.00	0.00	ND	ND	0		0.200	0.250	0.76	2.87	0.95
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	0.86	0.95
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	1.04	0.95
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.38	1.78	0.95
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.38	1.56	3.04
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.19	0.88	2.66
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.38	1.78	0.95
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.38	3.24	0.95
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.38	2.92	0.95
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.65	0.95
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.38	1.75	0.95
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.38	2.61	0.95
Ethylbenzene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.38	1.65	0.95
m,p-Xylenes	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.38	1.65	0.95
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.38	2.00	0.95
Styrene	104.2	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.57	2.43	0.95
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.38	3.93	0.95
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.38	1.65	0.95
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.76	5.22	1.90
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.76	4.59	2.28
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.76	3.89	2.28
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.76	3.74	2.66
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.76	3.74	2.66
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.76	3.74	6.08
1,3,5-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.76	3.74	3.42
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.76	4.43	2.28
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.76	4.18	2.28
1,2,4-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.76	3.74	3.42
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.76	4.18	2.28
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.76	4.18	2.66
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.76	4.58	3.04
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.76	4.18	2.28
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.76	3.94	1.90
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.76	4.58	1.90
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.76	4.18	2.28
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.76	4.58	2.66
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.14	11.03	2.66
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.14	8.47	1.90
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	1.90	9.98	0.38
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.14	8.47	1.90
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	0.95	10.15	1.14
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		11.24	112	112	112	112	112	112	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.64	U	ND		ND		Y	0.00	0.00
4.70	U	ND		ND		Y	0.00	0.00
2.99	U	ND		ND		Y	0.00	0.00
1.96	U	ND		ND		Y	0.00	0.00
6.65	U	ND		ND		Y	0.00	0.00
2.43	U	ND		ND		Y	0.00	0.00
2.10	U	ND		ND		Y	0.00	0.00
3.69	U	ND		ND		Y	0.00	0.00
2.51	U	ND		ND		Y	0.00	0.00
23.03	U	ND		ND		Y	0.00	0.00
2.62	U	ND		ND		Y	0.00	0.00
5.35	U	ND		ND		Y	0.00	0.00
5.43	U	ND		ND		Y	0.00	0.00
11.69	U	ND		ND		Y	0.00	0.00
11.53	U	ND		ND		Y	0.00	0.00
6.67	U	ND		ND		Y	0.00	0.00
3.77	U	ND		ND		Y	0.00	0.00
2.48	U	ND		ND		Y	0.00	0.00
7.29	U	ND		ND		Y	0.00	0.00
11.91	U	ND		ND		Y	0.00	0.00
3.30	U	ND		ND		Y	0.00	0.00
2.96	U	ND		ND		Y	0.00	0.00
3.02	U	ND		ND		Y	0.00	0.00
2.74	U	ND		ND		Y	0.00	0.00
3.43	U	ND		ND		Y	0.00	0.00
3.85	U	ND		ND		Y	0.00	0.00
3.98	U	ND		ND		Y	0.00	0.00
13.40	U	ND		ND		Y	0.00	0.00
3.37	U	ND		ND		Y	0.00	0.00
9.54	U	ND		ND		Y	0.00	0.00
3.35	U	ND		ND		Y	0.00	0.00
2.61	U	ND		ND		Y	0.00	0.00
3.43	U	ND		ND		Y	0.00	0.00
5.03	U	ND		ND		Y	0.00	0.00
6.70	U	ND		ND		Y	0.00	0.00
3.37	U	ND		ND		Y	0.00	0.00
9.23	U	ND		ND		Y	0.00	0.00
3.77	U	ND		ND		Y	0.00	0.00
4.40	U	ND		ND		Y	0.00	0.00
4.65	U	ND		ND		Y	0.00	0.00
5.19	U	ND		ND		Y	0.00	0.00
3.85	U	ND		ND		Y	0.00	0.00
4.32	U	ND		ND		Y	0.00	0.00
3.28	U	ND		ND		Y	0.00	0.00
6.08	U	ND		ND		Y	0.00	0.00
5.98	U	ND		ND		Y	0.00	0.00
7.95	U	ND		ND		Y	0.00	0.00
4.44	U	ND		ND		Y	0.00	0.00
3.90	U	ND		ND		Y	0.00	0.00

4.40	U	ND	ND	Y	0.00	0.00
6.86	U	ND	ND	Y	0.00	0.00
6.76	U	ND	ND	Y	0.00	0.00
5.11	U	ND	ND	Y	0.00	0.00
6.37	U	ND	ND	Y	0.00	0.00
3.89	U	ND	ND	Y	0.00	0.00
12.48	U	ND	ND	Y	0.00	0.00
4.32	U	ND	ND	Y	0.00	0.00
3.58	U	ND	ND	Y	0.00	0.00
4.32	U	ND	ND	Y	0.00	0.00
5.19	U	ND	ND	Y	0.00	0.00
4.44	U	ND	ND	Y	0.00	0.00
12.48	U	ND	ND	Y	0.00	0.00
12.31	U	ND	ND	Y	0.00	0.00
4.44	U	ND	ND	Y	0.00	0.00
8.10	U	ND	ND	Y	0.00	0.00
7.31	U	ND	ND	Y	0.00	0.00
6.45	U	ND	ND	Y	0.00	0.00
4.38	U	ND	ND	Y	0.00	0.00
6.53	U	ND	ND	Y	0.00	0.00
4.13	U	ND	ND	Y	0.00	0.00
4.13	U	ND	ND	Y	0.00	0.00
4.99	U	ND	ND	Y	0.00	0.00
4.05	U	ND	ND	Y	0.00	0.00
9.83	U	ND	ND	Y	0.00	0.00
4.13	U	ND	ND	Y	0.00	0.00
13.06	U	ND	ND	Y	0.00	0.00
13.76	U	ND	ND	Y	0.00	0.00
11.67	U	ND	ND	Y	0.00	0.00
13.09	U	ND	ND	Y	0.00	0.00
13.09	U	ND	ND	Y	0.00	0.00
29.93	U	ND	ND	Y	0.00	0.00
16.84	U	ND	ND	Y	0.00	0.00
13.29	U	ND	ND	Y	0.00	0.00
12.53	U	ND	ND	Y	0.00	0.00
16.84	U	ND	ND	Y	0.00	0.00
12.53	U	ND	ND	Y	0.00	0.00
14.62	U	ND	ND	Y	0.00	0.00
18.30	U	ND	ND	Y	0.00	0.00
12.53	U	ND	ND	Y	0.00	0.00
9.85	U	ND	ND	Y	0.00	0.00
11.44	U	ND	ND	Y	0.00	0.00
12.53	U	ND	ND	Y	0.00	0.00
16.01	U	ND	ND	Y	0.00	0.00
25.74	U	ND	ND	Y	0.00	0.00
14.12	U	ND	ND	Y	0.00	0.00
2.00	U	ND	ND	Y	0.00	0.00
14.12	U	ND	ND	Y	0.00	0.00
12.18	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**18**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.14
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\left|\frac{(Astdni)\ (Cistdi)}{(Cstdni)\ (Aistdi)}\right|_i$ Note: 1

2) Raw Amt = $\frac{(Ansamp)}{(Avg\ RFn)}\ \frac{(Cistdi)}{(Aistdi)}$ = **Cn**

3) Amount ppbv = $\frac{(Raw\ Amt)\ 1000}{(SV)}\ (CDF)$

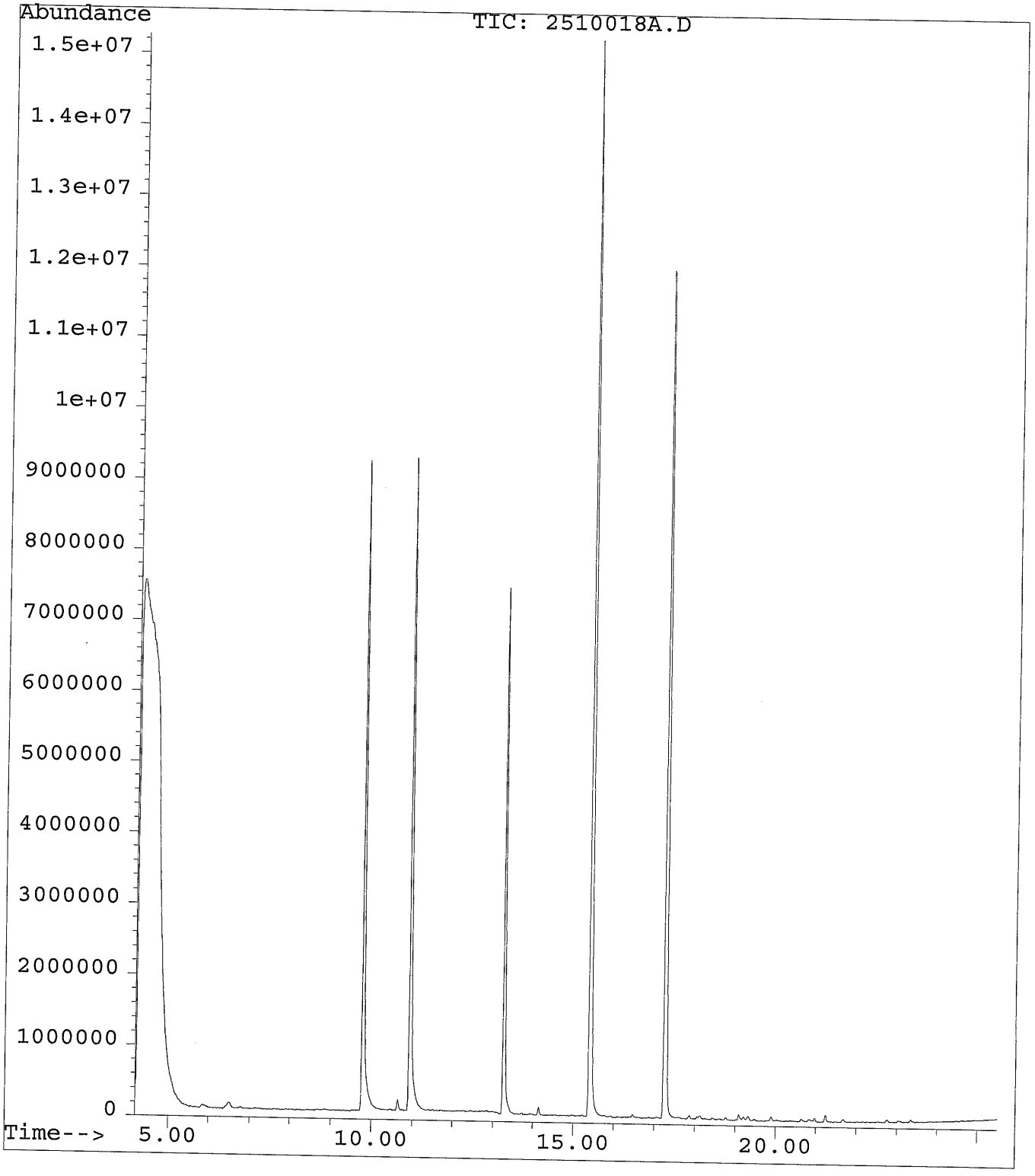
4) Amount ug/m3 = $\frac{(amt(ppbv)\ MW}{24.42}$

n	Compound	IS Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB TRG	42.1	0.246	0	20.0	9936495	0.000	0.00	0.00
3	Dichlorodifluoromethane	PFB TRG	120.9	1.109	0	20.0	9936495	0.000	0.00	0.00
4	Methanol	PFB TRG	32.0	1.100	0	20.0	9936495	0.000	0.00	0.00
5	Chloromethane	PFB TRG	50.5	0.391	0	20.0	9936495	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB TRG	170.9	0.898	0	20.0	9936495	0.000	0.00	0.00
7	Vinyl chloride	PFB TRG	62.5	0.389	0	20.0	9936495	0.000	0.00	0.00
8	1,3-Butadiene	PFB TRG	54.1	0.339	0	20.0	9936495	0.000	0.00	0.00
9	Bromomethane	PFB TRG	94.9	0.318	0	20.0	9936495	0.000	0.00	0.00
10	Chloroethane	PFB TRG	64.5	0.192	0	20.0	9936495	0.000	0.00	0.00
11	Ethanol	PFB TRG	46.1	0.142	0	20.0	9936495	0.000	0.00	0.00
12	Acrolein	PFB TRG	56.1	0.130	0	20.0	9936495	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB TRG	137.4	0.737	0	20.0	9936495	0.000	0.00	0.00
14	Acetone	PFB TRG	58.1	0.238	0	20.0	9936495	0.000	0.00	0.00
15	2-propanol (isopropylalcohol)	PFB TRG	60.1	0.996	0	20.0	9936495	0.000	0.00	0.00
16	t-Butyl alcohol	PFB TRG	74.1	0.910	0	20.0	9936495	0.000	0.00	0.00
17	Methyl iodide	PFB TRG	142.9	0.749	0	20.0	9936495	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB TRG	96.9	0.673	0	20.0	9936495	0.000	0.00	0.00
19	Acrylonitrile	PFB TRG	53.1	0.332	0	20.0	9936495	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB TRG	187.4	0.453	0	20.0	9936495	0.000	0.00	0.00
21	Allyl chloride	PFB TRG	76.5	0.172	0	20.0	9936495	0.000	0.00	0.00
22	Methylene chloride	PFB TRG	84.9	0.239	0	20.0	9936495	0.000	0.00	0.00
23	Carbon disulfide	PFB TRG	76.1	0.883	0	20.0	9936495	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB TRG	96.9	0.334	0	20.0	9936495	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB TRG	88.1	1.105	0	20.0	9936495	0.000	0.00	0.00
26	Propionitrile	PFB TRG	55.1	0.327	0	20.0	9936495	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB TRG	99.0	0.796	0	20.0	9936495	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB TRG	102.2	1.308	0	20.0	9936495	0.000	0.00	0.00
29	Vinyl acetate	PFB TRG	86.1	0.747	0	20.0	9936495	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB TRG	72.1	0.200	0	20.0	9936495	0.000	0.00	0.00
31	Diisopropyl ether	PFB TRG	102.2	0.270	0	20.0	9936495	0.000	0.00	0.00
32	Hexane	PFB TRG	86.2	0.739	0	20.0	9936495	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	9936495	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	9936495	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	9936495	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	9936495	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	9936495	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	9936495	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	9936495	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	9936495	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	9936495	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	11938426	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	11938426	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	11938426	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	11938426	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	0	20.0	11938426	0.000	0.00	0.00
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	11938426	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	11938426	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	11938426	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	11938426	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	11938426	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	11938426	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	11938426	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	11938426	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	11938426	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	11938426	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	11938426	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	11938426	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	0	20.0	11938426	0.000	0.00	0.00
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	11938426	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	11938426	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	11938426	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	11938426	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	11938426	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	11938426	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	11938426	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	11938426	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	11938426	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	16058876	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	16058876	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	0	20.0	16058876	0.000	0.00	0.00
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	0	20.0	16058876	0.000	0.00	0.00
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	16058876	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	0	20.0	16058876	0.000	0.00	0.00
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	16058876	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	0	20.0	16058876	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	16058876	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	16058876	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	16058876	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	16058876	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	16058876	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	16058876	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	0	20.0	16058876	0.000	0.00	0.00
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	16058876	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	16058876	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	0	20.0	16058876	0.000	0.00	0.00
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	16058876	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	16058876	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	16058876	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	16058876	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	16058876	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	16058876	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	16058876	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	16058876	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	16058876	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	16058876	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	16058876	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	16058876	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	16058876	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	9936495	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	11938426	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	16058876	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	8251045	10.0		11.242	112.42	112

File : C:\MSCHEM\1\DATA\03315A_C\2510018A.D
Operator : MM
Acquired : 31 Mar 125 12:32 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-118
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **19**

Client ID T-201

Analytical Method TO-15

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Analytical Report
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Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 19

File Name: 2510019A.D
Description: T-201
Canister: 726
QC_Batch: 040125-MA1

Date Sampled: 03/20/25 **Time:** 08:23
Date Analyzed: 04/01/25 **Time:** 13:08
Can Dilution Factor: 1.21
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	1.01	0.93	0.70	1.74	1.61	J
75-71-8	Dichlorodifluoromethane	0.61	1.01	ND	3.00	4.99	ND	
67-56-1	Methanol	2.02	2.42	2.27	2.64	3.17	2.98	J
74-87-3	Chloromethane	0.61	1.01	ND	1.25	2.09	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	1.01	ND	2.82	7.06	ND	
75-01-4	Vinyl chloride	0.20	1.01	ND	0.52	2.58	ND	
106-99-0	1,3-Butadiene	0.20	1.01	ND	0.45	2.23	ND	
74-83-9	Bromomethane	0.40	1.01	ND	1.57	3.92	ND	
75-00-3	Chloroethane	0.40	1.01	ND	1.07	2.66	ND	
64-17-5	Ethanol	2.02	12.95	ND	3.81	24.44	ND	
107-02-8	Acrolein	0.40	1.21	1.00	0.93	2.78	2.29	J
75-69-4	Trichlorofluoromethane	0.40	1.01	ND	2.27	5.67	ND	
67-64-1	Acetone	2.02	2.42	4.66	4.80	5.76	11.09	
67-63-0	2-propanol (isopropylalcohol)	0.81	5.04	ND	1.99	12.41	ND	
75-65-0	t-Butyl alcohol	0.40	4.03	ND	1.22	12.24	ND	
4227-95-6	Methyl iodide	0.40	1.21	ND	2.36	7.08	ND	
75-35-4	1,1-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
107-13-1	Acrylonitrile	0.81	1.21	ND	1.75	2.63	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.01	ND	1.55	7.74	ND	
107-05-1	Allyl chloride	0.20	4.03	ND	0.63	12.64	ND	
75-09-2	Methylene chloride	0.20	1.01	ND	0.70	3.51	ND	
75-15-0	Carbon disulfide	0.40	1.01	ND	1.26	3.14	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.81	ND	0.80	3.20	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.81	ND	1.46	2.91	ND	
107-12-0	Propionitrile	1.01	1.61	ND	2.28	3.64	ND	
75-34-3	1,1-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
637-92-3	Ethyl tert butyl ether	0.40	1.01	ND	1.69	4.22	ND	
108-05-4	Vinyl acetate	0.20	4.03	ND	0.71	14.22	ND	
78-93-3	2-Butanone (MEK)	0.40	1.21	0.52	1.19	3.57	1.55	J
108-20-3	Diisopropyl ether	0.40	2.42	ND	1.69	10.13	ND	
110-54-3	Hexane	0.40	1.01	ND	1.42	3.56	ND	
126-98-7	Methacrylonitrile	0.40	1.01	ND	1.11	2.77	ND	
141-78-6	Ethyl acetate	0.40	1.01	ND	1.46	3.64	ND	
74-97-5	Bromochloromethane	0.20	1.01	ND	1.07	5.34	ND	
96-33-3	Methyl acrylate	0.40	2.02	ND	1.42	7.11	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.21	ND	0.60	3.57	ND	
78-83-1	Isobutyl alcohol	0.81	3.23	ND	2.45	9.79	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
594-20-7	2,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
67-66-3	Chloroform	0.20	1.01	0.29	0.99	4.93	1.41	J
71-55-6	1,1,1-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
107-06-2	1,2-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
563-58-6	1,1-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
110-82-7	Cyclohexane	0.20	1.01	ND	0.70	3.48	ND	
71-43-2	Benzene	1.41	2.02	ND	4.52	6.45	ND	
56-23-5	Carbon tetrachloride	0.20	1.01	ND	1.27	6.35	ND	
994-05-8	t-Amyl methyl ether	0.40	2.02	ND	1.69	8.44	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.01	ND	0.94	4.72	ND	
142-82-5	n-Heptane	0.40	1.01	ND	1.66	4.14	ND	
78-87-5	1,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
123-91-1	1,4 Dioxane	0.40	2.02	ND	1.46	7.28	ND	
74-95-3	Dibromomethane	0.20	1.01	ND	1.44	7.18	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.01	ND	0.54	5.43	ND	
75-27-4	Bromodichloromethane	0.20	1.01	ND	1.35	6.76	ND	
80-62-6	Methyl methacrylate	0.40	1.01	ND	1.65	4.13	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.23	ND	1.66	13.24	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
108-88-3	Toluene	0.81	1.01	ND	3.04	3.80	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
97-63-2	Ethyl methacrylate	0.40	1.01	ND	1.89	4.72	ND	
591-78-6	2-Hexanone	0.40	3.23	ND	1.66	13.24	ND	
142-28-9	1,3-Dichloropropane	0.20	2.82	ND	0.93	13.07	ND	
111-65-9	Octane	0.40	1.01	ND	1.89	4.72	ND	
124-48-1	Dibromochloromethane	0.40	1.01	ND	3.44	8.60	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	1.01	ND	3.10	7.76	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.01	ND	0.68	6.85	ND	
108-90-7	Chlorobenzene	0.40	1.01	ND	1.86	4.65	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	1.01	ND	2.77	6.93	ND	
100-41-4	Ethylbenzene	0.40	1.01	ND	1.75	4.39	ND	
1330-20-7	m,p-Xylenes	0.40	1.01	ND	1.75	4.39	ND	
111-84-2	Nonane	0.40	1.01	ND	2.12	5.30	ND	
100-42-5	Styrene	0.61	1.01	ND	2.58	4.30	ND	
75-25-2	Bromoform	0.40	1.01	ND	4.17	10.44	ND	
95-47-6	o-Xylene	0.40	1.01	ND	1.75	4.39	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.81	2.02	ND	5.54	13.86	ND	
96-18-4	1,2,3-Trichloropropane	0.81	2.42	ND	4.87	14.61	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.81	2.42	ND	4.13	12.39	ND	
103-65-1	n-Propylbenzene	0.81	2.82	ND	3.97	13.90	ND	
98-82-8	Isopropylbenzene	0.81	2.82	ND	3.97	13.90	ND	
622-96-8	4-Ethyltoluene	0.81	6.45	ND	3.97	31.77	ND	
108-67-8	1,3,5-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
124-18-5	Decane	0.81	2.42	ND	4.70	14.10	ND	
98-06-6	tert-butyl benzene	0.81	2.42	ND	4.43	13.30	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
538-93-2	i-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
135-98-8	sec-butylbenzene	0.81	2.82	ND	4.43	15.52	ND	
541-73-1	1,3-Dichlorobenzene	0.81	3.23	ND	4.86	19.43	ND	
99-87-6	Isopropyltoluene	0.81	2.42	ND	4.43	13.30	ND	
100-44-7	Benzyl chloride	0.81	2.02	ND	4.18	10.46	ND	
106-46-7	1,4-Dichlorobenzene	0.81	2.02	ND	4.86	12.14	ND	
104-51-8	n-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
95-50-1	1,2-Dichlorobenzene	0.81	2.82	ND	4.86	17.00	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.21	2.82	ND	11.71	27.32	ND	
120-82-1	1,2,4-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
91-20-3	Naphthalene	2.02	0.40	ND	10.59	2.12	ND	
87-61-6	1,2,3-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
87-68-3	Hexachlorobutadiene	1.01	1.21	ND	10.77	12.92	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	100	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

File Name:	2510019A.D			**SDG:**	225100		
Sample ID:	T-201	**Method:**	TO-15	**EAS ID:**	19		
MiscInfo-Vol:	SCHMIDT	**Matrix:**	AA	**Date Sampled:**	03/20/25	**Time:**	8:23
Anal Date:	1 Apr 125 4:49 pm	**Detect:**	ND	**Date Received:**	03/21/25	**Time:**	14:30
Quant Method:	A15CS2_P.M	**SF:**	2	**Date Analyzed:**	04/01/25	**Time:**	13:08
Run Method:	A1563_P.M	**MDLSF:**	2	**QCbatch:**	040125-MA1		
Cal Update:	Wed Apr 02 15:12:33 2025	**Type:**	TRG	**Volume:**	300.0		
Instrument:	5970 - MS	**Instrument:**	MA1	**Can (Vial) No:**	726		
Analyst:	DA	**EDD SURR:**	PERCENT	**Can Factor:**	1.21		
Template:	**A15CHIQ.MA1**	**UnitDil:**	1000 PPBV	**SamType:**	SA		
Temp	**24.5**	**MDL FAC**	1 UG/M3				
		EFLAG:	1.3				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.232	4.41	42.00	34235
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.563	4.86	31.00	372027
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.218	5.72	46.00	18627
107-02-8	Acrolein	12	TRG	0.247	6.32	56.00	19268
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	1.156	6.42	58.00	165575
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.103	6.45	45.00	61730
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.050	7.61	76.00	26583
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.130	8.75	72.00	15610
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.071	9.42	83.00	**30682**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.277	10.70	78.00	232577
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.063	13.50	91.00	73500
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.000	15.90	106	0
1330-20-7	m,p-Xylenes	75	TRG	0.000	16.06	91.00	0
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.000	16.61	104.00	0
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	0.00	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.011	18.23	105.00	18262
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.016	18.31	105.00	24378
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.010	18.95	105.00	15027
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**12015299**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**15634224**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15196951**
2037-26-5	Toluene-d8	103	SURR	10.027	13.40	98.00	**9637336**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 2E+05
Laboratory Number: 19
File Name: 2510019A.D
Run Method: A1563_P.M
Can Factor: 1.21
Air Volume: 300.0 ml
Can/Tube Number: 726
Dilution Factor: 0.3630
Base Volume: 1000 ml
Unit Factor (ppbv): 1000 PPBV UG/M3

EDD SURR: PERCENT	
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3630
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.23	0.93	1.61	0.93	1.61	1.61	1.61	0.100	0.250	0.40	0.70	1.01
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.61	3.00	1.01
Methanol	32.0	0.56	2.27	2.98	2.27	2.98	2.98	2.98	0.500	0.600	2.02	2.64	2.42
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.61	1.25	1.01
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.82	1.01
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.52	1.01
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.45	1.01
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.57	1.01
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.07	1.01
Ethanol	46.1	0.22	0.88	1.66	ND	ND	0		0.500	3.210	2.02	3.81	12.95
Acrolein	56.1	0.25	1.00	2.29	1.00	2.29	2.29	2.29	0.100	0.300	0.40	0.93	1.21
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.27	1.01
Acetone	58.1	1.16	4.66	11.09	4.66	11.09	11.09	11.09	0.500	0.600	2.02	4.80	2.42
2-propanol (isopropylalcohol)	60.1	0.10	0.42	1.02	ND	ND	0		0.200	1.250	0.81	1.99	5.04
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.40	1.22	4.03
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.40	2.36	1.21
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.80	1.01
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.81	1.75	1.21
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.55	1.01
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.63	4.03
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.70	1.01
Carbon disulfide	76.1	0.05	0.20	0.63	ND	ND	0		0.100	0.250	0.40	1.26	1.01
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.20	0.80	0.81
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.40	1.46	0.81
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.01	2.28	1.61
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.82	1.01
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.69	1.01
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.71	4.03
2-Butanone (MEK)	72.1	0.13	0.52	1.55	0.52	1.55	1.55	1.55	0.100	0.300	0.40	1.19	1.21
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.40	1.69	2.42
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.42	1.01
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.11	1.01
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.46	1.01
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.07	1.01
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.42	2.02
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.20	0.60	1.21
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.81	2.45	3.23
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.80	1.01
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.93	1.01
Chloroform	119.4	0.07	0.29	1.41	0.29	1.41	1.41	1.41	0.050	0.250	0.20	0.99	1.01
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.10	1.01
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.82	1.01
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	1.01
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.70	1.01
Benzene	78.1	0.28	1.12	3.58	ND	ND	0		0.350	0.500	1.41	4.52	2.02
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.27	1.01
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.69	2.02
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.94	1.01
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.66	1.01

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.20	0.93	1.01	
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0	0.100	0.500	0.40	1.46	2.02	
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.20	1.44	1.01	
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0	0.025	0.250	0.10	0.54	1.01	
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.20	1.35	1.01	
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.40	1.65	1.01	
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0	0.100	0.800	0.40	1.66	3.23	
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.20	0.92	1.01	
Toluene	92.1	0.06	0.25	0.95	ND	ND	0	0.200	0.250	0.81	3.04	1.01	
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.20	0.92	1.01	
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.20	1.10	1.01	
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.40	1.89	1.01	
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0	0.100	0.800	0.40	1.66	3.23	
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0	0.050	0.700	0.20	0.93	2.82	
Octane	114.2	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.40	1.89	1.01	
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.40	3.44	1.01	
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.40	3.10	1.01	
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0	0.025	0.250	0.10	0.68	1.01	
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.40	1.86	1.01	
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.40	2.77	1.01	
Ethylbenzene	106.2	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.40	1.75	1.01	
m,p-Xylenes	106.2	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.40	1.75	1.01	
Nonane	128.3	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.40	2.12	1.01	
Styrene	104.2	0.00	0.00	0.00	ND	ND	0	0.150	0.250	0.61	2.58	1.01	
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.40	4.17	1.01	
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.40	1.75	1.01	
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0	0.200	0.500	0.81	5.54	2.02	
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0	0.200	0.600	0.81	4.87	2.42	
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0	0.200	0.600	0.81	4.13	2.42	
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0	0.200	0.700	0.81	3.97	2.82	
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0	0.200	0.700	0.81	3.97	2.82	
4-Ethyltoluene	120.2	0.01	0.04	0.22	ND	ND	0	0.200	1.600	0.81	3.97	6.45	
1,3,5-Trimethylbenzene	120.2	0.02	0.07	0.33	ND	ND	0	0.200	0.900	0.81	3.97	3.63	
Decane	142.3	0.00	0.00	0.00	ND	ND	0	0.200	0.600	0.81	4.70	2.42	
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0	0.200	0.600	0.81	4.43	2.42	
1,2,4-Trimethylbenzene	120.2	0.01	0.04	0.19	ND	ND	0	0.200	0.900	0.81	3.97	3.63	
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0	0.200	0.600	0.81	4.43	2.42	
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0	0.200	0.700	0.81	4.43	2.82	
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0	0.200	0.800	0.81	4.86	3.23	
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0	0.200	0.600	0.81	4.43	2.42	
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0	0.200	0.500	0.81	4.18	2.02	
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0	0.200	0.500	0.81	4.86	2.02	
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0	0.200	0.600	0.81	4.43	2.42	
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0	0.200	0.700	0.81	4.86	2.82	
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0	0.300	0.700	1.21	11.71	2.82	
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0	0.300	0.500	1.21	8.99	2.02	
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0	0.500	0.100	2.02	10.59	0.40	
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0	0.300	0.500	1.21	8.99	2.02	
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0	0.250	0.300	1.01	10.77	1.21	
Pentafluorobenzene		20.00						20.0	20.0				
1,4-Difluorobenzene		20.00						20.0	20.0				
Chlorobenzene-d5		20.00						20.0	20.0				
Toluene-d8		10.03	100	100	100	100	100	100	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.74	J	J		=		Y	0.93	1.61
4.99	U	ND		ND		Y	0.00	0.00
3.17	J	J		=		Y	2.27	2.98
2.09	U	ND		ND		Y	0.00	0.00
7.06	U	ND		ND		Y	0.00	0.00
2.58	U	ND		ND		Y	0.00	0.00
2.23	U	ND		ND		Y	0.00	0.00
3.92	U	ND		ND		Y	0.00	0.00
2.66	U	ND		ND		Y	0.00	0.00
24.44	U	ND		ND		Y	0.00	0.00
2.78	J	J		=		Y	1.00	2.29
5.67	U	ND		ND		Y	0.00	0.00
5.76				=		Y	4.66	11.09
12.41	U	ND		ND		Y	0.00	0.00
12.24	U	ND		ND		Y	0.00	0.00
7.08	U	ND		ND		Y	0.00	0.00
4.00	U	ND		ND		Y	0.00	0.00
2.63	U	ND		ND		Y	0.00	0.00
7.74	U	ND		ND		Y	0.00	0.00
12.64	U	ND		ND		Y	0.00	0.00
3.51	U	ND		ND		Y	0.00	0.00
3.14	U	ND		ND		Y	0.00	0.00
3.20	U	ND		ND		Y	0.00	0.00
2.91	U	ND		ND		Y	0.00	0.00
3.64	U	ND		ND		Y	0.00	0.00
4.09	U	ND		ND		Y	0.00	0.00
4.22	U	ND		ND		Y	0.00	0.00
14.22	U	ND		ND		Y	0.00	0.00
3.57	J	J		=		Y	0.52	1.55
10.13	U	ND		ND		Y	0.00	0.00
3.56	U	ND		ND		Y	0.00	0.00
2.77	U	ND		ND		Y	0.00	0.00
3.64	U	ND		ND		Y	0.00	0.00
5.34	U	ND		ND		Y	0.00	0.00
7.11	U	ND		ND		Y	0.00	0.00
3.57	U	ND		ND		Y	0.00	0.00
9.79	U	ND		ND		Y	0.00	0.00
4.00	U	ND		ND		Y	0.00	0.00
4.67	U	ND		ND		Y	0.00	0.00
4.93	J	J		=		Y	0.29	1.41
5.51	U	ND		ND		Y	0.00	0.00
4.09	U	ND		ND		Y	0.00	0.00
4.58	U	ND		ND		Y	0.00	0.00
3.48	U	ND		ND		Y	0.00	0.00
6.45	U	ND		ND		Y	0.00	0.00
6.35	U	ND		ND		Y	0.00	0.00
8.44	U	ND		ND		Y	0.00	0.00
4.72	U	ND		ND		Y	0.00	0.00
4.14	U	ND		ND		Y	0.00	0.00

4.67	U	ND	ND	Y	0.00	0.00
7.28	U	ND	ND	Y	0.00	0.00
7.18	U	ND	ND	Y	0.00	0.00
5.43	U	ND	ND	Y	0.00	0.00
6.76	U	ND	ND	Y	0.00	0.00
4.13	U	ND	ND	Y	0.00	0.00
13.24	U	ND	ND	Y	0.00	0.00
4.58	U	ND	ND	Y	0.00	0.00
3.80	U	ND	ND	Y	0.00	0.00
4.58	U	ND	ND	Y	0.00	0.00
5.51	U	ND	ND	Y	0.00	0.00
4.72	U	ND	ND	Y	0.00	0.00
13.24	U	ND	ND	Y	0.00	0.00
13.07	U	ND	ND	Y	0.00	0.00
4.72	U	ND	ND	Y	0.00	0.00
8.60	U	ND	ND	Y	0.00	0.00
7.76	U	ND	ND	Y	0.00	0.00
6.85	U	ND	ND	Y	0.00	0.00
4.65	U	ND	ND	Y	0.00	0.00
6.93	U	ND	ND	Y	0.00	0.00
4.39	U	ND	ND	Y	0.00	0.00
4.39	U	ND	ND	Y	0.00	0.00
5.30	U	ND	ND	Y	0.00	0.00
4.30	U	ND	ND	Y	0.00	0.00
10.44	U	ND	ND	Y	0.00	0.00
4.39	U	ND	ND	Y	0.00	0.00
13.86	U	ND	ND	Y	0.00	0.00
14.61	U	ND	ND	Y	0.00	0.00
12.39	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
31.77	U	ND	ND	Y	0.00	0.00
17.87	U	ND	ND	Y	0.00	0.00
14.10	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
17.87	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
15.52	U	ND	ND	Y	0.00	0.00
19.43	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
10.46	U	ND	ND	Y	0.00	0.00
12.14	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
17.00	U	ND	ND	Y	0.00	0.00
27.32	U	ND	ND	Y	0.00	0.00
14.98	U	ND	ND	Y	0.00	0.00
2.12	U	ND	ND	Y	0.00	0.00
14.98	U	ND	ND	Y	0.00	0.00
12.92	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**19**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.21
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\frac{(Astdni)\ (Cistdi)}{(Cstdni)\ (Aistdi)}$ Note: 1 i

2) Raw Amt = $\frac{(Ansamp)}{(Avg\ RFn)}$ $\frac{(Cistdi)}{(Aistdi)}$ **= Cn**

3) Amount ppbv = $\frac{(Raw\ Amt)\ 1000\ (CDF)}{(SV)}$

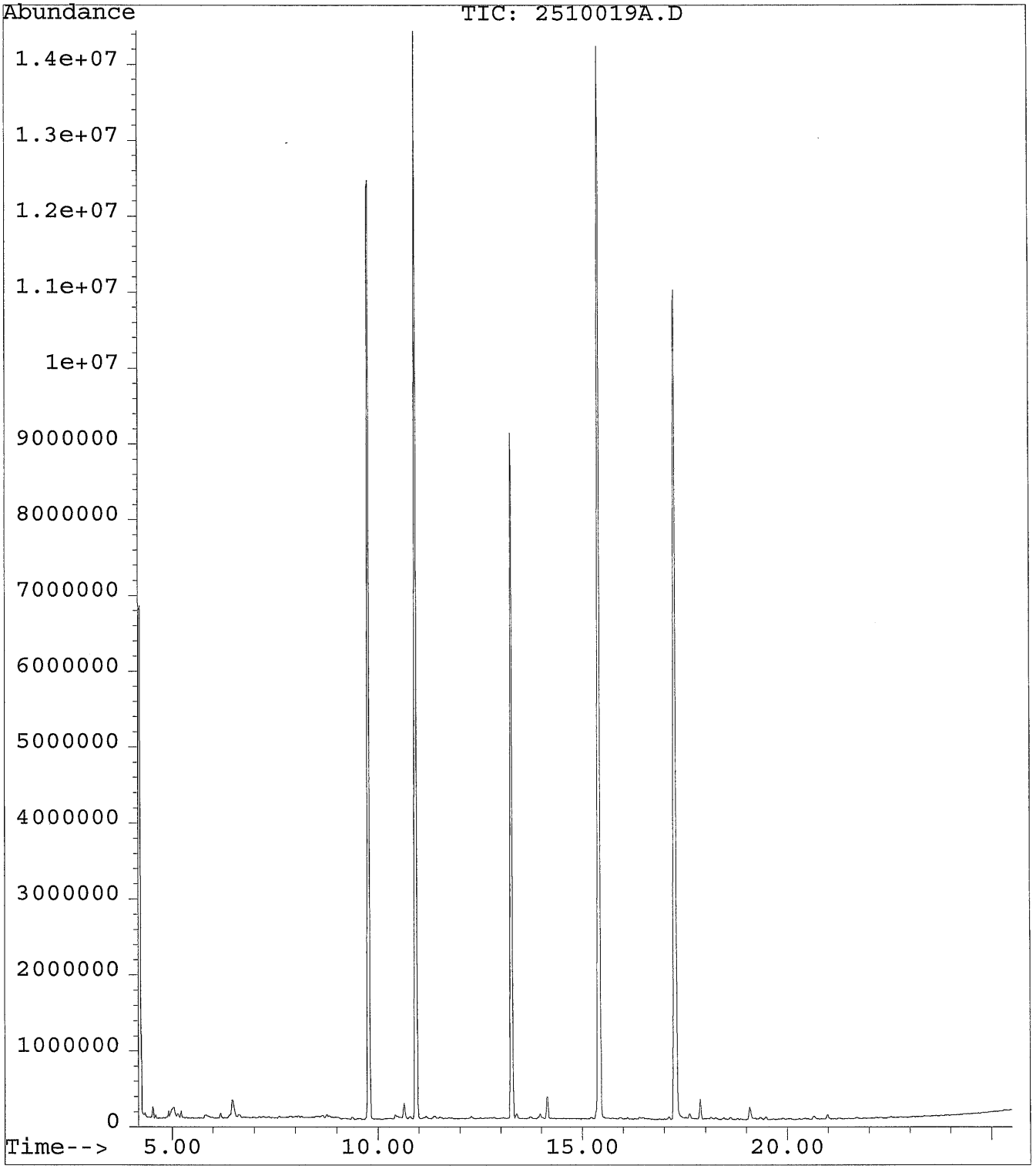
4) Amount ug/m3 = $\frac{(amt(ppbv)\ MW}{24.42}$

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	34235	20.0	12015299	0.232	0.93	1.61
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	12015299	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	372027	20.0	12015299	0.563	2.27	2.98
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	12015299	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	12015299	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	12015299	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	12015299	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	12015299	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	12015299	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	18627	20.0	12015299	0.218	0.88	1.66
12	Acrolein	PFB	TRG	56.1	0.130	19268	20.0	12015299	0.247	1.00	2.29
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	12015299	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	165575	20.0	12015299	1.156	4.66	11.09
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	61730	20.0	12015299	0.103	0.42	1.02
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	12015299	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	12015299	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	12015299	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	12015299	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	12015299	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	12015299	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	12015299	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	26583	20.0	12015299	0.050	0.20	0.63
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	12015299	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	12015299	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	12015299	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	12015299	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	12015299	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	12015299	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	15610	20.0	12015299	0.130	0.52	1.55
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	12015299	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	12015299	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	12015299	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	12015299	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	12015299	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	12015299	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	12015299	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	12015299	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	12015299	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	12015299	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	30682	20.0	12015299	0.071	0.29	1.41
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	15634224	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	15634224	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	15634224	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	15634224	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	232577	20.0	15634224	0.277	1.12	3.58
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	15634224	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	15634224	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	15634224	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	15634224	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	15634224	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	15634224	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	15634224	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	15634224	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	15634224	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	15634224	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	15634224	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	15634224	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	73500	20.0	15634224	0.063	0.25	0.95
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	15634224	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	15634224	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	15634224	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	15634224	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	15634224	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	15634224	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	15634224	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	15634224	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	15634224	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	15196951	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	15196951	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	0	20.0	15196951	0.000	0.00	0.00
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	0	20.0	15196951	0.000	0.00	0.00
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	15196951	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	0	20.0	15196951	0.000	0.00	0.00
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	15196951	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	0	20.0	15196951	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	15196951	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	15196951	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	15196951	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	15196951	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	15196951	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	18262	20.0	15196951	0.011	0.04	0.22
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	24378	20.0	15196951	0.016	0.07	0.33
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	15196951	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	15196951	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	15027	20.0	15196951	0.010	0.04	0.19
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	15196951	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	15196951	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	15196951	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	15196951	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	15196951	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	15196951	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	15196951	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	15196951	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	15196951	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	15196951	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	15196951	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	15196951	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	15196951	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	12015299	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	15634224	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15196951	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9637336	10.0		10.027	100.27	100

File : C:\MSCHEM\1\DATA\04015A_C\2510019A.D
Operator : DA
Acquired : 1 Apr 125 4:49 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-201
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **20**

Client ID T-202

Analytical Method TO-15

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Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 20**

File Name: 2510020A.D **Date Sampled:** 03/20/25 **Time:** 08:38
Description: T-202 **Date Analyzed:** 04/01/25 **Time:** 17:51
Canister: 883 **Can Dilution Factor:** 1.18
QC_Batch: 040125-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.39	0.98	2.81	0.68	1.69	4.83	
75-71-8	Dichlorodifluoromethane	0.59	0.98	ND	2.92	4.87	ND	
67-56-1	Methanol	1.97	2.36	ND	2.58	3.09	ND	
74-87-3	Chloromethane	0.59	0.98	ND	1.22	2.03	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.39	0.98	ND	2.75	6.88	ND	
75-01-4	Vinyl chloride	0.20	0.98	ND	0.51	2.52	ND	
106-99-0	1,3-Butadiene	0.20	0.98	ND	0.44	2.18	ND	
74-83-9	Bromomethane	0.39	0.98	ND	1.53	3.82	ND	
75-00-3	Chloroethane	0.39	0.98	ND	1.04	2.60	ND	
64-17-5	Ethanol	1.97	12.63	ND	3.71	23.84	ND	
107-02-8	Acrolein	0.39	1.18	2.14	0.90	2.71	4.92	
75-69-4	Trichlorofluoromethane	0.39	0.98	ND	2.21	5.53	ND	
67-64-1	Acetone	1.97	2.36	4.69	4.68	5.62	11.16	
67-63-0	2-propanol (isopropylalcohol)	0.79	4.92	ND	1.94	12.10	ND	
75-65-0	t-Butyl alcohol	0.39	3.93	ND	1.19	11.94	ND	
4227-95-6	Methyl iodide	0.39	1.18	ND	2.30	6.91	ND	
75-35-4	1,1-Dichloroethene	0.20	0.98	ND	0.78	3.90	ND	
107-13-1	Acrylonitrile	0.79	1.18	ND	1.71	2.57	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	0.98	ND	1.51	7.55	ND	
107-05-1	Allyl chloride	0.20	3.93	ND	0.62	12.32	ND	
75-09-2	Methylene chloride	0.20	0.98	ND	0.68	3.42	ND	
75-15-0	Carbon disulfide	0.39	0.98	ND	1.23	3.06	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.79	ND	0.78	3.12	ND	
1634-04-4	Methyl tert butyl ether	0.39	0.79	ND	1.42	2.84	ND	
107-12-0	Propionitrile	0.98	1.57	ND	2.22	3.55	ND	
75-34-3	1,1-Dichloroethane	0.20	0.98	ND	0.80	3.99	ND	
637-92-3	Ethyl tert butyl ether	0.39	0.98	ND	1.65	4.12	ND	
108-05-4	Vinyl acetate	0.20	3.93	ND	0.69	13.87	ND	
78-93-3	2-Butanone (MEK)	0.39	1.18	0.60	1.16	3.48	1.77	J
108-20-3	Diisopropyl ether	0.39	2.36	ND	1.65	9.88	ND	
110-54-3	Hexane	0.39	0.98	ND	1.39	3.47	ND	
126-98-7	Methacrylonitrile	0.39	0.98	ND	1.08	2.70	ND	
141-78-6	Ethyl acetate	0.39	0.98	ND	1.42	3.55	ND	
74-97-5	Bromochloromethane	0.20	0.98	ND	1.04	5.21	ND	
96-33-3	Methyl acrylate	0.39	1.97	ND	1.39	6.93	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.18	ND	0.58	3.48	ND	
78-83-1	Isobutyl alcohol	0.79	3.15	ND	2.39	9.55	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	0.98	ND	0.78	3.90	ND	
594-20-7	2,2-Dichloropropane	0.20	0.98	ND	0.91	4.55	ND	
67-66-3	Chloroform	0.20	0.98	ND	0.96	4.81	ND	
71-55-6	1,1,1-Trichloroethane	0.20	0.98	ND	1.07	5.37	ND	
107-06-2	1,2-Dichloroethane	0.20	0.98	ND	0.80	3.99	ND	
563-58-6	1,1-Dichloropropene	0.20	0.98	ND	0.89	4.47	ND	
110-82-7	Cyclohexane	0.20	0.98	ND	0.68	3.39	ND	
71-43-2	Benzene	1.38	1.97	1.49	4.40	6.29	4.76	J
56-23-5	Carbon tetrachloride	0.20	0.98	ND	1.24	6.19	ND	
994-05-8	t-Amyl methyl ether	0.39	1.97	ND	1.65	8.23	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	0.98	ND	0.92	4.60	ND	
142-82-5	n-Heptane	0.39	0.98	ND	1.61	4.04	ND	
78-87-5	1,2-Dichloropropane	0.20	0.98	ND	0.91	4.55	ND	
123-91-1	1,4 Dioxane	0.39	1.97	ND	1.42	7.10	ND	
74-95-3	Dibromomethane	0.20	0.98	ND	1.40	7.00	ND	
79-01-6	Trichloroethene (TCE)	0.10	0.98	ND	0.53	5.29	ND	
75-27-4	Bromodichloromethane	0.20	0.98	ND	1.32	6.60	ND	
80-62-6	Methyl methacrylate	0.39	0.98	ND	1.61	4.03	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.39	3.15	ND	1.61	12.91	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	0.98	ND	0.89	4.47	ND	
108-88-3	Toluene	0.79	0.98	ND	2.97	3.71	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	0.98	ND	0.89	4.47	ND	
79-00-5	1,1,2-Trichloroethane	0.20	0.98	ND	1.07	5.37	ND	
97-63-2	Ethyl methacrylate	0.39	0.98	ND	1.84	4.60	ND	
591-78-6	2-Hexanone	0.39	3.15	ND	1.61	12.91	ND	
142-28-9	1,3-Dichloropropane	0.20	2.75	ND	0.91	12.74	ND	
111-65-9	Octane	0.39	0.98	ND	1.84	4.60	ND	
124-48-1	Dibromochloromethane	0.39	0.98	ND	3.36	8.39	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.39	0.98	ND	3.03	7.57	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	0.98	ND	0.67	6.68	ND	
108-90-7	Chlorobenzene	0.39	0.98	ND	1.81	4.53	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.39	0.98	ND	2.70	6.76	ND	
100-41-4	Ethylbenzene	0.39	0.98	ND	1.71	4.28	ND	
1330-20-7	m,p-Xylenes	0.39	0.98	ND	1.71	4.28	ND	
111-84-2	Nonane	0.39	0.98	ND	2.07	5.17	ND	
100-42-5	Styrene	0.59	0.98	ND	2.52	4.20	ND	
75-25-2	Bromoform	0.39	0.98	ND	4.07	10.18	ND	
95-47-6	o-Xylene	0.39	0.98	ND	1.71	4.28	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.79	1.97	ND	5.41	13.52	ND	
96-18-4	1,2,3-Trichloropropane	0.79	2.36	ND	4.75	14.25	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.79	2.36	ND	4.03	12.08	ND	
103-65-1	n-Propylbenzene	0.79	2.75	ND	3.87	13.55	ND	
98-82-8	Isopropylbenzene	0.79	2.75	ND	3.87	13.55	ND	
622-96-8	4-Ethyltoluene	0.79	6.29	ND	3.87	30.98	ND	
108-67-8	1,3,5-Trimethylbenzene	0.79	3.54	ND	3.87	17.43	ND	
124-18-5	Decane	0.79	2.36	ND	4.58	13.75	ND	
98-06-6	tert-butyl benzene	0.79	2.36	ND	4.32	12.97	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.79	3.54	ND	3.87	17.43	ND	
538-93-2	i-Butylbenzene	0.79	2.36	ND	4.32	12.97	ND	
135-98-8	sec-butylbenzene	0.79	2.75	ND	4.32	15.13	ND	
541-73-1	1,3-Dichlorobenzene	0.79	3.15	ND	4.74	18.94	ND	
99-87-6	Isopropyltoluene	0.79	2.36	ND	4.32	12.97	ND	
100-44-7	Benzyl chloride	0.79	1.97	ND	4.08	10.20	ND	
106-46-7	1,4-Dichlorobenzene	0.79	1.97	ND	4.74	11.84	ND	
104-51-8	n-Butylbenzene	0.79	2.36	ND	4.32	12.97	ND	
95-50-1	1,2-Dichlorobenzene	0.79	2.75	ND	4.74	16.58	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.18	2.75	ND	11.42	26.65	ND	
120-82-1	1,2,4-Trichlorobenzene	1.18	1.97	ND	8.77	14.61	ND	
91-20-3	Naphthalene	1.97	0.39	ND	10.33	2.07	ND	
87-61-6	1,2,3-Trichlorobenzene	1.18	1.97	ND	8.77	14.61	ND	
87-68-3	Hexachlorobutadiene	0.98	1.18	ND	10.50	12.60	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	102	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	225100		
				EAS ID:	20		
File Name:	2510020A.D	Method:	TO-15	Date Sampled:	03/20/25	Time:	8:38
Sample ID:	T-202	Matrix:	AA	Date Received:	03/21/25	Time:	14:30
MiscInfo-Vol:	SCHMIDT	Detect:	ND	Date Analyzed:	04/01/25	Time:	17:51
Anal Date:	1 Apr 125 5:51 pm	SF:	2	QCbatch:	040125-MA1		
Quant Method:	A15CS2_P.M	MDLSF:	2	Volume:	300.0		
Run Method:	A1563_P.M	Type:	TRG	Can (Vial) No:	883		
Cal Update:	Wed Apr 02 15:12:33 2025	Instrument:	MA1	Can Factor:	1.18		
Instrument:	5970 - MS	EDD SURR:	PERCENT	SamType:	SA		
Analyst:	UG	UnitDil:	1000	PPBV			
Template:	A15CHIQ.MA1	MDL FAC	1	UG/M3			
Temp	24.5	EFLAG:	1.3				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.713	4.41	42.00	122444
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.264	4.86	31.00	202535
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.182	5.72	46.00	18033
107-02-8	Acrolein	12	TRG	0.544	6.32	56.00	49241
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	1.192	6.42	58.00	198423
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.103	6.45	45.00	71256
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.152	8.75	72.00	21242
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.379	10.70	78.00	332070
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.103	13.50	91.00	126724
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.033	15.90	106	48278
1330-20-7	m,p-Xylenes	75	TRG	0.050	16.06	91.00	65323
111-84-2	Nonane	76	TRG	0.018	16.43	57.00	19330
100-42-5	Styrene	77	TRG	0.040	16.61	104.00	36788
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.024	16.55	91.00	32327
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.008	18.04	91.00	20455
98-82-8	Isopropylbenzene	84	TRG	0.018	18.23	105.00	46638
622-96-8	4-Ethyltoluene	85	TRG	0.026	18.23	105.00	46638
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.015	18.31	105.00	24226
124-18-5	Decane	87	TRG	0.018	18.60	57.00	34746
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.021	18.95	105.00	35430
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.069	19.53	119.00	164634
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.008	20.20	91.00	20719
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**13955589**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**16341057**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**16461432**
2037-26-5	Toluene-d8	103	SURR	10.197	13.40	98.00	**10244020**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**20**
File Name:	2510020A.D
Run Method:	A1563_P.M
Can Factor:	1.18
Air Volume:	300.0 ml
Can/Tube Number:	883
Dilution Factor:	0.3540
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3540
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.71	2.81	4.83	2.81	4.83	4.83	4.83	0.100	0.250	0.39	0.68	0.98
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.59	2.92	0.98
Methanol	32.0	0.26	1.04	1.36	ND	ND	0		0.500	0.600	1.97	2.58	2.36
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.59	1.22	0.98
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	2.75	0.98
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.51	0.98
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.44	0.98
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	1.53	0.98
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	1.04	0.98
Ethanol	46.1	0.18	0.71	1.35	ND	ND	0		0.500	3.210	1.97	3.71	12.63
Acrolein	56.1	0.54	2.14	4.92	2.14	4.92	4.92	4.92	0.100	0.300	0.39	0.90	1.18
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	2.21	0.98
Acetone	58.1	1.19	4.69	11.16	4.69	11.16	11.16	11.16	0.500	0.600	1.97	4.68	2.36
2-propanol (isopropylalcohol)	60.1	0.10	0.40	0.99	ND	ND	0		0.200	1.250	0.79	1.94	4.92
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.39	1.19	3.93
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.39	2.30	1.18
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.78	0.98
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.79	1.71	1.18
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.51	0.98
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.62	3.93
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.68	0.98
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	1.23	0.98
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.20	0.78	0.79
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.39	1.42	0.79
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	0.98	2.22	1.57
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.80	0.98
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	1.65	0.98
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.69	3.93
2-Butanone (MEK)	72.1	0.15	0.60	1.77	0.60	1.77	1.77	1.77	0.100	0.300	0.39	1.16	1.18
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.39	1.65	2.36
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	1.39	0.98
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	1.08	0.98
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	1.42	0.98
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.04	0.98
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.39	1.39	1.97
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.20	0.58	1.18
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.79	2.39	3.15
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.78	0.98
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.91	0.98
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.96	0.98
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.07	0.98
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.80	0.98
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.89	0.98
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.68	0.98
Benzene	78.1	0.38	1.49	4.76	1.49	4.76	4.76	4.76	0.350	0.500	1.38	4.40	1.97
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.24	0.98
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.39	1.65	1.97
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	0.98
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	1.61	0.98

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.20	0.91	0.98
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0	0.100	0.500	0.39	1.42	1.97
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.20	1.40	0.98
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0	0.025	0.250	0.10	0.53	0.98
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.20	1.32	0.98
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.39	1.61	0.98
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0	0.100	0.800	0.39	1.61	3.15
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.20	0.89	0.98
Toluene	92.1	0.10	0.41	1.53	ND	ND	0	0.200	0.250	0.79	2.97	0.98
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.20	0.89	0.98
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.20	1.07	0.98
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.39	1.84	0.98
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0	0.100	0.800	0.39	1.61	3.15
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0	0.050	0.700	0.20	0.91	2.75
Octane	114.2	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.39	1.84	0.98
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.39	3.36	0.98
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.39	3.03	0.98
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0	0.025	0.250	0.10	0.67	0.98
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.39	1.81	0.98
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.39	2.70	0.98
Ethylbenzene	106.2	0.03	0.13	0.56	ND	ND	0	0.100	0.250	0.39	1.71	0.98
m,p-Xylenes	106.2	0.05	0.20	0.85	ND	ND	0	0.100	0.250	0.39	1.71	0.98
Nonane	128.3	0.02	0.07	0.38	ND	ND	0	0.100	0.250	0.39	2.07	0.98
Styrene	104.2	0.04	0.16	0.68	ND	ND	0	0.150	0.250	0.59	2.52	0.98
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.39	4.07	0.98
o-Xylene	106.2	0.02	0.09	0.40	ND	ND	0	0.100	0.250	0.39	1.71	0.98
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0	0.200	0.500	0.79	5.41	1.97
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0	0.200	0.600	0.79	4.75	2.36
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0	0.200	0.600	0.79	4.03	2.36
n-Propylbenzene	120.2	0.01	0.03	0.16	ND	ND	0	0.200	0.700	0.79	3.87	2.75
Isopropylbenzene	120.2	0.02	0.07	0.34	ND	ND	0	0.200	0.700	0.79	3.87	2.75
4-Ethyltoluene	120.2	0.03	0.10	0.51	ND	ND	0	0.200	1.600	0.79	3.87	6.29
1,3,5-Trimethylbenzene	120.2	0.02	0.06	0.29	ND	ND	0	0.200	0.900	0.79	3.87	3.54
Decane	142.3	0.02	0.07	0.42	ND	ND	0	0.200	0.600	0.79	4.58	2.36
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0	0.200	0.600	0.79	4.32	2.36
1,2,4-Trimethylbenzene	120.2	0.02	0.08	0.40	ND	ND	0	0.200	0.900	0.79	3.87	3.54
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0	0.200	0.600	0.79	4.32	2.36
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0	0.200	0.700	0.79	4.32	2.75
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0	0.200	0.800	0.79	4.74	3.15
Isopropyltoluene	134.2	0.07	0.27	1.48	ND	ND	0	0.200	0.600	0.79	4.32	2.36
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0	0.200	0.500	0.79	4.08	1.97
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0	0.200	0.500	0.79	4.74	1.97
n-Butylbenzene	134.2	0.01	0.03	0.17	ND	ND	0	0.200	0.600	0.79	4.32	2.36
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0	0.200	0.700	0.79	4.74	2.75
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0	0.300	0.700	1.18	11.42	2.75
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0	0.300	0.500	1.18	8.77	1.97
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0	0.500	0.100	1.97	10.33	0.39
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0	0.300	0.500	1.18	8.77	1.97
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0	0.250	0.300	0.98	10.50	1.18
Pentafluorobenzene		20.00						20.0	20.0			
1,4-Difluorobenzene		20.00						20.0	20.0			
Chlorobenzene-d5		20.00						20.0	20.0			
Toluene-d8		10.20	102	102	102	102	102	102	10.0	10.0		
0												
0												
0												

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.69				=		Y	2.81	4.83
4.87	U	ND		ND		Y	0.00	0.00
3.09	U	ND		ND		Y	0.00	0.00
2.03	U	ND		ND		Y	0.00	0.00
6.88	U	ND		ND		Y	0.00	0.00
2.52	U	ND		ND		Y	0.00	0.00
2.18	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
2.60	U	ND		ND		Y	0.00	0.00
23.84	U	ND		ND		Y	0.00	0.00
2.71				=		Y	2.14	4.92
5.53	U	ND		ND		Y	0.00	0.00
5.62				=		Y	4.69	11.16
12.10	U	ND		ND		Y	0.00	0.00
11.94	U	ND		ND		Y	0.00	0.00
6.91	U	ND		ND		Y	0.00	0.00
3.90	U	ND		ND		Y	0.00	0.00
2.57	U	ND		ND		Y	0.00	0.00
7.55	U	ND		ND		Y	0.00	0.00
12.32	U	ND		ND		Y	0.00	0.00
3.42	U	ND		ND		Y	0.00	0.00
3.06	U	ND		ND		Y	0.00	0.00
3.12	U	ND		ND		Y	0.00	0.00
2.84	U	ND		ND		Y	0.00	0.00
3.55	U	ND		ND		Y	0.00	0.00
3.99	U	ND		ND		Y	0.00	0.00
4.12	U	ND		ND		Y	0.00	0.00
13.87	U	ND		ND		Y	0.00	0.00
3.48	J	J		=		Y	0.60	1.77
9.88	U	ND		ND		Y	0.00	0.00
3.47	U	ND		ND		Y	0.00	0.00
2.70	U	ND		ND		Y	0.00	0.00
3.55	U	ND		ND		Y	0.00	0.00
5.21	U	ND		ND		Y	0.00	0.00
6.93	U	ND		ND		Y	0.00	0.00
3.48	U	ND		ND		Y	0.00	0.00
9.55	U	ND		ND		Y	0.00	0.00
3.90	U	ND		ND		Y	0.00	0.00
4.55	U	ND		ND		Y	0.00	0.00
4.81	U	ND		ND		Y	0.00	0.00
5.37	U	ND		ND		Y	0.00	0.00
3.99	U	ND		ND		Y	0.00	0.00
4.47	U	ND		ND		Y	0.00	0.00
3.39	U	ND		ND		Y	0.00	0.00
6.29	J	J		=		Y	1.49	4.76
6.19	U	ND		ND		Y	0.00	0.00
8.23	U	ND		ND		Y	0.00	0.00
4.60	U	ND		ND		Y	0.00	0.00
4.04	U	ND		ND		Y	0.00	0.00

4.55	U	ND	ND	Y	0.00	0.00
7.10	U	ND	ND	Y	0.00	0.00
7.00	U	ND	ND	Y	0.00	0.00
5.29	U	ND	ND	Y	0.00	0.00
6.60	U	ND	ND	Y	0.00	0.00
4.03	U	ND	ND	Y	0.00	0.00
12.91	U	ND	ND	Y	0.00	0.00
4.47	U	ND	ND	Y	0.00	0.00
3.71	U	ND	ND	Y	0.00	0.00
4.47	U	ND	ND	Y	0.00	0.00
5.37	U	ND	ND	Y	0.00	0.00
4.60	U	ND	ND	Y	0.00	0.00
12.91	U	ND	ND	Y	0.00	0.00
12.74	U	ND	ND	Y	0.00	0.00
4.60	U	ND	ND	Y	0.00	0.00
8.39	U	ND	ND	Y	0.00	0.00
7.57	U	ND	ND	Y	0.00	0.00
6.68	U	ND	ND	Y	0.00	0.00
4.53	U	ND	ND	Y	0.00	0.00
6.76	U	ND	ND	Y	0.00	0.00
4.28	U	ND	ND	Y	0.00	0.00
4.28	U	ND	ND	Y	0.00	0.00
5.17	U	ND	ND	Y	0.00	0.00
4.20	U	ND	ND	Y	0.00	0.00
10.18	U	ND	ND	Y	0.00	0.00
4.28	U	ND	ND	Y	0.00	0.00
13.52	U	ND	ND	Y	0.00	0.00
14.25	U	ND	ND	Y	0.00	0.00
12.08	U	ND	ND	Y	0.00	0.00
13.55	U	ND	ND	Y	0.00	0.00
13.55	U	ND	ND	Y	0.00	0.00
30.98	U	ND	ND	Y	0.00	0.00
17.43	U	ND	ND	Y	0.00	0.00
13.75	U	ND	ND	Y	0.00	0.00
12.97	U	ND	ND	Y	0.00	0.00
17.43	U	ND	ND	Y	0.00	0.00
12.97	U	ND	ND	Y	0.00	0.00
15.13	U	ND	ND	Y	0.00	0.00
18.94	U	ND	ND	Y	0.00	0.00
12.97	U	ND	ND	Y	0.00	0.00
10.20	U	ND	ND	Y	0.00	0.00
11.84	U	ND	ND	Y	0.00	0.00
12.97	U	ND	ND	Y	0.00	0.00
16.58	U	ND	ND	Y	0.00	0.00
26.65	U	ND	ND	Y	0.00	0.00
14.61	U	ND	ND	Y	0.00	0.00
2.07	U	ND	ND	Y	0.00	0.00
14.61	U	ND	ND	Y	0.00	0.00
12.60	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**20**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.18	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum $\frac{(Astdni)\ (Cistdi)}{(Cstdni)\ (Aistdi)}$ Note: 1 i

2) Raw Amt = $\frac{(Ansamp)}{(Avg\ RFn)}$ $\frac{(Cistdi)}{(Aistdi)}$ **= Cn**

3) Amount ppbv = (Raw Amt) $\frac{1000}{(SV)}$ (CDF)

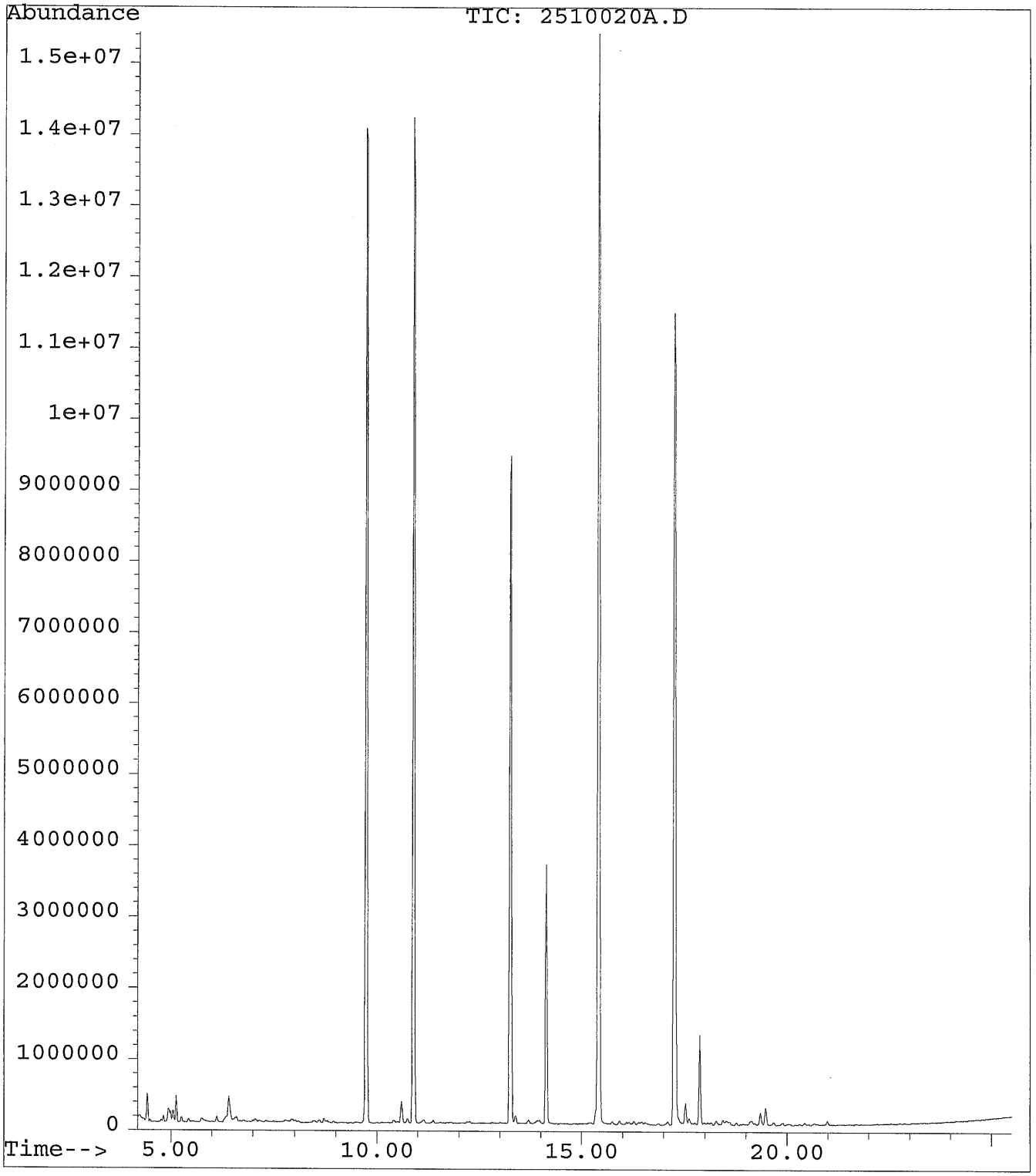
4) Amount ug/m3 = (amt(ppbv) $\frac{MW}{24.42}$

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	122444	20.0	13955589	0.713	2.81	4.83
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	13955589	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	202535	20.0	13955589	0.264	1.04	1.36
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	13955589	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	13955589	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	13955589	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	13955589	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	13955589	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	13955589	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	18033	20.0	13955589	0.182	0.71	1.35
12	Acrolein	PFB	TRG	56.1	0.130	49241	20.0	13955589	0.544	2.14	4.92
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	13955589	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	198423	20.0	13955589	1.192	4.69	11.16
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	71256	20.0	13955589	0.103	0.40	0.99
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	13955589	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	13955589	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	13955589	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	13955589	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	13955589	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	13955589	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	13955589	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	13955589	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	13955589	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	13955589	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	13955589	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	13955589	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	13955589	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	13955589	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	21242	20.0	13955589	0.152	0.60	1.77
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	13955589	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	13955589	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	13955589	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	13955589	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	13955589	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	13955589	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	13955589	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	13955589	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	13955589	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	13955589	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	13955589	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	16341057	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	16341057	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	16341057	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	16341057	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	332070	20.0	16341057	0.379	1.49	4.76
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	16341057	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	16341057	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	16341057	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	16341057	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	16341057	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	16341057	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	16341057	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	16341057	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	16341057	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	16341057	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	16341057	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	16341057	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	126724	20.0	16341057	0.103	0.41	1.53
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	16341057	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	16341057	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	16341057	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	16341057	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	16341057	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	16341057	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	16341057	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	16341057	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	16341057	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	16461432	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	16461432	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	48278	20.0	16461432	0.033	0.13	0.56
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	65323	20.0	16461432	0.050	0.20	0.85
76	Nonane	d5CB	TRG	128.3	1.278	19330	20.0	16461432	0.018	0.07	0.38
77	Styrene	d5CB	TRG	104.2	1.106	36788	20.0	16461432	0.040	0.16	0.68
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	16461432	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	32327	20.0	16461432	0.024	0.09	0.40
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	16461432	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	16461432	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	16461432	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	20455	20.0	16461432	0.008	0.03	0.16
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	46638	20.0	16461432	0.018	0.07	0.34

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	46638	20.0	16461432	0.026	0.10	0.51
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	24226	20.0	16461432	0.015	0.06	0.29
87	Decane	d5CB	TRG	142.3	2.327	34746	20.0	16461432	0.018	0.07	0.42
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	16461432	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	35430	20.0	16461432	0.021	0.08	0.40
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	16461432	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	16461432	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	16461432	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	164634	20.0	16461432	0.069	0.27	1.48
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	16461432	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	16461432	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	20719	20.0	16461432	0.008	0.03	0.17
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	16461432	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	16461432	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	16461432	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	16461432	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	16461432	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	16461432	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	13955589	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	16341057	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	16461432	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	10244020	10.0		10.197	101.97	102

File : C:\MSCHEM\1\DATA\04015A_C\2510020A.D
Operator : UG
Acquired : 1 Apr 125 5:51 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-202
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **21**

Client ID T-203

Analytical Method TO-15

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Analytical Report
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Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 21

File Name: 2510021A.D
Description: T-203
Canister: 858
QC_Batch: 040325-MA1

Date Sampled: 03/20/25 **Time:** 08:33
Date Analyzed: 04/03/25 **Time:** 18:21
Can Dilution Factor: 1.20
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	1.00	111.00	0.69	1.72	191.30	E
75-71-8	Dichlorodifluoromethane	0.60	1.00	ND	2.97	4.95	ND	
67-56-1	Methanol	2.00	2.40	ND	2.62	3.15	ND	
74-87-3	Chloromethane	0.60	1.00	ND	1.24	2.07	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	1.00	ND	2.80	7.00	ND	
75-01-4	Vinyl chloride	0.20	1.00	ND	0.52	2.56	ND	
106-99-0	1,3-Butadiene	0.20	1.00	ND	0.45	2.22	ND	
74-83-9	Bromomethane	0.40	1.00	ND	1.55	3.89	ND	
75-00-3	Chloroethane	0.40	1.00	ND	1.06	2.64	ND	
64-17-5	Ethanol	2.00	12.84	ND	3.78	24.24	ND	
107-02-8	Acrolein	0.40	1.20	ND	0.92	2.76	ND	
75-69-4	Trichlorofluoromethane	0.40	1.00	ND	2.25	5.63	ND	
67-64-1	Acetone	2.00	2.40	7.02	4.76	5.71	16.70	
67-63-0	2-propanol (isopropylalcohol)	0.80	5.00	ND	1.97	12.31	ND	
75-65-0	t-Butyl alcohol	0.40	4.00	ND	1.21	12.14	ND	
4227-95-6	Methyl iodide	0.40	1.20	ND	2.34	7.02	ND	
75-35-4	1,1-Dichloroethene	0.20	1.00	ND	0.79	3.97	ND	
107-13-1	Acrylonitrile	0.80	1.20	ND	1.74	2.61	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.00	ND	1.53	7.67	ND	
107-05-1	Allyl chloride	0.20	4.00	ND	0.63	12.53	ND	
75-09-2	Methylene chloride	0.20	1.00	ND	0.70	3.48	ND	
75-15-0	Carbon disulfide	0.40	1.00	ND	1.25	3.12	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.80	ND	0.79	3.17	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.80	ND	1.44	2.89	ND	
107-12-0	Propionitrile	1.00	1.60	ND	2.26	3.61	ND	
75-34-3	1,1-Dichloroethane	0.20	1.00	ND	0.81	4.05	ND	
637-92-3	Ethyl tert butyl ether	0.40	1.00	ND	1.67	4.19	ND	
108-05-4	Vinyl acetate	0.20	4.00	ND	0.71	14.10	ND	
78-93-3	2-Butanone (MEK)	0.40	1.20	0.92	1.18	3.54	2.71	J
108-20-3	Diisopropyl ether	0.40	2.40	ND	1.67	10.05	ND	
110-54-3	Hexane	0.40	1.00	1.14	1.41	3.53	4.01	
126-98-7	Methacrylonitrile	0.40	1.00	ND	1.10	2.75	ND	
141-78-6	Ethyl acetate	0.40	1.00	ND	1.44	3.61	ND	
74-97-5	Bromochloromethane	0.20	1.00	ND	1.06	5.30	ND	
96-33-3	Methyl acrylate	0.40	2.00	ND	1.41	7.05	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.20	2.42	0.59	3.54	7.13	
78-83-1	Isobutyl alcohol	0.80	3.20	ND	2.43	9.71	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.00	0.38	0.79	3.97	1.52	J
594-20-7	2,2-Dichloropropane	0.20	1.00	ND	0.93	4.63	ND	
67-66-3	Chloroform	0.20	1.00	ND	0.98	4.89	ND	
71-55-6	1,1,1-Trichloroethane	0.20	1.00	ND	1.09	5.46	ND	
107-06-2	1,2-Dichloroethane	0.20	1.00	0.32	0.81	4.05	1.29	J
563-58-6	1,1-Dichloropropene	0.20	1.00	ND	0.91	4.55	ND	
110-82-7	Cyclohexane	0.20	1.00	ND	0.69	3.45	ND	
71-43-2	Benzene	1.40	2.00	6.68	4.48	6.40	21.37	
56-23-5	Carbon tetrachloride	0.20	1.00	ND	1.26	6.30	ND	
994-05-8	t-Amyl methyl ether	0.40	2.00	ND	1.67	8.37	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.00	ND	0.94	4.68	ND	
142-82-5	n-Heptane	0.40	1.00	1.99	1.64	4.10	8.15	
78-87-5	1,2-Dichloropropane	0.20	1.00	ND	0.93	4.63	ND	
123-91-1	1,4 Dioxane	0.40	2.00	ND	1.44	7.22	ND	
74-95-3	Dibromomethane	0.20	1.00	ND	1.42	7.12	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.00	ND	0.54	5.38	ND	
75-27-4	Bromodichloromethane	0.20	1.00	ND	1.34	6.71	ND	
80-62-6	Methyl methacrylate	0.40	1.00	ND	1.64	4.10	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.20	ND	1.64	13.13	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.00	ND	0.91	4.55	ND	
108-88-3	Toluene	0.80	1.00	21.79	3.02	3.77	82.18	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.00	ND	0.91	4.55	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.00	ND	1.09	5.46	ND	
97-63-2	Ethyl methacrylate	0.40	1.00	ND	1.87	4.68	ND	
591-78-6	2-Hexanone	0.40	3.20	ND	1.64	13.13	ND	
142-28-9	1,3-Dichloropropane	0.20	2.80	ND	0.93	12.96	ND	
111-65-9	Octane	0.40	1.00	1.88	1.87	4.68	8.80	
124-48-1	Dibromochloromethane	0.40	1.00	ND	3.41	8.53	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	1.00	ND	3.08	7.70	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.00	0.22	0.68	6.79	1.52	J
108-90-7	Chlorobenzene	0.40	1.00	ND	1.84	4.61	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	1.00	ND	2.75	6.87	ND	
100-41-4	Ethylbenzene	0.40	1.00	10.89	1.74	4.35	47.37	
1330-20-7	m,p-Xylenes	0.40	1.00	33.00	1.74	4.35	143.54	
111-84-2	Nonane	0.40	1.00	7.48	2.10	5.25	39.29	
100-42-5	Styrene	0.60	1.00	0.73	2.56	4.27	3.13	J
75-25-2	Bromoform	0.40	1.00	ND	4.14	10.35	ND	
95-47-6	o-Xylene	0.40	1.00	17.02	1.74	4.35	74.05	
79-34-5	1,1,2,2-Tetrachloroethane	0.80	2.00	ND	5.50	13.74	ND	
96-18-4	1,2,3-Trichloropropane	0.80	2.40	ND	4.83	14.49	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.80	2.40	ND	4.10	12.29	ND	
103-65-1	n-Propylbenzene	0.80	2.80	ND	3.94	13.78	ND	
98-82-8	Isopropylbenzene	0.80	2.80	ND	3.94	13.78	ND	
622-96-8	4-Ethyltoluene	0.80	6.40	2.61	3.94	31.51	12.86	J
108-67-8	1,3,5-Trimethylbenzene	0.80	3.60	0.94	3.94	17.72	4.65	J
124-18-5	Decane	0.80	2.40	3.10	4.66	13.99	18.08	
98-06-6	tert-butyl benzene	0.80	2.40	ND	4.40	13.19	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.80	3.60	0.82	3.94	17.72	4.06	J
538-93-2	i-Butylbenzene	0.80	2.40	ND	4.40	13.19	ND	
135-98-8	sec-butylbenzene	0.80	2.80	ND	4.40	15.39	ND	
541-73-1	1,3-Dichlorobenzene	0.80	3.20	ND	4.82	19.27	ND	
99-87-6	Isopropyltoluene	0.80	2.40	14.92	4.40	13.19	82.00	
100-44-7	Benzyl chloride	0.80	2.00	ND	4.15	10.37	ND	
106-46-7	1,4-Dichlorobenzene	0.80	2.00	ND	4.82	12.04	ND	
104-51-8	n-Butylbenzene	0.80	2.40	ND	4.40	13.19	ND	
95-50-1	1,2-Dichlorobenzene	0.80	2.80	ND	4.82	16.86	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.20	2.80	ND	11.61	27.10	ND	
120-82-1	1,2,4-Trichlorobenzene	1.20	2.00	ND	8.92	14.86	ND	
91-20-3	Naphthalene	2.00	0.40	ND	10.50	2.10	ND	
87-61-6	1,2,3-Trichlorobenzene	1.20	2.00	ND	8.92	14.86	ND	
87-68-3	Hexachlorobutadiene	1.00	1.20	ND	10.68	12.82	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	101	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**21**		
File Name:	2510021A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/20/25**	**Time:**	**8:33**
Sample ID:	T-203	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/03/25**	**Time:**	**18:21**
Anal Date:	3 Apr 125 6:21 pm	**SF:**	**2**	**QCbatch:**	**040325-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**858**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.20**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	SS	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	27.751	4.41	42.00	5365001
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.189	4.86	31.00	163145
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.177	5.72	46.00	19804
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	1.755	6.42	58.00	328803
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.229	8.75	72.00	36016
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.284	8.86	57.00	164969
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.604	9.72	72.00	101174
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.096	9.16	96.00	28161
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.079	10.27	61.95	42496
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	1.670	10.70	78.00	1601042
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.496	11.48	71.00	174886
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	5.447	13.50	91.00	7298138
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.471	14.04	85.00	249099
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.056	14.69	166.00	36779
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	2.723	15.90	106	3769893
1330-20-7	m,p-Xylenes	75	TRG	8.250	16.06	91.00	10204989
111-84-2	Nonane	76	TRG	1.870	16.43	57.00	1858314
100-42-5	Styrene	77	TRG	0.184	16.61	104.00	157861
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	4.256	16.54	91.00	5500614
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.653	18.23	105.00	1100901
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.236	18.31	105.00	358406
124-18-5	Decane	87	TRG	0.775	18.60	57.00	1403146
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.206	18.95	105.00	330477
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	3.730	19.53	119.00	8454113
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**15714321**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**17860978**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15552915**
2037-26-5	Toluene-d8	103	SURR	10.068	13.40	98.00	**11055029**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 2E+05
Laboratory Number: 21
File Name: 2510021A.D
Run Method: A1563_P.M
Can Factor: 1.20
Air Volume: 300.0 ml
Can/Tube Number: 858
Dilution Factor: 0.3600
Base Volume: 1000 ml
Unit Factor (ppbv): 1000 PPBV UG/M3

EDD SURR: PERCENT
Sam Type: SA
Instrument: MA1
DETECT: ND
Matrix: AA
Type: TRG
Diluton: 0.3600
Sig Figs: 2
MDLSF: 2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	27.75	111.00	191.30	111.00	191.30	191.30	191.30	0.100	0.250	0.40	0.69	1.00
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.60	2.97	1.00
Methanol	32.0	0.19	0.76	0.99	ND	ND	0		0.500	0.600	2.00	2.62	2.40
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.60	1.24	1.00
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.80	1.00
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.52	1.00
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.45	1.00
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.55	1.00
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.06	1.00
Ethanol	46.1	0.18	0.71	1.34	ND	ND	0		0.500	3.210	2.00	3.78	12.84
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.40	0.92	1.20
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.25	1.00
Acetone	58.1	1.75	7.02	16.70	7.02	16.70	16.70	16.70	0.500	0.600	2.00	4.76	2.40
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		0.200	1.250	0.80	1.97	5.00
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.40	1.21	4.00
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.40	2.34	1.20
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.79	1.00
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.80	1.74	1.20
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.53	1.00
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.63	4.00
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.70	1.00
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.25	1.00
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.20	0.79	0.80
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.40	1.44	0.80
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.00	2.26	1.60
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.81	1.00
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.67	1.00
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.71	4.00
2-Butanone (MEK)	72.1	0.23	0.92	2.71	0.92	2.71	2.71	2.71	0.100	0.300	0.40	1.18	1.20
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.40	1.67	2.40
Hexane	86.2	0.28	1.14	4.01	1.14	4.01	4.01	4.01	0.100	0.250	0.40	1.41	1.00
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.10	1.00
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.44	1.00
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.06	1.00
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.41	2.00
Tetrahydrofuran	72.1	0.60	2.42	7.13	2.42	7.13	7.13	7.13	0.050	0.300	0.20	0.59	1.20
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.80	2.43	3.20
cis-1,2-Dichloroethene	96.9	0.10	0.38	1.52	0.38	1.52	1.52	1.52	0.050	0.250	0.20	0.79	1.00
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.93	1.00
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.98	1.00
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.09	1.00
1,2-Dichloroethane	99.0	0.08	0.32	1.29	0.32	1.29	1.29	1.29	0.050	0.250	0.20	0.81	1.00
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.91	1.00
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.69	1.00
Benzene	78.1	1.67	6.68	21.37	6.68	21.37	21.37	21.37	0.350	0.500	1.40	4.48	2.00
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.26	1.00
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.67	2.00
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.94	1.00
n-Heptane	100.2	0.50	1.99	8.15	1.99	8.15	8.15	8.15	0.100	0.250	0.40	1.64	1.00

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.93	1.00
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.44	2.00
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.42	1.00
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.54	1.00
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.34	1.00
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.64	1.00
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.40	1.64	3.20
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.91	1.00
Toluene	92.1	5.45	21.79	82.18	21.79	82.18	82.18	82.18	0.200	0.250	0.80	3.02	1.00
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.91	1.00
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.09	1.00
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.87	1.00
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.40	1.64	3.20
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.20	0.93	2.80
Octane	114.2	0.47	1.88	8.80	1.88	8.80	8.80	8.80	0.100	0.250	0.40	1.87	1.00
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	3.41	1.00
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	3.08	1.00
Tetrachloroethene (PCE)	165.8	0.06	0.22	1.52	0.22	1.52	1.52	1.52	0.025	0.250	0.10	0.68	1.00
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.84	1.00
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.75	1.00
Ethylbenzene	106.2	2.72	10.89	47.37	10.89	47.37	47.37	47.37	0.100	0.250	0.40	1.74	1.00
m,p-Xylenes	106.2	8.25	33.00	143.54	33.00	143.54	143.54	143.54	0.100	0.250	0.40	1.74	1.00
Nonane	128.3	1.87	7.48	39.29	7.48	39.29	39.29	39.29	0.100	0.250	0.40	2.10	1.00
Styrene	104.2	0.18	0.73	3.13	0.73	3.13	3.13	3.13	0.150	0.250	0.60	2.56	1.00
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	4.14	1.00
o-Xylene	106.2	4.26	17.02	74.05	17.02	74.05	74.05	74.05	0.100	0.250	0.40	1.74	1.00
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.80	5.50	2.00
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.80	4.83	2.40
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.80	4.10	2.40
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.80	3.94	2.80
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.80	3.94	2.80
4-Ethyltoluene	120.2	0.65	2.61	12.86	2.61	12.86	12.86	12.86	0.200	1.600	0.80	3.94	6.40
1,3,5-Trimethylbenzene	120.2	0.24	0.94	4.65	0.94	4.65	4.65	4.65	0.200	0.900	0.80	3.94	3.60
Decane	142.3	0.78	3.10	18.08	3.10	18.08	18.08	18.08	0.200	0.600	0.80	4.66	2.40
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.80	4.40	2.40
1,2,4-Trimethylbenzene	120.2	0.21	0.82	4.06	0.82	4.06	4.06	4.06	0.200	0.900	0.80	3.94	3.60
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.80	4.40	2.40
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.80	4.40	2.80
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.80	4.82	3.20
Isopropyltoluene	134.2	3.73	14.92	82.00	14.92	82.00	82.00	82.00	0.200	0.600	0.80	4.40	2.40
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.80	4.15	2.00
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.80	4.82	2.00
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.80	4.40	2.40
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.80	4.82	2.80
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.20	11.61	2.80
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.20	8.92	2.00
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.00	10.50	0.40
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.20	8.92	2.00
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.00	10.68	1.20
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		10.07	101	101	101	101	101	101	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.72				=	E	Y	111.00	191.30
4.95	U	ND		ND		Y	0.00	0.00
3.15	U	ND		ND		Y	0.00	0.00
2.07	U	ND		ND		Y	0.00	0.00
7.00	U	ND		ND		Y	0.00	0.00
2.56	U	ND		ND		Y	0.00	0.00
2.22	U	ND		ND		Y	0.00	0.00
3.89	U	ND		ND		Y	0.00	0.00
2.64	U	ND		ND		Y	0.00	0.00
24.24	U	ND		ND		Y	0.00	0.00
2.76	U	ND		ND		Y	0.00	0.00
5.63	U	ND		ND		Y	0.00	0.00
5.71				=		Y	7.02	16.70
12.31	U	ND		ND		Y	0.00	0.00
12.14	U	ND		ND		Y	0.00	0.00
7.02	U	ND		ND		Y	0.00	0.00
3.97	U	ND		ND		Y	0.00	0.00
2.61	U	ND		ND		Y	0.00	0.00
7.67	U	ND		ND		Y	0.00	0.00
12.53	U	ND		ND		Y	0.00	0.00
3.48	U	ND		ND		Y	0.00	0.00
3.12	U	ND		ND		Y	0.00	0.00
3.17	U	ND		ND		Y	0.00	0.00
2.89	U	ND		ND		Y	0.00	0.00
3.61	U	ND		ND		Y	0.00	0.00
4.05	U	ND		ND		Y	0.00	0.00
4.19	U	ND		ND		Y	0.00	0.00
14.10	U	ND		ND		Y	0.00	0.00
3.54	J	J		=		Y	0.92	2.71
10.05	U	ND		ND		Y	0.00	0.00
3.53				=		Y	1.14	4.01
2.75	U	ND		ND		Y	0.00	0.00
3.61	U	ND		ND		Y	0.00	0.00
5.30	U	ND		ND		Y	0.00	0.00
7.05	U	ND		ND		Y	0.00	0.00
3.54				=		Y	2.42	7.13
9.71	U	ND		ND		Y	0.00	0.00
3.97	J	J		=		Y	0.38	1.52
4.63	U	ND		ND		Y	0.00	0.00
4.89	U	ND		ND		Y	0.00	0.00
5.46	U	ND		ND		Y	0.00	0.00
4.05	J	J		=		Y	0.32	1.29
4.55	U	ND		ND		Y	0.00	0.00
3.45	U	ND		ND		Y	0.00	0.00
6.40				=		Y	6.68	21.37
6.30	U	ND		ND		Y	0.00	0.00
8.37	U	ND		ND		Y	0.00	0.00
4.68	U	ND		ND		Y	0.00	0.00
4.10				=		Y	1.99	8.15

4.63	U	ND	ND	Y	0.00	0.00
7.22	U	ND	ND	Y	0.00	0.00
7.12	U	ND	ND	Y	0.00	0.00
5.38	U	ND	ND	Y	0.00	0.00
6.71	U	ND	ND	Y	0.00	0.00
4.10	U	ND	ND	Y	0.00	0.00
13.13	U	ND	ND	Y	0.00	0.00
4.55	U	ND	ND	Y	0.00	0.00
3.77			=	Y	21.79	82.18
4.55	U	ND	ND	Y	0.00	0.00
5.46	U	ND	ND	Y	0.00	0.00
4.68	U	ND	ND	Y	0.00	0.00
13.13	U	ND	ND	Y	0.00	0.00
12.96	U	ND	ND	Y	0.00	0.00
4.68			=	Y	1.88	8.80
8.53	U	ND	ND	Y	0.00	0.00
7.70	U	ND	ND	Y	0.00	0.00
6.79	J	J	=	Y	0.22	1.52
4.61	U	ND	ND	Y	0.00	0.00
6.87	U	ND	ND	Y	0.00	0.00
4.35			=	Y	10.89	47.37
4.35			=	Y	33.00	143.54
5.25			=	Y	7.48	39.29
4.27	J	J	=	Y	0.73	3.13
10.35	U	ND	ND	Y	0.00	0.00
4.35			=	Y	17.02	74.05
13.74	U	ND	ND	Y	0.00	0.00
14.49	U	ND	ND	Y	0.00	0.00
12.29	U	ND	ND	Y	0.00	0.00
13.78	U	ND	ND	Y	0.00	0.00
13.78	U	ND	ND	Y	0.00	0.00
31.51	J	J	=	Y	2.61	12.86
17.72	J	J	=	Y	0.94	4.65
13.99			=	Y	3.10	18.08
13.19	U	ND	ND	Y	0.00	0.00
17.72	J	J	=	Y	0.82	4.06
13.19	U	ND	ND	Y	0.00	0.00
15.39	U	ND	ND	Y	0.00	0.00
19.27	U	ND	ND	Y	0.00	0.00
13.19			=	Y	14.92	82.00
10.37	U	ND	ND	Y	0.00	0.00
12.04	U	ND	ND	Y	0.00	0.00
13.19	U	ND	ND	Y	0.00	0.00
16.86	U	ND	ND	Y	0.00	0.00
27.10	U	ND	ND	Y	0.00	0.00
14.86	U	ND	ND	Y	0.00	0.00
2.10	U	ND	ND	Y	0.00	0.00
14.86	U	ND	ND	Y	0.00	0.00
12.82	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**21**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.20
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\frac{(Astdni)}{(Cstdni)} \frac{(Cistdi)}{(Aistdi)}$ i Note: 1

2) Raw Amt = $\frac{(Ansamp)}{(Avg\ RFn)} \frac{(Cistdi)}{(Aistdi)}$ = **Cn**

3) Amount ppbv = $\frac{(Raw\ Amt)\ 1000}{(SV)}$ (CDF)

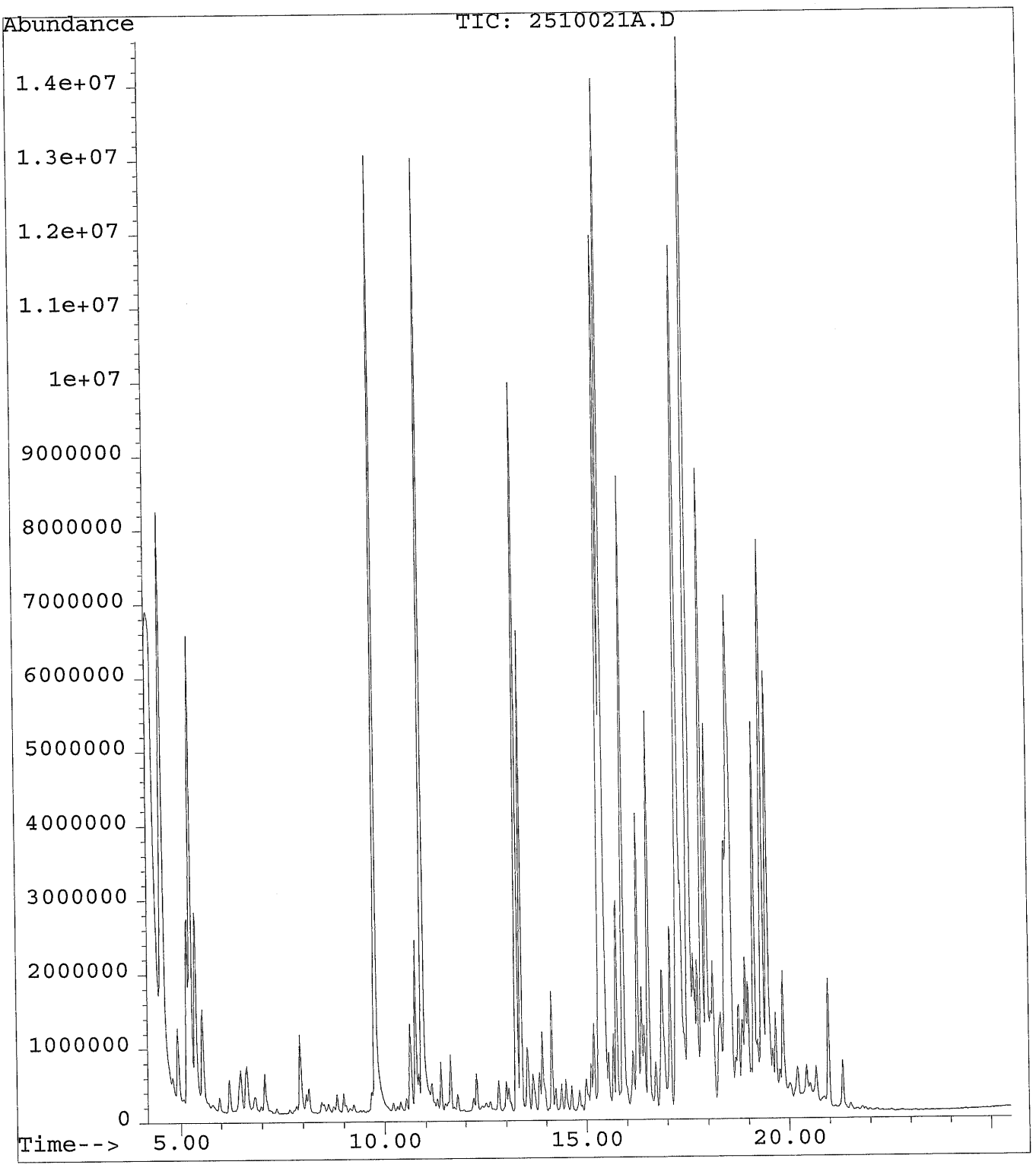
4) Amount ug/m3 = $\frac{(amt(ppbv)\ MW}{24.42}$

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	5365001	20.0	15714321	27.751	111.00	191.30
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	15714321	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	163145	20.0	15714321	0.189	0.76	0.99
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	15714321	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	15714321	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	15714321	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	15714321	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	15714321	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	15714321	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	19804	20.0	15714321	0.177	0.71	1.34
12	Acrolein	PFB	TRG	56.1	0.130	0	20.0	15714321	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	15714321	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	328803	20.0	15714321	1.755	7.02	16.70
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	0	20.0	15714321	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	15714321	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	15714321	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	15714321	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	15714321	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	15714321	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	15714321	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	15714321	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	15714321	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	15714321	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	15714321	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	15714321	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	15714321	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	15714321	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	15714321	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	36016	20.0	15714321	0.229	0.92	2.71
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	15714321	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	164969	20.0	15714321	0.284	1.14	4.01

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	15714321	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	15714321	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	15714321	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	15714321	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	101174	20.0	15714321	0.604	2.42	7.13
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	15714321	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	28161	20.0	15714321	0.096	0.38	1.52
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	15714321	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	15714321	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	17860978	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	42496	20.0	17860978	0.079	0.32	1.29
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	17860978	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	17860978	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	1601042	20.0	17860978	1.670	6.68	21.37
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	17860978	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	17860978	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	17860978	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	174886	20.0	17860978	0.496	1.99	8.15
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	17860978	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	17860978	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	17860978	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	17860978	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	17860978	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	17860978	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	17860978	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	17860978	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	7298138	20.0	17860978	5.447	21.79	82.18
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	17860978	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	17860978	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	17860978	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	17860978	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	17860978	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	249099	20.0	17860978	0.471	1.88	8.80
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	17860978	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	17860978	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	36779	20.0	17860978	0.056	0.22	1.52
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	15552915	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	15552915	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	3769893	20.0	15552915	2.723	10.89	47.37
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	10204989	20.0	15552915	8.250	33.00	143.54
76	Nonane	d5CB	TRG	128.3	1.278	1858314	20.0	15552915	1.870	7.48	39.29
77	Styrene	d5CB	TRG	104.2	1.106	157861	20.0	15552915	0.184	0.73	3.13
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	15552915	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	5500614	20.0	15552915	4.256	17.02	74.05
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	15552915	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	15552915	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	15552915	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	15552915	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	15552915	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	1100901	20.0	15552915	0.653	2.61	12.86
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	358406	20.0	15552915	0.236	0.94	4.65
87	Decane	d5CB	TRG	142.3	2.327	1403146	20.0	15552915	0.775	3.10	18.08
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	15552915	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	330477	20.0	15552915	0.206	0.82	4.06
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	15552915	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	15552915	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	15552915	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	8454113	20.0	15552915	3.730	14.92	82.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	15552915	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	15552915	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	15552915	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	15552915	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	15552915	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	15552915	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	15552915	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	15552915	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	15552915	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	15714321	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	17860978	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15552915	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	11055029	10.0		10.068	100.68	101

File : C:\MSCHEM\1\DATA\04035A_C\2510021A.D
Operator : SS
Acquired : 3 Apr 125 6:21 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-203
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number 225100

Lab Id Number 22

Client ID T-204

Analytical Method TO-15

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Analytical Report
Quantitation Report
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Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 22**

File Name: 2510022A.D **Date Sampled:** 03/20/25 **Time:** 08:29
Description: T-204 **Date Analyzed:** 04/01/25 **Time:** 19:45
Canister: 758 **Can Dilution Factor:** 1.18
QC_Batch: 040125-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.39	0.98	59.59	0.68	1.69	102.70	
75-71-8	Dichlorodifluoromethane	0.59	0.98	ND	2.92	4.87	ND	
67-56-1	Methanol	1.97	2.36	ND	2.58	3.09	ND	
74-87-3	Chloromethane	0.59	0.98	ND	1.22	2.03	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.39	0.98	ND	2.75	6.88	ND	
75-01-4	Vinyl chloride	0.20	0.98	ND	0.51	2.52	ND	
106-99-0	1,3-Butadiene	0.20	0.98	ND	0.44	2.18	ND	
74-83-9	Bromomethane	0.39	0.98	ND	1.53	3.82	ND	
75-00-3	Chloroethane	0.39	0.98	ND	1.04	2.60	ND	
64-17-5	Ethanol	1.97	12.63	3.22	3.71	23.84	6.08	J
107-02-8	Acrolein	0.39	1.18	ND	0.90	2.71	ND	
75-69-4	Trichlorofluoromethane	0.39	0.98	ND	2.21	5.53	ND	
67-64-1	Acetone	1.97	2.36	7.21	4.68	5.62	17.17	
67-63-0	2-propanol (isopropylalcohol)	0.79	4.92	ND	1.94	12.10	ND	
75-65-0	t-Butyl alcohol	0.39	3.93	ND	1.19	11.94	ND	
4227-95-6	Methyl iodide	0.39	1.18	ND	2.30	6.91	ND	
75-35-4	1,1-Dichloroethene	0.20	0.98	ND	0.78	3.90	ND	
107-13-1	Acrylonitrile	0.79	1.18	ND	1.71	2.57	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	0.98	ND	1.51	7.55	ND	
107-05-1	Allyl chloride	0.20	3.93	ND	0.62	12.32	ND	
75-09-2	Methylene chloride	0.20	0.98	ND	0.68	3.42	ND	
75-15-0	Carbon disulfide	0.39	0.98	0.42	1.23	3.06	1.31	J
156-60-5	trans-1,2-Dichloroethene	0.20	0.79	ND	0.78	3.12	ND	
1634-04-4	Methyl tert butyl ether	0.39	0.79	ND	1.42	2.84	ND	
107-12-0	Propionitrile	0.98	1.57	ND	2.22	3.55	ND	
75-34-3	1,1-Dichloroethane	0.20	0.98	ND	0.80	3.99	ND	
637-92-3	Ethyl tert butyl ether	0.39	0.98	ND	1.65	4.12	ND	
108-05-4	Vinyl acetate	0.20	3.93	ND	0.69	13.87	ND	
78-93-3	2-Butanone (MEK)	0.39	1.18	2.83	1.16	3.48	8.37	
108-20-3	Diisopropyl ether	0.39	2.36	ND	1.65	9.88	ND	
110-54-3	Hexane	0.39	0.98	ND	1.39	3.47	ND	
126-98-7	Methacrylonitrile	0.39	0.98	ND	1.08	2.70	ND	
141-78-6	Ethyl acetate	0.39	0.98	ND	1.42	3.55	ND	
74-97-5	Bromochloromethane	0.20	0.98	ND	1.04	5.21	ND	
96-33-3	Methyl acrylate	0.39	1.97	ND	1.39	6.93	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.18	1.09	0.58	3.48	3.21	J
78-83-1	Isobutyl alcohol	0.79	3.15	ND	2.39	9.55	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	0.98	ND	0.78	3.90	ND	
594-20-7	2,2-Dichloropropane	0.20	0.98	ND	0.91	4.55	ND	
67-66-3	Chloroform	0.20	0.98	ND	0.96	4.81	ND	
71-55-6	1,1,1-Trichloroethane	0.20	0.98	ND	1.07	5.37	ND	
107-06-2	1,2-Dichloroethane	0.20	0.98	ND	0.80	3.99	ND	
563-58-6	1,1-Dichloropropene	0.20	0.98	ND	0.89	4.47	ND	
110-82-7	Cyclohexane	0.20	0.98	ND	0.68	3.39	ND	
71-43-2	Benzene	1.38	1.97	ND	4.40	6.29	ND	
56-23-5	Carbon tetrachloride	0.20	0.98	ND	1.24	6.19	ND	
994-05-8	t-Amyl methyl ether	0.39	1.97	ND	1.65	8.23	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	0.98	ND	0.92	4.60	ND	
142-82-5	n-Heptane	0.39	0.98	ND	1.61	4.04	ND	
78-87-5	1,2-Dichloropropane	0.20	0.98	ND	0.91	4.55	ND	
123-91-1	1,4 Dioxane	0.39	1.97	ND	1.42	7.10	ND	
74-95-3	Dibromomethane	0.20	0.98	ND	1.40	7.00	ND	
79-01-6	Trichloroethene (TCE)	0.10	0.98	ND	0.53	5.29	ND	
75-27-4	Bromodichloromethane	0.20	0.98	ND	1.32	6.60	ND	
80-62-6	Methyl methacrylate	0.39	0.98	ND	1.61	4.03	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.39	3.15	ND	1.61	12.91	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	0.98	ND	0.89	4.47	ND	
108-88-3	Toluene	0.79	0.98	ND	2.97	3.71	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	0.98	ND	0.89	4.47	ND	
79-00-5	1,1,2-Trichloroethane	0.20	0.98	ND	1.07	5.37	ND	
97-63-2	Ethyl methacrylate	0.39	0.98	ND	1.84	4.60	ND	
591-78-6	2-Hexanone	0.39	3.15	ND	1.61	12.91	ND	
142-28-9	1,3-Dichloropropane	0.20	2.75	ND	0.91	12.74	ND	
111-65-9	Octane	0.39	0.98	ND	1.84	4.60	ND	
124-48-1	Dibromochloromethane	0.39	0.98	ND	3.36	8.39	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.39	0.98	ND	3.03	7.57	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	0.98	ND	0.67	6.68	ND	
108-90-7	Chlorobenzene	0.39	0.98	ND	1.81	4.53	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.39	0.98	ND	2.70	6.76	ND	
100-41-4	Ethylbenzene	0.39	0.98	ND	1.71	4.28	ND	
1330-20-7	m,p-Xylenes	0.39	0.98	0.59	1.71	4.28	2.59	J
111-84-2	Nonane	0.39	0.98	ND	2.07	5.17	ND	
100-42-5	Styrene	0.59	0.98	ND	2.52	4.20	ND	
75-25-2	Bromoform	0.39	0.98	ND	4.07	10.18	ND	
95-47-6	o-Xylene	0.39	0.98	0.40	1.71	4.28	1.73	J
79-34-5	1,1,2,2-Tetrachloroethane	0.79	1.97	ND	5.41	13.52	ND	
96-18-4	1,2,3-Trichloropropane	0.79	2.36	ND	4.75	14.25	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.79	2.36	ND	4.03	12.08	ND	
103-65-1	n-Propylbenzene	0.79	2.75	ND	3.87	13.55	ND	
98-82-8	Isopropylbenzene	0.79	2.75	ND	3.87	13.55	ND	
622-96-8	4-Ethyltoluene	0.79	6.29	ND	3.87	30.98	ND	
108-67-8	1,3,5-Trimethylbenzene	0.79	3.54	ND	3.87	17.43	ND	
124-18-5	Decane	0.79	2.36	ND	4.58	13.75	ND	
98-06-6	tert-butyl benzene	0.79	2.36	ND	4.32	12.97	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.79	3.54	ND	3.87	17.43	ND	
538-93-2	i-Butylbenzene	0.79	2.36	ND	4.32	12.97	ND	
135-98-8	sec-butylbenzene	0.79	2.75	ND	4.32	15.13	ND	
541-73-1	1,3-Dichlorobenzene	0.79	3.15	ND	4.74	18.94	ND	
99-87-6	Isopropyltoluene	0.79	2.36	ND	4.32	12.97	ND	
100-44-7	Benzyl chloride	0.79	1.97	ND	4.08	10.20	ND	
106-46-7	1,4-Dichlorobenzene	0.79	1.97	ND	4.74	11.84	ND	
104-51-8	n-Butylbenzene	0.79	2.36	ND	4.32	12.97	ND	
95-50-1	1,2-Dichlorobenzene	0.79	2.75	ND	4.74	16.58	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.18	2.75	ND	11.42	26.65	ND	
120-82-1	1,2,4-Trichlorobenzene	1.18	1.97	ND	8.77	14.61	ND	
91-20-3	Naphthalene	1.97	0.39	ND	10.33	2.07	ND	
87-61-6	1,2,3-Trichlorobenzene	1.18	1.97	ND	8.77	14.61	ND	
87-68-3	Hexachlorobutadiene	0.98	1.18	ND	10.50	12.60	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	112	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**22**		
File Name:	2510022A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/20/25**	**Time:**	**8:29**
Sample ID:	T-204	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/01/25**	**Time:**	**19:45**
Anal Date:	1 Apr 125 7:45 pm	**SF:**	**2**	**QCbatch:**	**040125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**758**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.18**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	UG	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	15.150	4.41	42.00	2604601
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.362	4.86	31.00	278289
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.001	5.14	54.00	300
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.819	5.72	46.00	81403
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	1.834	6.42	58.00	305614
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.163	6.45	45.00	113114
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.107	7.61	76.00	65843
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.720	8.75	72.00	100571
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.276	9.72	72.00	41186
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.247	10.70	78.00	221086
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.139	13.50	91.00	173720
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.093	15.90	106	136076
1330-20-7	m,p-Xylenes	75	TRG	0.151	16.06	91.00	198170
111-84-2	Nonane	76	TRG	0.038	16.43	57.00	40133
100-42-5	Styrene	77	TRG	0.060	16.61	104.00	54343
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.101	16.54	91.00	138401
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.037	18.23	105.00	65747
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.037	18.31	105.00	59948
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.049	18.95	105.00	84073
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.078	19.53	119.00	187835
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.010	20.20	91.00	26939
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**13974284**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**16691395**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**16486645**
2037-26-5	Toluene-d8	103	SURR	11.206	13.40	98.00	**11499114**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 2E+05
Laboratory Number: 22
File Name: 2510022A.D
Run Method: A1563_P.M
Can Factor: 1.18
Air Volume: 300.0 ml
Can/Tube Number: 758
Dilution Factor: 0.3540
Base Volume: 1000 ml
Unit Factor (ppbv): 1000 PPBV UG/M3

EDD SURR: PERCENT
Sam Type: SA
Instrument: MA1
DETECT: ND
Matrix: AA
Type: TRG
Diluton: 0.3540
Sig Figs: 2
MDLSF: 2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	15.15	59.59	102.70	59.59	102.70	102.70	102.70	0.100	0.250	0.39	0.68	0.98
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.59	2.92	0.98
Methanol	32.0	0.36	1.42	1.87	ND	ND	0		0.500	0.600	1.97	2.58	2.36
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.59	1.22	0.98
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	2.75	0.98
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.51	0.98
1,3-Butadiene	54.1	0.00	0.00	0.01	ND	ND	0		0.050	0.250	0.20	0.44	0.98
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	1.53	0.98
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	1.04	0.98
Ethanol	46.1	0.82	3.22	6.08	3.22	6.08	6.08	6.08	0.500	3.210	1.97	3.71	12.63
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.39	0.90	1.18
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	2.21	0.98
Acetone	58.1	1.83	7.21	17.17	7.21	17.17	17.17	17.17	0.500	0.600	1.97	4.68	2.36
2-propanol (isopropylalcohol)	60.1	0.16	0.64	1.57	ND	ND	0		0.200	1.250	0.79	1.94	4.92
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.39	1.19	3.93
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.39	2.30	1.18
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.78	0.98
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.79	1.71	1.18
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.51	0.98
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.62	3.93
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.68	0.98
Carbon disulfide	76.1	0.11	0.42	1.31	0.42	1.31	1.31	1.31	0.100	0.250	0.39	1.23	0.98
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.20	0.78	0.79
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.39	1.42	0.79
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	0.98	2.22	1.57
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.80	0.98
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	1.65	0.98
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.69	3.93
2-Butanone (MEK)	72.1	0.72	2.83	8.37	2.83	8.37	8.37	8.37	0.100	0.300	0.39	1.16	1.18
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.39	1.65	2.36
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	1.39	0.98
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	1.08	0.98
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	1.42	0.98
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.04	0.98
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.39	1.39	1.97
Tetrahydrofuran	72.1	0.28	1.09	3.21	1.09	3.21	3.21	3.21	0.050	0.300	0.20	0.58	1.18
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.79	2.39	3.15
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.78	0.98
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.91	0.98
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.96	0.98
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.07	0.98
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.80	0.98
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.89	0.98
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.68	0.98
Benzene	78.1	0.25	0.97	3.10	ND	ND	0		0.350	0.500	1.38	4.40	1.97
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.24	0.98
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.39	1.65	1.97
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	0.98
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	1.61	0.98

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.91	0.98
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.39	1.42	1.97
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.40	0.98
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.53	0.98
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.32	0.98
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	1.61	0.98
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.39	1.61	3.15
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.89	0.98
Toluene	92.1	0.14	0.55	2.06	ND	ND	0		0.200	0.250	0.79	2.97	0.98
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.89	0.98
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.07	0.98
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	1.84	0.98
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.39	1.61	3.15
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.20	0.91	2.75
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	1.84	0.98
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	3.36	0.98
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	3.03	0.98
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.67	0.98
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	1.81	0.98
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	2.70	0.98
Ethylbenzene	106.2	0.09	0.36	1.59	ND	ND	0		0.100	0.250	0.39	1.71	0.98
m,p-Xylenes	106.2	0.15	0.59	2.59	0.59	2.59	2.59	2.59	0.100	0.250	0.39	1.71	0.98
Nonane	128.3	0.04	0.15	0.79	ND	ND	0		0.100	0.250	0.39	2.07	0.98
Styrene	104.2	0.06	0.23	1.00	ND	ND	0		0.150	0.250	0.59	2.52	0.98
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.39	4.07	0.98
o-Xylene	106.2	0.10	0.40	1.73	0.40	1.73	1.73	1.73	0.100	0.250	0.39	1.71	0.98
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.79	5.41	1.97
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.79	4.75	2.36
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.79	4.03	2.36
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.79	3.87	2.75
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.79	3.87	2.75
4-Ethyltoluene	120.2	0.04	0.14	0.71	ND	ND	0		0.200	1.600	0.79	3.87	6.29
1,3,5-Trimethylbenzene	120.2	0.04	0.15	0.72	ND	ND	0		0.200	0.900	0.79	3.87	3.54
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.79	4.58	2.36
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.79	4.32	2.36
1,2,4-Trimethylbenzene	120.2	0.05	0.19	0.96	ND	ND	0		0.200	0.900	0.79	3.87	3.54
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.79	4.32	2.36
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.79	4.32	2.75
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.79	4.74	3.15
Isopropyltoluene	134.2	0.08	0.31	1.69	ND	ND	0		0.200	0.600	0.79	4.32	2.36
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.79	4.08	1.97
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.79	4.74	1.97
n-Butylbenzene	134.2	0.01	0.04	0.22	ND	ND	0		0.200	0.600	0.79	4.32	2.36
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.79	4.74	2.75
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.18	11.42	2.75
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.18	8.77	1.97
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	1.97	10.33	0.39
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.18	8.77	1.97
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	0.98	10.50	1.18
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		11.21	112	112	112	112	112	112	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.69				=		Y	59.59	102.70
4.87	U	ND		ND		Y	0.00	0.00
3.09	U	ND		ND		Y	0.00	0.00
2.03	U	ND		ND		Y	0.00	0.00
6.88	U	ND		ND		Y	0.00	0.00
2.52	U	ND		ND		Y	0.00	0.00
2.18	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
2.60	U	ND		ND		Y	0.00	0.00
23.84	J	J		=		Y	3.22	6.08
2.71	U	ND		ND		Y	0.00	0.00
5.53	U	ND		ND		Y	0.00	0.00
5.62				=		Y	7.21	17.17
12.10	U	ND		ND		Y	0.00	0.00
11.94	U	ND		ND		Y	0.00	0.00
6.91	U	ND		ND		Y	0.00	0.00
3.90	U	ND		ND		Y	0.00	0.00
2.57	U	ND		ND		Y	0.00	0.00
7.55	U	ND		ND		Y	0.00	0.00
12.32	U	ND		ND		Y	0.00	0.00
3.42	U	ND		ND		Y	0.00	0.00
3.06	J	J		=		Y	0.42	1.31
3.12	U	ND		ND		Y	0.00	0.00
2.84	U	ND		ND		Y	0.00	0.00
3.55	U	ND		ND		Y	0.00	0.00
3.99	U	ND		ND		Y	0.00	0.00
4.12	U	ND		ND		Y	0.00	0.00
13.87	U	ND		ND		Y	0.00	0.00
3.48				=		Y	2.83	8.37
9.88	U	ND		ND		Y	0.00	0.00
3.47	U	ND		ND		Y	0.00	0.00
2.70	U	ND		ND		Y	0.00	0.00
3.55	U	ND		ND		Y	0.00	0.00
5.21	U	ND		ND		Y	0.00	0.00
6.93	U	ND		ND		Y	0.00	0.00
3.48	J	J		=		Y	1.09	3.21
9.55	U	ND		ND		Y	0.00	0.00
3.90	U	ND		ND		Y	0.00	0.00
4.55	U	ND		ND		Y	0.00	0.00
4.81	U	ND		ND		Y	0.00	0.00
5.37	U	ND		ND		Y	0.00	0.00
3.99	U	ND		ND		Y	0.00	0.00
4.47	U	ND		ND		Y	0.00	0.00
3.39	U	ND		ND		Y	0.00	0.00
6.29	U	ND		ND		Y	0.00	0.00
6.19	U	ND		ND		Y	0.00	0.00
8.23	U	ND		ND		Y	0.00	0.00
4.60	U	ND		ND		Y	0.00	0.00
4.04	U	ND		ND		Y	0.00	0.00

4.55	U	ND	ND	Y	0.00	0.00
7.10	U	ND	ND	Y	0.00	0.00
7.00	U	ND	ND	Y	0.00	0.00
5.29	U	ND	ND	Y	0.00	0.00
6.60	U	ND	ND	Y	0.00	0.00
4.03	U	ND	ND	Y	0.00	0.00
12.91	U	ND	ND	Y	0.00	0.00
4.47	U	ND	ND	Y	0.00	0.00
3.71	U	ND	ND	Y	0.00	0.00
4.47	U	ND	ND	Y	0.00	0.00
5.37	U	ND	ND	Y	0.00	0.00
4.60	U	ND	ND	Y	0.00	0.00
12.91	U	ND	ND	Y	0.00	0.00
12.74	U	ND	ND	Y	0.00	0.00
4.60	U	ND	ND	Y	0.00	0.00
8.39	U	ND	ND	Y	0.00	0.00
7.57	U	ND	ND	Y	0.00	0.00
6.68	U	ND	ND	Y	0.00	0.00
4.53	U	ND	ND	Y	0.00	0.00
6.76	U	ND	ND	Y	0.00	0.00
4.28	U	ND	ND	Y	0.00	0.00
4.28	J	J	=	Y	0.59	2.59
5.17	U	ND	ND	Y	0.00	0.00
4.20	U	ND	ND	Y	0.00	0.00
10.18	U	ND	ND	Y	0.00	0.00
4.28	J	J	=	Y	0.40	1.73
13.52	U	ND	ND	Y	0.00	0.00
14.25	U	ND	ND	Y	0.00	0.00
12.08	U	ND	ND	Y	0.00	0.00
13.55	U	ND	ND	Y	0.00	0.00
13.55	U	ND	ND	Y	0.00	0.00
30.98	U	ND	ND	Y	0.00	0.00
17.43	U	ND	ND	Y	0.00	0.00
13.75	U	ND	ND	Y	0.00	0.00
12.97	U	ND	ND	Y	0.00	0.00
17.43	U	ND	ND	Y	0.00	0.00
12.97	U	ND	ND	Y	0.00	0.00
15.13	U	ND	ND	Y	0.00	0.00
18.94	U	ND	ND	Y	0.00	0.00
12.97	U	ND	ND	Y	0.00	0.00
10.20	U	ND	ND	Y	0.00	0.00
11.84	U	ND	ND	Y	0.00	0.00
12.97	U	ND	ND	Y	0.00	0.00
16.58	U	ND	ND	Y	0.00	0.00
26.65	U	ND	ND	Y	0.00	0.00
14.61	U	ND	ND	Y	0.00	0.00
2.07	U	ND	ND	Y	0.00	0.00
14.61	U	ND	ND	Y	0.00	0.00
12.60	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**22**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.18
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)]$_i$ Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) **= Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

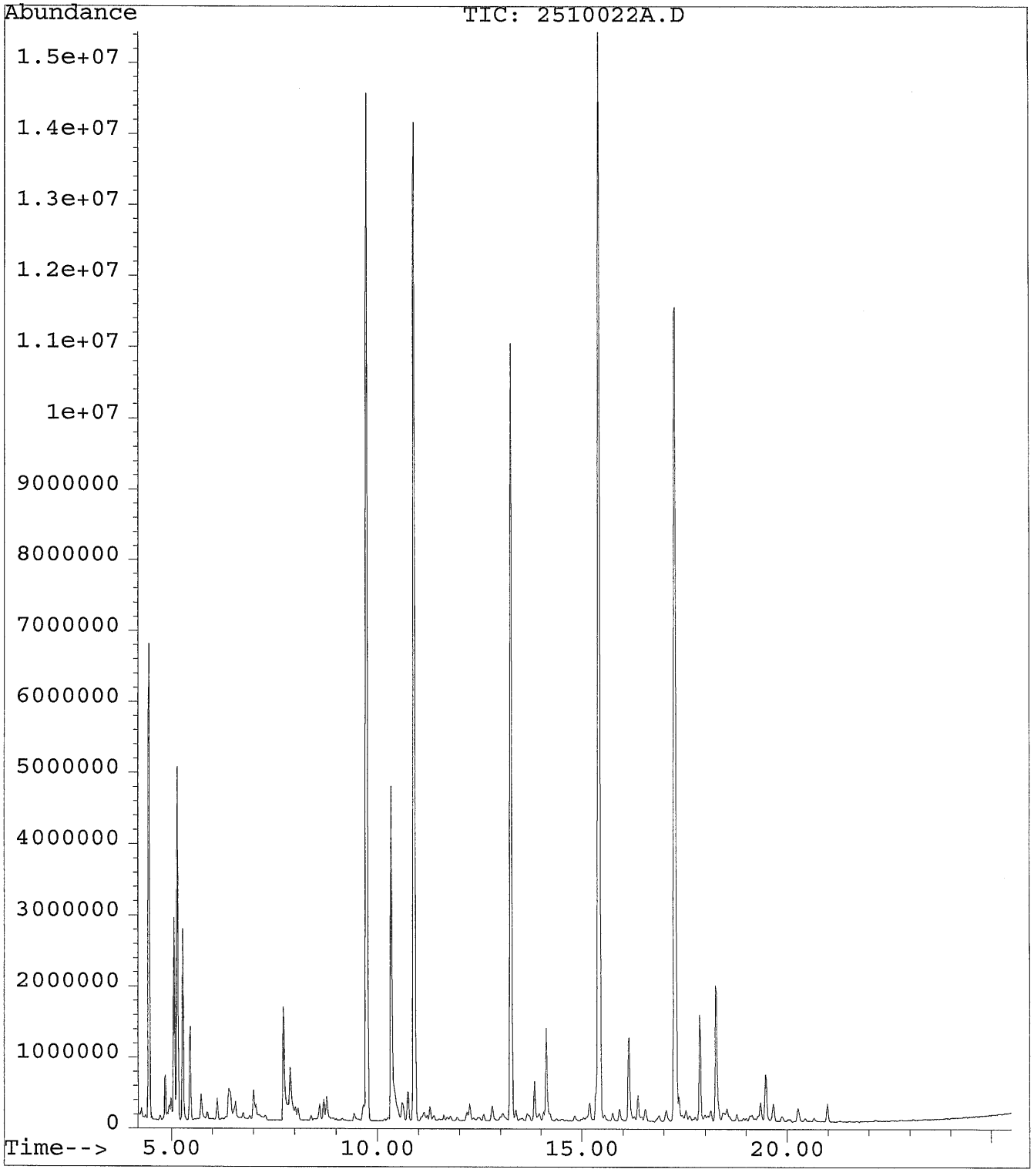
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	2604601	20.0	13974284	15.150	59.59	102.70
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	13974284	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	278289	20.0	13974284	0.362	1.42	1.87
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	13974284	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	13974284	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	13974284	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	300	20.0	13974284	0.001	0.00	0.01
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	13974284	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	13974284	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	81403	20.0	13974284	0.819	3.22	6.08
12	Acrolein	PFB	TRG	56.1	0.130	0	20.0	13974284	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	13974284	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	305614	20.0	13974284	1.834	7.21	17.17
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	113114	20.0	13974284	0.163	0.64	1.57
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	13974284	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	13974284	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	13974284	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	13974284	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	13974284	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	13974284	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	13974284	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	65843	20.0	13974284	0.107	0.42	1.31
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	13974284	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	13974284	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	13974284	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	13974284	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	13974284	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	13974284	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	100571	20.0	13974284	0.720	2.83	8.37
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	13974284	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	13974284	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	13974284	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	13974284	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	13974284	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	13974284	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	41186	20.0	13974284	0.276	1.09	3.21
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	13974284	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	13974284	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	13974284	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	13974284	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	16691395	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	16691395	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	16691395	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	16691395	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	221086	20.0	16691395	0.247	0.97	3.10
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	16691395	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	16691395	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	16691395	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	16691395	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	16691395	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	16691395	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	16691395	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	16691395	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	16691395	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	16691395	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	16691395	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	16691395	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	173720	20.0	16691395	0.139	0.55	2.06
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	16691395	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	16691395	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	16691395	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	16691395	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	16691395	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	16691395	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	16691395	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	16691395	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	16691395	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	16486645	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	16486645	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	136076	20.0	16486645	0.093	0.36	1.59
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	198170	20.0	16486645	0.151	0.59	2.59
76	Nonane	d5CB	TRG	128.3	1.278	40133	20.0	16486645	0.038	0.15	0.79
77	Styrene	d5CB	TRG	104.2	1.106	54343	20.0	16486645	0.060	0.23	1.00
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	16486645	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	138401	20.0	16486645	0.101	0.40	1.73
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	16486645	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	16486645	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	16486645	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	16486645	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	16486645	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	65747	20.0	16486645	0.037	0.14	0.71
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	59948	20.0	16486645	0.037	0.15	0.72
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	16486645	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	16486645	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	84073	20.0	16486645	0.049	0.19	0.96
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	16486645	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	16486645	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	16486645	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	187835	20.0	16486645	0.078	0.31	1.69
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	16486645	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	16486645	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	26939	20.0	16486645	0.010	0.04	0.22
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	16486645	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	16486645	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	16486645	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	16486645	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	16486645	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	16486645	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	13974284	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	16691395	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	16486645	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	11499114	10.0		11.206	112.06	112

File : C:\MSCHEM\1\DATA\04015A_C\2510022A.D
Operator : UG
Acquired : 1 Apr 125 7:45 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-204
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number 225100

Lab Id Number 23

Client ID T-205

Analytical Method TO-15

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Quantitation Report
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Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 23

File Name: 2510023A.D
Description: T-205
Canister: 659
QC_Batch: 040125-MA1

Date Sampled: 03/20/25 **Time:** 10:00
Date Analyzed: 04/01/25 **Time:** 19:07
Can Dilution Factor: 1.27
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.06	2.34	0.73	1.82	4.04	
75-71-8	Dichlorodifluoromethane	0.64	1.06	ND	3.14	5.24	ND	
67-56-1	Methanol	2.12	2.54	9.67	2.77	3.33	12.67	
74-87-3	Chloromethane	0.64	1.06	ND	1.31	2.19	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.06	ND	2.96	7.41	ND	
75-01-4	Vinyl chloride	0.21	1.06	ND	0.55	2.71	ND	
106-99-0	1,3-Butadiene	0.21	1.06	ND	0.47	2.34	ND	
74-83-9	Bromomethane	0.42	1.06	ND	1.65	4.11	ND	
75-00-3	Chloroethane	0.42	1.06	ND	1.12	2.80	ND	
64-17-5	Ethanol	2.12	13.59	ND	4.00	25.66	ND	
107-02-8	Acrolein	0.42	1.27	1.89	0.97	2.92	4.33	
75-69-4	Trichlorofluoromethane	0.42	1.06	ND	2.38	5.96	ND	
67-64-1	Acetone	2.12	2.54	7.04	5.04	6.04	16.74	
67-63-0	2-propanol (isopropylalcohol)	0.85	5.29	2.63	2.08	13.02	6.48	J
75-65-0	t-Butyl alcohol	0.42	4.23	ND	1.28	12.85	ND	
4227-95-6	Methyl iodide	0.42	1.27	ND	2.48	7.43	ND	
75-35-4	1,1-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
107-13-1	Acrylonitrile	0.85	1.27	ND	1.84	2.76	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.06	ND	1.62	8.12	ND	
107-05-1	Allyl chloride	0.21	4.23	ND	0.66	13.26	ND	
75-09-2	Methylene chloride	0.21	1.06	ND	0.74	3.68	ND	
75-15-0	Carbon disulfide	0.42	1.06	ND	1.32	3.30	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.85	ND	0.84	3.36	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.85	ND	1.53	3.05	ND	
107-12-0	Propionitrile	1.06	1.69	ND	2.39	3.82	ND	
75-34-3	1,1-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.06	ND	1.77	4.43	ND	
108-05-4	Vinyl acetate	0.21	4.23	ND	0.75	14.93	ND	
78-93-3	2-Butanone (MEK)	0.42	1.27	0.75	1.25	3.75	2.21	J
108-20-3	Diisopropyl ether	0.42	2.54	ND	1.77	10.63	ND	
110-54-3	Hexane	0.42	1.06	ND	1.49	3.74	ND	
126-98-7	Methacrylonitrile	0.42	1.06	ND	1.16	2.91	ND	
141-78-6	Ethyl acetate	0.42	1.06	ND	1.53	3.82	ND	
74-97-5	Bromochloromethane	0.21	1.06	ND	1.12	5.61	ND	
96-33-3	Methyl acrylate	0.42	2.12	ND	1.49	7.46	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.27	ND	0.63	3.75	ND	
78-83-1	Isobutyl alcohol	0.85	3.39	ND	2.57	10.28	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
594-20-7	2,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
67-66-3	Chloroform	0.21	1.06	ND	1.04	5.18	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
107-06-2	1,2-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
563-58-6	1,1-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
110-82-7	Cyclohexane	0.21	1.06	ND	0.73	3.65	ND	
71-43-2	Benzene	1.48	2.12	ND	4.74	6.77	ND	
56-23-5	Carbon tetrachloride	0.21	1.06	ND	1.33	6.67	ND	
994-05-8	t-Amyl methyl ether	0.42	2.12	ND	1.77	8.86	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.06	0.39	0.99	4.95	1.81	J
142-82-5	n-Heptane	0.42	1.06	ND	1.74	4.34	ND	
78-87-5	1,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
123-91-1	1,4 Dioxane	0.42	2.12	ND	1.53	7.64	ND	
74-95-3	Dibromomethane	0.21	1.06	ND	1.51	7.53	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.06	ND	0.57	5.70	ND	
75-27-4	Bromodichloromethane	0.21	1.06	ND	1.42	7.10	ND	
80-62-6	Methyl methacrylate	0.42	1.06	ND	1.74	4.34	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.39	ND	1.74	13.90	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
108-88-3	Toluene	0.85	1.06	ND	3.19	3.99	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
97-63-2	Ethyl methacrylate	0.42	1.06	ND	1.98	4.95	ND	
591-78-6	2-Hexanone	0.42	3.39	ND	1.74	13.90	ND	
142-28-9	1,3-Dichloropropane	0.21	2.96	ND	0.98	13.71	ND	
111-65-9	Octane	0.42	1.06	ND	1.98	4.95	ND	
124-48-1	Dibromochloromethane	0.42	1.06	ND	3.61	9.03	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.06	ND	3.26	8.14	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.06	0.44	0.72	7.19	2.98	J
108-90-7	Chlorobenzene	0.42	1.06	ND	1.95	4.88	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.06	ND	2.91	7.27	ND	
100-41-4	Ethylbenzene	0.42	1.06	ND	1.84	4.60	ND	
1330-20-7	m,p-Xylenes	0.42	1.06	ND	1.84	4.60	ND	
111-84-2	Nonane	0.42	1.06	ND	2.22	5.56	ND	
100-42-5	Styrene	0.64	1.06	ND	2.71	4.52	ND	
75-25-2	Bromoform	0.42	1.06	ND	4.38	10.95	ND	
95-47-6	o-Xylene	0.42	1.06	ND	1.84	4.60	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.85	2.12	ND	5.82	14.55	ND	
96-18-4	1,2,3-Trichloropropane	0.85	2.54	ND	5.11	15.33	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.85	2.54	ND	4.33	13.00	ND	
103-65-1	n-Propylbenzene	0.85	2.96	ND	4.17	14.59	ND	
98-82-8	Isopropylbenzene	0.85	2.96	ND	4.17	14.59	ND	
622-96-8	4-Ethyltoluene	0.85	6.77	ND	4.17	33.34	ND	
108-67-8	1,3,5-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
124-18-5	Decane	0.85	2.54	ND	4.93	14.80	ND	
98-06-6	tert-butyl benzene	0.85	2.54	ND	4.65	13.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
538-93-2	i-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
135-98-8	sec-butylbenzene	0.85	2.96	ND	4.65	16.29	ND	
541-73-1	1,3-Dichlorobenzene	0.85	3.39	ND	5.10	20.39	ND	
99-87-6	Isopropyltoluene	0.85	2.54	ND	4.65	13.96	ND	
100-44-7	Benzyl chloride	0.85	2.12	ND	4.39	10.97	ND	
106-46-7	1,4-Dichlorobenzene	0.85	2.12	ND	5.10	12.74	ND	
104-51-8	n-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
95-50-1	1,2-Dichlorobenzene	0.85	2.96	ND	5.10	17.84	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.27	2.96	ND	12.29	28.68	ND	
120-82-1	1,2,4-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
91-20-3	Naphthalene	2.12	0.42	ND	11.11	2.22	ND	
87-61-6	1,2,3-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
87-68-3	Hexachlorobutadiene	1.06	1.27	ND	11.30	13.56	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	98	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**23**		
File Name:	2510023A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/20/25**	**Time:**	**10:00**
Sample ID:	T-205	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/01/25**	**Time:**	**19:07**
Anal Date:	1 Apr 125 7:07 pm	**SF:**	**2**	**QCbatch:**	**040125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**659**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.27**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	UG	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.554	4.41	42.00	93284
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	2.284	4.86	31.00	1719593
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.445	6.32	56.00	39539
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	1.662	6.42	58.00	271453
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.622	6.45	45.00	424069
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.177	8.75	72.00	24246
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.293	10.70	78.00	261080
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.091	11.25	57.00	152729
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.092	13.50	91.00	114547
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.104	14.69	166.00	63340
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.022	15.90	106	31333
1330-20-7	m,p-Xylenes	75	TRG	0.038	16.06	91.00	46905
111-84-2	Nonane	76	TRG	0.020	16.43	57.00	20249
100-42-5	Styrene	77	TRG	0.058	16.61	104.00	49764
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.020	16.54	91.00	25430
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.026	18.23	105.00	44172
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.026	18.31	105.00	40365
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.024	18.95	105.00	38818
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.099	19.53	119.00	224839
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.009	20.20	91.00	23556
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**13696895**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**16618595**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15648399**
2037-26-5	Toluene-d8	103	SURR	9.809	13.40	98.00	**10021678**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 2E+05
Laboratory Number: 23
File Name: 2510023A.D
Run Method: A1563_P.M
Can Factor: 1.27
Air Volume: 300.0 ml
Can/Tube Number: 659
Dilution Factor: 0.3810
Base Volume: 1000 ml
Unit Factor (ppbv): 1000 PPBV UG/M3

EDD SURR: PERCENT
Sam Type: SA
Instrument: MA1
DETECT: ND
Matrix: AA
Type: TRG
Diluton: 0.3810
Sig Figs: 2
MDLSF: 2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.55	2.34	4.04	2.34	4.04	4.04	4.04	0.100	0.250	0.42	0.73	1.06
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.64	3.14	1.06
Methanol	32.0	2.28	9.67	12.67	9.67	12.67	12.67	12.67	0.500	0.600	2.12	2.77	2.54
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.64	1.31	1.06
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.96	1.06
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.55	1.06
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.47	1.06
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.65	1.06
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.12	1.06
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	2.12	4.00	13.59
Acrolein	56.1	0.45	1.89	4.33	1.89	4.33	4.33	4.33	0.100	0.300	0.42	0.97	1.27
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.38	1.06
Acetone	58.1	1.66	7.04	16.74	7.04	16.74	16.74	16.74	0.500	0.600	2.12	5.04	2.54
2-propanol (isopropylalcohol)	60.1	0.62	2.63	6.48	2.63	6.48	6.48	6.48	0.200	1.250	0.85	2.08	5.29
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.42	1.28	4.23
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.42	2.48	1.27
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.06
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.85	1.84	1.27
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.62	1.06
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.66	4.23
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.74	1.06
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.32	1.06
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.21	0.84	0.85
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.42	1.53	0.85
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.06	2.39	1.69
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.86	1.06
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.77	1.06
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.75	4.23
2-Butanone (MEK)	72.1	0.18	0.75	2.21	0.75	2.21	2.21	2.21	0.100	0.300	0.42	1.25	1.27
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.42	1.77	2.54
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.49	1.06
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.16	1.06
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.53	1.06
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.12	1.06
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.49	2.12
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.21	0.63	1.27
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.85	2.57	3.39
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.06
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.98	1.06
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.04	1.06
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.16	1.06
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.86	1.06
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.73	1.06
Benzene	78.1	0.29	1.24	3.96	ND	ND	0		0.350	0.500	1.48	4.74	2.12
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.33	1.06
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.77	2.12
2,2,4-Trimethylpentane	114.2	0.09	0.39	1.81	0.39	1.81	1.81	1.81	0.050	0.250	0.21	0.99	1.06
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.74	1.06

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.98	1.06
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.53	2.12
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.51	1.06
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.57	1.06
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.42	1.06
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.74	1.06
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.42	1.74	3.39
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06
Toluene	92.1	0.09	0.39	1.47	ND	ND	0		0.200	0.250	0.85	3.19	1.06
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.16	1.06
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.98	1.06
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.42	1.74	3.39
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.21	0.98	2.96
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.98	1.06
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.61	1.06
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.26	1.06
Tetrachloroethene (PCE)	165.8	0.10	0.44	2.98	0.44	2.98	2.98	2.98	0.025	0.250	0.11	0.72	1.06
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.95	1.06
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.91	1.06
Ethylbenzene	106.2	0.02	0.10	0.41	ND	ND	0		0.100	0.250	0.42	1.84	1.06
m,p-Xylenes	106.2	0.04	0.16	0.69	ND	ND	0		0.100	0.250	0.42	1.84	1.06
Nonane	128.3	0.02	0.09	0.45	ND	ND	0		0.100	0.250	0.42	2.22	1.06
Styrene	104.2	0.06	0.24	1.04	ND	ND	0		0.150	0.250	0.64	2.71	1.06
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	4.38	1.06
o-Xylene	106.2	0.02	0.08	0.36	ND	ND	0		0.100	0.250	0.42	1.84	1.06
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	5.82	2.12
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	5.11	2.54
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.33	2.54
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.17	2.96
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.17	2.96
4-Ethyltoluene	120.2	0.03	0.11	0.54	ND	ND	0		0.200	1.600	0.85	4.17	6.77
1,3,5-Trimethylbenzene	120.2	0.03	0.11	0.55	ND	ND	0		0.200	0.900	0.85	4.17	3.81
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.93	2.54
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.65	2.54
1,2,4-Trimethylbenzene	120.2	0.02	0.10	0.50	ND	ND	0		0.200	0.900	0.85	4.17	3.81
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.65	2.54
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.65	2.96
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.85	5.10	3.39
Isopropyltoluene	134.2	0.10	0.42	2.29	ND	ND	0		0.200	0.600	0.85	4.65	2.54
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	4.39	2.12
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	5.10	2.12
n-Butylbenzene	134.2	0.01	0.04	0.21	ND	ND	0		0.200	0.600	0.85	4.65	2.54
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	5.10	2.96
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.27	12.29	2.96
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.27	9.44	2.12
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.12	11.11	0.42
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.27	9.44	2.12
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.06	11.30	1.27
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		9.81	98	98	98	98	98	98	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.82				=		Y	2.34	4.04
5.24	U	ND		ND		Y	0.00	0.00
3.33				=		Y	9.67	12.67
2.19	U	ND		ND		Y	0.00	0.00
7.41	U	ND		ND		Y	0.00	0.00
2.71	U	ND		ND		Y	0.00	0.00
2.34	U	ND		ND		Y	0.00	0.00
4.11	U	ND		ND		Y	0.00	0.00
2.80	U	ND		ND		Y	0.00	0.00
25.66	U	ND		ND		Y	0.00	0.00
2.92				=		Y	1.89	4.33
5.96	U	ND		ND		Y	0.00	0.00
6.04				=		Y	7.04	16.74
13.02	J	J		=		Y	2.63	6.48
12.85	U	ND		ND		Y	0.00	0.00
7.43	U	ND		ND		Y	0.00	0.00
4.20	U	ND		ND		Y	0.00	0.00
2.76	U	ND		ND		Y	0.00	0.00
8.12	U	ND		ND		Y	0.00	0.00
13.26	U	ND		ND		Y	0.00	0.00
3.68	U	ND		ND		Y	0.00	0.00
3.30	U	ND		ND		Y	0.00	0.00
3.36	U	ND		ND		Y	0.00	0.00
3.05	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
4.29	U	ND		ND		Y	0.00	0.00
4.43	U	ND		ND		Y	0.00	0.00
14.93	U	ND		ND		Y	0.00	0.00
3.75	J	J		=		Y	0.75	2.21
10.63	U	ND		ND		Y	0.00	0.00
3.74	U	ND		ND		Y	0.00	0.00
2.91	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
5.61	U	ND		ND		Y	0.00	0.00
7.46	U	ND		ND		Y	0.00	0.00
3.75	U	ND		ND		Y	0.00	0.00
10.28	U	ND		ND		Y	0.00	0.00
4.20	U	ND		ND		Y	0.00	0.00
4.90	U	ND		ND		Y	0.00	0.00
5.18	U	ND		ND		Y	0.00	0.00
5.78	U	ND		ND		Y	0.00	0.00
4.29	U	ND		ND		Y	0.00	0.00
4.81	U	ND		ND		Y	0.00	0.00
3.65	U	ND		ND		Y	0.00	0.00
6.77	U	ND		ND		Y	0.00	0.00
6.67	U	ND		ND		Y	0.00	0.00
8.86	U	ND		ND		Y	0.00	0.00
4.95	J	J		=		Y	0.39	1.81
4.34	U	ND		ND		Y	0.00	0.00

4.90	U	ND	ND	Y	0.00	0.00
7.64	U	ND	ND	Y	0.00	0.00
7.53	U	ND	ND	Y	0.00	0.00
5.70	U	ND	ND	Y	0.00	0.00
7.10	U	ND	ND	Y	0.00	0.00
4.34	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
4.81	U	ND	ND	Y	0.00	0.00
3.99	U	ND	ND	Y	0.00	0.00
4.81	U	ND	ND	Y	0.00	0.00
5.78	U	ND	ND	Y	0.00	0.00
4.95	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
13.71	U	ND	ND	Y	0.00	0.00
4.95	U	ND	ND	Y	0.00	0.00
9.03	U	ND	ND	Y	0.00	0.00
8.14	U	ND	ND	Y	0.00	0.00
7.19	J	J	=	Y	0.44	2.98
4.88	U	ND	ND	Y	0.00	0.00
7.27	U	ND	ND	Y	0.00	0.00
4.60	U	ND	ND	Y	0.00	0.00
4.60	U	ND	ND	Y	0.00	0.00
5.56	U	ND	ND	Y	0.00	0.00
4.52	U	ND	ND	Y	0.00	0.00
10.95	U	ND	ND	Y	0.00	0.00
4.60	U	ND	ND	Y	0.00	0.00
14.55	U	ND	ND	Y	0.00	0.00
15.33	U	ND	ND	Y	0.00	0.00
13.00	U	ND	ND	Y	0.00	0.00
14.59	U	ND	ND	Y	0.00	0.00
14.59	U	ND	ND	Y	0.00	0.00
33.34	U	ND	ND	Y	0.00	0.00
18.76	U	ND	ND	Y	0.00	0.00
14.80	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
18.76	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
16.29	U	ND	ND	Y	0.00	0.00
20.39	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
10.97	U	ND	ND	Y	0.00	0.00
12.74	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
17.84	U	ND	ND	Y	0.00	0.00
28.68	U	ND	ND	Y	0.00	0.00
15.73	U	ND	ND	Y	0.00	0.00
2.22	U	ND	ND	Y	0.00	0.00
15.73	U	ND	ND	Y	0.00	0.00
13.56	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**23**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.27
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\frac{(Astdni)}{(Cstdni)} \frac{(Cistdi)}{(Aistdi)}$ i Note: 1

2) Raw Amt = $\frac{(Ansamp)}{(Avg\ RFn)} \frac{(Cistdi)}{(Aistdi)}$ = **Cn**

3) Amount ppbv = $\frac{(Raw\ Amt)\ 1000}{(SV)}$ (CDF)

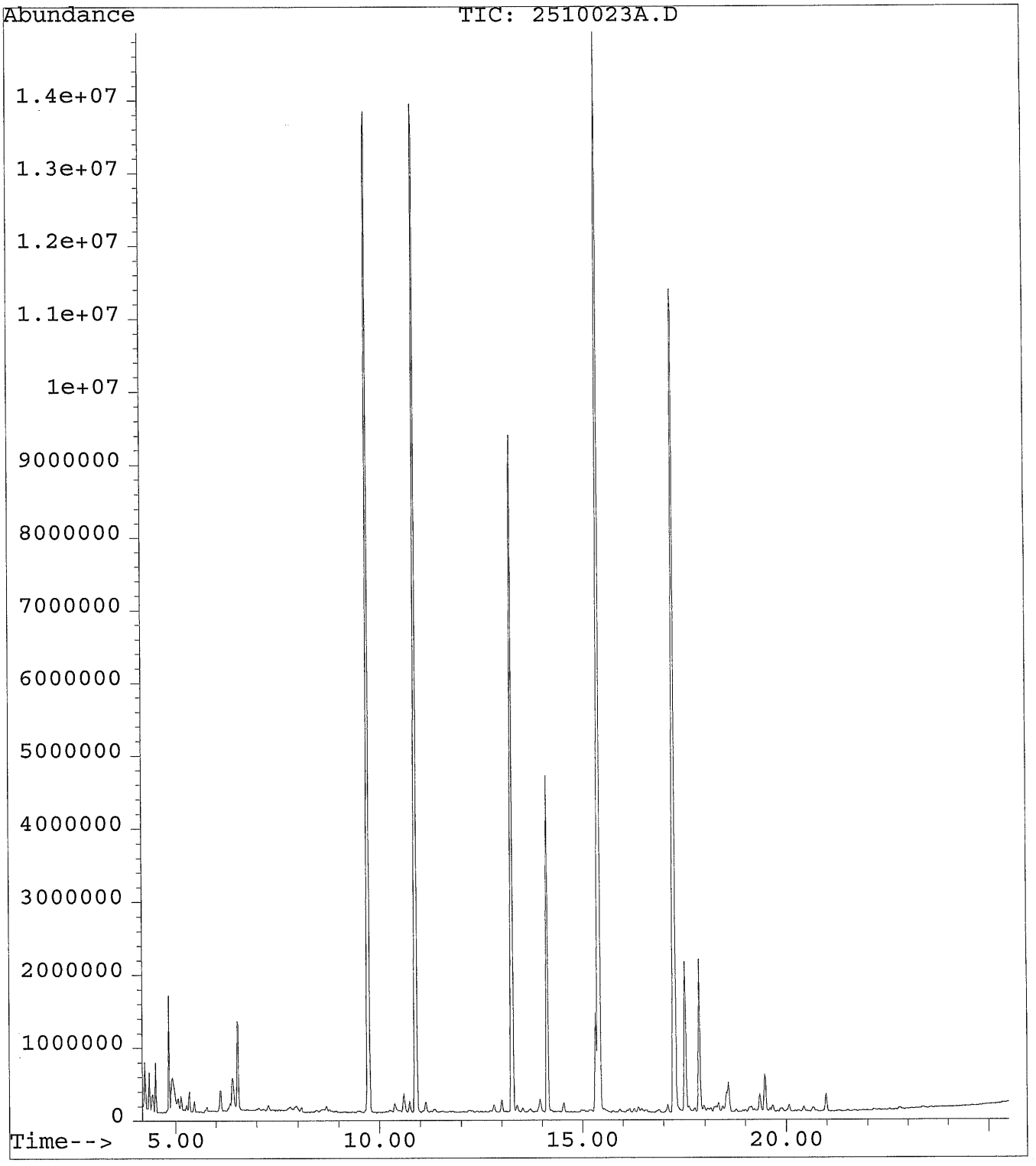
4) Amount ug/m3 = $\frac{(amt(ppbv)\ MW}{24.42}$

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	93284	20.0	13696895	0.554	2.34	4.04
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	13696895	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	1719593	20.0	13696895	2.284	9.67	12.67
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	13696895	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	13696895	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	13696895	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	13696895	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	13696895	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	13696895	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	0	20.0	13696895	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.130	39539	20.0	13696895	0.445	1.89	4.33
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	13696895	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	271453	20.0	13696895	1.662	7.04	16.74
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	424069	20.0	13696895	0.622	2.63	6.48
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	13696895	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	13696895	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	13696895	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	13696895	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	13696895	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	13696895	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	13696895	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	13696895	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	13696895	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	13696895	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	13696895	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	13696895	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	13696895	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	13696895	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	24246	20.0	13696895	0.177	0.75	2.21
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	13696895	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	13696895	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	13696895	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	13696895	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	13696895	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	13696895	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	13696895	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	13696895	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	13696895	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	13696895	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	13696895	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	16618595	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	16618595	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	16618595	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	16618595	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	261080	20.0	16618595	0.293	1.24	3.96
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	16618595	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	16618595	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	152729	20.0	16618595	0.091	0.39	1.81
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	16618595	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	16618595	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	16618595	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	16618595	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	16618595	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	16618595	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	16618595	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	16618595	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	16618595	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	114547	20.0	16618595	0.092	0.39	1.47
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	16618595	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	16618595	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	16618595	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	16618595	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	16618595	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	16618595	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	16618595	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	16618595	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	63340	20.0	16618595	0.104	0.44	2.98
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	15648399	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	15648399	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	31333	20.0	15648399	0.022	0.10	0.41
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	46905	20.0	15648399	0.038	0.16	0.69
76	Nonane	d5CB	TRG	128.3	1.278	20249	20.0	15648399	0.020	0.09	0.45
77	Styrene	d5CB	TRG	104.2	1.106	49764	20.0	15648399	0.058	0.24	1.04
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	15648399	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	25430	20.0	15648399	0.020	0.08	0.36
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	15648399	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	15648399	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	15648399	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	15648399	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	15648399	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	44172	20.0	15648399	0.026	0.11	0.54
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	40365	20.0	15648399	0.026	0.11	0.55
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	15648399	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	15648399	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	38818	20.0	15648399	0.024	0.10	0.50
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	15648399	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	15648399	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	15648399	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	224839	20.0	15648399	0.099	0.42	2.29
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	15648399	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	15648399	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	23556	20.0	15648399	0.009	0.04	0.21
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	15648399	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	15648399	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	15648399	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	15648399	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	15648399	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	15648399	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	13696895	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	16618595	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15648399	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	10021678	10.0		9.809	98.09	98

File : C:\MSCHEM\1\DATA\04015A_C\2510023A.D
Operator : UG
Acquired : 1 Apr 125 7:07 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-205
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number 225100

Lab Id Number 24

Client ID T-206

Analytical Method TO-15

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Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 24**

File Name: 2510024A.D **Date Sampled:** 03/20/25 **Time:** 09:55
Description: T-206 **Date Analyzed:** 04/03/25 **Time:** 19:02
Canister: 882 **Can Dilution Factor:** 1.24
QC_Batch: 040325-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.41	1.03	47.06	0.71	1.78	81.11	
75-71-8	Dichlorodifluoromethane	0.62	1.03	ND	3.07	5.12	ND	
67-56-1	Methanol	2.07	2.48	11.37	2.71	3.25	14.90	
74-87-3	Chloromethane	0.62	1.03	ND	1.28	2.14	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.41	1.03	ND	2.89	7.23	ND	
75-01-4	Vinyl chloride	0.21	1.03	ND	0.53	2.65	ND	
106-99-0	1,3-Butadiene	0.21	1.03	ND	0.46	2.29	ND	
74-83-9	Bromomethane	0.41	1.03	ND	1.61	4.02	ND	
75-00-3	Chloroethane	0.41	1.03	ND	1.09	2.73	ND	
64-17-5	Ethanol	2.07	13.27	25.47	3.90	25.05	48.09	
107-02-8	Acrolein	0.41	1.24	ND	0.95	2.85	ND	
75-69-4	Trichlorofluoromethane	0.41	1.03	ND	2.33	5.81	ND	
67-64-1	Acetone	2.07	2.48	10.99	4.92	5.90	26.15	
67-63-0	2-propanol (isopropylalcohol)	0.83	5.17	ND	2.03	12.72	ND	
75-65-0	t-Butyl alcohol	0.41	4.13	ND	1.25	12.54	ND	
4227-95-6	Methyl iodide	0.41	1.24	ND	2.42	7.26	ND	
75-35-4	1,1-Dichloroethene	0.21	1.03	ND	0.82	4.10	ND	
107-13-1	Acrylonitrile	0.83	1.24	ND	1.80	2.70	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.03	ND	1.59	7.93	ND	
107-05-1	Allyl chloride	0.21	4.13	ND	0.65	12.95	ND	
75-09-2	Methylene chloride	0.21	1.03	2.76	0.72	3.59	9.59	
75-15-0	Carbon disulfide	0.41	1.03	ND	1.29	3.22	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.83	6.61	0.82	3.28	26.24	
1634-04-4	Methyl tert butyl ether	0.41	0.83	ND	1.49	2.98	ND	
107-12-0	Propionitrile	1.03	1.65	ND	2.33	3.73	ND	
75-34-3	1,1-Dichloroethane	0.21	1.03	ND	0.84	4.19	ND	
637-92-3	Ethyl tert butyl ether	0.41	1.03	ND	1.73	4.33	ND	
108-05-4	Vinyl acetate	0.21	4.13	ND	0.73	14.58	ND	
78-93-3	2-Butanone (MEK)	0.41	1.24	ND	1.22	3.66	ND	
108-20-3	Diisopropyl ether	0.41	2.48	ND	1.73	10.38	ND	
110-54-3	Hexane	0.41	1.03	4.41	1.46	3.65	15.58	
126-98-7	Methacrylonitrile	0.41	1.03	ND	1.14	2.84	ND	
141-78-6	Ethyl acetate	0.41	1.03	ND	1.49	3.73	ND	
74-97-5	Bromochloromethane	0.21	1.03	ND	1.10	5.48	ND	
96-33-3	Methyl acrylate	0.41	2.07	ND	1.46	7.29	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.24	2.28	0.61	3.66	6.73	
78-83-1	Isobutyl alcohol	0.83	3.31	ND	2.51	10.03	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.03	ND	0.82	4.10	ND	
594-20-7	2,2-Dichloropropane	0.21	1.03	ND	0.96	4.78	ND	
67-66-3	Chloroform	0.21	1.03	ND	1.01	5.05	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.03	ND	1.13	5.65	ND	
107-06-2	1,2-Dichloroethane	0.21	1.03	9.68	0.84	4.19	39.25	
563-58-6	1,1-Dichloropropene	0.21	1.03	ND	0.94	4.70	ND	
110-82-7	Cyclohexane	0.21	1.03	28.86	0.71	3.56	99.52	
71-43-2	Benzene	1.45	2.07	2.36	4.63	6.61	7.54	
56-23-5	Carbon tetrachloride	0.21	1.03	ND	1.30	6.51	ND	
994-05-8	t-Amyl methyl ether	0.41	2.07	ND	1.73	8.65	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.03	10.58	0.97	4.83	49.49	
142-82-5	n-Heptane	0.41	1.03	ND	1.70	4.24	ND	
78-87-5	1,2-Dichloropropane	0.21	1.03	ND	0.96	4.78	ND	
123-91-1	1,4 Dioxane	0.41	2.07	ND	1.49	7.46	ND	
74-95-3	Dibromomethane	0.21	1.03	ND	1.47	7.36	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.03	2.44	0.56	5.56	13.14	
75-27-4	Bromodichloromethane	0.21	1.03	ND	1.39	6.93	ND	
80-62-6	Methyl methacrylate	0.41	1.03	ND	1.69	4.24	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.41	3.31	ND	1.70	13.57	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.03	ND	0.94	4.70	ND	
108-88-3	Toluene	0.83	1.03	1.39	3.12	3.90	5.24	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.03	ND	0.94	4.70	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.03	ND	1.13	5.65	ND	
97-63-2	Ethyl methacrylate	0.41	1.03	ND	1.93	4.83	ND	
591-78-6	2-Hexanone	0.41	3.31	ND	1.70	13.57	ND	
142-28-9	1,3-Dichloropropane	0.21	2.89	ND	0.96	13.39	ND	
111-65-9	Octane	0.41	1.03	ND	1.93	4.83	ND	
124-48-1	Dibromochloromethane	0.41	1.03	ND	3.53	8.82	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.41	1.03	ND	3.18	7.95	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.03	27.64	0.70	7.02	187.66	
108-90-7	Chlorobenzene	0.41	1.03	ND	1.91	4.77	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.41	1.03	ND	2.84	7.10	ND	
100-41-4	Ethylbenzene	0.41	1.03	ND	1.80	4.49	ND	
1330-20-7	m,p-Xylenes	0.41	1.03	2.05	1.80	4.49	8.92	
111-84-2	Nonane	0.41	1.03	ND	2.17	5.43	ND	
100-42-5	Styrene	0.62	1.03	ND	2.65	4.41	ND	
75-25-2	Bromoform	0.41	1.03	ND	4.28	10.69	ND	
95-47-6	o-Xylene	0.41	1.03	3.21	1.80	4.49	13.97	
79-34-5	1,1,2,2-Tetrachloroethane	0.83	2.07	ND	5.68	14.20	ND	
96-18-4	1,2,3-Trichloropropane	0.83	2.48	ND	4.99	14.97	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.83	2.48	ND	4.23	12.70	ND	
103-65-1	n-Propylbenzene	0.83	2.89	ND	4.07	14.24	ND	
98-82-8	Isopropylbenzene	0.83	2.89	ND	4.07	14.24	ND	
622-96-8	4-Ethyltoluene	0.83	6.61	ND	4.07	32.56	ND	
108-67-8	1,3,5-Trimethylbenzene	0.83	3.72	ND	4.07	18.31	ND	
124-18-5	Decane	0.83	2.48	ND	4.82	14.45	ND	
98-06-6	tert-butyl benzene	0.83	2.48	ND	4.54	13.63	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.83	3.72	ND	4.07	18.31	ND	
538-93-2	i-Butylbenzene	0.83	2.48	ND	4.54	13.63	ND	
135-98-8	sec-butylbenzene	0.83	2.89	ND	4.54	15.90	ND	
541-73-1	1,3-Dichlorobenzene	0.83	3.31	ND	4.98	19.91	ND	
99-87-6	Isopropyltoluene	0.83	2.48	1.17	4.54	13.63	6.45	J
100-44-7	Benzyl chloride	0.83	2.07	ND	4.29	10.72	ND	
106-46-7	1,4-Dichlorobenzene	0.83	2.07	ND	4.98	12.44	ND	
104-51-8	n-Butylbenzene	0.83	2.48	ND	4.54	13.63	ND	
95-50-1	1,2-Dichlorobenzene	0.83	2.89	ND	4.98	17.42	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.24	2.89	ND	12.00	28.00	ND	
120-82-1	1,2,4-Trichlorobenzene	1.24	2.07	ND	9.21	15.35	ND	
91-20-3	Naphthalene	2.07	0.41	ND	10.85	2.17	ND	
87-61-6	1,2,3-Trichlorobenzene	1.24	2.07	ND	9.21	15.35	ND	
87-68-3	Hexachlorobutadiene	1.03	1.24	ND	11.04	13.24	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	100	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**24**		
File Name:	2510024A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/20/25**	**Time:**	**9:55**
Sample ID:	T-206	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/03/25**	**Time:**	**19:02**
Anal Date:	3 Apr 125 7:02 pm	**SF:**	**2**	**QCbatch:**	**040325-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**882**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.24**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	SS	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	11.386	4.41	42.00	1946462
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	2.750	4.86	31.00	2101054
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoretha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	6.163	5.72	46.00	609216
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	2.659	6.42	58.00	440600
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.035	7.03	59.00	22435
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoretha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.667	7.35	84.00	110877
75-15-0	Carbon disulfide	23	TRG	0.043	7.61	76.00	26441
156-60-5	trans-1,2-Dichloroethene	24	TRG	1.600	8.06	96.00	371220
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	1.067	8.86	57.00	548220
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.551	9.72	72.00	81689
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.044	9.42	83.00	**22045**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	2.342	10.27	61.95	1118014
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	6.982	10.74	56.00	3298034
71-43-2	Benzene	47	TRG	0.570	10.70	78.00	487647
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	2.560	11.25	57.00	4106562
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.591	10.70	130.00	228903
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.336	13.50	91.00	401765
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	6.686	14.69	166.00	3918713
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.089	15.90	106	114089
1330-20-7	m,p-Xylenes	75	TRG	0.496	16.06	91.00	567058
111-84-2	Nonane	76	TRG	0.002	16.43	57.00	1396
100-42-5	Styrene	77	TRG	0.057	16.61	104.00	45264
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.777	16.54	91.00	928438
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.044	18.23	105.00	69291
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.077	18.31	105.00	107433
124-18-5	Decane	87	TRG	0.006	18.60	57.00	9349
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.028	18.95	105.00	41201
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.284	19.53	119.00	594401
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**13895695**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**15924445**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**14375853**
2037-26-5	Toluene-d8	103	SURR	10.032	13.40	98.00	**9820531**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**	EDD SURR:	PERCENT	IS LCL	**50**	Gas Constant	
Laboratory Number:	**24**	Sam Type:	SA	IS UCL	**200**	T	24.5
File Name:	2510024A.D	Instrument:	MA1	SUR LCL	**70**	P	**760**
Run Method:	A1563_P.M	DETECT:	ND	SUR UCL	**130**	MV	24.417
Can Factor:	1.24	Matrix:	AA	MDL Factor	**1.0**	GC	24.417
Air Volume:	300.0 ml	Type:	TRG	E Flag	1.3		
Can/Tube Number:	882	Diluton:	0.3720				
Dilution Factor:	0.3720	Sig Figs:	2				
Base Volume:	1000 ml	MDLSF:	2				

Unit Factor (ppbv):	1000	PPBV	UG/M3		Fixed	Fixed	Fixed	Fixed	(1)	(2)	Calc	Calc	Calc
	M.W.	Raw	ResultV	Result	Result	Result	ResultQ	ResultG	MDL	RL	MDL	MDL	RL
Compound		Amount	PPBV	UG/M3	PPBV	UG/M3	UG/M3	UG/M3		PPBV	PPBV	UG/M3	PPBV
Propylene	42.08	11.39	47.06	81.11	47.06	81.11	81.11	81.11	**0.100**	**0.250**	0.41	0.71	1.03
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	0.62	3.07	1.03
Methanol	32.0	2.75	11.37	14.90	11.37	14.90	14.90	14.90	**0.500**	**0.600**	2.07	2.71	2.48
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	0.62	1.28	1.03
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	2.89	1.03
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.53	1.03
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.46	1.03
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	1.61	1.03
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	1.09	1.03
Ethanol	46.1	6.16	25.47	48.09	25.47	48.09	48.09	48.09	**0.500**	**3.210**	2.07	3.90	13.27
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	0.41	0.95	1.24
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	2.33	1.03
Acetone	58.1	2.66	10.99	26.15	10.99	26.15	26.15	26.15	**0.500**	**0.600**	2.07	4.92	2.48
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**1.250**	0.83	2.03	5.17
t-Butyl alcohol	74.1	0.04	0.15	0.45	ND	ND	0		**0.100**	**1.000**	0.41	1.25	4.13
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	0.41	2.42	1.24
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.82	1.03
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.300**	0.83	1.80	1.24
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.59	1.03
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	0.21	0.65	4.13
Methylene chloride	84.9	0.67	2.76	9.59	2.76	9.59	9.59	9.59	**0.050**	**0.250**	0.21	0.72	1.03
Carbon disulfide	76.1	0.04	0.18	0.56	ND	ND	0		**0.100**	**0.250**	0.41	1.29	1.03
trans-1,2-Dichloroethene	96.9	1.60	6.61	26.24	6.61	26.24	26.24	26.24	**0.050**	**0.200**	0.21	0.82	0.83
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.200**	0.41	1.49	0.83
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		**0.250**	**0.400**	1.03	2.33	1.65
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.84	1.03
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	1.73	1.03
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	0.21	0.73	4.13
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	0.41	1.22	1.24
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.600**	0.41	1.73	2.48
Hexane	86.2	1.07	4.41	15.58	4.41	15.58	15.58	15.58	**0.100**	**0.250**	0.41	1.46	1.03
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	1.14	1.03
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	1.49	1.03
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.10	1.03
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.41	1.46	2.07
Tetrahydrofuran	72.1	0.55	2.28	6.73	2.28	6.73	6.73	6.73	**0.050**	**0.300**	0.21	0.61	1.24
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.800**	0.83	2.51	3.31
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.82	1.03
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.96	1.03
Chloroform	119.4	0.04	0.18	0.90	ND	ND	0		**0.050**	**0.250**	0.21	1.01	1.03
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.13	1.03
1,2-Dichloroethane	99.0	2.34	9.68	39.25	9.68	39.25	39.25	39.25	**0.050**	**0.250**	0.21	0.84	1.03
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.94	1.03
Cyclohexane	84.2	6.98	28.86	99.52	28.86	99.52	99.52	99.52	**0.050**	**0.250**	0.21	0.71	1.03
Benzene	78.1	0.57	2.36	7.54	2.36	7.54	7.54	7.54	**0.350**	**0.500**	1.45	4.63	2.07
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.30	1.03
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.41	1.73	2.07
2,2,4-Trimethylpentane	114.2	2.56	10.58	49.49	10.58	49.49	49.49	49.49	**0.050**	**0.250**	0.21	0.97	1.03
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	1.70	1.03

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.96	1.03
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.41	1.49	2.07
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.47	1.03
Trichloroethene (TCE)	131.4	0.59	2.44	13.14	2.44	13.14	13.14	13.14	**0.025**	**0.250**	0.10	0.56	1.03
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.39	1.03
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	1.69	1.03
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.800**	0.41	1.70	3.31
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.94	1.03
Toluene	92.1	0.34	1.39	5.24	1.39	5.24	5.24	5.24	**0.200**	**0.250**	0.83	3.12	1.03
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.94	1.03
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.13	1.03
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	1.93	1.03
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.800**	0.41	1.70	3.31
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.700**	0.21	0.96	2.89
Octane	114.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	1.93	1.03
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	3.53	1.03
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	3.18	1.03
Tetrachloroethene (PCE)	165.8	6.69	27.64	187.66	27.64	187.66	187.66	187.66	**0.025**	**0.250**	0.10	0.70	1.03
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	1.91	1.03
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	2.84	1.03
Ethylbenzene	106.2	0.09	0.37	1.60	ND	ND	0		**0.100**	**0.250**	0.41	1.80	1.03
m,p-Xylenes	106.2	0.50	2.05	8.92	2.05	8.92	8.92	8.92	**0.100**	**0.250**	0.41	1.80	1.03
Nonane	128.3	0.00	0.01	0.03	ND	ND	0		**0.100**	**0.250**	0.41	2.17	1.03
Styrene	104.2	0.06	0.24	1.00	ND	ND	0		**0.150**	**0.250**	0.62	2.65	1.03
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.41	4.28	1.03
o-Xylene	106.2	0.78	3.21	13.97	3.21	13.97	13.97	13.97	**0.100**	**0.250**	0.41	1.80	1.03
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.500**	0.83	5.68	2.07
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.83	4.99	2.48
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.83	4.23	2.48
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.700**	0.83	4.07	2.89
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.700**	0.83	4.07	2.89
4-Ethyltoluene	120.2	0.04	0.18	0.90	ND	ND	0		**0.200**	**1.600**	0.83	4.07	6.61
1,3,5-Trimethylbenzene	120.2	0.08	0.32	1.56	ND	ND	0		**0.200**	**0.900**	0.83	4.07	3.72
Decane	142.3	0.01	0.02	0.13	ND	ND	0		**0.200**	**0.600**	0.83	4.82	2.48
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.83	4.54	2.48
1,2,4-Trimethylbenzene	120.2	0.03	0.11	0.57	ND	ND	0		**0.200**	**0.900**	0.83	4.07	3.72
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.83	4.54	2.48
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.700**	0.83	4.54	2.89
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.800**	0.83	4.98	3.31
Isopropyltoluene	134.2	0.28	1.17	6.45	1.17	6.45	6.45	6.45	**0.200**	**0.600**	0.83	4.54	2.48
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.500**	0.83	4.29	2.07
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.500**	0.83	4.98	2.07
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.600**	0.83	4.54	2.48
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.700**	0.83	4.98	2.89
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		**0.300**	**0.700**	1.24	12.00	2.89
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		**0.300**	**0.500**	1.24	9.21	2.07
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		**0.500**	**0.100**	2.07	10.85	0.41
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		**0.300**	**0.500**	1.24	9.21	2.07
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		**0.250**	**0.300**	1.03	11.04	1.24
Pentafluorobenzene		20.00							**20.0**	**20.0**			
1,4-Difluorobenzene		20.00							**20.0**	**20.0**			
Chlorobenzene-d5		20.00							**20.0**	**20.0**			
Toluene-d8		10.03	100	100	100	100	100	100	**10.0**	**10.0**			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.78				=		Y	47.06	81.11
5.12	U	ND		ND		Y	0.00	0.00
3.25				=		Y	11.37	14.90
2.14	U	ND		ND		Y	0.00	0.00
7.23	U	ND		ND		Y	0.00	0.00
2.65	U	ND		ND		Y	0.00	0.00
2.29	U	ND		ND		Y	0.00	0.00
4.02	U	ND		ND		Y	0.00	0.00
2.73	U	ND		ND		Y	0.00	0.00
25.05				=		Y	25.47	48.09
2.85	U	ND		ND		Y	0.00	0.00
5.81	U	ND		ND		Y	0.00	0.00
5.90				=		Y	10.99	26.15
12.72	U	ND		ND		Y	0.00	0.00
12.54	U	ND		ND		Y	0.00	0.00
7.26	U	ND		ND		Y	0.00	0.00
4.10	U	ND		ND		Y	0.00	0.00
2.70	U	ND		ND		Y	0.00	0.00
7.93	U	ND		ND		Y	0.00	0.00
12.95	U	ND		ND		Y	0.00	0.00
3.59				=		Y	2.76	9.59
3.22	U	ND		ND		Y	0.00	0.00
3.28				=		Y	6.61	26.24
2.98	U	ND		ND		Y	0.00	0.00
3.73	U	ND		ND		Y	0.00	0.00
4.19	U	ND		ND		Y	0.00	0.00
4.33	U	ND		ND		Y	0.00	0.00
14.58	U	ND		ND		Y	0.00	0.00
3.66	U	ND		ND		Y	0.00	0.00
10.38	U	ND		ND		Y	0.00	0.00
3.65				=		Y	4.41	15.58
2.84	U	ND		ND		Y	0.00	0.00
3.73	U	ND		ND		Y	0.00	0.00
5.48	U	ND		ND		Y	0.00	0.00
7.29	U	ND		ND		Y	0.00	0.00
3.66				=		Y	2.28	6.73
10.03	U	ND		ND		Y	0.00	0.00
4.10	U	ND		ND		Y	0.00	0.00
4.78	U	ND		ND		Y	0.00	0.00
5.05	U	ND		ND		Y	0.00	0.00
5.65	U	ND		ND		Y	0.00	0.00
4.19				=		Y	9.68	39.25
4.70	U	ND		ND		Y	0.00	0.00
3.56				=		Y	28.86	99.52
6.61				=		Y	2.36	7.54
6.51	U	ND		ND		Y	0.00	0.00
8.65	U	ND		ND		Y	0.00	0.00
4.83				=		Y	10.58	49.49
4.24	U	ND		ND		Y	0.00	0.00

4.78	U	ND	ND	Y	0.00	0.00
7.46	U	ND	ND	Y	0.00	0.00
7.36	U	ND	ND	Y	0.00	0.00
5.56			=	Y	2.44	13.14
6.93	U	ND	ND	Y	0.00	0.00
4.24	U	ND	ND	Y	0.00	0.00
13.57	U	ND	ND	Y	0.00	0.00
4.70	U	ND	ND	Y	0.00	0.00
3.90			=	Y	1.39	5.24
4.70	U	ND	ND	Y	0.00	0.00
5.65	U	ND	ND	Y	0.00	0.00
4.83	U	ND	ND	Y	0.00	0.00
13.57	U	ND	ND	Y	0.00	0.00
13.39	U	ND	ND	Y	0.00	0.00
4.83	U	ND	ND	Y	0.00	0.00
8.82	U	ND	ND	Y	0.00	0.00
7.95	U	ND	ND	Y	0.00	0.00
7.02			=	Y	27.64	187.66
4.77	U	ND	ND	Y	0.00	0.00
7.10	U	ND	ND	Y	0.00	0.00
4.49	U	ND	ND	Y	0.00	0.00
4.49			=	Y	2.05	8.92
5.43	U	ND	ND	Y	0.00	0.00
4.41	U	ND	ND	Y	0.00	0.00
10.69	U	ND	ND	Y	0.00	0.00
4.49			=	Y	3.21	13.97
14.20	U	ND	ND	Y	0.00	0.00
14.97	U	ND	ND	Y	0.00	0.00
12.70	U	ND	ND	Y	0.00	0.00
14.24	U	ND	ND	Y	0.00	0.00
14.24	U	ND	ND	Y	0.00	0.00
32.56	U	ND	ND	Y	0.00	0.00
18.31	U	ND	ND	Y	0.00	0.00
14.45	U	ND	ND	Y	0.00	0.00
13.63	U	ND	ND	Y	0.00	0.00
18.31	U	ND	ND	Y	0.00	0.00
13.63	U	ND	ND	Y	0.00	0.00
15.90	U	ND	ND	Y	0.00	0.00
19.91	U	ND	ND	Y	0.00	0.00
13.63	J	J	=	Y	1.17	6.45
10.72	U	ND	ND	Y	0.00	0.00
12.44	U	ND	ND	Y	0.00	0.00
13.63	U	ND	ND	Y	0.00	0.00
17.42	U	ND	ND	Y	0.00	0.00
28.00	U	ND	ND	Y	0.00	0.00
15.35	U	ND	ND	Y	0.00	0.00
2.17	U	ND	ND	Y	0.00	0.00
15.35	U	ND	ND	Y	0.00	0.00
13.24	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**24**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.24	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum $\frac{(Astdni)\ (Cistdi)}{(Cstdni)\ (Aistdi)}$ i Note: 1

2) Raw Amt = $\frac{(Ansamp)}{(Avg\ RFn)} \frac{(Cistdi)}{(Aistdi)}$ = **Cn**

3) Amount ppbv = $\frac{(Raw\ Amt)\ 1000}{(SV)}$ (CDF)

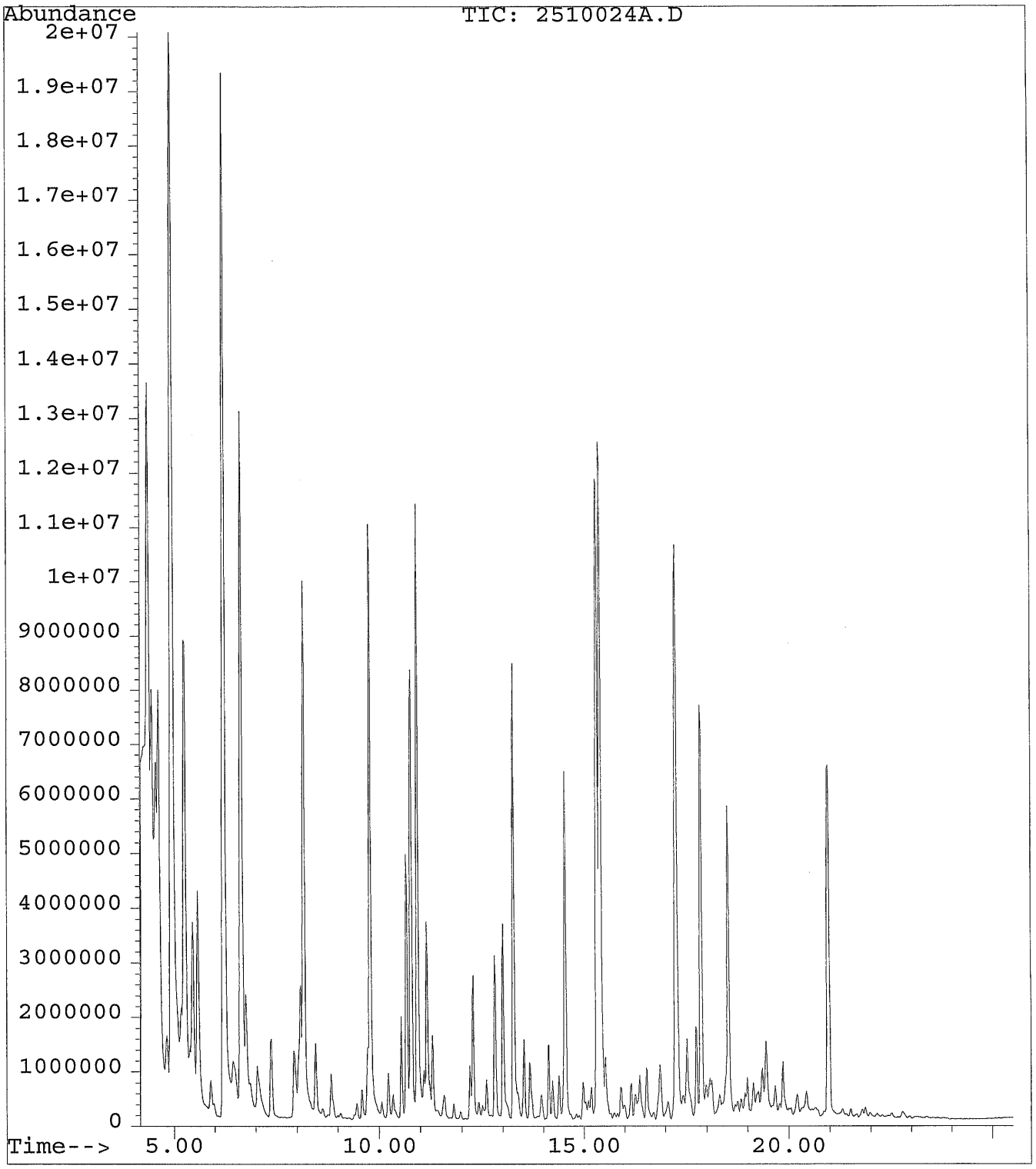
4) Amount ug/m3 = $\frac{(amt(ppbv)}{24.42}$ MW

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	1946462	20.0	13895695	11.386	47.06	81.11
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	13895695	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	2101054	20.0	13895695	2.750	11.37	14.90
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	13895695	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	13895695	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	13895695	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	13895695	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	13895695	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	13895695	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	609216	20.0	13895695	6.163	25.47	48.09
12	Acrolein	PFB	TRG	56.1	0.130	0	20.0	13895695	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	13895695	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	440600	20.0	13895695	2.659	10.99	26.15
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	0	20.0	13895695	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	22435	20.0	13895695	0.035	0.15	0.45
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	13895695	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	13895695	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	13895695	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	13895695	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	13895695	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	110877	20.0	13895695	0.667	2.76	9.59
23	Carbon disulfide	PFB	TRG	76.1	0.883	26441	20.0	13895695	0.043	0.18	0.56
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	371220	20.0	13895695	1.600	6.61	26.24
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	13895695	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	13895695	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	13895695	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	13895695	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	13895695	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	0	20.0	13895695	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	13895695	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	548220	20.0	13895695	1.067	4.41	15.58

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	13895695	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	13895695	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	13895695	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	13895695	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	81689	20.0	13895695	0.551	2.28	6.73
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	13895695	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	13895695	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	13895695	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	22045	20.0	13895695	0.044	0.18	0.90
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	15924445	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	1118014	20.0	15924445	2.342	9.68	39.25
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	15924445	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	3298034	20.0	15924445	6.982	28.86	99.52
47	Benzene	14DF	TRG	78.1	1.074	487647	20.0	15924445	0.570	2.36	7.54
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	15924445	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	15924445	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	4106562	20.0	15924445	2.560	10.58	49.49
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	15924445	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	15924445	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	15924445	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	15924445	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	228903	20.0	15924445	0.591	2.44	13.14
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	15924445	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	15924445	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	15924445	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	15924445	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	401765	20.0	15924445	0.336	1.39	5.24
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	15924445	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	15924445	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	15924445	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	15924445	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	15924445	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	15924445	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	15924445	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	15924445	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	3918713	20.0	15924445	6.686	27.64	187.66
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	14375853	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	14375853	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	114089	20.0	14375853	0.089	0.37	1.60
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	567058	20.0	14375853	0.496	2.05	8.92
76	Nonane	d5CB	TRG	128.3	1.278	1396	20.0	14375853	0.002	0.01	0.03
77	Styrene	d5CB	TRG	104.2	1.106	45264	20.0	14375853	0.057	0.24	1.00
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	14375853	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	928438	20.0	14375853	0.777	3.21	13.97
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	14375853	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	14375853	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	14375853	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	14375853	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	14375853	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	69291	20.0	14375853	0.044	0.18	0.90
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	107433	20.0	14375853	0.077	0.32	1.56
87	Decane	d5CB	TRG	142.3	2.327	9349	20.0	14375853	0.006	0.02	0.13
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	14375853	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	41201	20.0	14375853	0.028	0.11	0.57
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	14375853	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	14375853	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	14375853	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	594401	20.0	14375853	0.284	1.17	6.45
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	14375853	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	14375853	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	14375853	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	14375853	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	14375853	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	14375853	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	14375853	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	14375853	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	14375853	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	13895695	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	15924445	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	14375853	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9820531	10.0		10.032	100.32	100

File : C:\MSCHEM\1\DATA\04035A_C\2510024A.D
Operator : SS
Acquired : 3 Apr 125 7:02 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-206
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **25**

Client ID T-207

Analytical Method TO-15

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 25

File Name: 2510025A.D
Description: T-207
Canister: 627
QC_Batch: 040125-MA1

Date Sampled: 03/20/25 **Time:** 10:05
Date Analyzed: 04/01/25 **Time:** 20:22
Can Dilution Factor: 1.31
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.44	1.09	1.69	0.75	1.88	2.91	
75-71-8	Dichlorodifluoromethane	0.66	1.09	ND	3.24	5.41	ND	
67-56-1	Methanol	2.18	2.62	20.84	2.86	3.43	27.31	
74-87-3	Chloromethane	0.66	1.09	ND	1.35	2.26	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.44	1.09	ND	3.06	7.64	ND	
75-01-4	Vinyl chloride	0.22	1.09	ND	0.56	2.79	ND	
106-99-0	1,3-Butadiene	0.22	1.09	ND	0.49	2.42	ND	
74-83-9	Bromomethane	0.44	1.09	ND	1.70	4.24	ND	
75-00-3	Chloroethane	0.44	1.09	ND	1.15	2.88	ND	
64-17-5	Ethanol	2.18	14.02	ND	4.12	26.46	ND	
107-02-8	Acrolein	0.44	1.31	5.78	1.00	3.01	13.29	
75-69-4	Trichlorofluoromethane	0.44	1.09	ND	2.46	6.14	ND	
67-64-1	Acetone	2.18	2.62	11.24	5.20	6.23	26.74	
67-63-0	2-propanol (isopropylalcohol)	0.87	5.46	ND	2.15	13.44	ND	
75-65-0	t-Butyl alcohol	0.44	4.37	ND	1.33	13.25	ND	
4227-95-6	Methyl iodide	0.44	1.31	ND	2.56	7.67	ND	
75-35-4	1,1-Dichloroethene	0.22	1.09	ND	0.87	4.33	ND	
107-13-1	Acrylonitrile	0.87	1.31	ND	1.90	2.85	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.22	1.09	ND	1.68	8.38	ND	
107-05-1	Allyl chloride	0.22	4.37	ND	0.68	13.68	ND	
75-09-2	Methylene chloride	0.22	1.09	ND	0.76	3.80	ND	
75-15-0	Carbon disulfide	0.44	1.09	ND	1.36	3.40	ND	
156-60-5	trans-1,2-Dichloroethene	0.22	0.87	ND	0.87	3.47	ND	
1634-04-4	Methyl tert butyl ether	0.44	0.87	ND	1.58	3.15	ND	
107-12-0	Propionitrile	1.09	1.75	ND	2.46	3.94	ND	
75-34-3	1,1-Dichloroethane	0.22	1.09	ND	0.88	4.43	ND	
637-92-3	Ethyl tert butyl ether	0.44	1.09	ND	1.83	4.57	ND	
108-05-4	Vinyl acetate	0.22	4.37	ND	0.77	15.40	ND	
78-93-3	2-Butanone (MEK)	0.44	1.31	1.50	1.29	3.87	4.42	
108-20-3	Diisopropyl ether	0.44	2.62	ND	1.83	10.97	ND	
110-54-3	Hexane	0.44	1.09	ND	1.54	3.85	ND	
126-98-7	Methacrylonitrile	0.44	1.09	ND	1.20	3.00	ND	
141-78-6	Ethyl acetate	0.44	1.09	ND	1.58	3.94	ND	
74-97-5	Bromochloromethane	0.22	1.09	ND	1.16	5.79	ND	
96-33-3	Methyl acrylate	0.44	2.18	ND	1.54	7.70	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.22	1.31	0.54	0.65	3.87	1.58	J
78-83-1	Isobutyl alcohol	0.87	3.49	ND	2.65	10.60	ND	
156-59-2	cis-1,2-Dichloroethene	0.22	1.09	ND	0.87	4.33	ND	
594-20-7	2,2-Dichloropropane	0.22	1.09	ND	1.01	5.05	ND	
67-66-3	Chloroform	0.22	1.09	ND	1.07	5.34	ND	
71-55-6	1,1,1-Trichloroethane	0.22	1.09	ND	1.19	5.96	ND	
107-06-2	1,2-Dichloroethane	0.22	1.09	ND	0.89	4.43	ND	
563-58-6	1,1-Dichloropropene	0.22	1.09	ND	0.99	4.96	ND	
110-82-7	Cyclohexane	0.22	1.09	1.44	0.75	3.76	4.96	
71-43-2	Benzene	1.53	2.18	3.00	4.89	6.98	9.60	
56-23-5	Carbon tetrachloride	0.22	1.09	ND	1.38	6.88	ND	
994-05-8	t-Amyl methyl ether	0.44	2.18	ND	1.83	9.14	ND	
540-84-1	2,2,4-Trimethylpentane	0.22	1.09	1.03	1.02	5.11	4.82	J
142-82-5	n-Heptane	0.44	1.09	ND	1.79	4.48	ND	
78-87-5	1,2-Dichloropropane	0.22	1.09	ND	1.01	5.05	ND	
123-91-1	1,4 Dioxane	0.44	2.18	ND	1.58	7.88	ND	
74-95-3	Dibromomethane	0.22	1.09	ND	1.55	7.77	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.09	0.32	0.59	5.87	1.73	J
75-27-4	Bromodichloromethane	0.22	1.09	ND	1.46	7.32	ND	
80-62-6	Methyl methacrylate	0.44	1.09	ND	1.79	4.48	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.44	3.49	0.49	1.79	14.34	2.01	J
10061-01-5	cis-1,3-Dichloropropene	0.22	1.09	ND	0.99	4.96	ND	
108-88-3	Toluene	0.87	1.09	1.10	3.29	4.12	4.15	
10061-02-6	trans-1,3-Dichloropropene	0.22	1.09	ND	0.99	4.96	ND	
79-00-5	1,1,2-Trichloroethane	0.22	1.09	ND	1.19	5.96	ND	
97-63-2	Ethyl methacrylate	0.44	1.09	ND	2.04	5.11	ND	
591-78-6	2-Hexanone	0.44	3.49	ND	1.79	14.34	ND	
142-28-9	1,3-Dichloropropane	0.22	3.06	ND	1.01	14.15	ND	
111-65-9	Octane	0.44	1.09	ND	2.04	5.11	ND	
124-48-1	Dibromochloromethane	0.44	1.09	ND	3.73	9.31	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.44	1.09	ND	3.36	8.40	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.09	0.84	0.74	7.41	5.68	J
108-90-7	Chlorobenzene	0.44	1.09	ND	2.01	5.03	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.44	1.09	ND	3.00	7.50	ND	
100-41-4	Ethylbenzene	0.44	1.09	0.50	1.90	4.75	2.20	J
1330-20-7	m,p-Xylenes	0.44	1.09	0.94	1.90	4.75	4.10	J
111-84-2	Nonane	0.44	1.09	0.45	2.29	5.74	2.37	J
100-42-5	Styrene	0.66	1.09	ND	2.80	4.66	ND	
75-25-2	Bromoform	0.44	1.09	ND	4.52	11.30	ND	
95-47-6	o-Xylene	0.44	1.09	ND	1.90	4.75	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.87	2.18	ND	6.00	15.00	ND	
96-18-4	1,2,3-Trichloropropane	0.87	2.62	ND	5.27	15.82	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.87	2.62	ND	4.47	13.41	ND	
103-65-1	n-Propylbenzene	0.87	3.06	ND	4.30	15.05	ND	
98-82-8	Isopropylbenzene	0.87	3.06	ND	4.30	15.05	ND	
622-96-8	4-Ethyltoluene	0.87	6.99	ND	4.30	34.39	ND	
108-67-8	1,3,5-Trimethylbenzene	0.87	3.93	ND	4.30	19.35	ND	
124-18-5	Decane	0.87	2.62	ND	5.09	15.27	ND	
98-06-6	tert-butyl benzene	0.87	2.62	ND	4.80	14.40	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.87	3.93	ND	4.30	19.35	ND	
538-93-2	i-Butylbenzene	0.87	2.62	ND	4.80	14.40	ND	
135-98-8	sec-butylbenzene	0.87	3.06	ND	4.80	16.80	ND	
541-73-1	1,3-Dichlorobenzene	0.87	3.49	ND	5.26	21.03	ND	
99-87-6	Isopropyltoluene	0.87	2.62	1.31	4.80	14.40	7.23	J
100-44-7	Benzyl chloride	0.87	2.18	ND	4.53	11.32	ND	
106-46-7	1,4-Dichlorobenzene	0.87	2.18	ND	5.26	13.14	ND	
104-51-8	n-Butylbenzene	0.87	2.62	ND	4.80	14.40	ND	
95-50-1	1,2-Dichlorobenzene	0.87	3.06	ND	5.26	18.40	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.31	3.06	ND	12.68	29.58	ND	
120-82-1	1,2,4-Trichlorobenzene	1.31	2.18	ND	9.73	16.22	ND	
91-20-3	Naphthalene	2.18	0.44	ND	11.46	2.29	ND	
87-61-6	1,2,3-Trichlorobenzene	1.31	2.18	ND	9.73	16.22	ND	
87-68-3	Hexachlorobutadiene	1.09	1.31	ND	11.66	13.99	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	110	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

File Name:	2510025A.D			**SDG:**	**225100**		
Sample ID:	T-207			**EAS ID:**	**25**		
MiscInfo-Vol:	SCHMIDT	**Method:**	**TO-15**	**Date Sampled:**	**03/20/25**	**Time:**	**10:05**
Anal Date:	1 Apr 125 8:22 pm	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
Quant Method:	A15CS2_P.M	**Detect:**	**ND**	**Date Analyzed:**	**04/01/25**	**Time:**	**20:22**
Run Method:	A1563_P.M	**SF:**	**2**	**QCbatch:**	**040125-MA1**		
Cal Update:	Fri Mar 28 11:07:25 2025	**MDLSF:**	**2**	**Volume:**	**300.0**		
Instrument:	5970 - MS	**Type:**	**TRG**	**Can (Vial) No:**	**627**		
Analyst:	UG	**Instrument:**	**MA1**	**Can Factor:**	**1.31**		
Template:	**A15CHIQ.MA1**	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Temp	**24.5**	**UnitDil:**	**1000**	PPBV			
		MDL FAC	**1**	UG/M3			
		EFLAG:	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.386	4.41	42.00	58549
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	4.772	4.86	31.00	3232316
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.430	5.72	46.00	37707
107-02-8	Acrolein	12	TRG	1.324	6.32	56.00	105751
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	2.573	6.42	58.00	378056
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.062	6.45	45.00	38249
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.343	8.75	72.00	42175
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.123	9.72	72.00	16097
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.330	10.74	56.00	141003
71-43-2	Benzene	47	TRG	0.688	10.70	78.00	532454
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.236	11.25	57.00	342915
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.073	10.70	130.00	25787
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.112	12.55	58.00	41305
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.252	13.50	91.00	272599
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.094	14.04	85.00	40299
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.191	14.69	166.00	101649
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.116	15.90	106	155871
1330-20-7	m,p-Xylenes	75	TRG	0.216	16.06	91.00	259902
111-84-2	Nonane	76	TRG	0.103	16.43	57.00	100110
100-42-5	Styrene	77	TRG	0.044	16.61	104.00	37093
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.055	16.54	91.00	69734
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.025	18.23	105.00	40753
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.031	18.31	105.00	45438
124-18-5	Decane	87	TRG	0.062	18.60	57.00	110020
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.035	18.95	105.00	54399
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.301	19.53	119.00	664301
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**12319743**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**14425496**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15141469**
2037-26-5	Toluene-d8	103	SURR	10.964	13.40	98.00	**9722798**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 2E+05
Laboratory Number: 25
File Name: 2510025A.D
Run Method: A1563_P.M
Can Factor: 1.31
Air Volume: 300.0 ml
Can/Tube Number: 627
Dilution Factor: 0.3930
Base Volume: 1000 ml
Unit Factor (ppbv): 1000 PPBV UG/M3

EDD SURR: PERCENT	
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3930
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.39	1.69	2.91	1.69	2.91	2.91	2.91	0.100	0.250	0.44	0.75	1.09
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.66	3.24	1.09
Methanol	32.0	4.77	20.84	27.31	20.84	27.31	27.31	27.31	0.500	0.600	2.18	2.86	2.62
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.66	1.35	1.09
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	3.06	1.09
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.56	1.09
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.49	1.09
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.70	1.09
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.15	1.09
Ethanol	46.1	0.43	1.88	3.55	ND	ND	0		0.500	3.210	2.18	4.12	14.02
Acrolein	56.1	1.32	5.78	13.29	5.78	13.29	13.29	13.29	0.100	0.300	0.44	1.00	1.31
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	2.46	1.09
Acetone	58.1	2.57	11.24	26.74	11.24	26.74	26.74	26.74	0.500	0.600	2.18	5.20	2.62
2-propanol (Isopropylalcohol)	60.1	0.06	0.27	0.67	ND	ND	0		0.200	1.250	0.87	2.15	5.46
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.44	1.33	4.37
Methyl Iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.44	2.56	1.31
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.87	1.09
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.87	1.90	1.31
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.68	1.09
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.22	0.68	4.37
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.76	1.09
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.36	1.09
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.22	0.87	0.87
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.44	1.58	0.87
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.09	2.46	1.75
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.88	1.09
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.83	1.09
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.22	0.77	4.37
2-Butanone (MEK)	72.1	0.34	1.50	4.42	1.50	4.42	4.42	4.42	0.100	0.300	0.44	1.29	1.31
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.44	1.83	2.62
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.54	1.09
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.20	1.09
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.58	1.09
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.16	1.09
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.44	1.54	2.18
Tetrahydrofuran	72.1	0.12	0.54	1.58	0.54	1.58	1.58	1.58	0.050	0.300	0.22	0.65	1.31
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.87	2.65	3.49
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.87	1.09
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.01	1.09
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.07	1.09
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.19	1.09
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.89	1.09
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.99	1.09
Cyclohexane	84.2	0.33	1.44	4.96	1.44	4.96	4.96	4.96	0.050	0.250	0.22	0.75	1.09
Benzene	78.1	0.69	3.00	9.60	3.00	9.60	9.60	9.60	0.350	0.500	1.53	4.89	2.18
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.38	1.09
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.44	1.83	2.18
2,2,4-Trimethylpentane	114.2	0.24	1.03	4.82	1.03	4.82	4.82	4.82	0.050	0.250	0.22	1.02	1.09
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.79	1.09

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.01	1.09
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.44	1.58	2.18
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.55	1.09
Trichloroethene (TCE)	131.4	0.07	0.32	1.73	0.32	1.73	1.73	1.73	0.025	0.250	0.11	0.59	1.09
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.46	1.09
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.79	1.09
4-Methyl-2-pentanone (MIBK)	100.2	0.11	0.49	2.01	0.49	2.01	2.01	2.01	0.100	0.800	0.44	1.79	3.49
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.99	1.09
Toluene	92.1	0.25	1.10	4.15	1.10	4.15	4.15	4.15	0.200	0.250	0.87	3.29	1.09
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.99	1.09
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.19	1.09
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	2.04	1.09
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.44	1.79	3.49
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.22	1.01	3.06
Octane	114.2	0.09	0.41	1.92	ND	ND	0		0.100	0.250	0.44	2.04	1.09
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	3.73	1.09
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	3.36	1.09
Tetrachloroethene (PCE)	165.8	0.19	0.84	5.68	0.84	5.68	5.68	5.68	0.025	0.250	0.11	0.74	1.09
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	2.01	1.09
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	3.00	1.09
Ethylbenzene	106.2	0.12	0.50	2.20	0.50	2.20	2.20	2.20	0.100	0.250	0.44	1.90	1.09
m,p-Xylenes	106.2	0.22	0.94	4.10	0.94	4.10	4.10	4.10	0.100	0.250	0.44	1.90	1.09
Nonane	128.3	0.10	0.45	2.37	0.45	2.37	2.37	2.37	0.100	0.250	0.44	2.29	1.09
Styrene	104.2	0.04	0.19	0.83	ND	ND	0		0.150	0.250	0.66	2.80	1.09
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	4.52	1.09
o-Xylene	106.2	0.06	0.24	1.05	ND	ND	0		0.100	0.250	0.44	1.90	1.09
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.87	6.00	2.18
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.87	5.27	2.62
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.87	4.47	2.62
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.87	4.30	3.06
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.87	4.30	3.06
4-Ethyltoluene	120.2	0.02	0.11	0.53	ND	ND	0		0.200	1.600	0.87	4.30	6.99
1,3,5-Trimethylbenzene	120.2	0.03	0.13	0.66	ND	ND	0		0.200	0.900	0.87	4.30	3.93
Decane	142.3	0.06	0.27	1.59	ND	ND	0		0.200	0.600	0.87	5.09	2.62
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.87	4.80	2.62
1,2,4-Trimethylbenzene	120.2	0.03	0.15	0.75	ND	ND	0		0.200	0.900	0.87	4.30	3.93
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.87	4.80	2.62
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.87	4.80	3.06
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.87	5.26	3.49
Isopropyltoluene	134.2	0.30	1.31	7.23	1.31	7.23	7.23	7.23	0.200	0.600	0.87	4.80	2.62
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.87	4.53	2.18
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.87	5.26	2.18
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.87	4.80	2.62
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.87	5.26	3.06
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.31	12.68	3.06
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.31	9.73	2.18
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.18	11.46	0.44
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.31	9.73	2.18
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.09	11.66	1.31
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		10.96	110	110	110	110	110	110	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.88				=		Y	1.69	2.91
5.41	U	ND		ND		Y	0.00	0.00
3.43				=		Y	20.84	27.31
2.26	U	ND		ND		Y	0.00	0.00
7.64	U	ND		ND		Y	0.00	0.00
2.79	U	ND		ND		Y	0.00	0.00
2.42	U	ND		ND		Y	0.00	0.00
4.24	U	ND		ND		Y	0.00	0.00
2.88	U	ND		ND		Y	0.00	0.00
26.46	U	ND		ND		Y	0.00	0.00
3.01				=		Y	5.78	13.29
6.14	U	ND		ND		Y	0.00	0.00
6.23				=		Y	11.24	26.74
13.44	U	ND		ND		Y	0.00	0.00
13.25	U	ND		ND		Y	0.00	0.00
7.67	U	ND		ND		Y	0.00	0.00
4.33	U	ND		ND		Y	0.00	0.00
2.85	U	ND		ND		Y	0.00	0.00
8.38	U	ND		ND		Y	0.00	0.00
13.68	U	ND		ND		Y	0.00	0.00
3.80	U	ND		ND		Y	0.00	0.00
3.40	U	ND		ND		Y	0.00	0.00
3.47	U	ND		ND		Y	0.00	0.00
3.15	U	ND		ND		Y	0.00	0.00
3.94	U	ND		ND		Y	0.00	0.00
4.43	U	ND		ND		Y	0.00	0.00
4.57	U	ND		ND		Y	0.00	0.00
15.40	U	ND		ND		Y	0.00	0.00
3.87				=		Y	1.50	4.42
10.97	U	ND		ND		Y	0.00	0.00
3.85	U	ND		ND		Y	0.00	0.00
3.00	U	ND		ND		Y	0.00	0.00
3.94	U	ND		ND		Y	0.00	0.00
5.79	U	ND		ND		Y	0.00	0.00
7.70	U	ND		ND		Y	0.00	0.00
3.87	J	J		=		Y	0.54	1.58
10.60	U	ND		ND		Y	0.00	0.00
4.33	U	ND		ND		Y	0.00	0.00
5.05	U	ND		ND		Y	0.00	0.00
5.34	U	ND		ND		Y	0.00	0.00
5.96	U	ND		ND		Y	0.00	0.00
4.43	U	ND		ND		Y	0.00	0.00
4.96	U	ND		ND		Y	0.00	0.00
3.76				=		Y	1.44	4.96
6.98				=		Y	3.00	9.60
6.88	U	ND		ND		Y	0.00	0.00
9.14	U	ND		ND		Y	0.00	0.00
5.11	J	J		=		Y	1.03	4.82
4.48	U	ND		ND		Y	0.00	0.00

5.05	U	ND	ND	Y	0.00	0.00
7.88	U	ND	ND	Y	0.00	0.00
7.77	U	ND	ND	Y	0.00	0.00
5.87	J	J	=	Y	0.32	1.73
7.32	U	ND	ND	Y	0.00	0.00
4.48	U	ND	ND	Y	0.00	0.00
14.34	J	J	=	Y	0.49	2.01
4.96	U	ND	ND	Y	0.00	0.00
4.12			=	Y	1.10	4.15
4.96	U	ND	ND	Y	0.00	0.00
5.96	U	ND	ND	Y	0.00	0.00
5.11	U	ND	ND	Y	0.00	0.00
14.34	U	ND	ND	Y	0.00	0.00
14.15	U	ND	ND	Y	0.00	0.00
5.11	U	ND	ND	Y	0.00	0.00
9.31	U	ND	ND	Y	0.00	0.00
8.40	U	ND	ND	Y	0.00	0.00
7.41	J	J	=	Y	0.84	5.68
5.03	U	ND	ND	Y	0.00	0.00
7.50	U	ND	ND	Y	0.00	0.00
4.75	J	J	=	Y	0.50	2.20
4.75	J	J	=	Y	0.94	4.10
5.74	J	J	=	Y	0.45	2.37
4.66	U	ND	ND	Y	0.00	0.00
11.30	U	ND	ND	Y	0.00	0.00
4.75	U	ND	ND	Y	0.00	0.00
15.00	U	ND	ND	Y	0.00	0.00
15.82	U	ND	ND	Y	0.00	0.00
13.41	U	ND	ND	Y	0.00	0.00
15.05	U	ND	ND	Y	0.00	0.00
15.05	U	ND	ND	Y	0.00	0.00
34.39	U	ND	ND	Y	0.00	0.00
19.35	U	ND	ND	Y	0.00	0.00
15.27	U	ND	ND	Y	0.00	0.00
14.40	U	ND	ND	Y	0.00	0.00
19.35	U	ND	ND	Y	0.00	0.00
14.40	U	ND	ND	Y	0.00	0.00
16.80	U	ND	ND	Y	0.00	0.00
21.03	U	ND	ND	Y	0.00	0.00
14.40	J	J	=	Y	1.31	7.23
11.32	U	ND	ND	Y	0.00	0.00
13.14	U	ND	ND	Y	0.00	0.00
14.40	U	ND	ND	Y	0.00	0.00
18.40	U	ND	ND	Y	0.00	0.00
29.58	U	ND	ND	Y	0.00	0.00
16.22	U	ND	ND	Y	0.00	0.00
2.29	U	ND	ND	Y	0.00	0.00
16.22	U	ND	ND	Y	0.00	0.00
13.99	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**25**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.31
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\frac{(Astdni)\ (Cistdi)}{(Cstdni)\ (Aistdi)}$ Note: 1 i

2) Raw Amt = $\frac{(Ansamp)}{(Avg\ RFn)}\ \frac{(Cistdi)}{(Aistdi)}$ = **Cn**

3) Amount ppbv = (Raw Amt) $\frac{1000}{(SV)}$ (CDF)

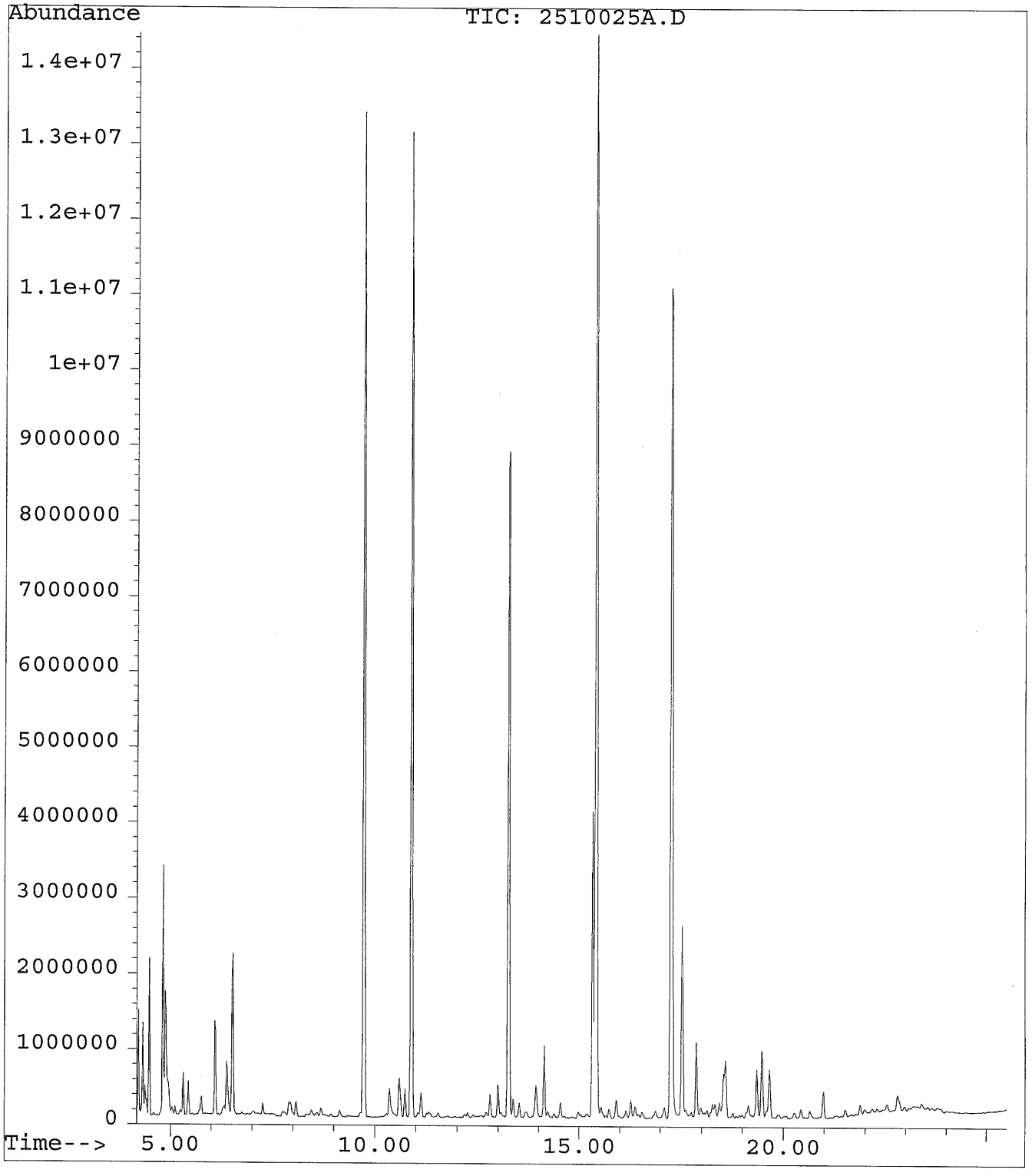
4) Amount ug/m3 = (amt(ppbv) $\frac{MW}{24.42}$

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	58549	20.0	12319743	0.386	1.69	2.91
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	12319743	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	3232316	20.0	12319743	4.772	20.84	27.31
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	12319743	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	12319743	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	12319743	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	12319743	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	12319743	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	12319743	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	37707	20.0	12319743	0.430	1.88	3.55
12	Acrolein	PFB	TRG	56.1	0.130	105751	20.0	12319743	1.324	5.78	13.29
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	12319743	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	378056	20.0	12319743	2.573	11.24	26.74
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	38249	20.0	12319743	0.062	0.27	0.67
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	12319743	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	12319743	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	12319743	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	12319743	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	12319743	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	12319743	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	12319743	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	12319743	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	12319743	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	12319743	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	12319743	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	12319743	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	12319743	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	12319743	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	42175	20.0	12319743	0.343	1.50	4.42
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	12319743	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	12319743	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	12319743	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	12319743	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	12319743	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	12319743	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	16097	20.0	12319743	0.123	0.54	1.58
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	12319743	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	12319743	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	12319743	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	12319743	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	14425496	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	14425496	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	14425496	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	141003	20.0	14425496	0.330	1.44	4.96
47	Benzene	14DF	TRG	78.1	1.074	532454	20.0	14425496	0.688	3.00	9.60
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	14425496	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	14425496	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	342915	20.0	14425496	0.236	1.03	4.82
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	14425496	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	14425496	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	14425496	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	14425496	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	25787	20.0	14425496	0.073	0.32	1.73
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	14425496	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	14425496	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	41305	20.0	14425496	0.112	0.49	2.01
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	14425496	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	272599	20.0	14425496	0.252	1.10	4.15
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	14425496	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	14425496	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	14425496	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	14425496	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	14425496	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	40299	20.0	14425496	0.094	0.41	1.92
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	14425496	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	14425496	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	101649	20.0	14425496	0.191	0.84	5.68
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	15141469	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	15141469	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	155871	20.0	15141469	0.116	0.50	2.20
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	259902	20.0	15141469	0.216	0.94	4.10
76	Nonane	d5CB	TRG	128.3	1.278	100110	20.0	15141469	0.103	0.45	2.37
77	Styrene	d5CB	TRG	104.2	1.106	37093	20.0	15141469	0.044	0.19	0.83
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	15141469	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	69734	20.0	15141469	0.055	0.24	1.05
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	15141469	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	15141469	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	15141469	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	15141469	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	15141469	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	40753	20.0	15141469	0.025	0.11	0.53
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	45438	20.0	15141469	0.031	0.13	0.66
87	Decane	d5CB	TRG	142.3	2.327	110020	20.0	15141469	0.062	0.27	1.59
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	15141469	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	54399	20.0	15141469	0.035	0.15	0.75
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	15141469	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	15141469	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	15141469	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	664301	20.0	15141469	0.301	1.31	7.23
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	15141469	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	15141469	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	15141469	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	15141469	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	15141469	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	15141469	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	15141469	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	15141469	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	15141469	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	12319743	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	14425496	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15141469	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9722798	10.0		10.964	109.64	110

File : C:\MSCHEM\1\DATA\04015A_C\2510025A.D
Operator : UG
Acquired : 1 Apr 125 8:22 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-207
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number 225100
Lab Id Number 26

Client ID T-208

Analytical Method TO-15

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Quantitation Report
Calculations
Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 26

File Name: 2510026A.D
Description: T-208
Canister: 791
QC_Batch: 040125-MA1

Date Sampled: 03/20/25 **Time:** 10:08
Date Analyzed: 04/01/25 **Time:** 21:00
Can Dilution Factor: 1.26
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.05	1.42	0.72	1.81	2.44	
75-71-8	Dichlorodifluoromethane	0.63	1.05	ND	3.12	5.20	ND	
67-56-1	Methanol	2.10	2.52	9.99	2.75	3.30	13.10	
74-87-3	Chloromethane	0.63	1.05	ND	1.30	2.17	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.05	ND	2.94	7.35	ND	
75-01-4	Vinyl chloride	0.21	1.05	ND	0.54	2.69	ND	
106-99-0	1,3-Butadiene	0.21	1.05	ND	0.47	2.33	ND	
74-83-9	Bromomethane	0.42	1.05	ND	1.63	4.08	ND	
75-00-3	Chloroethane	0.42	1.05	ND	1.11	2.77	ND	
64-17-5	Ethanol	2.10	13.48	ND	3.96	25.45	ND	
107-02-8	Acrolein	0.42	1.26	2.82	0.96	2.89	6.47	
75-69-4	Trichlorofluoromethane	0.42	1.05	ND	2.36	5.91	ND	
67-64-1	Acetone	2.10	2.52	6.06	5.00	6.00	14.41	
67-63-0	2-propanol (isopropylalcohol)	0.84	5.25	ND	2.07	12.92	ND	
75-65-0	t-Butyl alcohol	0.42	4.20	ND	1.27	12.75	ND	
4227-95-6	Methyl iodide	0.42	1.26	ND	2.46	7.37	ND	
75-35-4	1,1-Dichloroethene	0.21	1.05	ND	0.83	4.17	ND	
107-13-1	Acrylonitrile	0.84	1.26	ND	1.83	2.74	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.05	ND	1.61	8.06	ND	
107-05-1	Allyl chloride	0.21	4.20	ND	0.66	13.16	ND	
75-09-2	Methylene chloride	0.21	1.05	ND	0.73	3.65	ND	
75-15-0	Carbon disulfide	0.42	1.05	0.78	1.31	3.27	2.45	J
156-60-5	trans-1,2-Dichloroethene	0.21	0.84	ND	0.83	3.33	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.84	ND	1.52	3.03	ND	
107-12-0	Propionitrile	1.05	1.68	ND	2.37	3.79	ND	
75-34-3	1,1-Dichloroethane	0.21	1.05	ND	0.85	4.26	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.05	ND	1.76	4.39	ND	
108-05-4	Vinyl acetate	0.21	4.20	ND	0.74	14.81	ND	
78-93-3	2-Butanone (MEK)	0.42	1.26	1.39	1.24	3.72	4.09	
108-20-3	Diisopropyl ether	0.42	2.52	ND	1.76	10.55	ND	
110-54-3	Hexane	0.42	1.05	ND	1.48	3.71	ND	
126-98-7	Methacrylonitrile	0.42	1.05	ND	1.15	2.89	ND	
141-78-6	Ethyl acetate	0.42	1.05	ND	1.52	3.79	ND	
74-97-5	Bromochloromethane	0.21	1.05	ND	1.11	5.56	ND	
96-33-3	Methyl acrylate	0.42	2.10	ND	1.48	7.41	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.26	ND	0.62	3.72	ND	
78-83-1	Isobutyl alcohol	0.84	3.36	ND	2.55	10.20	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.05	ND	0.83	4.17	ND	
594-20-7	2,2-Dichloropropane	0.21	1.05	ND	0.97	4.86	ND	
67-66-3	Chloroform	0.21	1.05	ND	1.03	5.13	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.05	ND	1.15	5.74	ND	
107-06-2	1,2-Dichloroethane	0.21	1.05	ND	0.85	4.26	ND	
563-58-6	1,1-Dichloropropene	0.21	1.05	ND	0.95	4.77	ND	
110-82-7	Cyclohexane	0.21	1.05	ND	0.72	3.62	ND	
71-43-2	Benzene	1.47	2.10	ND	4.70	6.72	ND	
56-23-5	Carbon tetrachloride	0.21	1.05	ND	1.32	6.61	ND	
994-05-8	t-Amyl methyl ether	0.42	2.10	ND	1.76	8.79	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.05	ND	0.98	4.91	ND	
142-82-5	n-Heptane	0.42	1.05	ND	1.72	4.31	ND	
78-87-5	1,2-Dichloropropane	0.21	1.05	ND	0.97	4.86	ND	
123-91-1	1,4 Dioxane	0.42	2.10	ND	1.52	7.58	ND	
74-95-3	Dibromomethane	0.21	1.05	ND	1.50	7.48	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.05	0.15	0.57	5.65	0.81	J
75-27-4	Bromodichloromethane	0.21	1.05	ND	1.41	7.04	ND	
80-62-6	Methyl methacrylate	0.42	1.05	ND	1.72	4.30	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.36	ND	1.72	13.79	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.05	ND	0.95	4.77	ND	
108-88-3	Toluene	0.84	1.05	ND	3.17	3.96	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.05	ND	0.95	4.77	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.05	ND	1.15	5.74	ND	
97-63-2	Ethyl methacrylate	0.42	1.05	ND	1.96	4.91	ND	
591-78-6	2-Hexanone	0.42	3.36	ND	1.72	13.79	ND	
142-28-9	1,3-Dichloropropane	0.21	2.94	ND	0.97	13.61	ND	
111-65-9	Octane	0.42	1.05	ND	1.96	4.91	ND	
124-48-1	Dibromochloromethane	0.42	1.05	ND	3.58	8.96	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.05	ND	3.23	8.08	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.05	2.66	0.71	7.13	18.08	
108-90-7	Chlorobenzene	0.42	1.05	ND	1.94	4.84	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.05	ND	2.89	7.22	ND	
100-41-4	Ethylbenzene	0.42	1.05	ND	1.83	4.57	ND	
1330-20-7	m,p-Xylenes	0.42	1.05	ND	1.83	4.57	ND	
111-84-2	Nonane	0.42	1.05	ND	2.21	5.52	ND	
100-42-5	Styrene	0.63	1.05	ND	2.69	4.48	ND	
75-25-2	Bromoform	0.42	1.05	ND	4.35	10.87	ND	
95-47-6	o-Xylene	0.42	1.05	ND	1.83	4.57	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.84	2.10	ND	5.77	14.43	ND	
96-18-4	1,2,3-Trichloropropane	0.84	2.52	ND	5.07	15.21	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.84	2.52	ND	4.30	12.90	ND	
103-65-1	n-Propylbenzene	0.84	2.94	ND	4.14	14.47	ND	
98-82-8	Isopropylbenzene	0.84	2.94	ND	4.14	14.47	ND	
622-96-8	4-Ethyltoluene	0.84	6.72	ND	4.14	33.08	ND	
108-67-8	1,3,5-Trimethylbenzene	0.84	3.78	ND	4.14	18.61	ND	
124-18-5	Decane	0.84	2.52	ND	4.90	14.69	ND	
98-06-6	tert-butyl benzene	0.84	2.52	ND	4.62	13.85	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.84	3.78	ND	4.14	18.61	ND	
538-93-2	i-Butylbenzene	0.84	2.52	ND	4.62	13.85	ND	
135-98-8	sec-butylbenzene	0.84	2.94	ND	4.62	16.16	ND	
541-73-1	1,3-Dichlorobenzene	0.84	3.36	ND	5.06	20.23	ND	
99-87-6	Isopropyltoluene	0.84	2.52	ND	4.62	13.85	ND	
100-44-7	Benzyl chloride	0.84	2.10	ND	4.36	10.89	ND	
106-46-7	1,4-Dichlorobenzene	0.84	2.10	ND	5.06	12.64	ND	
104-51-8	n-Butylbenzene	0.84	2.52	ND	4.62	13.85	ND	
95-50-1	1,2-Dichlorobenzene	0.84	2.94	ND	5.06	17.70	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.26	2.94	ND	12.19	28.45	ND	
120-82-1	1,2,4-Trichlorobenzene	1.26	2.10	ND	9.36	15.60	ND	
91-20-3	Naphthalene	2.10	0.42	ND	11.03	2.21	ND	
87-61-6	1,2,3-Trichlorobenzene	1.26	2.10	ND	9.36	15.60	ND	
87-68-3	Hexachlorobutadiene	1.05	1.26	ND	11.22	13.46	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	114	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**26**		
File Name:	2510026A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/20/25**	**Time:**	**10:08**
Sample ID:	T-208	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/01/25**	**Time:**	**21:00**
Anal Date:	1 Apr 125 9:00 pm	**SF:**	**2**	**QCbatch:**	**040125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**791**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.26**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	UG	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.337	4.41	42.00	61030
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	2.379	4.86	31.00	1924599
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.444	5.72	46.00	46505
107-02-8	Acrolein	12	TRG	0.671	6.32	56.00	63968
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	1.442	6.42	58.00	252986
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.053	6.45	45.00	39035
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.187	7.61	76.00	121397
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.330	8.75	72.00	48500
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.242	10.70	78.00	232378
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.036	10.70	130.00	15550
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.046	12.55	58.00	20919
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.084	13.50	91.00	111895
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.634	14.69	166.00	416583
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.030	15.90	106	44212
1330-20-7	m,p-Xylenes	75	TRG	0.053	16.06	91.00	70596
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.058	16.61	104.00	53487
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.043	16.54	91.00	60308
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.060	18.23	105.00	109364
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.044	18.31	105.00	72785
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.037	18.95	105.00	63622
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.060	19.53	119.00	146030
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.014	20.20	91.00	37313
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**14714163**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**17856147**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**16817593**
2037-26-5	Toluene-d8	103	SURR	11.417	13.40	98.00	**12532260**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 2E+05
Laboratory Number: 26
File Name: 2510026A.D
Run Method: A1563_P.M
Can Factor: 1.26
Air Volume: 300.0 ml
Can/Tube Number: 791
Dilution Factor: 0.3780
Base Volume: 1000 ml
Unit Factor (ppbv): 1000 PPBV UG/M3

EDD SURR: PERCENT
Sam Type: SA
Instrument: MA1
DETECT: ND
Matrix: AA
Type: TRG
Diluton: 0.3780
Sig Figs: 2
MDLSF: 2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.34	1.42	2.44	1.42	2.44	2.44	2.44	0.100	0.250	0.42	0.72	1.05
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.63	3.12	1.05
Methanol	32.0	2.38	9.99	13.10	9.99	13.10	13.10	13.10	0.500	0.600	2.10	2.75	2.52
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.63	1.30	1.05
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.94	1.05
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.54	1.05
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.47	1.05
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.63	1.05
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.11	1.05
Ethanol	46.1	0.44	1.87	3.52	ND	ND	0		0.500	3.210	2.10	3.96	13.48
Acrolein	56.1	0.67	2.82	6.47	2.82	6.47	6.47	6.47	0.100	0.300	0.42	0.96	1.26
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.36	1.05
Acetone	58.1	1.44	6.06	14.41	6.06	14.41	14.41	14.41	0.500	0.600	2.10	5.00	2.52
2-propanol (isopropylalcohol)	60.1	0.05	0.22	0.55	ND	ND	0		0.200	1.250	0.84	2.07	5.25
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.42	1.27	4.20
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.42	2.46	1.26
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.83	1.05
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.84	1.83	1.26
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.61	1.05
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.66	4.20
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.73	1.05
Carbon disulfide	76.1	0.19	0.78	2.45	0.78	2.45	2.45	2.45	0.100	0.250	0.42	1.31	1.05
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.21	0.83	0.84
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.42	1.52	0.84
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.05	2.37	1.68
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.85	1.05
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.76	1.05
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.74	4.20
2-Butanone (MEK)	72.1	0.33	1.39	4.09	1.39	4.09	4.09	4.09	0.100	0.300	0.42	1.24	1.26
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.42	1.76	2.52
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.48	1.05
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.15	1.05
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.52	1.05
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.11	1.05
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.48	2.10
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.21	0.62	1.26
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.84	2.55	3.36
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.83	1.05
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.97	1.05
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.03	1.05
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.15	1.05
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.85	1.05
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.05
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.72	1.05
Benzene	78.1	0.24	1.02	3.26	ND	ND	0		0.350	0.500	1.47	4.70	2.10
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.32	1.05
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.76	2.10
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.98	1.05
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.72	1.05

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.97	1.05
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.52	2.10
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.50	1.05
Trichloroethene (TCE)	131.4	0.04	0.15	0.81	0.15	0.81	0.81	0.81	0.025	0.250	0.11	0.57	1.05
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.41	1.05
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.72	1.05
4-Methyl-2-pentanone (MIBK)	100.2	0.05	0.19	0.79	ND	ND	0		0.100	0.800	0.42	1.72	3.36
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.05
Toluene	92.1	0.08	0.35	1.32	ND	ND	0		0.200	0.250	0.84	3.17	1.05
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.05
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.15	1.05
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.96	1.05
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.42	1.72	3.36
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.21	0.97	2.94
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.96	1.05
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.58	1.05
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.23	1.05
Tetrachloroethene (PCE)	165.8	0.63	2.66	18.08	2.66	18.08	18.08	18.08	0.025	0.250	0.11	0.71	1.05
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.94	1.05
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.89	1.05
Ethylbenzene	106.2	0.03	0.12	0.54	ND	ND	0		0.100	0.250	0.42	1.83	1.05
m,p-Xylenes	106.2	0.05	0.22	0.96	ND	ND	0		0.100	0.250	0.42	1.83	1.05
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.21	1.05
Styrene	104.2	0.06	0.24	1.03	ND	ND	0		0.150	0.250	0.63	2.69	1.05
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	4.35	1.05
o-Xylene	106.2	0.04	0.18	0.79	ND	ND	0		0.100	0.250	0.42	1.83	1.05
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.84	5.77	2.10
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.84	5.07	2.52
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.84	4.30	2.52
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.84	4.14	2.94
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.84	4.14	2.94
4-Ethyltoluene	120.2	0.06	0.25	1.24	ND	ND	0		0.200	1.600	0.84	4.14	6.72
1,3,5-Trimethylbenzene	120.2	0.04	0.19	0.92	ND	ND	0		0.200	0.900	0.84	4.14	3.78
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.84	4.90	2.52
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.84	4.62	2.52
1,2,4-Trimethylbenzene	120.2	0.04	0.15	0.76	ND	ND	0		0.200	0.900	0.84	4.14	3.78
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.84	4.62	2.52
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.84	4.62	2.94
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.84	5.06	3.36
Isopropyltoluene	134.2	0.06	0.25	1.38	ND	ND	0		0.200	0.600	0.84	4.62	2.52
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.84	4.36	2.10
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.84	5.06	2.10
n-Butylbenzene	134.2	0.01	0.06	0.31	ND	ND	0		0.200	0.600	0.84	4.62	2.52
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.84	5.06	2.94
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.26	12.19	2.94
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.26	9.36	2.10
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.10	11.03	0.42
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.26	9.36	2.10
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.05	11.22	1.26
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		11.42	114	114	114	114	114	114	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.81				=		Y	1.42	2.44
5.20	U	ND		ND		Y	0.00	0.00
3.30				=		Y	9.99	13.10
2.17	U	ND		ND		Y	0.00	0.00
7.35	U	ND		ND		Y	0.00	0.00
2.69	U	ND		ND		Y	0.00	0.00
2.33	U	ND		ND		Y	0.00	0.00
4.08	U	ND		ND		Y	0.00	0.00
2.77	U	ND		ND		Y	0.00	0.00
25.45	U	ND		ND		Y	0.00	0.00
2.89				=		Y	2.82	6.47
5.91	U	ND		ND		Y	0.00	0.00
6.00				=		Y	6.06	14.41
12.92	U	ND		ND		Y	0.00	0.00
12.75	U	ND		ND		Y	0.00	0.00
7.37	U	ND		ND		Y	0.00	0.00
4.17	U	ND		ND		Y	0.00	0.00
2.74	U	ND		ND		Y	0.00	0.00
8.06	U	ND		ND		Y	0.00	0.00
13.16	U	ND		ND		Y	0.00	0.00
3.65	U	ND		ND		Y	0.00	0.00
3.27	J	J		=		Y	0.78	2.45
3.33	U	ND		ND		Y	0.00	0.00
3.03	U	ND		ND		Y	0.00	0.00
3.79	U	ND		ND		Y	0.00	0.00
4.26	U	ND		ND		Y	0.00	0.00
4.39	U	ND		ND		Y	0.00	0.00
14.81	U	ND		ND		Y	0.00	0.00
3.72				=		Y	1.39	4.09
10.55	U	ND		ND		Y	0.00	0.00
3.71	U	ND		ND		Y	0.00	0.00
2.89	U	ND		ND		Y	0.00	0.00
3.79	U	ND		ND		Y	0.00	0.00
5.56	U	ND		ND		Y	0.00	0.00
7.41	U	ND		ND		Y	0.00	0.00
3.72	U	ND		ND		Y	0.00	0.00
10.20	U	ND		ND		Y	0.00	0.00
4.17	U	ND		ND		Y	0.00	0.00
4.86	U	ND		ND		Y	0.00	0.00
5.13	U	ND		ND		Y	0.00	0.00
5.74	U	ND		ND		Y	0.00	0.00
4.26	U	ND		ND		Y	0.00	0.00
4.77	U	ND		ND		Y	0.00	0.00
3.62	U	ND		ND		Y	0.00	0.00
6.72	U	ND		ND		Y	0.00	0.00
6.61	U	ND		ND		Y	0.00	0.00
8.79	U	ND		ND		Y	0.00	0.00
4.91	U	ND		ND		Y	0.00	0.00
4.31	U	ND		ND		Y	0.00	0.00

4.86	U	ND	ND	Y	0.00	0.00
7.58	U	ND	ND	Y	0.00	0.00
7.48	U	ND	ND	Y	0.00	0.00
5.65	J	J	=	Y	0.15	0.81
7.04	U	ND	ND	Y	0.00	0.00
4.30	U	ND	ND	Y	0.00	0.00
13.79	U	ND	ND	Y	0.00	0.00
4.77	U	ND	ND	Y	0.00	0.00
3.96	U	ND	ND	Y	0.00	0.00
4.77	U	ND	ND	Y	0.00	0.00
5.74	U	ND	ND	Y	0.00	0.00
4.91	U	ND	ND	Y	0.00	0.00
13.79	U	ND	ND	Y	0.00	0.00
13.61	U	ND	ND	Y	0.00	0.00
4.91	U	ND	ND	Y	0.00	0.00
8.96	U	ND	ND	Y	0.00	0.00
8.08	U	ND	ND	Y	0.00	0.00
7.13			=	Y	2.66	18.08
4.84	U	ND	ND	Y	0.00	0.00
7.22	U	ND	ND	Y	0.00	0.00
4.57	U	ND	ND	Y	0.00	0.00
4.57	U	ND	ND	Y	0.00	0.00
5.52	U	ND	ND	Y	0.00	0.00
4.48	U	ND	ND	Y	0.00	0.00
10.87	U	ND	ND	Y	0.00	0.00
4.57	U	ND	ND	Y	0.00	0.00
14.43	U	ND	ND	Y	0.00	0.00
15.21	U	ND	ND	Y	0.00	0.00
12.90	U	ND	ND	Y	0.00	0.00
14.47	U	ND	ND	Y	0.00	0.00
14.47	U	ND	ND	Y	0.00	0.00
33.08	U	ND	ND	Y	0.00	0.00
18.61	U	ND	ND	Y	0.00	0.00
14.69	U	ND	ND	Y	0.00	0.00
13.85	U	ND	ND	Y	0.00	0.00
18.61	U	ND	ND	Y	0.00	0.00
13.85	U	ND	ND	Y	0.00	0.00
16.16	U	ND	ND	Y	0.00	0.00
20.23	U	ND	ND	Y	0.00	0.00
13.85	U	ND	ND	Y	0.00	0.00
10.89	U	ND	ND	Y	0.00	0.00
12.64	U	ND	ND	Y	0.00	0.00
13.85	U	ND	ND	Y	0.00	0.00
17.70	U	ND	ND	Y	0.00	0.00
28.45	U	ND	ND	Y	0.00	0.00
15.60	U	ND	ND	Y	0.00	0.00
2.21	U	ND	ND	Y	0.00	0.00
15.60	U	ND	ND	Y	0.00	0.00
13.46	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**26**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.26
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\frac{(Astdni)\ (Cistdi)}{(Cstdni)\ (Aistdi)}$ i Note: 1

2) Raw Amt = $\frac{(Ansamp)}{(Avg\ RFn)} \times \frac{(Cistdi)}{(Aistdi)}$ = **Cn**

3) Amount ppbv = $\frac{(Raw\ Amt) \times 1000}{(SV)} \times (CDF)$

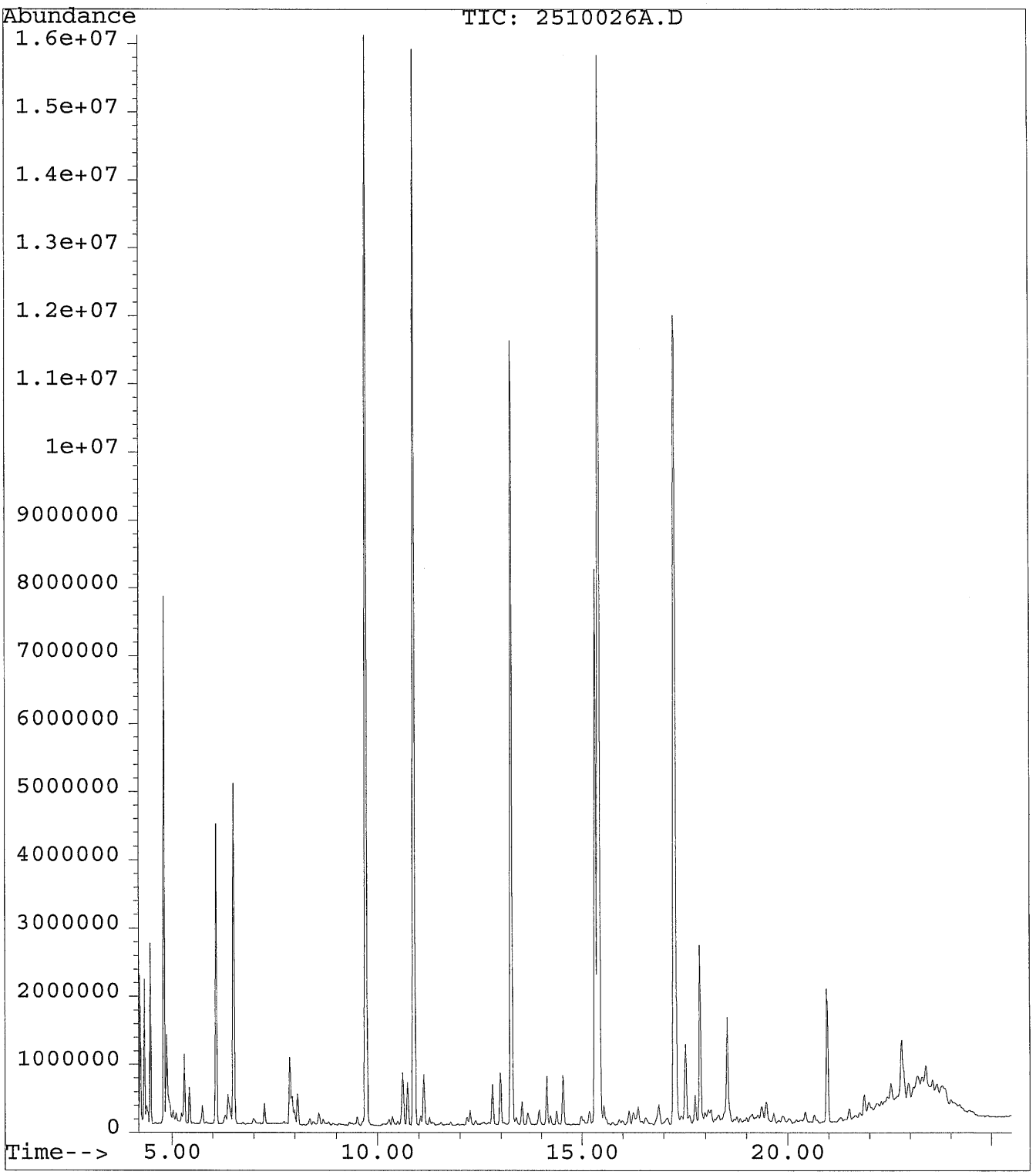
4) Amount ug/m3 = $\frac{(amt(ppbv) \times MW}{24.42}$

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	61030	20.0	14714163	0.337	1.42	2.44
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	14714163	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	1924599	20.0	14714163	2.379	9.99	13.10
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	14714163	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	14714163	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	14714163	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	14714163	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	14714163	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	14714163	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	46505	20.0	14714163	0.444	1.87	3.52
12	Acrolein	PFB	TRG	56.1	0.130	63968	20.0	14714163	0.671	2.82	6.47
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	14714163	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	252986	20.0	14714163	1.442	6.06	14.41
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	39035	20.0	14714163	0.053	0.22	0.55
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	14714163	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	14714163	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	14714163	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	14714163	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	14714163	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	14714163	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	14714163	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	121397	20.0	14714163	0.187	0.78	2.45
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	14714163	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	14714163	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	14714163	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	14714163	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	14714163	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	14714163	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	48500	20.0	14714163	0.330	1.39	4.09
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	14714163	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	14714163	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	14714163	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	14714163	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	14714163	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	14714163	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	14714163	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	14714163	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	14714163	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	14714163	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	14714163	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	17856147	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	17856147	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	17856147	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	17856147	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	232378	20.0	17856147	0.242	1.02	3.26
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	17856147	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	17856147	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	17856147	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	17856147	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	17856147	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	17856147	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	17856147	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	15550	20.0	17856147	0.036	0.15	0.81
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	17856147	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	17856147	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	20919	20.0	17856147	0.046	0.19	0.79
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	17856147	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	111895	20.0	17856147	0.084	0.35	1.32
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	17856147	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	17856147	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	17856147	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	17856147	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	17856147	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	17856147	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	17856147	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	17856147	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	416583	20.0	17856147	0.634	2.66	18.08
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	16817593	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	16817593	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	44212	20.0	16817593	0.030	0.12	0.54
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	70596	20.0	16817593	0.053	0.22	0.96
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	16817593	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	53487	20.0	16817593	0.058	0.24	1.03
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	16817593	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	60308	20.0	16817593	0.043	0.18	0.79
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	16817593	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	16817593	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	16817593	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	16817593	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	16817593	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	109364	20.0	16817593	0.060	0.25	1.24
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	72785	20.0	16817593	0.044	0.19	0.92
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	16817593	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	16817593	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	63622	20.0	16817593	0.037	0.15	0.76
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	16817593	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	16817593	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	16817593	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	146030	20.0	16817593	0.060	0.25	1.38
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	16817593	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	16817593	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	37313	20.0	16817593	0.014	0.06	0.31
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	16817593	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	16817593	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	16817593	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	16817593	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	16817593	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	16817593	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	14714163	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	17856147	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	16817593	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	12532260	10.0		11.417	114.17	114

File : C:\MSCHEM\1\DATA\04015A_C\2510026A.D
Operator : UG
Acquired : 1 Apr 125 9:00 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-208
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number 225100

Lab Id Number 27

Client ID T-209

Analytical Method TO-15

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Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 27

File Name: 2510027A.D
Description: T-209
Canister: 682
QC_Batch: 040125-MA1

Date Sampled: 03/20/25 **Time:** 11:21
Date Analyzed: 04/01/25 **Time:** 21:37
Can Dilution Factor: 1.30
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.43	1.08	0.87	0.75	1.87	1.50	J
75-71-8	Dichlorodifluoromethane	0.65	1.08	ND	3.22	5.36	ND	
67-56-1	Methanol	2.17	2.60	19.60	2.84	3.41	25.69	
74-87-3	Chloromethane	0.65	1.08	ND	1.34	2.24	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.43	1.08	ND	3.03	7.58	ND	
75-01-4	Vinyl chloride	0.22	1.08	ND	0.56	2.77	ND	
106-99-0	1,3-Butadiene	0.22	1.08	ND	0.48	2.40	ND	
74-83-9	Bromomethane	0.43	1.08	ND	1.68	4.21	ND	
75-00-3	Chloroethane	0.43	1.08	ND	1.14	2.86	ND	
64-17-5	Ethanol	2.17	13.91	ND	4.09	26.26	ND	
107-02-8	Acrolein	0.43	1.30	1.74	1.00	2.99	4.00	
75-69-4	Trichlorofluoromethane	0.43	1.08	ND	2.44	6.10	ND	
67-64-1	Acetone	2.17	2.60	5.78	5.16	6.19	13.76	
67-63-0	2-propanol (isopropylalcohol)	0.87	5.42	ND	2.13	13.33	ND	
75-65-0	t-Butyl alcohol	0.43	4.33	ND	1.32	13.15	ND	
4227-95-6	Methyl iodide	0.43	1.30	ND	2.54	7.61	ND	
75-35-4	1,1-Dichloroethene	0.22	1.08	ND	0.86	4.30	ND	
107-13-1	Acrylonitrile	0.87	1.30	ND	1.88	2.83	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.22	1.08	ND	1.66	8.31	ND	
107-05-1	Allyl chloride	0.22	4.33	ND	0.68	13.58	ND	
75-09-2	Methylene chloride	0.22	1.08	ND	0.75	3.77	ND	
75-15-0	Carbon disulfide	0.43	1.08	ND	1.35	3.38	ND	
156-60-5	trans-1,2-Dichloroethene	0.22	0.87	ND	0.86	3.44	ND	
1634-04-4	Methyl tert butyl ether	0.43	0.87	ND	1.56	3.13	ND	
107-12-0	Propionitrile	1.08	1.73	ND	2.44	3.91	ND	
75-34-3	1,1-Dichloroethane	0.22	1.08	ND	0.88	4.39	ND	
637-92-3	Ethyl tert butyl ether	0.43	1.08	ND	1.81	4.53	ND	
108-05-4	Vinyl acetate	0.22	4.33	ND	0.76	15.28	ND	
78-93-3	2-Butanone (MEK)	0.43	1.30	0.68	1.28	3.84	2.00	J
108-20-3	Diisopropyl ether	0.43	2.60	ND	1.81	10.88	ND	
110-54-3	Hexane	0.43	1.08	ND	1.53	3.82	ND	
126-98-7	Methacrylonitrile	0.43	1.08	ND	1.19	2.98	ND	
141-78-6	Ethyl acetate	0.43	1.08	ND	1.56	3.91	ND	
74-97-5	Bromochloromethane	0.22	1.08	ND	1.15	5.74	ND	
96-33-3	Methyl acrylate	0.43	2.17	ND	1.53	7.64	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.22	1.30	ND	0.64	3.84	ND	
78-83-1	Isobutyl alcohol	0.87	3.47	ND	2.63	10.52	ND	
156-59-2	cis-1,2-Dichloroethene	0.22	1.08	ND	0.86	4.30	ND	
594-20-7	2,2-Dichloropropane	0.22	1.08	ND	1.00	5.01	ND	
67-66-3	Chloroform	0.22	1.08	ND	1.06	5.30	ND	
71-55-6	1,1,1-Trichloroethane	0.22	1.08	ND	1.18	5.92	ND	
107-06-2	1,2-Dichloroethane	0.22	1.08	ND	0.88	4.39	ND	
563-58-6	1,1-Dichloropropene	0.22	1.08	ND	0.98	4.92	ND	
110-82-7	Cyclohexane	0.22	1.08	ND	0.75	3.74	ND	
71-43-2	Benzene	1.52	2.17	ND	4.85	6.93	ND	
56-23-5	Carbon tetrachloride	0.22	1.08	ND	1.36	6.82	ND	
994-05-8	t-Amyl methyl ether	0.43	2.17	ND	1.81	9.07	ND	
540-84-1	2,2,4-Trimethylpentane	0.22	1.08	ND	1.01	5.07	ND	
142-82-5	n-Heptane	0.43	1.08	ND	1.78	4.45	ND	
78-87-5	1,2-Dichloropropane	0.22	1.08	ND	1.00	5.01	ND	
123-91-1	1,4 Dioxane	0.43	2.17	ND	1.56	7.82	ND	
74-95-3	Dibromomethane	0.22	1.08	ND	1.54	7.71	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.08	ND	0.58	5.83	ND	
75-27-4	Bromodichloromethane	0.22	1.08	ND	1.45	7.27	ND	
80-62-6	Methyl methacrylate	0.43	1.08	ND	1.78	4.44	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.43	3.47	ND	1.78	14.23	ND	
10061-01-5	cis-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.92	ND	
108-88-3	Toluene	0.87	1.08	ND	3.27	4.09	ND	
10061-02-6	trans-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.92	ND	
79-00-5	1,1,2-Trichloroethane	0.22	1.08	ND	1.18	5.92	ND	
97-63-2	Ethyl methacrylate	0.43	1.08	ND	2.03	5.07	ND	
591-78-6	2-Hexanone	0.43	3.47	ND	1.78	14.23	ND	
142-28-9	1,3-Dichloropropane	0.22	3.03	ND	1.00	14.04	ND	
111-65-9	Octane	0.43	1.08	ND	2.03	5.07	ND	
124-48-1	Dibromochloromethane	0.43	1.08	ND	3.70	9.24	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.43	1.08	ND	3.33	8.34	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.08	ND	0.74	7.36	ND	
108-90-7	Chlorobenzene	0.43	1.08	ND	2.00	5.00	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.43	1.08	ND	2.98	7.44	ND	
100-41-4	Ethylbenzene	0.43	1.08	ND	1.88	4.71	ND	
1330-20-7	m,p-Xylenes	0.43	1.08	ND	1.88	4.71	ND	
111-84-2	Nonane	0.43	1.08	ND	2.28	5.69	ND	
100-42-5	Styrene	0.65	1.08	ND	2.77	4.62	ND	
75-25-2	Bromoform	0.43	1.08	ND	4.48	11.21	ND	
95-47-6	o-Xylene	0.43	1.08	ND	1.88	4.71	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.87	2.17	ND	5.96	14.89	ND	
96-18-4	1,2,3-Trichloropropane	0.87	2.60	ND	5.23	15.70	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.87	2.60	ND	4.44	13.31	ND	
103-65-1	n-Propylbenzene	0.87	3.03	ND	4.27	14.93	ND	
98-82-8	Isopropylbenzene	0.87	3.03	ND	4.27	14.93	ND	
622-96-8	4-Ethyltoluene	0.87	6.93	ND	4.27	34.13	ND	
108-67-8	1,3,5-Trimethylbenzene	0.87	3.90	ND	4.27	19.20	ND	
124-18-5	Decane	0.87	2.60	ND	5.05	15.15	ND	
98-06-6	tert-butyl benzene	0.87	2.60	ND	4.76	14.29	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.87	3.90	ND	4.27	19.20	ND	
538-93-2	i-Butylbenzene	0.87	2.60	ND	4.76	14.29	ND	
135-98-8	sec-butylbenzene	0.87	3.03	ND	4.76	16.67	ND	
541-73-1	1,3-Dichlorobenzene	0.87	3.47	ND	5.22	20.87	ND	
99-87-6	Isopropyltoluene	0.87	2.60	ND	4.76	14.29	ND	
100-44-7	Benzyl chloride	0.87	2.17	ND	4.49	11.23	ND	
106-46-7	1,4-Dichlorobenzene	0.87	2.17	ND	5.22	13.04	ND	
104-51-8	n-Butylbenzene	0.87	2.60	ND	4.76	14.29	ND	
95-50-1	1,2-Dichlorobenzene	0.87	3.03	ND	5.22	18.26	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.30	3.03	ND	12.58	29.36	ND	
120-82-1	1,2,4-Trichlorobenzene	1.30	2.17	ND	9.66	16.10	ND	
91-20-3	Naphthalene	2.17	0.43	ND	11.38	2.28	ND	
87-61-6	1,2,3-Trichlorobenzene	1.30	2.17	ND	9.66	16.10	ND	
87-68-3	Hexachlorobutadiene	1.08	1.30	ND	11.57	13.89	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	125	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**27**		
File Name:	2510027A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/20/25**	**Time:**	**11:21**
Sample ID:	T-209	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/01/25**	**Time:**	**21:37**
Anal Date:	1 Apr 125 9:37 pm	**SF:**	**2**	**QCbatch:**	**040125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**682**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.30**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	UG	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.200	4.41	42.00	25370
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	4.523	4.86	31.00	2557690
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.402	6.32	56.00	26779
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	1.335	6.42	58.00	163700
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.032	6.45	45.00	16639
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.156	8.75	72.00	16034
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.344	10.70	78.00	231598
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.066	13.50	91.00	61743
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.017	15.90	106	23510
1330-20-7	m,p-Xylenes	75	TRG	0.028	16.06	91.00	35359
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.054	16.61	104.00	46326
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.017	16.54	91.00	22102
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.008	18.04	91.00	19992
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.050	18.23	105.00	84944
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.048	18.31	105.00	73136
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.025	18.95	105.00	39766
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.027	19.53	119.00	61995
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.010	20.20	91.00	26572
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	236
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**10285821**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**12537457**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15646627**
2037-26-5	Toluene-d8	103	SURR	12.504	13.40	98.00	**9637360**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 2E+05
Laboratory Number: 27
File Name: 2510027A.D
Run Method: A1563_P.M
Can Factor: 1.30
Air Volume: 300.0 ml
Can/Tube Number: 682
Dilution Factor: 0.3900
Base Volume: 1000 ml
Unit Factor (ppbv): 1000 PPBV UG/M3

EDD SURR: PERCENT
Sam Type: SA
Instrument: MA1
DETECT: ND
Matrix: AA
Type: TRG
Diluton: 0.3900
Sig Figs: 2
MDLSF: 2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.20	0.87	1.50	0.87	1.50	1.50	1.50	0.100	0.250	0.43	0.75	1.08
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.65	3.22	1.08
Methanol	32.0	4.52	19.60	25.69	19.60	25.69	25.69	25.69	0.500	0.600	2.17	2.84	2.60
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.65	1.34	1.08
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	3.03	1.08
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.56	1.08
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.48	1.08
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.68	1.08
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.14	1.08
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	2.17	4.09	13.91
Acrolein	56.1	0.40	1.74	4.00	1.74	4.00	4.00	4.00	0.100	0.300	0.43	1.00	1.30
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.44	1.08
Acetone	58.1	1.33	5.78	13.76	5.78	13.76	13.76	13.76	0.500	0.600	2.17	5.16	2.60
2-propanol (isopropylalcohol)	60.1	0.03	0.14	0.35	ND	ND	0		0.200	1.250	0.87	2.13	5.42
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.43	1.32	4.33
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.43	2.54	1.30
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.86	1.08
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.87	1.88	1.30
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.66	1.08
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.22	0.68	4.33
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.75	1.08
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.35	1.08
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.22	0.86	0.87
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.43	1.56	0.87
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.08	2.44	1.73
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.88	1.08
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.81	1.08
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.22	0.76	4.33
2-Butanone (MEK)	72.1	0.16	0.68	2.00	0.68	2.00	2.00	2.00	0.100	0.300	0.43	1.28	1.30
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.43	1.81	2.60
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.53	1.08
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.19	1.08
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.56	1.08
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.15	1.08
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.43	1.53	2.17
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.22	0.64	1.30
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.87	2.63	3.47
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.86	1.08
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.00	1.08
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.06	1.08
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.18	1.08
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.88	1.08
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.98	1.08
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.75	1.08
Benzene	78.1	0.34	1.49	4.77	ND	ND	0		0.350	0.500	1.52	4.85	2.17
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.36	1.08
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.43	1.81	2.17
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.01	1.08
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.78	1.08

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.00	1.08
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.43	1.56	2.17
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.54	1.08
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.58	1.08
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.45	1.08
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.78	1.08
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.43	1.78	3.47
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.98	1.08
Toluene	92.1	0.07	0.28	1.07	ND	ND	0		0.200	0.250	0.87	3.27	1.08
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.98	1.08
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.18	1.08
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.03	1.08
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.43	1.78	3.47
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.22	1.00	3.03
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.03	1.08
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	3.70	1.08
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	3.33	1.08
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.74	1.08
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.00	1.08
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.98	1.08
Ethylbenzene	106.2	0.02	0.07	0.32	ND	ND	0		0.100	0.250	0.43	1.88	1.08
m,p-Xylenes	106.2	0.03	0.12	0.54	ND	ND	0		0.100	0.250	0.43	1.88	1.08
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.28	1.08
Styrene	104.2	0.05	0.23	0.99	ND	ND	0		0.150	0.250	0.65	2.77	1.08
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	4.48	1.08
o-Xylene	106.2	0.02	0.07	0.32	ND	ND	0		0.100	0.250	0.43	1.88	1.08
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.87	5.96	2.17
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.87	5.23	2.60
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.87	4.44	2.60
n-Propylbenzene	120.2	0.01	0.04	0.18	ND	ND	0		0.200	0.700	0.87	4.27	3.03
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.87	4.27	3.03
4-Ethyltoluene	120.2	0.05	0.22	1.07	ND	ND	0		0.200	1.600	0.87	4.27	6.93
1,3,5-Trimethylbenzene	120.2	0.05	0.21	1.02	ND	ND	0		0.200	0.900	0.87	4.27	3.90
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.87	5.05	2.60
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.87	4.76	2.60
1,2,4-Trimethylbenzene	120.2	0.02	0.11	0.53	ND	ND	0		0.200	0.900	0.87	4.27	3.90
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.87	4.76	2.60
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.87	4.76	3.03
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.87	5.22	3.47
Isopropyltoluene	134.2	0.03	0.12	0.65	ND	ND	0		0.200	0.600	0.87	4.76	2.60
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.87	4.49	2.17
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.87	5.22	2.17
n-Butylbenzene	134.2	0.01	0.05	0.25	ND	ND	0		0.200	0.600	0.87	4.76	2.60
1,2-Dichlorobenzene	147.0	0.00	0.00	0.01	ND	ND	0		0.200	0.700	0.87	5.22	3.03
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.30	12.58	3.03
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.30	9.66	2.17
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.17	11.38	0.43
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.30	9.66	2.17
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.08	11.57	1.30
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		12.50	125	125	125	125	125	125	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.87	J	J		=		Y	0.87	1.50
5.36	U	ND		ND		Y	0.00	0.00
3.41				=		Y	19.60	25.69
2.24	U	ND		ND		Y	0.00	0.00
7.58	U	ND		ND		Y	0.00	0.00
2.77	U	ND		ND		Y	0.00	0.00
2.40	U	ND		ND		Y	0.00	0.00
4.21	U	ND		ND		Y	0.00	0.00
2.86	U	ND		ND		Y	0.00	0.00
26.26	U	ND		ND		Y	0.00	0.00
2.99				=		Y	1.74	4.00
6.10	U	ND		ND		Y	0.00	0.00
6.19				=		Y	5.78	13.76
13.33	U	ND		ND		Y	0.00	0.00
13.15	U	ND		ND		Y	0.00	0.00
7.61	U	ND		ND		Y	0.00	0.00
4.30	U	ND		ND		Y	0.00	0.00
2.83	U	ND		ND		Y	0.00	0.00
8.31	U	ND		ND		Y	0.00	0.00
13.58	U	ND		ND		Y	0.00	0.00
3.77	U	ND		ND		Y	0.00	0.00
3.38	U	ND		ND		Y	0.00	0.00
3.44	U	ND		ND		Y	0.00	0.00
3.13	U	ND		ND		Y	0.00	0.00
3.91	U	ND		ND		Y	0.00	0.00
4.39	U	ND		ND		Y	0.00	0.00
4.53	U	ND		ND		Y	0.00	0.00
15.28	U	ND		ND		Y	0.00	0.00
3.84	J	J		=		Y	0.68	2.00
10.88	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
2.98	U	ND		ND		Y	0.00	0.00
3.91	U	ND		ND		Y	0.00	0.00
5.74	U	ND		ND		Y	0.00	0.00
7.64	U	ND		ND		Y	0.00	0.00
3.84	U	ND		ND		Y	0.00	0.00
10.52	U	ND		ND		Y	0.00	0.00
4.30	U	ND		ND		Y	0.00	0.00
5.01	U	ND		ND		Y	0.00	0.00
5.30	U	ND		ND		Y	0.00	0.00
5.92	U	ND		ND		Y	0.00	0.00
4.39	U	ND		ND		Y	0.00	0.00
4.92	U	ND		ND		Y	0.00	0.00
3.74	U	ND		ND		Y	0.00	0.00
6.93	U	ND		ND		Y	0.00	0.00
6.82	U	ND		ND		Y	0.00	0.00
9.07	U	ND		ND		Y	0.00	0.00
5.07	U	ND		ND		Y	0.00	0.00
4.45	U	ND		ND		Y	0.00	0.00

5.01	U	ND	ND	Y	0.00	0.00
7.82	U	ND	ND	Y	0.00	0.00
7.71	U	ND	ND	Y	0.00	0.00
5.83	U	ND	ND	Y	0.00	0.00
7.27	U	ND	ND	Y	0.00	0.00
4.44	U	ND	ND	Y	0.00	0.00
14.23	U	ND	ND	Y	0.00	0.00
4.92	U	ND	ND	Y	0.00	0.00
4.09	U	ND	ND	Y	0.00	0.00
4.92	U	ND	ND	Y	0.00	0.00
5.92	U	ND	ND	Y	0.00	0.00
5.07	U	ND	ND	Y	0.00	0.00
14.23	U	ND	ND	Y	0.00	0.00
14.04	U	ND	ND	Y	0.00	0.00
5.07	U	ND	ND	Y	0.00	0.00
9.24	U	ND	ND	Y	0.00	0.00
8.34	U	ND	ND	Y	0.00	0.00
7.36	U	ND	ND	Y	0.00	0.00
5.00	U	ND	ND	Y	0.00	0.00
7.44	U	ND	ND	Y	0.00	0.00
4.71	U	ND	ND	Y	0.00	0.00
4.71	U	ND	ND	Y	0.00	0.00
5.69	U	ND	ND	Y	0.00	0.00
4.62	U	ND	ND	Y	0.00	0.00
11.21	U	ND	ND	Y	0.00	0.00
4.71	U	ND	ND	Y	0.00	0.00
14.89	U	ND	ND	Y	0.00	0.00
15.70	U	ND	ND	Y	0.00	0.00
13.31	U	ND	ND	Y	0.00	0.00
14.93	U	ND	ND	Y	0.00	0.00
14.93	U	ND	ND	Y	0.00	0.00
34.13	U	ND	ND	Y	0.00	0.00
19.20	U	ND	ND	Y	0.00	0.00
15.15	U	ND	ND	Y	0.00	0.00
14.29	U	ND	ND	Y	0.00	0.00
19.20	U	ND	ND	Y	0.00	0.00
14.29	U	ND	ND	Y	0.00	0.00
16.67	U	ND	ND	Y	0.00	0.00
20.87	U	ND	ND	Y	0.00	0.00
14.29	U	ND	ND	Y	0.00	0.00
11.23	U	ND	ND	Y	0.00	0.00
13.04	U	ND	ND	Y	0.00	0.00
14.29	U	ND	ND	Y	0.00	0.00
18.26	U	ND	ND	Y	0.00	0.00
29.36	U	ND	ND	Y	0.00	0.00
16.10	U	ND	ND	Y	0.00	0.00
2.28	U	ND	ND	Y	0.00	0.00
16.10	U	ND	ND	Y	0.00	0.00
13.89	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**27**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.30	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum (Astdni) (Cistdi) / (Cstdni) (Aistdi) i — Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) **= Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

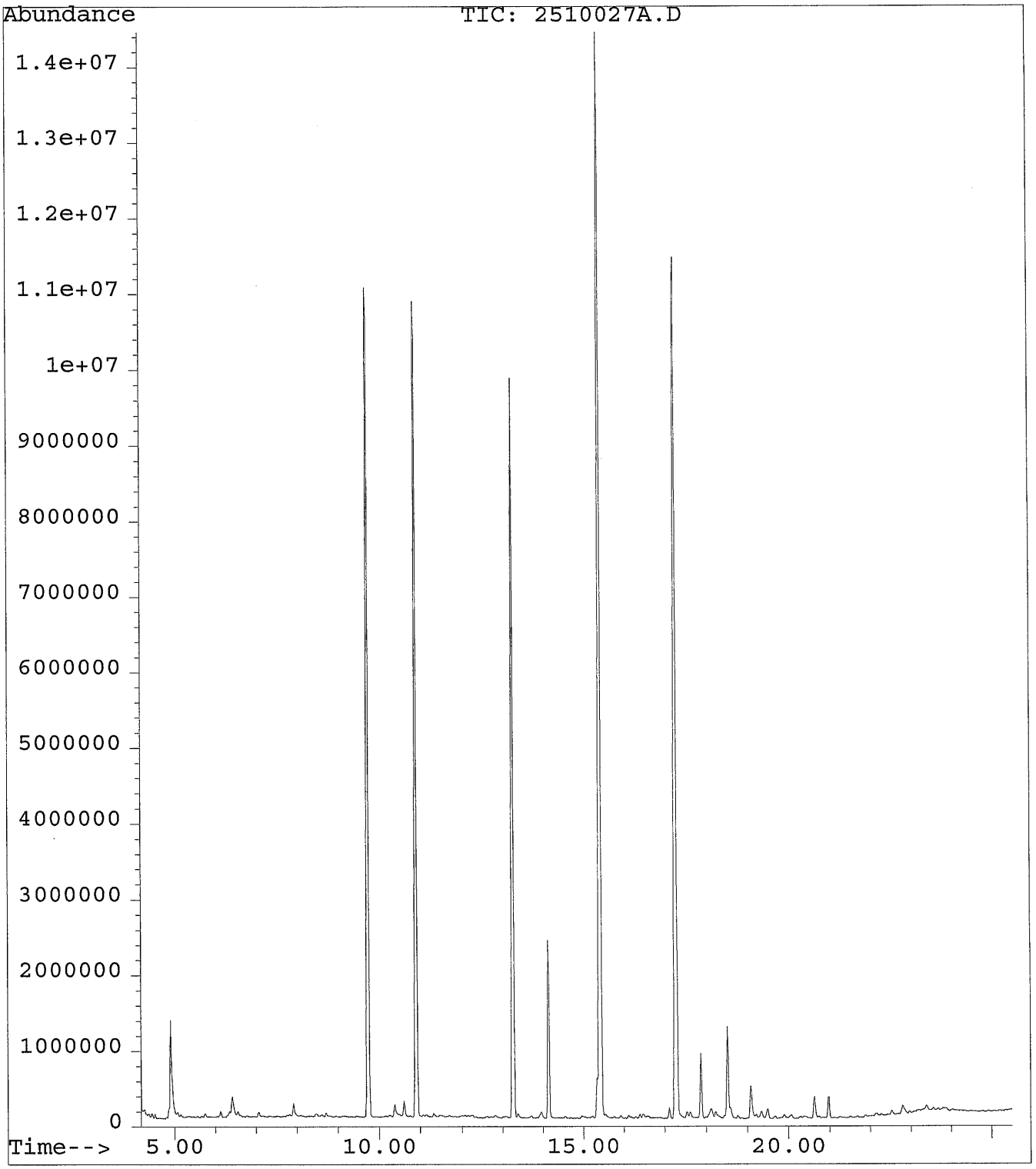
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	25370	20.0	10285821	0.200	0.87	1.50
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	10285821	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	2557690	20.0	10285821	4.523	19.60	25.69
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	10285821	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	10285821	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	10285821	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	10285821	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	10285821	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	10285821	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	0	20.0	10285821	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.130	26779	20.0	10285821	0.402	1.74	4.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	10285821	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	163700	20.0	10285821	1.335	5.78	13.76
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	16639	20.0	10285821	0.032	0.14	0.35
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	10285821	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	10285821	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	10285821	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	10285821	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	10285821	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	10285821	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	10285821	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	10285821	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	10285821	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	10285821	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	10285821	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	10285821	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	10285821	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	10285821	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	16034	20.0	10285821	0.156	0.68	2.00
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	10285821	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	10285821	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	10285821	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	10285821	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	10285821	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	10285821	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	10285821	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	10285821	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	10285821	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	10285821	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	10285821	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	12537457	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	12537457	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	12537457	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	12537457	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	231598	20.0	12537457	0.344	1.49	4.77
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	12537457	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	12537457	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	12537457	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	12537457	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	12537457	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	12537457	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	12537457	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	12537457	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	12537457	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	12537457	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	12537457	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	12537457	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	61743	20.0	12537457	0.066	0.28	1.07
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	12537457	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	12537457	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	12537457	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	12537457	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	12537457	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	12537457	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	12537457	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	12537457	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	12537457	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	15646627	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	15646627	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	23510	20.0	15646627	0.017	0.07	0.32
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	35359	20.0	15646627	0.028	0.12	0.54
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	15646627	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	46326	20.0	15646627	0.054	0.23	0.99
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	15646627	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	22102	20.0	15646627	0.017	0.07	0.32
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	15646627	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	15646627	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	15646627	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	19992	20.0	15646627	0.008	0.04	0.18
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	15646627	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	84944	20.0	15646627	0.050	0.22	1.07
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	73136	20.0	15646627	0.048	0.21	1.02
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	15646627	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	15646627	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	39766	20.0	15646627	0.025	0.11	0.53
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	15646627	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	15646627	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	15646627	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	61995	20.0	15646627	0.027	0.12	0.65
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	15646627	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	15646627	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	26572	20.0	15646627	0.010	0.05	0.25
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	236	20.0	15646627	0.000	0.00	0.01
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	15646627	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	15646627	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	15646627	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	15646627	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	15646627	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	10285821	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	12537457	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15646627	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9637360	10.0		12.504	125.04	125

File : C:\MSCHEM\1\DATA\04015A_C\2510027A.D
Operator : UG
Acquired : 1 Apr 125 9:37 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-209
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **28**

Client ID T-210

Analytical Method TO-15

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Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 28

File Name: 2510028A.D
Description: T-210
Canister: 714
QC_Batch: 040225-MA1

Date Sampled: 03/20/25 **Time:** 11:21
Date Analyzed: 04/02/25 **Time:** 11:47
Can Dilution Factor: 1.27
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.06	0.83	0.73	1.82	1.43	J
75-71-8	Dichlorodifluoromethane	0.64	1.06	ND	3.14	5.24	ND	
67-56-1	Methanol	2.12	2.54	ND	2.77	3.33	ND	
74-87-3	Chloromethane	0.64	1.06	ND	1.31	2.19	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.06	ND	2.96	7.41	ND	
75-01-4	Vinyl chloride	0.21	1.06	ND	0.55	2.71	ND	
106-99-0	1,3-Butadiene	0.21	1.06	ND	0.47	2.34	ND	
74-83-9	Bromomethane	0.42	1.06	ND	1.65	4.11	ND	
75-00-3	Chloroethane	0.42	1.06	ND	1.12	2.80	ND	
64-17-5	Ethanol	2.12	13.59	ND	4.00	25.66	ND	
107-02-8	Acrolein	0.42	1.27	1.22	0.97	2.92	2.80	J
75-69-4	Trichlorofluoromethane	0.42	1.06	ND	2.38	5.96	ND	
67-64-1	Acetone	2.12	2.54	6.78	5.04	6.04	16.12	
67-63-0	2-propanol (isopropylalcohol)	0.85	5.29	ND	2.08	13.02	ND	
75-65-0	t-Butyl alcohol	0.42	4.23	ND	1.28	12.85	ND	
4227-95-6	Methyl iodide	0.42	1.27	ND	2.48	7.43	ND	
75-35-4	1,1-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
107-13-1	Acrylonitrile	0.85	1.27	ND	1.84	2.76	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.06	ND	1.62	8.12	ND	
107-05-1	Allyl chloride	0.21	4.23	ND	0.66	13.26	ND	
75-09-2	Methylene chloride	0.21	1.06	ND	0.74	3.68	ND	
75-15-0	Carbon disulfide	0.42	1.06	ND	1.32	3.30	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.85	ND	0.84	3.36	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.85	ND	1.53	3.05	ND	
107-12-0	Propionitrile	1.06	1.69	ND	2.39	3.82	ND	
75-34-3	1,1-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.06	ND	1.77	4.43	ND	
108-05-4	Vinyl acetate	0.21	4.23	ND	0.75	14.93	ND	
78-93-3	2-Butanone (MEK)	0.42	1.27	ND	1.25	3.75	ND	
108-20-3	Diisopropyl ether	0.42	2.54	ND	1.77	10.63	ND	
110-54-3	Hexane	0.42	1.06	ND	1.49	3.74	ND	
126-98-7	Methacrylonitrile	0.42	1.06	ND	1.16	2.91	ND	
141-78-6	Ethyl acetate	0.42	1.06	ND	1.53	3.82	ND	
74-97-5	Bromochloromethane	0.21	1.06	ND	1.12	5.61	ND	
96-33-3	Methyl acrylate	0.42	2.12	ND	1.49	7.46	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.27	ND	0.63	3.75	ND	
78-83-1	Isobutyl alcohol	0.85	3.39	ND	2.57	10.28	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
594-20-7	2,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
67-66-3	Chloroform	0.21	1.06	ND	1.04	5.18	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
107-06-2	1,2-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
563-58-6	1,1-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
110-82-7	Cyclohexane	0.21	1.06	ND	0.73	3.65	ND	
71-43-2	Benzene	1.48	2.12	2.02	4.74	6.77	6.47	J
56-23-5	Carbon tetrachloride	0.21	1.06	ND	1.33	6.67	ND	
994-05-8	t-Amyl methyl ether	0.42	2.12	ND	1.77	8.86	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.06	ND	0.99	4.95	ND	
142-82-5	n-Heptane	0.42	1.06	ND	1.74	4.34	ND	
78-87-5	1,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
123-91-1	1,4 Dioxane	0.42	2.12	ND	1.53	7.64	ND	
74-95-3	Dibromomethane	0.21	1.06	ND	1.51	7.53	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.06	ND	0.57	5.70	ND	
75-27-4	Bromodichloromethane	0.21	1.06	ND	1.42	7.10	ND	
80-62-6	Methyl methacrylate	0.42	1.06	ND	1.74	4.34	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.39	ND	1.74	13.90	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
108-88-3	Toluene	0.85	1.06	ND	3.19	3.99	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
97-63-2	Ethyl methacrylate	0.42	1.06	ND	1.98	4.95	ND	
591-78-6	2-Hexanone	0.42	3.39	ND	1.74	13.90	ND	
142-28-9	1,3-Dichloropropane	0.21	2.96	ND	0.98	13.71	ND	
111-65-9	Octane	0.42	1.06	ND	1.98	4.95	ND	
124-48-1	Dibromochloromethane	0.42	1.06	ND	3.61	9.03	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.06	ND	3.26	8.14	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.06	ND	0.72	7.19	ND	
108-90-7	Chlorobenzene	0.42	1.06	ND	1.95	4.88	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.06	ND	2.91	7.27	ND	
100-41-4	Ethylbenzene	0.42	1.06	ND	1.84	4.60	ND	
1330-20-7	m,p-Xylenes	0.42	1.06	ND	1.84	4.60	ND	
111-84-2	Nonane	0.42	1.06	ND	2.22	5.56	ND	
100-42-5	Styrene	0.64	1.06	ND	2.71	4.52	ND	
75-25-2	Bromoform	0.42	1.06	ND	4.38	10.95	ND	
95-47-6	o-Xylene	0.42	1.06	ND	1.84	4.60	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.85	2.12	ND	5.82	14.55	ND	
96-18-4	1,2,3-Trichloropropane	0.85	2.54	ND	5.11	15.33	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.85	2.54	ND	4.33	13.00	ND	
103-65-1	n-Propylbenzene	0.85	2.96	ND	4.17	14.59	ND	
98-82-8	Isopropylbenzene	0.85	2.96	ND	4.17	14.59	ND	
622-96-8	4-Ethyltoluene	0.85	6.77	ND	4.17	33.34	ND	
108-67-8	1,3,5-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
124-18-5	Decane	0.85	2.54	ND	4.93	14.80	ND	
98-06-6	tert-butyl benzene	0.85	2.54	ND	4.65	13.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
538-93-2	i-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
135-98-8	sec-butylbenzene	0.85	2.96	ND	4.65	16.29	ND	
541-73-1	1,3-Dichlorobenzene	0.85	3.39	ND	5.10	20.39	ND	
99-87-6	Isopropyltoluene	0.85	2.54	ND	4.65	13.96	ND	
100-44-7	Benzyl chloride	0.85	2.12	ND	4.39	10.97	ND	
106-46-7	1,4-Dichlorobenzene	0.85	2.12	ND	5.10	12.74	ND	
104-51-8	n-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
95-50-1	1,2-Dichlorobenzene	0.85	2.96	ND	5.10	17.84	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.27	2.96	ND	12.29	28.68	ND	
120-82-1	1,2,4-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
91-20-3	Naphthalene	2.12	0.42	ND	11.11	2.22	ND	
87-61-6	1,2,3-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
87-68-3	Hexachlorobutadiene	1.06	1.27	ND	11.30	13.56	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	128	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**28**		
File Name:	2510028A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/20/25**	**Time:**	**11:21**
Sample ID:	T-210	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/02/25**	**Time:**	**11:47**
Anal Date:	2 Apr 125 11:47 am	**SF:**	**2**	**QCbatch:**	**040225-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**714**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.27**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	DA	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.197	4.41	42.00	25833
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.000	4.86	31.00	0
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.287	6.32	56.00	19899
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	1.601	6.42	58.00	203823
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.477	10.70	78.00	331348
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.073	13.50	91.00	71026
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.021	15.90	106	29768
1330-20-7	m,p-Xylenes	75	TRG	0.030	16.06	91.00	37960
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.073	16.61	104.00	63909
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.014	16.56	91.00	18421
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.030	18.23	105.00	51395
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.034	18.31	105.00	53004
124-18-5	Decane	87	TRG	0.009	18.60	57.00	17123
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.029	18.95	105.00	48110
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.011	20.20	91.00	28718
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**10679586**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**12928446**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15913360**
2037-26-5	Toluene-d8	103	SURR	12.804	13.40	98.00	**10176506**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 2E+05
Laboratory Number: 28
File Name: 2510028A.D
Run Method: A1563_P.M
Can Factor: 1.27
Air Volume: 300.0 ml
Can/Tube Number: 714
Dilution Factor: 0.3810
Base Volume: 1000 ml
Unit Factor (ppbv): 1000 PPBV UG/M3

EDD SURR: PERCENT
Sam Type: SA
Instrument: MA1
DETECT: ND
Matrix: AA
Type: TRG
Diluton: 0.3810
Sig Figs: 2
MDLSF: 2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.20	0.83	1.43	0.83	1.43	1.43	1.43	0.100	0.250	0.42	0.73	1.06
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.64	3.14	1.06
Methanol	32.0	0.00	0.00	0.00	ND	ND	0		0.500	0.600	2.12	2.77	2.54
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.64	1.31	1.06
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.96	1.06
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.55	1.06
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.47	1.06
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.65	1.06
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.12	1.06
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	2.12	4.00	13.59
Acrolein	56.1	0.29	1.22	2.80	1.22	2.80	2.80	2.80	0.100	0.300	0.42	0.97	1.27
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.38	1.06
Acetone	58.1	1.60	6.78	16.12	6.78	16.12	16.12	16.12	0.500	0.600	2.12	5.04	2.54
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		0.200	1.250	0.85	2.08	5.29
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.42	1.28	4.23
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.42	2.48	1.27
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.06
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.85	1.84	1.27
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.62	1.06
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.66	4.23
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.74	1.06
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.32	1.06
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.21	0.84	0.85
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.42	1.53	0.85
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.06	2.39	1.69
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.86	1.06
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.77	1.06
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.75	4.23
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.42	1.25	1.27
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.42	1.77	2.54
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.49	1.06
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.16	1.06
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.53	1.06
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.12	1.06
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.49	2.12
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.21	0.63	1.27
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.85	2.57	3.39
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.06
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.98	1.06
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.04	1.06
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.16	1.06
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.86	1.06
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.73	1.06
Benzene	78.1	0.48	2.02	6.47	2.02	6.47	6.47	6.47	0.350	0.500	1.48	4.74	2.12
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.33	1.06
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.77	2.12
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.99	1.06
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.74	1.06

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.98	1.06
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.53	2.12
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.51	1.06
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.57	1.06
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.42	1.06
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.74	1.06
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.42	1.74	3.39
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06
Toluene	92.1	0.07	0.31	1.17	ND	ND	0		0.200	0.250	0.85	3.19	1.06
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.16	1.06
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.98	1.06
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.42	1.74	3.39
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.21	0.98	2.96
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.98	1.06
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.61	1.06
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.26	1.06
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.72	1.06
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.95	1.06
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.91	1.06
Ethylbenzene	106.2	0.02	0.09	0.39	ND	ND	0		0.100	0.250	0.42	1.84	1.06
m,p-Xylenes	106.2	0.03	0.13	0.55	ND	ND	0		0.100	0.250	0.42	1.84	1.06
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.22	1.06
Styrene	104.2	0.07	0.31	1.31	ND	ND	0		0.150	0.250	0.64	2.71	1.06
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	4.38	1.06
o-Xylene	106.2	0.01	0.06	0.26	ND	ND	0		0.100	0.250	0.42	1.84	1.06
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	5.82	2.12
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	5.11	2.54
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.33	2.54
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.17	2.96
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.17	2.96
4-Ethyltoluene	120.2	0.03	0.13	0.62	ND	ND	0		0.200	1.600	0.85	4.17	6.77
1,3,5-Trimethylbenzene	120.2	0.03	0.14	0.71	ND	ND	0		0.200	0.900	0.85	4.17	3.81
Decane	142.3	0.01	0.04	0.23	ND	ND	0		0.200	0.600	0.85	4.93	2.54
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.65	2.54
1,2,4-Trimethylbenzene	120.2	0.03	0.12	0.61	ND	ND	0		0.200	0.900	0.85	4.17	3.81
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.65	2.54
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.65	2.96
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.85	5.10	3.39
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.65	2.54
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	4.39	2.12
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	5.10	2.12
n-Butylbenzene	134.2	0.01	0.05	0.26	ND	ND	0		0.200	0.600	0.85	4.65	2.54
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	5.10	2.96
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.27	12.29	2.96
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.27	9.44	2.12
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.12	11.11	0.42
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.27	9.44	2.12
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.06	11.30	1.27
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		12.80	128	128	128	128	128	128	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.82	J	J		=		Y	0.83	1.43
5.24	U	ND		ND		Y	0.00	0.00
3.33	U	ND		ND		Y	0.00	0.00
2.19	U	ND		ND		Y	0.00	0.00
7.41	U	ND		ND		Y	0.00	0.00
2.71	U	ND		ND		Y	0.00	0.00
2.34	U	ND		ND		Y	0.00	0.00
4.11	U	ND		ND		Y	0.00	0.00
2.80	U	ND		ND		Y	0.00	0.00
25.66	U	ND		ND		Y	0.00	0.00
2.92	J	J		=		Y	1.22	2.80
5.96	U	ND		ND		Y	0.00	0.00
6.04				=		Y	6.78	16.12
13.02	U	ND		ND		Y	0.00	0.00
12.85	U	ND		ND		Y	0.00	0.00
7.43	U	ND		ND		Y	0.00	0.00
4.20	U	ND		ND		Y	0.00	0.00
2.76	U	ND		ND		Y	0.00	0.00
8.12	U	ND		ND		Y	0.00	0.00
13.26	U	ND		ND		Y	0.00	0.00
3.68	U	ND		ND		Y	0.00	0.00
3.30	U	ND		ND		Y	0.00	0.00
3.36	U	ND		ND		Y	0.00	0.00
3.05	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
4.29	U	ND		ND		Y	0.00	0.00
4.43	U	ND		ND		Y	0.00	0.00
14.93	U	ND		ND		Y	0.00	0.00
3.75	U	ND		ND		Y	0.00	0.00
10.63	U	ND		ND		Y	0.00	0.00
3.74	U	ND		ND		Y	0.00	0.00
2.91	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
5.61	U	ND		ND		Y	0.00	0.00
7.46	U	ND		ND		Y	0.00	0.00
3.75	U	ND		ND		Y	0.00	0.00
10.28	U	ND		ND		Y	0.00	0.00
4.20	U	ND		ND		Y	0.00	0.00
4.90	U	ND		ND		Y	0.00	0.00
5.18	U	ND		ND		Y	0.00	0.00
5.78	U	ND		ND		Y	0.00	0.00
4.29	U	ND		ND		Y	0.00	0.00
4.81	U	ND		ND		Y	0.00	0.00
3.65	U	ND		ND		Y	0.00	0.00
6.77	J	J		=		Y	2.02	6.47
6.67	U	ND		ND		Y	0.00	0.00
8.86	U	ND		ND		Y	0.00	0.00
4.95	U	ND		ND		Y	0.00	0.00
4.34	U	ND		ND		Y	0.00	0.00

4.90	U	ND	ND	Y	0.00	0.00
7.64	U	ND	ND	Y	0.00	0.00
7.53	U	ND	ND	Y	0.00	0.00
5.70	U	ND	ND	Y	0.00	0.00
7.10	U	ND	ND	Y	0.00	0.00
4.34	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
4.81	U	ND	ND	Y	0.00	0.00
3.99	U	ND	ND	Y	0.00	0.00
4.81	U	ND	ND	Y	0.00	0.00
5.78	U	ND	ND	Y	0.00	0.00
4.95	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
13.71	U	ND	ND	Y	0.00	0.00
4.95	U	ND	ND	Y	0.00	0.00
9.03	U	ND	ND	Y	0.00	0.00
8.14	U	ND	ND	Y	0.00	0.00
7.19	U	ND	ND	Y	0.00	0.00
4.88	U	ND	ND	Y	0.00	0.00
7.27	U	ND	ND	Y	0.00	0.00
4.60	U	ND	ND	Y	0.00	0.00
4.60	U	ND	ND	Y	0.00	0.00
5.56	U	ND	ND	Y	0.00	0.00
4.52	U	ND	ND	Y	0.00	0.00
10.95	U	ND	ND	Y	0.00	0.00
4.60	U	ND	ND	Y	0.00	0.00
14.55	U	ND	ND	Y	0.00	0.00
15.33	U	ND	ND	Y	0.00	0.00
13.00	U	ND	ND	Y	0.00	0.00
14.59	U	ND	ND	Y	0.00	0.00
14.59	U	ND	ND	Y	0.00	0.00
33.34	U	ND	ND	Y	0.00	0.00
18.76	U	ND	ND	Y	0.00	0.00
14.80	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
18.76	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
16.29	U	ND	ND	Y	0.00	0.00
20.39	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
10.97	U	ND	ND	Y	0.00	0.00
12.74	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
17.84	U	ND	ND	Y	0.00	0.00
28.68	U	ND	ND	Y	0.00	0.00
15.73	U	ND	ND	Y	0.00	0.00
2.22	U	ND	ND	Y	0.00	0.00
15.73	U	ND	ND	Y	0.00	0.00
13.56	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**28**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.27
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum (Astdni) (Cistdi) / (Cstdni) (Aistdi) Note: 1 i

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) **= Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

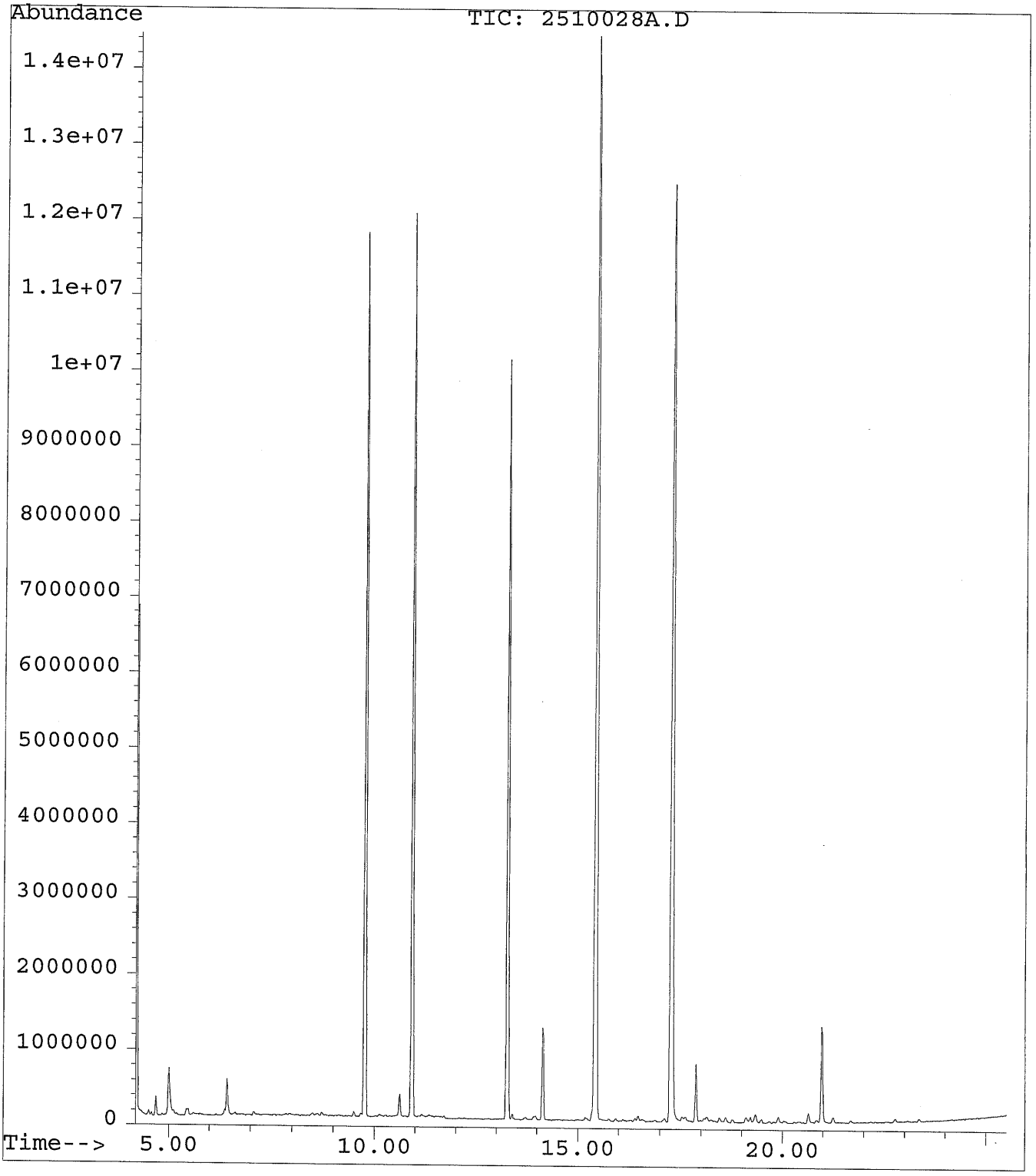
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	25833	20.0	10679586	0.197	0.83	1.43
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	10679586	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	0	20.0	10679586	0.000	0.00	0.00
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	10679586	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	10679586	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	10679586	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	10679586	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	10679586	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	10679586	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	0	20.0	10679586	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.130	19899	20.0	10679586	0.287	1.22	2.80
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	10679586	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	203823	20.0	10679586	1.601	6.78	16.12
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	0	20.0	10679586	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	10679586	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	10679586	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	10679586	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	10679586	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	10679586	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	10679586	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	10679586	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	10679586	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	10679586	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	10679586	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	10679586	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	10679586	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	10679586	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	10679586	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	0	20.0	10679586	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	10679586	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	10679586	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	10679586	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	10679586	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	10679586	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	10679586	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	10679586	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	10679586	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	10679586	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	10679586	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	10679586	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	12928446	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	12928446	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	12928446	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	12928446	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	331348	20.0	12928446	0.477	2.02	6.47
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	12928446	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	12928446	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	12928446	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	12928446	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	12928446	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	12928446	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	12928446	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	12928446	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	12928446	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	12928446	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	12928446	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	12928446	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	71026	20.0	12928446	0.073	0.31	1.17
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	12928446	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	12928446	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	12928446	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	12928446	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	12928446	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	12928446	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	12928446	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	12928446	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	12928446	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	15913360	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	15913360	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	29768	20.0	15913360	0.021	0.09	0.39
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	37960	20.0	15913360	0.030	0.13	0.55
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	15913360	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	63909	20.0	15913360	0.073	0.31	1.31
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	15913360	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	18421	20.0	15913360	0.014	0.06	0.26
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	15913360	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	15913360	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	15913360	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	15913360	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	15913360	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	51395	20.0	15913360	0.030	0.13	0.62
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	53004	20.0	15913360	0.034	0.14	0.71
87	Decane	d5CB	TRG	142.3	2.327	17123	20.0	15913360	0.009	0.04	0.23
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	15913360	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	48110	20.0	15913360	0.029	0.12	0.61
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	15913360	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	15913360	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	15913360	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	15913360	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	15913360	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	15913360	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	28718	20.0	15913360	0.011	0.05	0.26
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	15913360	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	15913360	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	15913360	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	15913360	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	15913360	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	15913360	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	10679586	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	12928446	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15913360	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	10176506	10.0		12.804	128.04	128

File : C:\MSCHEM\1\DATA\04025A_C\2510028A.D
Operator : DA
Acquired : 2 Apr 125 11:47 am using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-210
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **29**

Client ID T-211

Analytical Method TO-15

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Analytical Report
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Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 29

File Name: 2510029A.D
Description: T-211
Canister: 629
QC_Batch: 040225-MA1

Date Sampled: 03/20/25 **Time:** 11:26
Date Analyzed: 04/02/25 **Time:** 12:24
Can Dilution Factor: 1.29
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.43	1.08	0.70	0.74	1.85	1.21	J
75-71-8	Dichlorodifluoromethane	0.65	1.08	ND	3.19	5.32	ND	
67-56-1	Methanol	2.15	2.58	12.50	2.82	3.38	16.38	
74-87-3	Chloromethane	0.65	1.08	ND	1.33	2.22	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.43	1.08	ND	3.01	7.52	ND	
75-01-4	Vinyl chloride	0.22	1.08	ND	0.55	2.75	ND	
106-99-0	1,3-Butadiene	0.22	1.08	ND	0.48	2.38	ND	
74-83-9	Bromomethane	0.43	1.08	ND	1.67	4.18	ND	
75-00-3	Chloroethane	0.43	1.08	ND	1.14	2.84	ND	
64-17-5	Ethanol	2.15	13.80	ND	4.06	26.06	ND	
107-02-8	Acrolein	0.43	1.29	1.37	0.99	2.96	3.15	
75-69-4	Trichlorofluoromethane	0.43	1.08	ND	2.42	6.05	ND	
67-64-1	Acetone	2.15	2.58	6.99	5.12	6.14	16.63	
67-63-0	2-propanol (isopropylalcohol)	0.86	5.38	ND	2.12	13.23	ND	
75-65-0	t-Butyl alcohol	0.43	4.30	ND	1.30	13.05	ND	
4227-95-6	Methyl iodide	0.43	1.29	ND	2.52	7.55	ND	
75-35-4	1,1-Dichloroethene	0.22	1.08	ND	0.85	4.27	ND	
107-13-1	Acrylonitrile	0.86	1.29	ND	1.87	2.81	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.22	1.08	ND	1.65	8.25	ND	
107-05-1	Allyl chloride	0.22	4.30	ND	0.67	13.47	ND	
75-09-2	Methylene chloride	0.22	1.08	ND	0.75	3.74	ND	
75-15-0	Carbon disulfide	0.43	1.08	ND	1.34	3.35	ND	
156-60-5	trans-1,2-Dichloroethene	0.22	0.86	ND	0.85	3.41	ND	
1634-04-4	Methyl tert butyl ether	0.43	0.86	ND	1.55	3.10	ND	
107-12-0	Propionitrile	1.08	1.72	ND	2.43	3.88	ND	
75-34-3	1,1-Dichloroethane	0.21	1.08	ND	0.87	4.36	ND	
637-92-3	Ethyl tert butyl ether	0.43	1.08	ND	1.80	4.50	ND	
108-05-4	Vinyl acetate	0.22	4.30	ND	0.76	15.16	ND	
78-93-3	2-Butanone (MEK)	0.43	1.29	0.68	1.27	3.81	2.02	J
108-20-3	Diisopropyl ether	0.43	2.58	ND	1.80	10.80	ND	
110-54-3	Hexane	0.43	1.08	ND	1.52	3.80	ND	
126-98-7	Methacrylonitrile	0.43	1.08	ND	1.18	2.95	ND	
141-78-6	Ethyl acetate	0.43	1.08	ND	1.55	3.88	ND	
74-97-5	Bromochloromethane	0.22	1.08	ND	1.14	5.70	ND	
96-33-3	Methyl acrylate	0.43	2.15	ND	1.52	7.58	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.22	1.29	ND	0.64	3.81	ND	
78-83-1	Isobutyl alcohol	0.86	3.44	ND	2.61	10.44	ND	
156-59-2	cis-1,2-Dichloroethene	0.22	1.08	ND	0.85	4.27	ND	
594-20-7	2,2-Dichloropropane	0.22	1.08	ND	1.00	4.98	ND	
67-66-3	Chloroform	0.22	1.08	ND	1.05	5.26	ND	
71-55-6	1,1,1-Trichloroethane	0.22	1.08	ND	1.17	5.87	ND	
107-06-2	1,2-Dichloroethane	0.22	1.08	ND	0.87	4.36	ND	
563-58-6	1,1-Dichloropropene	0.22	1.08	ND	0.98	4.89	ND	
110-82-7	Cyclohexane	0.22	1.08	ND	0.74	3.71	ND	
71-43-2	Benzene	1.51	2.15	2.08	4.81	6.88	6.64	J
56-23-5	Carbon tetrachloride	0.22	1.08	ND	1.35	6.77	ND	
994-05-8	t-Amyl methyl ether	0.43	2.15	ND	1.80	9.00	ND	
540-84-1	2,2,4-Trimethylpentane	0.22	1.08	ND	1.01	5.03	ND	
142-82-5	n-Heptane	0.43	1.08	ND	1.76	4.41	ND	
78-87-5	1,2-Dichloropropane	0.22	1.08	ND	1.00	4.98	ND	
123-91-1	1,4 Dioxane	0.43	2.15	ND	1.55	7.76	ND	
74-95-3	Dibromomethane	0.22	1.08	ND	1.53	7.65	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.08	ND	0.58	5.79	ND	
75-27-4	Bromodichloromethane	0.22	1.08	ND	1.44	7.21	ND	
80-62-6	Methyl methacrylate	0.43	1.08	ND	1.76	4.41	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.43	3.44	ND	1.76	14.12	ND	
10061-01-5	cis-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.89	ND	
108-88-3	Toluene	0.86	1.08	ND	3.24	4.05	ND	
10061-02-6	trans-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.89	ND	
79-00-5	1,1,2-Trichloroethane	0.22	1.08	ND	1.17	5.87	ND	
97-63-2	Ethyl methacrylate	0.43	1.08	ND	2.01	5.03	ND	
591-78-6	2-Hexanone	0.43	3.44	ND	1.76	14.12	ND	
142-28-9	1,3-Dichloropropane	0.22	3.01	ND	1.00	13.93	ND	
111-65-9	Octane	0.43	1.08	ND	2.01	5.03	ND	
124-48-1	Dibromochloromethane	0.43	1.08	ND	3.67	9.17	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.43	1.08	ND	3.31	8.27	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.08	0.23	0.73	7.30	1.55	J
108-90-7	Chlorobenzene	0.43	1.08	ND	1.98	4.96	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.43	1.08	ND	2.96	7.39	ND	
100-41-4	Ethylbenzene	0.43	1.08	ND	1.87	4.68	ND	
1330-20-7	m,p-Xylenes	0.43	1.08	ND	1.87	4.68	ND	
111-84-2	Nonane	0.43	1.08	ND	2.26	5.65	ND	
100-42-5	Styrene	0.65	1.08	ND	2.75	4.59	ND	
75-25-2	Bromoform	0.43	1.08	ND	4.45	11.13	ND	
95-47-6	o-Xylene	0.43	1.08	ND	1.87	4.68	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.86	2.15	ND	5.91	14.78	ND	
96-18-4	1,2,3-Trichloropropane	0.86	2.58	ND	5.19	15.57	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.86	2.58	ND	4.40	13.21	ND	
103-65-1	n-Propylbenzene	0.86	3.01	ND	4.23	14.82	ND	
98-82-8	Isopropylbenzene	0.86	3.01	ND	4.23	14.82	ND	
622-96-8	4-Ethyltoluene	0.86	6.88	ND	4.23	33.87	ND	
108-67-8	1,3,5-Trimethylbenzene	0.86	3.87	ND	4.23	19.05	ND	
124-18-5	Decane	0.86	2.58	ND	5.01	15.04	ND	
98-06-6	tert-butyl benzene	0.86	2.58	ND	4.73	14.18	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.86	3.87	ND	4.23	19.05	ND	
538-93-2	i-Butylbenzene	0.86	2.58	ND	4.73	14.18	ND	
135-98-8	sec-butylbenzene	0.86	3.01	ND	4.73	16.54	ND	
541-73-1	1,3-Dichlorobenzene	0.86	3.44	ND	5.18	20.71	ND	
99-87-6	Isopropyltoluene	0.86	2.58	ND	4.73	14.18	ND	
100-44-7	Benzyl chloride	0.86	2.15	ND	4.46	11.15	ND	
106-46-7	1,4-Dichlorobenzene	0.86	2.15	ND	5.18	12.94	ND	
104-51-8	n-Butylbenzene	0.86	2.58	ND	4.73	14.18	ND	
95-50-1	1,2-Dichlorobenzene	0.86	3.01	ND	5.18	18.12	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.29	3.01	ND	12.48	29.13	ND	
120-82-1	1,2,4-Trichlorobenzene	1.29	2.15	ND	9.58	15.97	ND	
91-20-3	Naphthalene	2.15	0.43	ND	11.29	2.26	ND	
87-61-6	1,2,3-Trichlorobenzene	1.29	2.15	ND	9.58	15.97	ND	
87-68-3	Hexachlorobutadiene	1.08	1.29	ND	11.48	13.78	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	93	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**29**		
File Name:	2510029A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/20/25**	**Time:**	**11:26**
Sample ID:	T-211	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/02/25**	**Time:**	**12:24**
Anal Date:	2 Apr 125 12:24 pm	**SF:**	**2**	**QCbatch:**	**040225-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**629**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.29**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	DA	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.164	4.41	42.00	22737
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	2.906	4.86	31.00	1805359
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.260	5.72	46.00	20881
107-02-8	Acrolein	12	TRG	0.319	6.32	56.00	23351
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	1.625	6.42	58.00	218996
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.052	6.45	45.00	29174
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.159	8.75	72.00	17935
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.012	9.51	74.00	539
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.483	10.70	78.00	334294
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.067	13.50	91.00	65055
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.053	14.69	166.00	25131
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.015	15.90	106	19829
1330-20-7	m,p-Xylenes	75	TRG	0.025	16.06	91.00	29707
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.062	16.61	104.00	51005
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.015	16.56	91.00	18266
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.021	18.23	105.00	33873
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.027	18.31	105.00	39871
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.022	18.95	105.00	34689
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	275
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**11298789**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**12890551**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**14970187**
2037-26-5	Toluene-d8	103	SURR	9.298	13.40	98.00	**7368350**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 2E+05
Laboratory Number: 29
File Name: 2510029A.D
Run Method: A1563_P.M
Can Factor: 1.29
Air Volume: 300.0 ml
Can/Tube Number: 629
Dilution Factor: 0.3870
Base Volume: 1000 ml
Unit Factor (ppbv): 1000 PPBV UG/M3

EDD SURR: PERCENT
Sam Type: SA
Instrument: MA1
DETECT: ND
Matrix: AA
Type: TRG
Diluton: 0.3870
Sig Figs: 2
MDLSF: 2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.16	0.70	1.21	0.70	1.21	1.21	1.21	0.100	0.250	0.43	0.74	1.08
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.65	3.19	1.08
Methanol	32.0	2.91	12.50	16.38	12.50	16.38	16.38	16.38	0.500	0.600	2.15	2.82	2.58
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.65	1.33	1.08
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	3.01	1.08
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.55	1.08
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.48	1.08
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.67	1.08
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.14	1.08
Ethanol	46.1	0.26	1.12	2.11	ND	ND	0		0.500	3.210	2.15	4.06	13.80
Acrolein	56.1	0.32	1.37	3.15	1.37	3.15	3.15	3.15	0.100	0.300	0.43	0.99	1.29
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.42	1.08
Acetone	58.1	1.63	6.99	16.63	6.99	16.63	16.63	16.63	0.500	0.600	2.15	5.12	2.58
2-propanol (isopropylalcohol)	60.1	0.05	0.22	0.55	ND	ND	0		0.200	1.250	0.86	2.12	5.38
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.43	1.30	4.30
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.43	2.52	1.29
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.85	1.08
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.86	1.87	1.29
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.65	1.08
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.22	0.67	4.30
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.75	1.08
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.34	1.08
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.22	0.85	0.86
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.43	1.55	0.86
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.08	2.43	1.72
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.87	1.08
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.80	1.08
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.22	0.76	4.30
2-Butanone (MEK)	72.1	0.16	0.68	2.02	0.68	2.02	2.02	2.02	0.100	0.300	0.43	1.27	1.29
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.43	1.80	2.58
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.52	1.08
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.18	1.08
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.55	1.08
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.14	1.08
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.43	1.52	2.15
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.22	0.64	1.29
Isobutyl alcohol	74.1	0.01	0.05	0.15	ND	ND	0		0.200	0.800	0.86	2.61	3.44
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.85	1.08
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.00	1.08
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.05	1.08
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.17	1.08
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.87	1.08
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.98	1.08
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.74	1.08
Benzene	78.1	0.48	2.08	6.64	2.08	6.64	6.64	6.64	0.350	0.500	1.51	4.81	2.15
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.35	1.08
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.43	1.80	2.15
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.01	1.08
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.76	1.08

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.00	1.08
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.43	1.55	2.15
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.53	1.08
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.58	1.08
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.44	1.08
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.76	1.08
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.43	1.76	3.44
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.98	1.08
Toluene	92.1	0.07	0.29	1.09	ND	ND	0		0.200	0.250	0.86	3.24	1.08
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.98	1.08
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.17	1.08
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.01	1.08
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.43	1.76	3.44
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.22	1.00	3.01
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.01	1.08
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	3.67	1.08
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	3.31	1.08
Tetrachloroethene (PCE)	165.8	0.05	0.23	1.55	0.23	1.55	1.55	1.55	0.025	0.250	0.11	0.73	1.08
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.98	1.08
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.96	1.08
Ethylbenzene	106.2	0.01	0.06	0.28	ND	ND	0		0.100	0.250	0.43	1.87	1.08
m,p-Xylenes	106.2	0.02	0.11	0.47	ND	ND	0		0.100	0.250	0.43	1.87	1.08
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.26	1.08
Styrene	104.2	0.06	0.27	1.13	ND	ND	0		0.150	0.250	0.65	2.75	1.08
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	4.45	1.08
o-Xylene	106.2	0.01	0.06	0.27	ND	ND	0		0.100	0.250	0.43	1.87	1.08
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.86	5.91	2.15
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	5.19	2.58
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	4.40	2.58
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.86	4.23	3.01
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.86	4.23	3.01
4-Ethyltoluene	120.2	0.02	0.09	0.44	ND	ND	0		0.200	1.600	0.86	4.23	6.88
1,3,5-Trimethylbenzene	120.2	0.03	0.12	0.58	ND	ND	0		0.200	0.900	0.86	4.23	3.87
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	5.01	2.58
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	4.73	2.58
1,2,4-Trimethylbenzene	120.2	0.02	0.10	0.48	ND	ND	0		0.200	0.900	0.86	4.23	3.87
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	4.73	2.58
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.86	4.73	3.01
1,3-Dichlorobenzene	147.0	0.00	0.00	0.01	ND	ND	0		0.200	0.800	0.86	5.18	3.44
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	4.73	2.58
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.86	4.46	2.15
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.86	5.18	2.15
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	4.73	2.58
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.86	5.18	3.01
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.29	12.48	3.01
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.29	9.58	2.15
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.15	11.29	0.43
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.29	9.58	2.15
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.08	11.48	1.29
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		9.30	93	93	93	93	93	93	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.85	J	J		=		Y	0.70	1.21
5.32	U	ND		ND		Y	0.00	0.00
3.38				=		Y	12.50	16.38
2.22	U	ND		ND		Y	0.00	0.00
7.52	U	ND		ND		Y	0.00	0.00
2.75	U	ND		ND		Y	0.00	0.00
2.38	U	ND		ND		Y	0.00	0.00
4.18	U	ND		ND		Y	0.00	0.00
2.84	U	ND		ND		Y	0.00	0.00
26.06	U	ND		ND		Y	0.00	0.00
2.96				=		Y	1.37	3.15
6.05	U	ND		ND		Y	0.00	0.00
6.14				=		Y	6.99	16.63
13.23	U	ND		ND		Y	0.00	0.00
13.05	U	ND		ND		Y	0.00	0.00
7.55	U	ND		ND		Y	0.00	0.00
4.27	U	ND		ND		Y	0.00	0.00
2.81	U	ND		ND		Y	0.00	0.00
8.25	U	ND		ND		Y	0.00	0.00
13.47	U	ND		ND		Y	0.00	0.00
3.74	U	ND		ND		Y	0.00	0.00
3.35	U	ND		ND		Y	0.00	0.00
3.41	U	ND		ND		Y	0.00	0.00
3.10	U	ND		ND		Y	0.00	0.00
3.88	U	ND		ND		Y	0.00	0.00
4.36	U	ND		ND		Y	0.00	0.00
4.50	U	ND		ND		Y	0.00	0.00
15.16	U	ND		ND		Y	0.00	0.00
3.81	J	J		=		Y	0.68	2.02
10.80	U	ND		ND		Y	0.00	0.00
3.80	U	ND		ND		Y	0.00	0.00
2.95	U	ND		ND		Y	0.00	0.00
3.88	U	ND		ND		Y	0.00	0.00
5.70	U	ND		ND		Y	0.00	0.00
7.58	U	ND		ND		Y	0.00	0.00
3.81	U	ND		ND		Y	0.00	0.00
10.44	U	ND		ND		Y	0.00	0.00
4.27	U	ND		ND		Y	0.00	0.00
4.98	U	ND		ND		Y	0.00	0.00
5.26	U	ND		ND		Y	0.00	0.00
5.87	U	ND		ND		Y	0.00	0.00
4.36	U	ND		ND		Y	0.00	0.00
4.89	U	ND		ND		Y	0.00	0.00
3.71	U	ND		ND		Y	0.00	0.00
6.88	J	J		=		Y	2.08	6.64
6.77	U	ND		ND		Y	0.00	0.00
9.00	U	ND		ND		Y	0.00	0.00
5.03	U	ND		ND		Y	0.00	0.00
4.41	U	ND		ND		Y	0.00	0.00

4.98	U	ND	ND	Y	0.00	0.00
7.76	U	ND	ND	Y	0.00	0.00
7.65	U	ND	ND	Y	0.00	0.00
5.79	U	ND	ND	Y	0.00	0.00
7.21	U	ND	ND	Y	0.00	0.00
4.41	U	ND	ND	Y	0.00	0.00
14.12	U	ND	ND	Y	0.00	0.00
4.89	U	ND	ND	Y	0.00	0.00
4.05	U	ND	ND	Y	0.00	0.00
4.89	U	ND	ND	Y	0.00	0.00
5.87	U	ND	ND	Y	0.00	0.00
5.03	U	ND	ND	Y	0.00	0.00
14.12	U	ND	ND	Y	0.00	0.00
13.93	U	ND	ND	Y	0.00	0.00
5.03	U	ND	ND	Y	0.00	0.00
9.17	U	ND	ND	Y	0.00	0.00
8.27	U	ND	ND	Y	0.00	0.00
7.30	J	J	=	Y	0.23	1.55
4.96	U	ND	ND	Y	0.00	0.00
7.39	U	ND	ND	Y	0.00	0.00
4.68	U	ND	ND	Y	0.00	0.00
4.68	U	ND	ND	Y	0.00	0.00
5.65	U	ND	ND	Y	0.00	0.00
4.59	U	ND	ND	Y	0.00	0.00
11.13	U	ND	ND	Y	0.00	0.00
4.68	U	ND	ND	Y	0.00	0.00
14.78	U	ND	ND	Y	0.00	0.00
15.57	U	ND	ND	Y	0.00	0.00
13.21	U	ND	ND	Y	0.00	0.00
14.82	U	ND	ND	Y	0.00	0.00
14.82	U	ND	ND	Y	0.00	0.00
33.87	U	ND	ND	Y	0.00	0.00
19.05	U	ND	ND	Y	0.00	0.00
15.04	U	ND	ND	Y	0.00	0.00
14.18	U	ND	ND	Y	0.00	0.00
19.05	U	ND	ND	Y	0.00	0.00
14.18	U	ND	ND	Y	0.00	0.00
16.54	U	ND	ND	Y	0.00	0.00
20.71	U	ND	ND	Y	0.00	0.00
14.18	U	ND	ND	Y	0.00	0.00
11.15	U	ND	ND	Y	0.00	0.00
12.94	U	ND	ND	Y	0.00	0.00
14.18	U	ND	ND	Y	0.00	0.00
18.12	U	ND	ND	Y	0.00	0.00
29.13	U	ND	ND	Y	0.00	0.00
15.97	U	ND	ND	Y	0.00	0.00
2.26	U	ND	ND	Y	0.00	0.00
15.97	U	ND	ND	Y	0.00	0.00
13.78	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**29**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.29
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\left|\frac{(Astdni)}{(Cstdni)}\right| \left|\frac{(Cistdi)}{(Aistdi)}\right|_i$ Note: 1

2) Raw Amt = $\frac{(Ansamp)}{(Avg\ RFn)} \frac{(Cistdi)}{(Aistdi)}$ **= Cn**

3) Amount ppbv = (Raw Amt) $\frac{1000}{(SV)}$ (CDF)

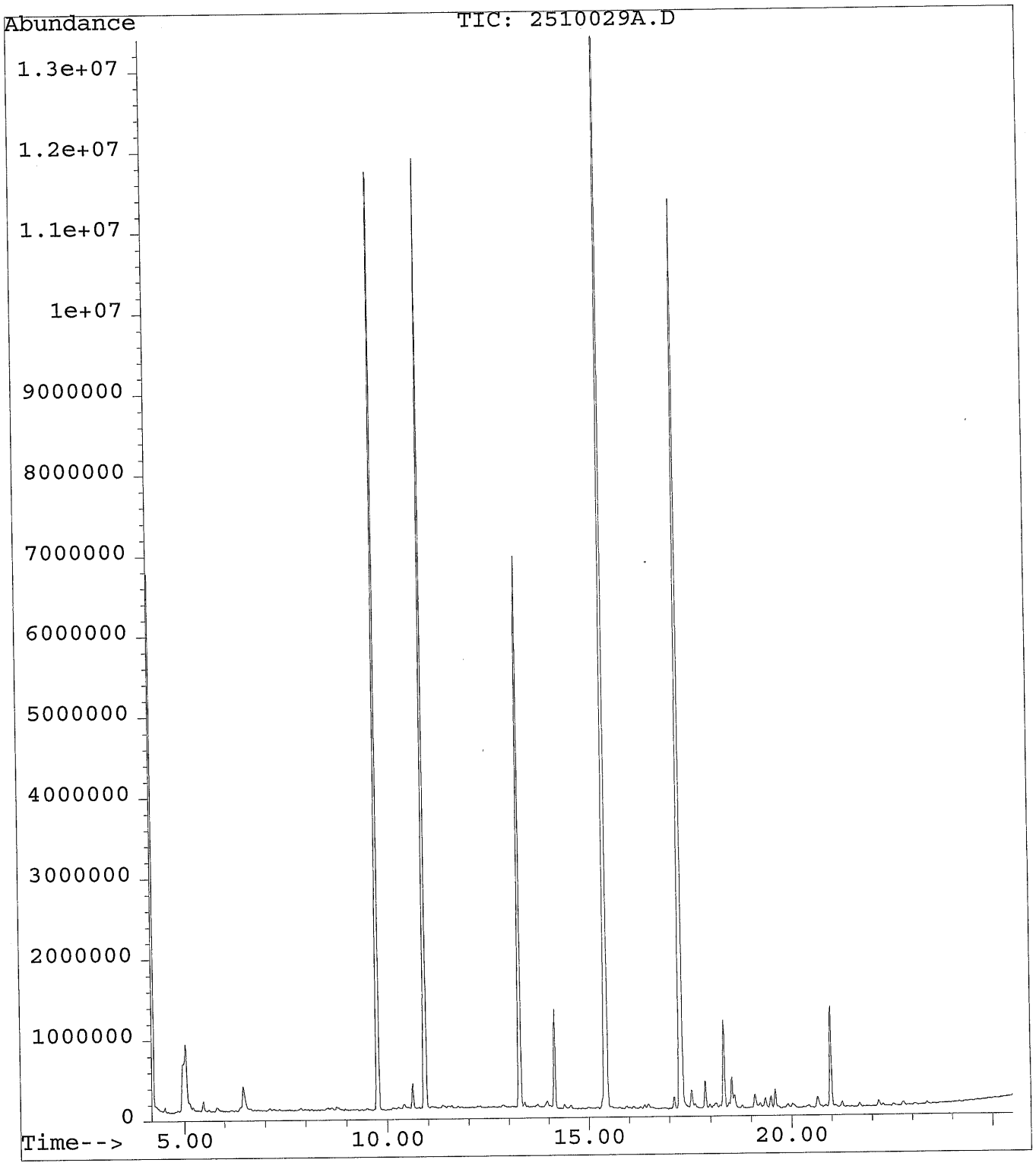
4) Amount ug/m3 = (amt(ppbv) $\frac{MW}{24.42}$

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	22737	20.0	11298789	0.164	0.70	1.21
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	11298789	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	1805359	20.0	11298789	2.906	12.50	16.38
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	11298789	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	11298789	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	11298789	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	11298789	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	11298789	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	11298789	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	20881	20.0	11298789	0.260	1.12	2.11
12	Acrolein	PFB	TRG	56.1	0.130	23351	20.0	11298789	0.319	1.37	3.15
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	11298789	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	218996	20.0	11298789	1.625	6.99	16.63
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	29174	20.0	11298789	0.052	0.22	0.55
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	11298789	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	11298789	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	11298789	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	11298789	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	11298789	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	11298789	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	11298789	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	11298789	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	11298789	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	11298789	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	11298789	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	11298789	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	11298789	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	11298789	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	17935	20.0	11298789	0.159	0.68	2.02
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	11298789	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	11298789	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	11298789	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	11298789	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	11298789	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	11298789	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	11298789	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	539	20.0	11298789	0.012	0.05	0.15
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	11298789	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	11298789	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	11298789	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	12890551	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	12890551	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	12890551	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	12890551	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	334294	20.0	12890551	0.483	2.08	6.64
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	12890551	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	12890551	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	12890551	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	12890551	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	12890551	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	12890551	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	12890551	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	12890551	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	12890551	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	12890551	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	12890551	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	12890551	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	65055	20.0	12890551	0.067	0.29	1.09
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	12890551	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	12890551	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	12890551	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	12890551	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	12890551	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	12890551	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	12890551	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	12890551	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	25131	20.0	12890551	0.053	0.23	1.55
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	14970187	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	14970187	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	19829	20.0	14970187	0.015	0.06	0.28
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	29707	20.0	14970187	0.025	0.11	0.47
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	14970187	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	51005	20.0	14970187	0.062	0.27	1.13
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	14970187	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	18266	20.0	14970187	0.015	0.06	0.27
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	14970187	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	14970187	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	14970187	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	14970187	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	14970187	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	33873	20.0	14970187	0.021	0.09	0.44
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	39871	20.0	14970187	0.027	0.12	0.58
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	14970187	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	14970187	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	34689	20.0	14970187	0.022	0.10	0.48
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	14970187	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	14970187	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	275	20.0	14970187	0.000	0.00	0.01
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	14970187	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	14970187	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	14970187	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	14970187	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	14970187	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	14970187	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	14970187	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	14970187	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	14970187	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	14970187	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	11298789	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	12890551	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	14970187	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	7368350	10.0		9.298	92.98	93

File : C:\MSCHEM\1\DATA\04025A_C\2510029A.D
Operator : DA
Acquired : 2 Apr 125 12:24 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-211
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number 225100

Lab Id Number 30

Client ID T-212

Analytical Method TO-15

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Quantitation Report
Calculations
Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 30

File Name: 2510030A.D
Description: T-212
Canister: 502
QC_Batch: 040225-MA1

Date Sampled: 03/20/25 **Time:** 11:30
Date Analyzed: 04/02/25 **Time:** 13:02
Can Dilution Factor: 1.35
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.45	1.13	0.69	0.78	1.94	1.18	J
75-71-8	Dichlorodifluoromethane	0.68	1.13	ND	3.34	5.57	ND	
67-56-1	Methanol	2.25	2.70	16.65	2.95	3.54	21.82	
74-87-3	Chloromethane	0.68	1.13	ND	1.40	2.33	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.45	1.13	ND	3.15	7.87	ND	
75-01-4	Vinyl chloride	0.23	1.13	ND	0.58	2.88	ND	
106-99-0	1,3-Butadiene	0.23	1.13	ND	0.50	2.49	ND	
74-83-9	Bromomethane	0.45	1.13	ND	1.75	4.37	ND	
75-00-3	Chloroethane	0.45	1.13	ND	1.19	2.97	ND	
64-17-5	Ethanol	2.25	14.45	ND	4.25	27.27	ND	
107-02-8	Acrolein	0.45	1.35	2.05	1.03	3.10	4.72	
75-69-4	Trichlorofluoromethane	0.45	1.13	ND	2.53	6.33	ND	
67-64-1	Acetone	2.25	2.70	12.88	5.35	6.42	30.66	
67-63-0	2-propanol (isopropylalcohol)	0.90	5.63	ND	2.22	13.85	ND	
75-65-0	t-Butyl alcohol	0.45	4.50	ND	1.37	13.66	ND	
4227-95-6	Methyl iodide	0.45	1.35	ND	2.63	7.90	ND	
75-35-4	1,1-Dichloroethene	0.23	1.13	ND	0.89	4.46	ND	
107-13-1	Acrylonitrile	0.90	1.35	ND	1.96	2.94	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.23	1.13	ND	1.73	8.63	ND	
107-05-1	Allyl chloride	0.23	4.50	ND	0.70	14.10	ND	
75-09-2	Methylene chloride	0.23	1.13	ND	0.78	3.91	ND	
75-15-0	Carbon disulfide	0.45	1.13	ND	1.40	3.51	ND	
156-60-5	trans-1,2-Dichloroethene	0.23	0.90	ND	0.89	3.57	ND	
1634-04-4	Methyl tert butyl ether	0.45	0.90	ND	1.62	3.25	ND	
107-12-0	Propionitrile	1.13	1.80	ND	2.54	4.06	ND	
75-34-3	1,1-Dichloroethane	0.22	1.13	ND	0.91	4.56	ND	
637-92-3	Ethyl tert butyl ether	0.45	1.13	ND	1.88	4.71	ND	
108-05-4	Vinyl acetate	0.23	4.50	ND	0.79	15.87	ND	
78-93-3	2-Butanone (MEK)	0.45	1.35	1.94	1.33	3.99	5.73	
108-20-3	Diisopropyl ether	0.45	2.70	ND	1.88	11.30	ND	
110-54-3	Hexane	0.45	1.13	ND	1.59	3.97	ND	
126-98-7	Methacrylonitrile	0.45	1.13	ND	1.24	3.09	ND	
141-78-6	Ethyl acetate	0.45	1.13	ND	1.62	4.06	ND	
74-97-5	Bromochloromethane	0.23	1.13	ND	1.19	5.96	ND	
96-33-3	Methyl acrylate	0.45	2.25	ND	1.59	7.93	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.23	1.35	0.62	0.67	3.99	1.82	J
78-83-1	Isobutyl alcohol	0.90	3.60	ND	2.73	10.93	ND	
156-59-2	cis-1,2-Dichloroethene	0.23	1.13	ND	0.89	4.46	ND	
594-20-7	2,2-Dichloropropane	0.23	1.13	ND	1.04	5.21	ND	
67-66-3	Chloroform	0.23	1.13	ND	1.10	5.50	ND	
71-55-6	1,1,1-Trichloroethane	0.23	1.13	ND	1.23	6.15	ND	
107-06-2	1,2-Dichloroethane	0.23	1.13	ND	0.91	4.56	ND	
563-58-6	1,1-Dichloropropene	0.23	1.13	ND	1.02	5.11	ND	
110-82-7	Cyclohexane	0.23	1.13	ND	0.78	3.88	ND	
71-43-2	Benzene	1.58	2.25	2.73	5.04	7.20	8.74	
56-23-5	Carbon tetrachloride	0.23	1.13	ND	1.42	7.09	ND	
994-05-8	t-Amyl methyl ether	0.45	2.25	ND	1.88	9.42	ND	
540-84-1	2,2,4-Trimethylpentane	0.23	1.13	ND	1.05	5.26	ND	
142-82-5	n-Heptane	0.45	1.13	ND	1.85	4.62	ND	
78-87-5	1,2-Dichloropropane	0.23	1.13	ND	1.04	5.21	ND	
123-91-1	1,4 Dioxane	0.45	2.25	ND	1.62	8.12	ND	
74-95-3	Dibromomethane	0.23	1.13	ND	1.60	8.01	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.13	ND	0.61	6.05	ND	
75-27-4	Bromodichloromethane	0.23	1.13	ND	1.51	7.55	ND	
80-62-6	Methyl methacrylate	0.45	1.13	ND	1.84	4.61	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.45	3.60	ND	1.85	14.77	ND	
10061-01-5	cis-1,3-Dichloropropene	0.23	1.13	ND	1.02	5.11	ND	
108-88-3	Toluene	0.90	1.13	ND	3.39	4.24	ND	
10061-02-6	trans-1,3-Dichloropropene	0.23	1.13	ND	1.02	5.11	ND	
79-00-5	1,1,2-Trichloroethane	0.23	1.13	ND	1.23	6.15	ND	
97-63-2	Ethyl methacrylate	0.45	1.13	ND	2.10	5.26	ND	
591-78-6	2-Hexanone	0.45	3.60	ND	1.85	14.77	ND	
142-28-9	1,3-Dichloropropane	0.23	3.15	ND	1.04	14.58	ND	
111-65-9	Octane	0.45	1.13	ND	2.10	5.26	ND	
124-48-1	Dibromochloromethane	0.45	1.13	ND	3.84	9.60	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.45	1.13	ND	3.46	8.66	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.13	ND	0.76	7.64	ND	
108-90-7	Chlorobenzene	0.45	1.13	ND	2.08	5.19	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.45	1.13	ND	3.09	7.73	ND	
100-41-4	Ethylbenzene	0.45	1.13	ND	1.96	4.89	ND	
1330-20-7	m,p-Xylenes	0.45	1.13	ND	1.96	4.89	ND	
111-84-2	Nonane	0.45	1.13	ND	2.36	5.91	ND	
100-42-5	Styrene	0.68	1.13	ND	2.88	4.80	ND	
75-25-2	Bromoform	0.45	1.13	ND	4.66	11.64	ND	
95-47-6	o-Xylene	0.45	1.13	ND	1.96	4.89	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.90	2.25	ND	6.19	15.46	ND	
96-18-4	1,2,3-Trichloropropane	0.90	2.70	ND	5.43	16.30	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.90	2.70	ND	4.61	13.82	ND	
103-65-1	n-Propylbenzene	0.90	3.15	ND	4.43	15.51	ND	
98-82-8	Isopropylbenzene	0.90	3.15	ND	4.43	15.51	ND	
622-96-8	4-Ethyltoluene	0.90	7.20	ND	4.43	35.44	ND	
108-67-8	1,3,5-Trimethylbenzene	0.90	4.05	ND	4.43	19.94	ND	
124-18-5	Decane	0.90	2.70	ND	5.25	15.74	ND	
98-06-6	tert-butyl benzene	0.90	2.70	ND	4.95	14.84	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.90	4.05	ND	4.43	19.94	ND	
538-93-2	i-Butylbenzene	0.90	2.70	ND	4.95	14.84	ND	
135-98-8	sec-butylbenzene	0.90	3.15	ND	4.95	17.31	ND	
541-73-1	1,3-Dichlorobenzene	0.90	3.60	ND	5.42	21.67	ND	
99-87-6	Isopropyltoluene	0.90	2.70	3.15	4.95	14.84	17.33	
100-44-7	Benzyl chloride	0.90	2.25	ND	4.67	11.67	ND	
106-46-7	1,4-Dichlorobenzene	0.90	2.25	ND	5.42	13.55	ND	
104-51-8	n-Butylbenzene	0.90	2.70	ND	4.95	14.84	ND	
95-50-1	1,2-Dichlorobenzene	0.90	3.15	ND	5.42	18.96	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.35	3.15	ND	13.06	30.48	ND	
120-82-1	1,2,4-Trichlorobenzene	1.35	2.25	ND	10.03	16.72	ND	
91-20-3	Naphthalene	2.25	0.45	ND	11.81	2.36	ND	
87-61-6	1,2,3-Trichlorobenzene	1.35	2.25	ND	10.03	16.72	ND	
87-68-3	Hexachlorobutadiene	1.13	1.35	ND	12.02	14.42	ND	

	Surrogate Recovery		QC Limits		
2037-26-5	Toluene-d8	% Rec.	LCL	UCL	Flag
		102	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

File Name:	2510030A.D			**SDG:**	**225100**		
Sample ID:	T-212	**Method:**	**TO-15**	**EAS ID:**	**30**		
MiscInfo-Vol:	SCHMIDT	**Matrix:**	**AA**	**Date Sampled:**	**03/20/25**	**Time:**	**11:30**
Anal Date:	2 Apr 125 1:02 pm	**Detect:**	**ND**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
Quant Method:	A15CS2_P.M	**SF:**	**2**	**Date Analyzed:**	**04/02/25**	**Time:**	**13:02**
Run Method:	A1563_P.M	**MDLSF:**	**2**	**QCbatch:**	**040225-MA1**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Type:**	**TRG**	**Volume:**	**300.0**		
Instrument:	5970 - MS	**Instrument:**	**MA1**	**Can (Vial) No:**	**502**		
Analyst:	DA	**EDD SURR:**	**PERCENT**	**Can Factor:**	**1.35**		
Template:	**A15CHIQ.MA1**	**UnitDil:**	**1000** PPBV	**SamType:**	**SA**		
Temp 24.5		**MDL FAC**	**1** UG/M3				
		EFLAG:	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.153	4.41	42.00	20409
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	3.699	4.86	31.00	2211001
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.382	5.72	46.00	29563
107-02-8	Acrolein	12	TRG	0.456	6.32	56.00	32163
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	2.863	6.42	58.00	371195
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.065	6.45	45.00	34993
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.057	7.61	76.00	27304
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.431	8.75	72.00	46855
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.042	9.17	61.00	17761
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.137	9.72	72.00	15910
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.607	10.70	78.00	408735
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.103	13.50	91.00	96489
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.018	15.90	106	23665
1330-20-7	m,p-Xylenes	75	TRG	0.026	16.06	91.00	30565
111-84-2	Nonane	76	TRG	0.018	16.43	57.00	17382
100-42-5	Styrene	77	TRG	0.134	16.61	104.00	110056
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.016	16.56	91.00	19768
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.048	18.31	105.00	70273
124-18-5	Decane	87	TRG	0.025	18.60	57.00	43239
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.033	18.95	105.00	50110
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.701	19.53	119.00	1523012
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.015	20.20	91.00	36678
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**10871582**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**12538050**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**14913012**
2037-26-5	Toluene-d8	103	SURR	10.171	13.40	98.00	**7839637**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 2E+05
Laboratory Number: 30
File Name: 2510030A.D
Run Method: A1563_P.M
Can Factor: 1.35
Air Volume: 300.0 ml
Can/Tube Number: 502
Dilution Factor: 0.4050
Base Volume: 1000 ml
Unit Factor (ppbv): 1000 PPBV UG/M3

EDD SURR: PERCENT
Sam Type: SA
Instrument: MA1
DETECT: ND
Matrix: AA
Type: TRG
Diluton: 0.4050
Sig Figs: 2
MDLSF: 2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.15	0.69	1.18	0.69	1.18	1.18	1.18	0.100	0.250	0.45	0.78	1.13
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.68	3.34	1.13
Methanol	32.0	3.70	16.65	21.82	16.65	21.82	21.82	21.82	0.500	0.600	2.25	2.95	2.70
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.68	1.40	1.13
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.45	3.15	1.13
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	0.58	1.13
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	0.50	1.13
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.45	1.75	1.13
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.45	1.19	1.13
Ethanol	46.1	0.38	1.72	3.25	ND	ND	0		0.500	3.210	2.25	4.25	14.45
Acrolein	56.1	0.46	2.05	4.72	2.05	4.72	4.72	4.72	0.100	0.300	0.45	1.03	1.35
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.45	2.53	1.13
Acetone	58.1	2.86	12.88	30.66	12.88	30.66	30.66	30.66	0.500	0.600	2.25	5.35	2.70
2-propanol (isopropylalcohol)	60.1	0.06	0.29	0.72	ND	ND	0		0.200	1.250	0.90	2.22	5.63
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.45	1.37	4.50
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.45	2.63	1.35
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	0.89	1.13
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.90	1.96	1.35
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.73	1.13
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.23	0.70	4.50
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	0.78	1.13
Carbon disulfide	76.1	0.06	0.26	0.80	ND	ND	0		0.100	0.250	0.45	1.40	1.13
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.23	0.89	0.90
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.45	1.62	0.90
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.13	2.54	1.80
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.91	1.13
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.45	1.88	1.13
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.23	0.79	4.50
2-Butanone (MEK)	72.1	0.43	1.94	5.73	1.94	5.73	5.73	5.73	0.100	0.300	0.45	1.33	1.35
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.45	1.88	2.70
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.45	1.59	1.13
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.45	1.24	1.13
Ethyl acetate	88.1	0.04	0.19	0.69	ND	ND	0		0.100	0.250	0.45	1.62	1.13
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.19	1.13
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.45	1.59	2.25
Tetrahydrofuran	72.1	0.14	0.62	1.82	0.62	1.82	1.82	1.82	0.050	0.300	0.23	0.67	1.35
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.90	2.73	3.60
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	0.89	1.13
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.04	1.13
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.10	1.13
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.23	1.13
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	0.91	1.13
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.02	1.13
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	0.78	1.13
Benzene	78.1	0.61	2.73	8.74	2.73	8.74	8.74	8.74	0.350	0.500	1.58	5.04	2.25
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.42	1.13
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.45	1.88	2.25
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.05	1.13
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.45	1.85	1.13

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.04	1.13
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.45	1.62	2.25
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.60	1.13
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.61	1.13
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.51	1.13
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.45	1.84	1.13
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.45	1.85	3.60
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.02	1.13
Toluene	92.1	0.10	0.46	1.74	ND	ND	0		0.200	0.250	0.90	3.39	1.13
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.02	1.13
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.23	1.13
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.45	2.10	1.13
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.45	1.85	3.60
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.23	1.04	3.15
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.45	2.10	1.13
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.45	3.84	1.13
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.45	3.46	1.13
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.76	1.13
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.45	2.08	1.13
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.45	3.09	1.13
Ethylbenzene	106.2	0.02	0.08	0.35	ND	ND	0		0.100	0.250	0.45	1.96	1.13
m,p-Xylenes	106.2	0.03	0.12	0.50	ND	ND	0		0.100	0.250	0.45	1.96	1.13
Nonane	128.3	0.02	0.08	0.43	ND	ND	0		0.100	0.250	0.45	2.36	1.13
Styrene	104.2	0.13	0.60	2.56	ND	ND	0		0.150	0.250	0.68	2.88	1.13
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.45	4.66	1.13
o-Xylene	106.2	0.02	0.07	0.31	ND	ND	0		0.100	0.250	0.45	1.96	1.13
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.90	6.19	2.25
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.90	5.43	2.70
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.90	4.61	2.70
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.90	4.43	3.15
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.90	4.43	3.15
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.90	4.43	7.20
1,3,5-Trimethylbenzene	120.2	0.05	0.22	1.07	ND	ND	0		0.200	0.900	0.90	4.43	4.05
Decane	142.3	0.02	0.11	0.65	ND	ND	0		0.200	0.600	0.90	5.25	2.70
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.90	4.95	2.70
1,2,4-Trimethylbenzene	120.2	0.03	0.15	0.72	ND	ND	0		0.200	0.900	0.90	4.43	4.05
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.90	4.95	2.70
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.90	4.95	3.15
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.90	5.42	3.60
Isopropyltoluene	134.2	0.70	3.15	17.33	3.15	17.33	17.33	17.33	0.200	0.600	0.90	4.95	2.70
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.90	4.67	2.25
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.90	5.42	2.25
n-Butylbenzene	134.2	0.02	0.07	0.37	ND	ND	0		0.200	0.600	0.90	4.95	2.70
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.90	5.42	3.15
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.35	13.06	3.15
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.35	10.03	2.25
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.25	11.81	0.45
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.35	10.03	2.25
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.13	12.02	1.35
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		10.17	102	102	102	102	102	102	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.94	J	J		=		Y	0.69	1.18
5.57	U	ND		ND		Y	0.00	0.00
3.54				=		Y	16.65	21.82
2.33	U	ND		ND		Y	0.00	0.00
7.87	U	ND		ND		Y	0.00	0.00
2.88	U	ND		ND		Y	0.00	0.00
2.49	U	ND		ND		Y	0.00	0.00
4.37	U	ND		ND		Y	0.00	0.00
2.97	U	ND		ND		Y	0.00	0.00
27.27	U	ND		ND		Y	0.00	0.00
3.10				=		Y	2.05	4.72
6.33	U	ND		ND		Y	0.00	0.00
6.42				=		Y	12.88	30.66
13.85	U	ND		ND		Y	0.00	0.00
13.66	U	ND		ND		Y	0.00	0.00
7.90	U	ND		ND		Y	0.00	0.00
4.46	U	ND		ND		Y	0.00	0.00
2.94	U	ND		ND		Y	0.00	0.00
8.63	U	ND		ND		Y	0.00	0.00
14.10	U	ND		ND		Y	0.00	0.00
3.91	U	ND		ND		Y	0.00	0.00
3.51	U	ND		ND		Y	0.00	0.00
3.57	U	ND		ND		Y	0.00	0.00
3.25	U	ND		ND		Y	0.00	0.00
4.06	U	ND		ND		Y	0.00	0.00
4.56	U	ND		ND		Y	0.00	0.00
4.71	U	ND		ND		Y	0.00	0.00
15.87	U	ND		ND		Y	0.00	0.00
3.99				=		Y	1.94	5.73
11.30	U	ND		ND		Y	0.00	0.00
3.97	U	ND		ND		Y	0.00	0.00
3.09	U	ND		ND		Y	0.00	0.00
4.06	U	ND		ND		Y	0.00	0.00
5.96	U	ND		ND		Y	0.00	0.00
7.93	U	ND		ND		Y	0.00	0.00
3.99	J	J		=		Y	0.62	1.82
10.93	U	ND		ND		Y	0.00	0.00
4.46	U	ND		ND		Y	0.00	0.00
5.21	U	ND		ND		Y	0.00	0.00
5.50	U	ND		ND		Y	0.00	0.00
6.15	U	ND		ND		Y	0.00	0.00
4.56	U	ND		ND		Y	0.00	0.00
5.11	U	ND		ND		Y	0.00	0.00
3.88	U	ND		ND		Y	0.00	0.00
7.20				=		Y	2.73	8.74
7.09	U	ND		ND		Y	0.00	0.00
9.42	U	ND		ND		Y	0.00	0.00
5.26	U	ND		ND		Y	0.00	0.00
4.62	U	ND		ND		Y	0.00	0.00

5.21	U	ND	ND	Y	0.00	0.00
8.12	U	ND	ND	Y	0.00	0.00
8.01	U	ND	ND	Y	0.00	0.00
6.05	U	ND	ND	Y	0.00	0.00
7.55	U	ND	ND	Y	0.00	0.00
4.61	U	ND	ND	Y	0.00	0.00
14.77	U	ND	ND	Y	0.00	0.00
5.11	U	ND	ND	Y	0.00	0.00
4.24	U	ND	ND	Y	0.00	0.00
5.11	U	ND	ND	Y	0.00	0.00
6.15	U	ND	ND	Y	0.00	0.00
5.26	U	ND	ND	Y	0.00	0.00
14.77	U	ND	ND	Y	0.00	0.00
14.58	U	ND	ND	Y	0.00	0.00
5.26	U	ND	ND	Y	0.00	0.00
9.60	U	ND	ND	Y	0.00	0.00
8.66	U	ND	ND	Y	0.00	0.00
7.64	U	ND	ND	Y	0.00	0.00
5.19	U	ND	ND	Y	0.00	0.00
7.73	U	ND	ND	Y	0.00	0.00
4.89	U	ND	ND	Y	0.00	0.00
4.89	U	ND	ND	Y	0.00	0.00
5.91	U	ND	ND	Y	0.00	0.00
4.80	U	ND	ND	Y	0.00	0.00
11.64	U	ND	ND	Y	0.00	0.00
4.89	U	ND	ND	Y	0.00	0.00
15.46	U	ND	ND	Y	0.00	0.00
16.30	U	ND	ND	Y	0.00	0.00
13.82	U	ND	ND	Y	0.00	0.00
15.51	U	ND	ND	Y	0.00	0.00
15.51	U	ND	ND	Y	0.00	0.00
35.44	U	ND	ND	Y	0.00	0.00
19.94	U	ND	ND	Y	0.00	0.00
15.74	U	ND	ND	Y	0.00	0.00
14.84	U	ND	ND	Y	0.00	0.00
19.94	U	ND	ND	Y	0.00	0.00
14.84	U	ND	ND	Y	0.00	0.00
17.31	U	ND	ND	Y	0.00	0.00
21.67	U	ND	ND	Y	0.00	0.00
14.84			=	Y	3.15	17.33
11.67	U	ND	ND	Y	0.00	0.00
13.55	U	ND	ND	Y	0.00	0.00
14.84	U	ND	ND	Y	0.00	0.00
18.96	U	ND	ND	Y	0.00	0.00
30.48	U	ND	ND	Y	0.00	0.00
16.72	U	ND	ND	Y	0.00	0.00
2.36	U	ND	ND	Y	0.00	0.00
16.72	U	ND	ND	Y	0.00	0.00
14.42	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**30**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.35
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\frac{(Astdni)\ (Cistdi)}{(Cstdni)\ (Aistdi)}$ Note: 1 i

2) Raw Amt = $\frac{(Ansamp)\ (Cistdi)}{(Avg\ RFn)\ (Aistdi)}$ = **Cn**

3) Amount ppbv = $\frac{(Raw\ Amt)\ 1000\ (CDF)}{(SV)}$

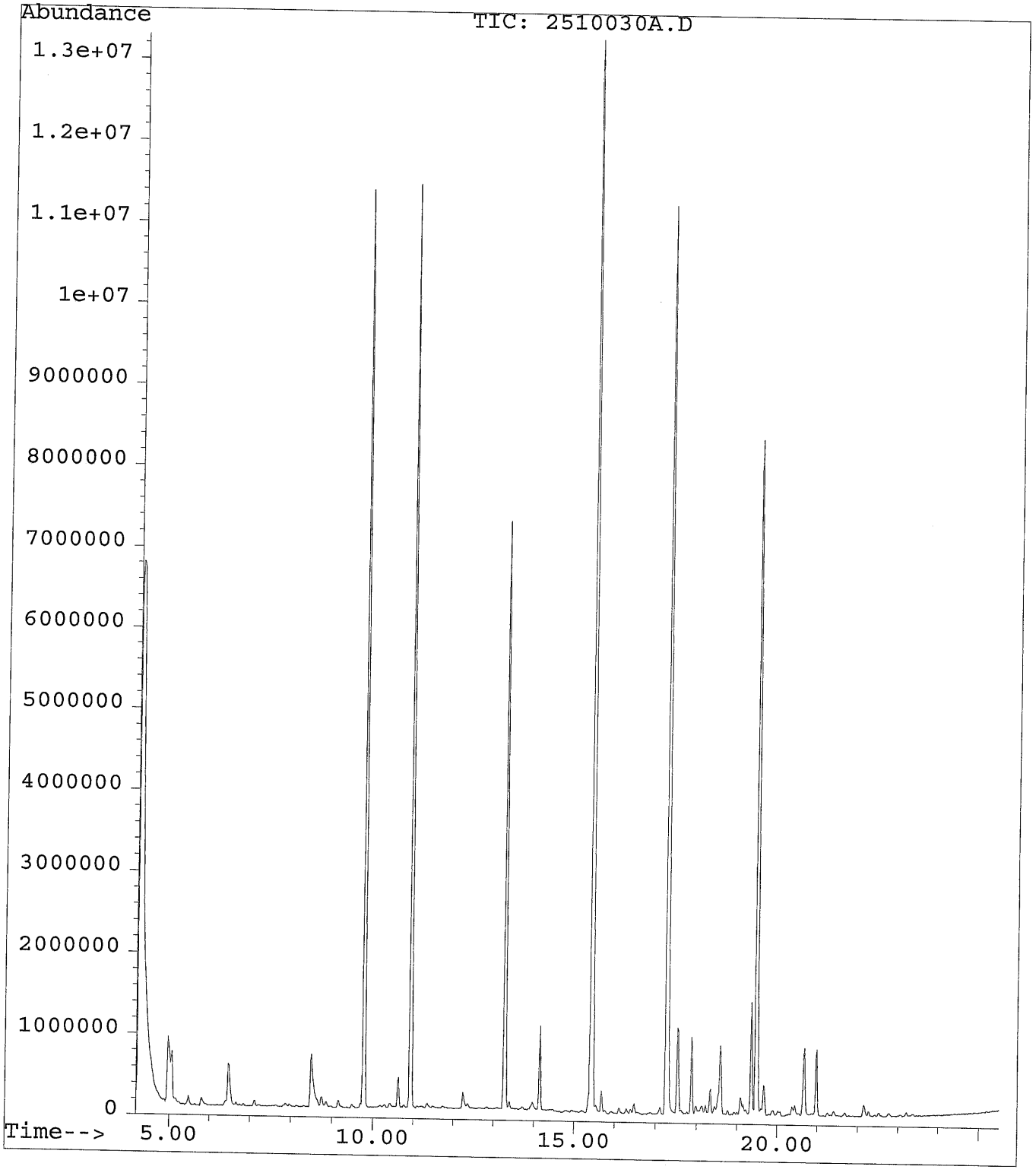
4) Amount ug/m3 = $\frac{(amt(ppbv)\ MW}{24.42}$

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	20409	20.0	10871582	0.153	0.69	1.18
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	10871582	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	2211001	20.0	10871582	3.699	16.65	21.82
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	10871582	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	10871582	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	10871582	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	10871582	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	10871582	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	10871582	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	29563	20.0	10871582	0.382	1.72	3.25
12	Acrolein	PFB	TRG	56.1	0.130	32163	20.0	10871582	0.456	2.05	4.72
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	10871582	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	371195	20.0	10871582	2.863	12.88	30.66
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	34993	20.0	10871582	0.065	0.29	0.72
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	10871582	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	10871582	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	10871582	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	10871582	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	10871582	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	10871582	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	10871582	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	27304	20.0	10871582	0.057	0.26	0.80
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	10871582	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	10871582	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	10871582	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	10871582	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	10871582	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	10871582	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	46855	20.0	10871582	0.431	1.94	5.73
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	10871582	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	10871582	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	10871582	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	17761	20.0	10871582	0.042	0.19	0.69
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	10871582	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	10871582	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	15910	20.0	10871582	0.137	0.62	1.82
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	10871582	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	10871582	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	10871582	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	10871582	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	12538050	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	12538050	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	12538050	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	12538050	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	408735	20.0	12538050	0.607	2.73	8.74
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	12538050	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	12538050	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	12538050	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	12538050	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	12538050	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	12538050	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	12538050	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	12538050	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	12538050	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	12538050	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	12538050	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	12538050	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	96489	20.0	12538050	0.103	0.46	1.74
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	12538050	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	12538050	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	12538050	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	12538050	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	12538050	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	12538050	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	12538050	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	12538050	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	12538050	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	14913012	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	14913012	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	23665	20.0	14913012	0.018	0.08	0.35
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	30565	20.0	14913012	0.026	0.12	0.50
76	Nonane	d5CB	TRG	128.3	1.278	17382	20.0	14913012	0.018	0.08	0.43
77	Styrene	d5CB	TRG	104.2	1.106	110056	20.0	14913012	0.134	0.60	2.56
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	14913012	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	19768	20.0	14913012	0.016	0.07	0.31
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	14913012	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	14913012	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	14913012	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	14913012	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	14913012	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	14913012	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	70273	20.0	14913012	0.048	0.22	1.07
87	Decane	d5CB	TRG	142.3	2.327	43239	20.0	14913012	0.025	0.11	0.65
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	14913012	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	50110	20.0	14913012	0.033	0.15	0.72
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	14913012	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	14913012	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	14913012	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	1523012	20.0	14913012	0.701	3.15	17.33
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	14913012	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	14913012	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	36678	20.0	14913012	0.015	0.07	0.37
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	14913012	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	14913012	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	14913012	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	14913012	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	14913012	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	14913012	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	10871582	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	12538050	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	14913012	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	7839637	10.0		10.171	101.71	102

File : C:\MSCHEM\1\DATA\04025A_C\2510030A.D
Operator : DA
Acquired : 2 Apr 125 1:02 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-212
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number 225100

Lab Id Number 31

Client ID T-213

Analytical Method TO-15

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Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 31**

File Name: 2510031A.D
Description: T-213
Canister: 712
QC_Batch: 040225-MA1

Date Sampled: 03/20/25 **Time:** 11:30
Date Analyzed: 04/02/25 **Time:** 13:39
Can Dilution Factor: 1.33
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.44	1.11	0.76	0.76	1.91	1.31	J
75-71-8	Dichlorodifluoromethane	0.67	1.11	ND	3.29	5.49	ND	
67-56-1	Methanol	2.22	2.66	15.52	2.91	3.49	20.33	
74-87-3	Chloromethane	0.67	1.11	ND	1.38	2.29	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.44	1.11	ND	3.10	7.76	ND	
75-01-4	Vinyl chloride	0.22	1.11	ND	0.57	2.84	ND	
106-99-0	1,3-Butadiene	0.22	1.11	ND	0.49	2.46	ND	
74-83-9	Bromomethane	0.44	1.11	ND	1.72	4.31	ND	
75-00-3	Chloroethane	0.44	1.11	ND	1.17	2.93	ND	
64-17-5	Ethanol	2.22	14.23	2.49	4.19	26.87	4.71	J
107-02-8	Acrolein	0.44	1.33	2.46	1.02	3.06	5.66	
75-69-4	Trichlorofluoromethane	0.44	1.11	ND	2.49	6.24	ND	
67-64-1	Acetone	2.22	2.66	9.28	5.27	6.33	22.09	
67-63-0	2-propanol (isopropylalcohol)	0.89	5.54	ND	2.18	13.64	ND	
75-65-0	t-Butyl alcohol	0.44	4.43	ND	1.35	13.45	ND	
4227-95-6	Methyl iodide	0.44	1.33	ND	2.59	7.78	ND	
75-35-4	1,1-Dichloroethene	0.22	1.11	ND	0.88	4.40	ND	
107-13-1	Acrylonitrile	0.89	1.33	ND	1.93	2.89	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.22	1.11	ND	1.70	8.51	ND	
107-05-1	Allyl chloride	0.22	4.43	ND	0.69	13.89	ND	
75-09-2	Methylene chloride	0.22	1.11	ND	0.77	3.85	ND	
75-15-0	Carbon disulfide	0.44	1.11	8.00	1.38	3.45	24.93	
156-60-5	trans-1,2-Dichloroethene	0.22	0.89	ND	0.88	3.52	ND	
1634-04-4	Methyl tert butyl ether	0.44	0.89	ND	1.60	3.20	ND	
107-12-0	Propionitrile	1.11	1.77	ND	2.50	4.00	ND	
75-34-3	1,1-Dichloroethane	0.22	1.11	ND	0.90	4.49	ND	
637-92-3	Ethyl tert butyl ether	0.44	1.11	ND	1.86	4.64	ND	
108-05-4	Vinyl acetate	0.22	4.43	ND	0.78	15.63	ND	
78-93-3	2-Butanone (MEK)	0.44	1.33	1.15	1.31	3.93	3.40	J
108-20-3	Diisopropyl ether	0.44	2.66	ND	1.86	11.13	ND	
110-54-3	Hexane	0.44	1.11	ND	1.57	3.91	ND	
126-98-7	Methacrylonitrile	0.44	1.11	ND	1.22	3.05	ND	
141-78-6	Ethyl acetate	0.44	1.11	ND	1.60	4.00	ND	
74-97-5	Bromochloromethane	0.22	1.11	ND	1.17	5.87	ND	
96-33-3	Methyl acrylate	0.44	2.22	ND	1.56	7.82	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.22	1.33	0.67	0.66	3.93	1.97	J
78-83-1	Isobutyl alcohol	0.89	3.55	ND	2.69	10.76	ND	
156-59-2	cis-1,2-Dichloroethene	0.22	1.11	ND	0.88	4.40	ND	
594-20-7	2,2-Dichloropropane	0.22	1.11	ND	1.03	5.13	ND	
67-66-3	Chloroform	0.22	1.11	ND	1.09	5.42	ND	
71-55-6	1,1,1-Trichloroethane	0.22	1.11	ND	1.21	6.06	ND	
107-06-2	1,2-Dichloroethane	0.22	1.11	ND	0.90	4.49	ND	
563-58-6	1,1-Dichloropropene	0.22	1.11	ND	1.01	5.04	ND	
110-82-7	Cyclohexane	0.22	1.11	ND	0.76	3.82	ND	
71-43-2	Benzene	1.55	2.22	3.27	4.96	7.09	10.47	
56-23-5	Carbon tetrachloride	0.22	1.11	ND	1.40	6.98	ND	
994-05-8	t-Amyl methyl ether	0.44	2.22	ND	1.86	9.28	ND	
540-84-1	2,2,4-Trimethylpentane	0.22	1.11	ND	1.04	5.18	ND	
142-82-5	n-Heptane	0.44	1.11	ND	1.82	4.55	ND	
78-87-5	1,2-Dichloropropane	0.22	1.11	ND	1.03	5.13	ND	
123-91-1	1,4 Dioxane	0.44	2.22	ND	1.60	8.00	ND	
74-95-3	Dibromomethane	0.22	1.11	ND	1.58	7.89	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.11	ND	0.60	5.96	ND	
75-27-4	Bromodichloromethane	0.22	1.11	ND	1.49	7.44	ND	
80-62-6	Methyl methacrylate	0.44	1.11	ND	1.82	4.54	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.44	3.55	ND	1.82	14.55	ND	
10061-01-5	cis-1,3-Dichloropropene	0.22	1.11	ND	1.01	5.04	ND	
108-88-3	Toluene	0.89	1.11	ND	3.34	4.18	ND	
10061-02-6	trans-1,3-Dichloropropene	0.22	1.11	ND	1.01	5.04	ND	
79-00-5	1,1,2-Trichloroethane	0.22	1.11	ND	1.21	6.06	ND	
97-63-2	Ethyl methacrylate	0.44	1.11	ND	2.07	5.18	ND	
591-78-6	2-Hexanone	0.44	3.55	ND	1.82	14.55	ND	
142-28-9	1,3-Dichloropropane	0.22	3.10	ND	1.03	14.36	ND	
111-65-9	Octane	0.44	1.11	ND	2.07	5.18	ND	
124-48-1	Dibromochloromethane	0.44	1.11	ND	3.78	9.46	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.44	1.11	ND	3.41	8.53	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.11	ND	0.75	7.53	ND	
108-90-7	Chlorobenzene	0.44	1.11	ND	2.04	5.11	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.44	1.11	ND	3.05	7.62	ND	
100-41-4	Ethylbenzene	0.44	1.11	ND	1.93	4.82	ND	
1330-20-7	m,p-Xylenes	0.44	1.11	ND	1.93	4.82	ND	
111-84-2	Nonane	0.44	1.11	ND	2.33	5.82	ND	
100-42-5	Styrene	0.67	1.11	ND	2.84	4.73	ND	
75-25-2	Bromoform	0.44	1.11	ND	4.59	11.47	ND	
95-47-6	o-Xylene	0.44	1.11	ND	1.93	4.82	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.89	2.22	ND	6.09	15.23	ND	
96-18-4	1,2,3-Trichloropropane	0.89	2.66	ND	5.35	16.06	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.89	2.66	ND	4.54	13.62	ND	
103-65-1	n-Propylbenzene	0.89	3.10	ND	4.36	15.28	ND	
98-82-8	Isopropylbenzene	0.89	3.10	ND	4.36	15.28	ND	
622-96-8	4-Ethyltoluene	0.89	7.09	ND	4.36	34.92	ND	
108-67-8	1,3,5-Trimethylbenzene	0.89	3.99	ND	4.36	19.64	ND	
124-18-5	Decane	0.89	2.66	ND	5.17	15.50	ND	
98-06-6	tert-butyl benzene	0.89	2.66	ND	4.87	14.62	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.89	3.99	ND	4.36	19.64	ND	
538-93-2	i-Butylbenzene	0.89	2.66	ND	4.87	14.62	ND	
135-98-8	sec-butylbenzene	0.89	3.10	ND	4.87	17.06	ND	
541-73-1	1,3-Dichlorobenzene	0.89	3.55	ND	5.34	21.35	ND	
99-87-6	Isopropyltoluene	0.89	2.66	ND	4.87	14.62	ND	
100-44-7	Benzyl chloride	0.89	2.22	ND	4.60	11.49	ND	
106-46-7	1,4-Dichlorobenzene	0.89	2.22	ND	5.34	13.35	ND	
104-51-8	n-Butylbenzene	0.89	2.66	ND	4.87	14.62	ND	
95-50-1	1,2-Dichlorobenzene	0.89	3.10	ND	5.34	18.68	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.33	3.10	ND	12.87	30.03	ND	
120-82-1	1,2,4-Trichlorobenzene	1.33	2.22	ND	9.88	16.47	ND	
91-20-3	Naphthalene	2.22	0.44	ND	11.64	2.33	ND	
87-61-6	1,2,3-Trichlorobenzene	1.33	2.22	ND	9.88	16.47	ND	
87-68-3	Hexachlorobutadiene	1.11	1.33	ND	11.84	14.21	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	130	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**31**		
File Name:	2510031A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/20/25**	**Time:**	**11:30**
Sample ID:	T-213	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/02/25**	**Time:**	**13:39**
Anal Date:	2 Apr 125 1:39 pm	**SF:**	**2**	**QCbatch:**	**040225-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**712**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.33**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	DA	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.171	4.41	42.00	21633
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	3.500	4.86	31.00	1972905
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoretha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.563	5.72	46.00	41048
107-02-8	Acrolein	12	TRG	0.556	6.32	56.00	36924
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	2.094	6.42	58.00	256059
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.060	6.45	45.00	30828
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoretha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	1.804	7.61	76.00	816861
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.260	8.75	72.00	26643
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.150	9.72	72.00	16443
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.738	10.70	78.00	494866
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.072	13.50	91.00	67721
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.021	15.90	106	26737
1330-20-7	m,p-Xylenes	75	TRG	0.089	16.06	91.00	100929
111-84-2	Nonane	76	TRG	0.033	16.43	57.00	29958
100-42-5	Styrene	77	TRG	0.054	16.61	104.00	43054
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.039	16.56	91.00	46972
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.024	18.23	105.00	36670
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.043	18.31	105.00	60067
124-18-5	Decane	87	TRG	0.028	18.60	57.00	47176
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.026	18.95	105.00	38568
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.164	19.53	119.00	343250
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**10253801**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**12490368**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**14337593**
2037-26-5	Toluene-d8	103	SURR	12.962	13.40	98.00	**9952600**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**31**
File Name:	2510031A.D
Run Method:	A1563_P.M
Can Factor:	1.33
Air Volume:	300.0 ml
Can/Tube Number:	712
Dilution Factor:	0.3990
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3990
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.17	0.76	1.31	0.76	1.31	1.31	1.31	**0.100**	**0.250**	0.44	0.76	1.11
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	0.67	3.29	1.11
Methanol	32.0	3.50	15.52	20.33	15.52	20.33	20.33	20.33	**0.500**	**0.600**	2.22	2.91	2.66
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	0.67	1.38	1.11
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.44	3.10	1.11
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	0.57	1.11
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	0.49	1.11
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.44	1.72	1.11
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.44	1.17	1.11
Ethanol	46.1	0.56	2.49	4.71	2.49	4.71	4.71	4.71	**0.500**	**3.210**	2.22	4.19	14.23
Acrolein	56.1	0.56	2.46	5.66	2.46	5.66	5.66	5.66	**0.100**	**0.300**	0.44	1.02	1.33
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.44	2.49	1.11
Acetone	58.1	2.09	9.28	22.09	9.28	22.09	22.09	22.09	**0.500**	**0.600**	2.22	5.27	2.66
2-propanol (isopropylalcohol)	60.1	0.06	0.27	0.66	ND	ND	0		**0.200**	**1.250**	0.89	2.18	5.54
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**1.000**	0.44	1.35	4.43
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	0.44	2.59	1.33
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	0.88	1.11
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.300**	0.89	1.93	1.33
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	1.70	1.11
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	0.22	0.69	4.43
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	0.77	1.11
Carbon disulfide	76.1	1.80	8.00	24.93	8.00	24.93	24.93	24.93	**0.100**	**0.250**	0.44	1.38	1.11
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.200**	0.22	0.88	0.89
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.200**	0.44	1.60	0.89
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		**0.250**	**0.400**	1.11	2.50	1.77
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	0.90	1.11
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.44	1.86	1.11
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	0.22	0.78	4.43
2-Butanone (MEK)	72.1	0.26	1.15	3.40	1.15	3.40	3.40	3.40	**0.100**	**0.300**	0.44	1.31	1.33
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.600**	0.44	1.86	2.66
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.44	1.57	1.11
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.44	1.22	1.11
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.44	1.60	1.11
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	1.17	1.11
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.44	1.56	2.22
Tetrahydrofuran	72.1	0.15	0.67	1.97	0.67	1.97	1.97	1.97	**0.050**	**0.300**	0.22	0.66	1.33
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.800**	0.89	2.69	3.55
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	0.88	1.11
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	1.03	1.11
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	1.09	1.11
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	1.21	1.11
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	0.90	1.11
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	1.01	1.11
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	0.76	1.11
Benzene	78.1	0.74	3.27	10.47	3.27	10.47	10.47	10.47	**0.350**	**0.500**	1.55	4.96	2.22
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	1.40	1.11
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.44	1.86	2.22
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.22	1.04	1.11
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.44	1.82	1.11

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.03	1.11
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.44	1.60	2.22
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.58	1.11
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.60	1.11
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.49	1.11
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.82	1.11
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.44	1.82	3.55
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.01	1.11
Toluene	92.1	0.07	0.32	1.21	ND	ND	0		0.200	0.250	0.89	3.34	1.11
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.01	1.11
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.21	1.11
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	2.07	1.11
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.44	1.82	3.55
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.22	1.03	3.10
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	2.07	1.11
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	3.78	1.11
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	3.41	1.11
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.75	1.11
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	2.04	1.11
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	3.05	1.11
Ethylbenzene	106.2	0.02	0.09	0.40	ND	ND	0		0.100	0.250	0.44	1.93	1.11
m,p-Xylenes	106.2	0.09	0.39	1.71	ND	ND	0		0.100	0.250	0.44	1.93	1.11
Nonane	128.3	0.03	0.14	0.76	ND	ND	0		0.100	0.250	0.44	2.33	1.11
Styrene	104.2	0.05	0.24	1.03	ND	ND	0		0.150	0.250	0.67	2.84	1.11
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	4.59	1.11
o-Xylene	106.2	0.04	0.17	0.76	ND	ND	0		0.100	0.250	0.44	1.93	1.11
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.89	6.09	2.22
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.89	5.35	2.66
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.89	4.54	2.66
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.89	4.36	3.10
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.89	4.36	3.10
4-Ethyltoluene	120.2	0.02	0.10	0.51	ND	ND	0		0.200	1.600	0.89	4.36	7.09
1,3,5-Trimethylbenzene	120.2	0.04	0.19	0.94	ND	ND	0		0.200	0.900	0.89	4.36	3.99
Decane	142.3	0.03	0.13	0.73	ND	ND	0		0.200	0.600	0.89	5.17	2.66
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.89	4.87	2.66
1,2,4-Trimethylbenzene	120.2	0.03	0.12	0.57	ND	ND	0		0.200	0.900	0.89	4.36	3.99
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.89	4.87	2.66
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.89	4.87	3.10
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.89	5.34	3.55
Isopropyltoluene	134.2	0.16	0.73	4.00	ND	ND	0		0.200	0.600	0.89	4.87	2.66
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.89	4.60	2.22
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.89	5.34	2.22
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.89	4.87	2.66
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.89	5.34	3.10
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.33	12.87	3.10
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.33	9.88	2.22
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.22	11.64	0.44
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.33	9.88	2.22
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.11	11.84	1.33
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		12.96	130	130	130	130	130	130	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.91	J	J		=		Y	0.76	1.31
5.49	U	ND		ND		Y	0.00	0.00
3.49				=		Y	15.52	20.33
2.29	U	ND		ND		Y	0.00	0.00
7.76	U	ND		ND		Y	0.00	0.00
2.84	U	ND		ND		Y	0.00	0.00
2.46	U	ND		ND		Y	0.00	0.00
4.31	U	ND		ND		Y	0.00	0.00
2.93	U	ND		ND		Y	0.00	0.00
26.87	J	J		=		Y	2.49	4.71
3.06				=		Y	2.46	5.66
6.24	U	ND		ND		Y	0.00	0.00
6.33				=		Y	9.28	22.09
13.64	U	ND		ND		Y	0.00	0.00
13.45	U	ND		ND		Y	0.00	0.00
7.78	U	ND		ND		Y	0.00	0.00
4.40	U	ND		ND		Y	0.00	0.00
2.89	U	ND		ND		Y	0.00	0.00
8.51	U	ND		ND		Y	0.00	0.00
13.89	U	ND		ND		Y	0.00	0.00
3.85	U	ND		ND		Y	0.00	0.00
3.45				=		Y	8.00	24.93
3.52	U	ND		ND		Y	0.00	0.00
3.20	U	ND		ND		Y	0.00	0.00
4.00	U	ND		ND		Y	0.00	0.00
4.49	U	ND		ND		Y	0.00	0.00
4.64	U	ND		ND		Y	0.00	0.00
15.63	U	ND		ND		Y	0.00	0.00
3.93	J	J		=		Y	1.15	3.40
11.13	U	ND		ND		Y	0.00	0.00
3.91	U	ND		ND		Y	0.00	0.00
3.05	U	ND		ND		Y	0.00	0.00
4.00	U	ND		ND		Y	0.00	0.00
5.87	U	ND		ND		Y	0.00	0.00
7.82	U	ND		ND		Y	0.00	0.00
3.93	J	J		=		Y	0.67	1.97
10.76	U	ND		ND		Y	0.00	0.00
4.40	U	ND		ND		Y	0.00	0.00
5.13	U	ND		ND		Y	0.00	0.00
5.42	U	ND		ND		Y	0.00	0.00
6.06	U	ND		ND		Y	0.00	0.00
4.49	U	ND		ND		Y	0.00	0.00
5.04	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
7.09				=		Y	3.27	10.47
6.98	U	ND		ND		Y	0.00	0.00
9.28	U	ND		ND		Y	0.00	0.00
5.18	U	ND		ND		Y	0.00	0.00
4.55	U	ND		ND		Y	0.00	0.00

5.13	U	ND	ND	Y	0.00	0.00
8.00	U	ND	ND	Y	0.00	0.00
7.89	U	ND	ND	Y	0.00	0.00
5.96	U	ND	ND	Y	0.00	0.00
7.44	U	ND	ND	Y	0.00	0.00
4.54	U	ND	ND	Y	0.00	0.00
14.55	U	ND	ND	Y	0.00	0.00
5.04	U	ND	ND	Y	0.00	0.00
4.18	U	ND	ND	Y	0.00	0.00
5.04	U	ND	ND	Y	0.00	0.00
6.06	U	ND	ND	Y	0.00	0.00
5.18	U	ND	ND	Y	0.00	0.00
14.55	U	ND	ND	Y	0.00	0.00
14.36	U	ND	ND	Y	0.00	0.00
5.18	U	ND	ND	Y	0.00	0.00
9.46	U	ND	ND	Y	0.00	0.00
8.53	U	ND	ND	Y	0.00	0.00
7.53	U	ND	ND	Y	0.00	0.00
5.11	U	ND	ND	Y	0.00	0.00
7.62	U	ND	ND	Y	0.00	0.00
4.82	U	ND	ND	Y	0.00	0.00
4.82	U	ND	ND	Y	0.00	0.00
5.82	U	ND	ND	Y	0.00	0.00
4.73	U	ND	ND	Y	0.00	0.00
11.47	U	ND	ND	Y	0.00	0.00
4.82	U	ND	ND	Y	0.00	0.00
15.23	U	ND	ND	Y	0.00	0.00
16.06	U	ND	ND	Y	0.00	0.00
13.62	U	ND	ND	Y	0.00	0.00
15.28	U	ND	ND	Y	0.00	0.00
15.28	U	ND	ND	Y	0.00	0.00
34.92	U	ND	ND	Y	0.00	0.00
19.64	U	ND	ND	Y	0.00	0.00
15.50	U	ND	ND	Y	0.00	0.00
14.62	U	ND	ND	Y	0.00	0.00
19.64	U	ND	ND	Y	0.00	0.00
14.62	U	ND	ND	Y	0.00	0.00
17.06	U	ND	ND	Y	0.00	0.00
21.35	U	ND	ND	Y	0.00	0.00
14.62	U	ND	ND	Y	0.00	0.00
11.49	U	ND	ND	Y	0.00	0.00
13.35	U	ND	ND	Y	0.00	0.00
14.62	U	ND	ND	Y	0.00	0.00
18.68	U	ND	ND	Y	0.00	0.00
30.03	U	ND	ND	Y	0.00	0.00
16.47	U	ND	ND	Y	0.00	0.00
2.33	U	ND	ND	Y	0.00	0.00
16.47	U	ND	ND	Y	0.00	0.00
14.21	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**31**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.33
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) **= Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

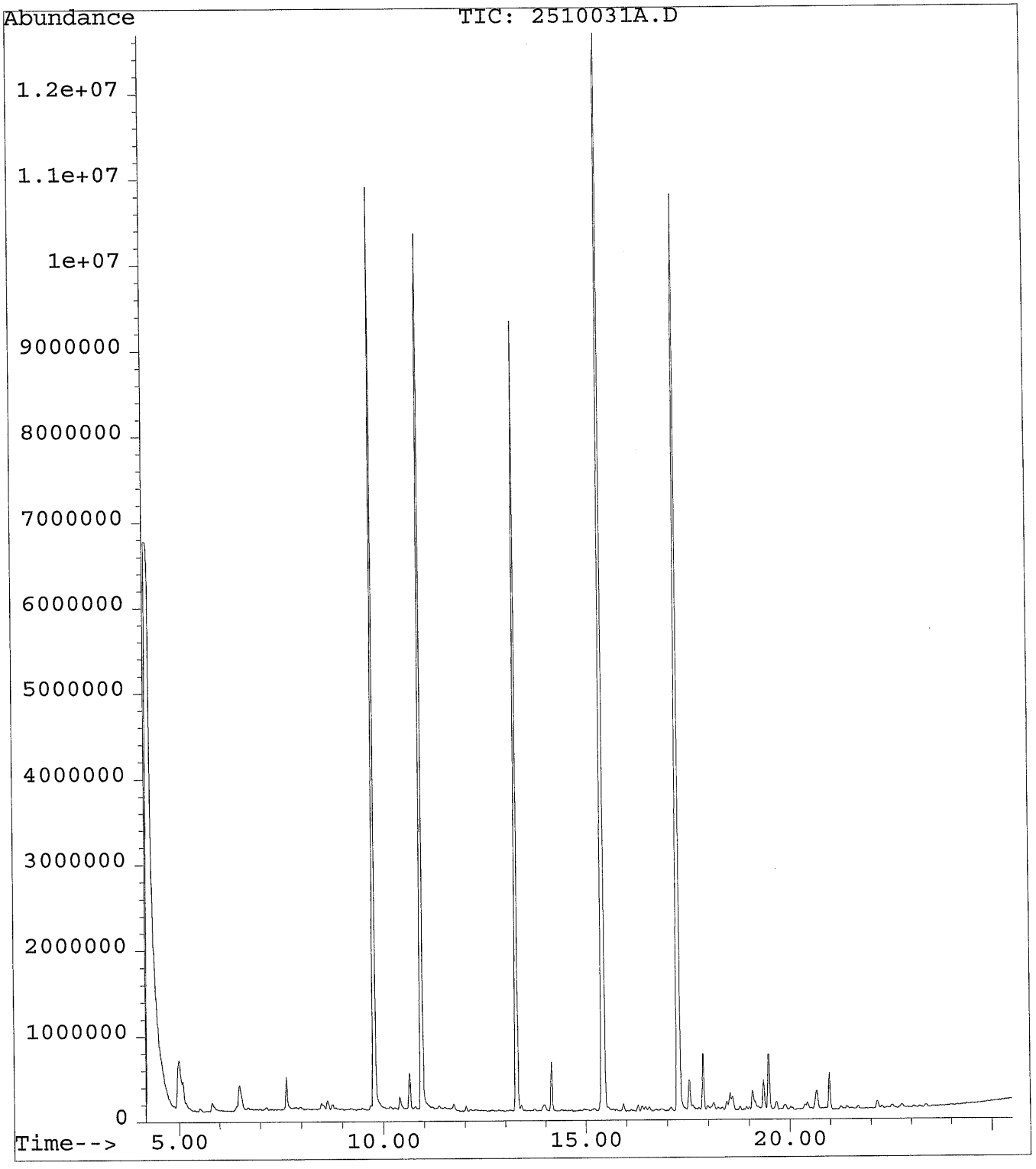
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	21633	20.0	10253801	0.171	0.76	1.31
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	10253801	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	1972905	20.0	10253801	3.500	15.52	20.33
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	10253801	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	10253801	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	10253801	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	10253801	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	10253801	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	10253801	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	41048	20.0	10253801	0.563	2.49	4.71
12	Acrolein	PFB	TRG	56.1	0.130	36924	20.0	10253801	0.556	2.46	5.66
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	10253801	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	256059	20.0	10253801	2.094	9.28	22.09
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	30828	20.0	10253801	0.060	0.27	0.66
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	10253801	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	10253801	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	10253801	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	10253801	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	10253801	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	10253801	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	10253801	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	816861	20.0	10253801	1.804	8.00	24.93
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	10253801	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	10253801	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	10253801	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	10253801	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	10253801	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	10253801	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	26643	20.0	10253801	0.260	1.15	3.40
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	10253801	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	10253801	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	10253801	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	10253801	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	10253801	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	10253801	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	16443	20.0	10253801	0.150	0.67	1.97
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	10253801	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	10253801	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	10253801	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	10253801	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	12490368	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	12490368	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	12490368	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	12490368	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	494866	20.0	12490368	0.738	3.27	10.47
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	12490368	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	12490368	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	12490368	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	12490368	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	12490368	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	12490368	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	12490368	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	12490368	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	12490368	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	12490368	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	12490368	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	12490368	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	67721	20.0	12490368	0.072	0.32	1.21
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	12490368	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	12490368	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	12490368	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	12490368	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	12490368	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	12490368	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	12490368	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	12490368	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	12490368	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	14337593	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	14337593	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	26737	20.0	14337593	0.021	0.09	0.40
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	100929	20.0	14337593	0.089	0.39	1.71
76	Nonane	d5CB	TRG	128.3	1.278	29958	20.0	14337593	0.033	0.14	0.76
77	Styrene	d5CB	TRG	104.2	1.106	43054	20.0	14337593	0.054	0.24	1.03
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	14337593	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	46972	20.0	14337593	0.039	0.17	0.76
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	14337593	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	14337593	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	14337593	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	14337593	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	14337593	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	36670	20.0	14337593	0.024	0.10	0.51
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	60067	20.0	14337593	0.043	0.19	0.94
87	Decane	d5CB	TRG	142.3	2.327	47176	20.0	14337593	0.028	0.13	0.73
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	14337593	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	38568	20.0	14337593	0.026	0.12	0.57
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	14337593	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	14337593	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	14337593	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	343250	20.0	14337593	0.164	0.73	4.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	14337593	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	14337593	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	14337593	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	14337593	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	14337593	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	14337593	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	14337593	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	14337593	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	14337593	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	10253801	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	12490368	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	14337593	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9952600	10.0		12.962	129.62	130

File : C:\MSCHEM\1\DATA\04025A_C\2510031A.D
Operator : DA
Acquired : 2 Apr 125 1:39 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-213
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number 225100

Lab Id Number 32

Client ID T-214

Analytical Method TO-15

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Analytical Report
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Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 32

File Name: 2510032A.D
Description: T-214
Canister: 610
QC_Batch: 033125-MA1

Date Sampled: 03/20/25 **Time:** 12:57
Date Analyzed: 03/31/25 **Time:** 13:08
Can Dilution Factor: 1.11
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.37	0.93	ND	0.64	1.59	ND	
75-71-8	Dichlorodifluoromethane	0.56	0.93	ND	2.75	4.58	ND	
67-56-1	Methanol	1.85	2.22	ND	2.42	2.91	ND	
74-87-3	Chloromethane	0.56	0.93	ND	1.15	1.91	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.37	0.93	ND	2.59	6.47	ND	
75-01-4	Vinyl chloride	0.19	0.93	ND	0.48	2.37	ND	
106-99-0	1,3-Butadiene	0.19	0.93	ND	0.41	2.05	ND	
74-83-9	Bromomethane	0.37	0.93	ND	1.44	3.60	ND	
75-00-3	Chloroethane	0.37	0.93	ND	0.98	2.44	ND	
64-17-5	Ethanol	1.85	11.88	ND	3.49	22.42	ND	
107-02-8	Acrolein	0.37	1.11	ND	0.85	2.55	ND	
75-69-4	Trichlorofluoromethane	0.37	0.93	ND	2.08	5.21	ND	
67-64-1	Acetone	1.85	2.22	ND	4.40	5.28	ND	
67-63-0	2-propanol (isopropylalcohol)	0.74	4.63	ND	1.82	11.38	ND	
75-65-0	t-Butyl alcohol	0.37	3.70	ND	1.12	11.23	ND	
4227-95-6	Methyl iodide	0.37	1.11	ND	2.17	6.50	ND	
75-35-4	1,1-Dichloroethene	0.19	0.93	ND	0.73	3.67	ND	
107-13-1	Acrylonitrile	0.74	1.11	ND	1.61	2.41	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.19	0.93	ND	1.42	7.10	ND	
107-05-1	Allyl chloride	0.19	3.70	ND	0.58	11.59	ND	
75-09-2	Methylene chloride	0.19	0.93	ND	0.64	3.22	ND	
75-15-0	Carbon disulfide	0.37	0.93	ND	1.15	2.88	ND	
156-60-5	trans-1,2-Dichloroethene	0.19	0.74	ND	0.73	2.94	ND	
1634-04-4	Methyl tert butyl ether	0.37	0.74	ND	1.34	2.67	ND	
107-12-0	Propionitrile	0.93	1.48	ND	2.09	3.34	ND	
75-34-3	1,1-Dichloroethane	0.18	0.93	ND	0.75	3.75	ND	
637-92-3	Ethyl tert butyl ether	0.37	0.93	ND	1.55	3.87	ND	
108-05-4	Vinyl acetate	0.19	3.70	ND	0.65	13.05	ND	
78-93-3	2-Butanone (MEK)	0.37	1.11	ND	1.09	3.28	ND	
108-20-3	Diisopropyl ether	0.37	2.22	ND	1.55	9.29	ND	
110-54-3	Hexane	0.37	0.93	ND	1.31	3.27	ND	
126-98-7	Methacrylonitrile	0.37	0.93	ND	1.02	2.54	ND	
141-78-6	Ethyl acetate	0.37	0.93	ND	1.34	3.34	ND	
74-97-5	Bromochloromethane	0.19	0.93	ND	0.98	4.90	ND	
96-33-3	Methyl acrylate	0.37	1.85	ND	1.30	6.52	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.19	1.11	ND	0.55	3.28	ND	
78-83-1	Isobutyl alcohol	0.74	2.96	ND	2.25	8.98	ND	
156-59-2	cis-1,2-Dichloroethene	0.19	0.93	ND	0.73	3.67	ND	
594-20-7	2,2-Dichloropropane	0.19	0.93	ND	0.86	4.28	ND	
67-66-3	Chloroform	0.19	0.93	ND	0.91	4.52	ND	
71-55-6	1,1,1-Trichloroethane	0.19	0.93	ND	1.01	5.05	ND	
107-06-2	1,2-Dichloroethane	0.19	0.93	ND	0.75	3.75	ND	
563-58-6	1,1-Dichloropropene	0.19	0.93	ND	0.84	4.21	ND	
110-82-7	Cyclohexane	0.19	0.93	ND	0.64	3.19	ND	
71-43-2	Benzene	1.30	1.85	ND	4.14	5.92	ND	
56-23-5	Carbon tetrachloride	0.19	0.93	ND	1.17	5.83	ND	
994-05-8	t-Amyl methyl ether	0.37	1.85	ND	1.55	7.74	ND	
540-84-1	2,2,4-Trimethylpentane	0.19	0.93	ND	0.87	4.33	ND	
142-82-5	n-Heptane	0.37	0.93	ND	1.52	3.80	ND	
78-87-5	1,2-Dichloropropane	0.19	0.93	ND	0.86	4.28	ND	
123-91-1	1,4 Dioxane	0.37	1.85	ND	1.34	6.68	ND	
74-95-3	Dibromomethane	0.19	0.93	ND	1.32	6.59	ND	
79-01-6	Trichloroethene (TCE)	0.09	0.93	ND	0.50	4.98	ND	
75-27-4	Bromodichloromethane	0.19	0.93	ND	1.24	6.21	ND	
80-62-6	Methyl methacrylate	0.37	0.93	ND	1.52	3.79	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.37	2.96	ND	1.52	12.15	ND	
10061-01-5	cis-1,3-Dichloropropene	0.19	0.93	ND	0.84	4.21	ND	
108-88-3	Toluene	0.74	0.93	ND	2.79	3.49	ND	
10061-02-6	trans-1,3-Dichloropropene	0.19	0.93	ND	0.84	4.21	ND	
79-00-5	1,1,2-Trichloroethane	0.19	0.93	ND	1.01	5.05	ND	
97-63-2	Ethyl methacrylate	0.37	0.93	ND	1.73	4.33	ND	
591-78-6	2-Hexanone	0.37	2.96	ND	1.52	12.15	ND	
142-28-9	1,3-Dichloropropane	0.19	2.59	ND	0.86	11.99	ND	
111-65-9	Octane	0.37	0.93	ND	1.73	4.33	ND	
124-48-1	Dibromochloromethane	0.37	0.93	ND	3.16	7.89	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.37	0.93	ND	2.85	7.12	ND	
127-18-4	Tetrachloroethene (PCE)	0.09	0.93	ND	0.63	6.28	ND	
108-90-7	Chlorobenzene	0.37	0.93	ND	1.71	4.27	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.37	0.93	ND	2.54	6.36	ND	
100-41-4	Ethylbenzene	0.37	0.93	ND	1.61	4.02	ND	
1330-20-7	m,p-Xylenes	0.37	0.93	ND	1.61	4.02	ND	
111-84-2	Nonane	0.37	0.93	ND	1.94	4.86	ND	
100-42-5	Styrene	0.56	0.93	ND	2.37	3.95	ND	
75-25-2	Bromoform	0.37	0.93	ND	3.83	9.57	ND	
95-47-6	o-Xylene	0.37	0.93	ND	1.61	4.02	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.74	1.85	ND	5.09	12.71	ND	
96-18-4	1,2,3-Trichloropropane	0.74	2.22	ND	4.47	13.40	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.74	2.22	ND	3.79	11.37	ND	
103-65-1	n-Propylbenzene	0.74	2.59	ND	3.64	12.75	ND	
98-82-8	Isopropylbenzene	0.74	2.59	ND	3.64	12.75	ND	
622-96-8	4-Ethyltoluene	0.74	5.92	ND	3.64	29.14	ND	
108-67-8	1,3,5-Trimethylbenzene	0.74	3.33	ND	3.64	16.39	ND	
124-18-5	Decane	0.74	2.22	ND	4.31	12.94	ND	
98-06-6	tert-butyl benzene	0.74	2.22	ND	4.07	12.20	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.74	3.33	ND	3.64	16.39	ND	
538-93-2	i-Butylbenzene	0.74	2.22	ND	4.07	12.20	ND	
135-98-8	sec-butylbenzene	0.74	2.59	ND	4.07	14.24	ND	
541-73-1	1,3-Dichlorobenzene	0.74	2.96	ND	4.46	17.82	ND	
99-87-6	Isopropyltoluene	0.74	2.22	ND	4.07	12.20	ND	
100-44-7	Benzyl chloride	0.74	1.85	ND	3.84	9.59	ND	
106-46-7	1,4-Dichlorobenzene	0.74	1.85	ND	4.46	11.14	ND	
104-51-8	n-Butylbenzene	0.74	2.22	ND	4.07	12.20	ND	
95-50-1	1,2-Dichlorobenzene	0.74	2.59	ND	4.46	15.59	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.11	2.59	ND	10.74	25.07	ND	
120-82-1	1,2,4-Trichlorobenzene	1.11	1.85	ND	8.25	13.74	ND	
91-20-3	Naphthalene	1.85	0.37	ND	9.71	1.94	ND	
87-61-6	1,2,3-Trichlorobenzene	1.11	1.85	ND	8.25	13.74	ND	
87-68-3	Hexachlorobutadiene	0.93	1.11	ND	9.88	11.86	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	96	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**32**		
File Name:	2510032A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/20/25**	**Time:**	**12:57**
Sample ID:	T-214	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**03/31/25**	**Time:**	**13:08**
Anal Date:	31 Mar 125 1:08 pm	**SF:**	**2**	**QCbatch:**	**033125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**610**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.11**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	MM	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.000	4.41	42.00	0
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.000	4.86	31.00	0
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	0.000	6.42	58.00	0
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.000	10.70	78.00	0
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.000	13.50	91.00	0
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.000	15.90	106	0
1330-20-7	m,p-Xylenes	75	TRG	0.000	16.06	91.00	0
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.000	16.61	104.00	0
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	0.00	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.000	18.31	105.00	0
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.000	18.95	105.00	0
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	23.61	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**10148172**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**12483869**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**14764317**
2037-26-5	Toluene-d8	103	SURR	9.615	13.40	98.00	**7378897**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**32**
File Name:	2510032A.D
Run Method:	A1563_P.M
Can Factor:	1.11
Air Volume:	300.0 ml
Can/Tube Number:	610
Dilution Factor:	0.3330
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3330
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	0.64	0.93
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.56	2.75	0.93
Methanol	32.0	0.00	0.00	0.00	ND	ND	0		0.500	0.600	1.85	2.42	2.22
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.56	1.15	0.93
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	2.59	0.93
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	0.48	0.93
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	0.41	0.93
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	1.44	0.93
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	0.98	0.93
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	1.85	3.49	11.88
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.37	0.85	1.11
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	2.08	0.93
Acetone	58.1	0.00	0.00	0.00	ND	ND	0		0.500	0.600	1.85	4.40	2.22
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		0.200	1.250	0.74	1.82	4.63
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.37	1.12	3.70
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.37	2.17	1.11
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	0.73	0.93
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.74	1.61	1.11
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	1.42	0.93
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.19	0.58	3.70
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	0.64	0.93
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	1.15	0.93
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.19	0.73	0.74
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.37	1.34	0.74
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	0.93	2.09	1.48
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.18	0.75	0.93
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	1.55	0.93
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.19	0.65	3.70
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.37	1.09	1.11
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.37	1.55	2.22
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	1.31	0.93
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	1.02	0.93
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	1.34	0.93
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	0.98	0.93
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.37	1.30	1.85
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.19	0.55	1.11
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.74	2.25	2.96
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	0.73	0.93
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	0.86	0.93
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	0.91	0.93
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	1.01	0.93
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	0.75	0.93
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	0.84	0.93
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	0.64	0.93
Benzene	78.1	0.00	0.00	0.00	ND	ND	0		0.350	0.500	1.30	4.14	1.85
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	1.17	0.93
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.37	1.55	1.85
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	0.87	0.93
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	1.52	0.93

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	0.86	0.93
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.37	1.34	1.85
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	1.32	0.93
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.09	0.50	0.93
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	1.24	0.93
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	1.52	0.93
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.37	1.52	2.96
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	0.84	0.93
Toluene	92.1	0.00	0.00	0.00	ND	ND	0		0.200	0.250	0.74	2.79	0.93
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	0.84	0.93
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.19	1.01	0.93
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	1.73	0.93
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.37	1.52	2.96
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.19	0.86	2.59
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	1.73	0.93
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	3.16	0.93
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	2.85	0.93
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.09	0.63	0.93
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	1.71	0.93
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	2.54	0.93
Ethylbenzene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	1.61	0.93
m,p-Xylenes	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	1.61	0.93
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	1.94	0.93
Styrene	104.2	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.56	2.37	0.93
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	3.83	0.93
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.37	1.61	0.93
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.74	5.09	1.85
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.74	4.47	2.22
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.74	3.79	2.22
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.74	3.64	2.59
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.74	3.64	2.59
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.74	3.64	5.92
1,3,5-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.74	3.64	3.33
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.74	4.31	2.22
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.74	4.07	2.22
1,2,4-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.74	3.64	3.33
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.74	4.07	2.22
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.74	4.07	2.59
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.74	4.46	2.96
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.74	4.07	2.22
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.74	3.84	1.85
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.74	4.46	1.85
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.74	4.07	2.22
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.74	4.46	2.59
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.11	10.74	2.59
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.11	8.25	1.85
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	1.85	9.71	0.37
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.11	8.25	1.85
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	0.93	9.88	1.11
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		9.61	96	96	96	96	96	96	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.59	U	ND		ND		Y	0.00	0.00
4.58	U	ND		ND		Y	0.00	0.00
2.91	U	ND		ND		Y	0.00	0.00
1.91	U	ND		ND		Y	0.00	0.00
6.47	U	ND		ND		Y	0.00	0.00
2.37	U	ND		ND		Y	0.00	0.00
2.05	U	ND		ND		Y	0.00	0.00
3.60	U	ND		ND		Y	0.00	0.00
2.44	U	ND		ND		Y	0.00	0.00
22.42	U	ND		ND		Y	0.00	0.00
2.55	U	ND		ND		Y	0.00	0.00
5.21	U	ND		ND		Y	0.00	0.00
5.28	U	ND		ND		Y	0.00	0.00
11.38	U	ND		ND		Y	0.00	0.00
11.23	U	ND		ND		Y	0.00	0.00
6.50	U	ND		ND		Y	0.00	0.00
3.67	U	ND		ND		Y	0.00	0.00
2.41	U	ND		ND		Y	0.00	0.00
7.10	U	ND		ND		Y	0.00	0.00
11.59	U	ND		ND		Y	0.00	0.00
3.22	U	ND		ND		Y	0.00	0.00
2.88	U	ND		ND		Y	0.00	0.00
2.94	U	ND		ND		Y	0.00	0.00
2.67	U	ND		ND		Y	0.00	0.00
3.34	U	ND		ND		Y	0.00	0.00
3.75	U	ND		ND		Y	0.00	0.00
3.87	U	ND		ND		Y	0.00	0.00
13.05	U	ND		ND		Y	0.00	0.00
3.28	U	ND		ND		Y	0.00	0.00
9.29	U	ND		ND		Y	0.00	0.00
3.27	U	ND		ND		Y	0.00	0.00
2.54	U	ND		ND		Y	0.00	0.00
3.34	U	ND		ND		Y	0.00	0.00
4.90	U	ND		ND		Y	0.00	0.00
6.52	U	ND		ND		Y	0.00	0.00
3.28	U	ND		ND		Y	0.00	0.00
8.98	U	ND		ND		Y	0.00	0.00
3.67	U	ND		ND		Y	0.00	0.00
4.28	U	ND		ND		Y	0.00	0.00
4.52	U	ND		ND		Y	0.00	0.00
5.05	U	ND		ND		Y	0.00	0.00
3.75	U	ND		ND		Y	0.00	0.00
4.21	U	ND		ND		Y	0.00	0.00
3.19	U	ND		ND		Y	0.00	0.00
5.92	U	ND		ND		Y	0.00	0.00
5.83	U	ND		ND		Y	0.00	0.00
7.74	U	ND		ND		Y	0.00	0.00
4.33	U	ND		ND		Y	0.00	0.00
3.80	U	ND		ND		Y	0.00	0.00

4.28	U	ND	ND	Y	0.00	0.00
6.68	U	ND	ND	Y	0.00	0.00
6.59	U	ND	ND	Y	0.00	0.00
4.98	U	ND	ND	Y	0.00	0.00
6.21	U	ND	ND	Y	0.00	0.00
3.79	U	ND	ND	Y	0.00	0.00
12.15	U	ND	ND	Y	0.00	0.00
4.21	U	ND	ND	Y	0.00	0.00
3.49	U	ND	ND	Y	0.00	0.00
4.21	U	ND	ND	Y	0.00	0.00
5.05	U	ND	ND	Y	0.00	0.00
4.33	U	ND	ND	Y	0.00	0.00
12.15	U	ND	ND	Y	0.00	0.00
11.99	U	ND	ND	Y	0.00	0.00
4.33	U	ND	ND	Y	0.00	0.00
7.89	U	ND	ND	Y	0.00	0.00
7.12	U	ND	ND	Y	0.00	0.00
6.28	U	ND	ND	Y	0.00	0.00
4.27	U	ND	ND	Y	0.00	0.00
6.36	U	ND	ND	Y	0.00	0.00
4.02	U	ND	ND	Y	0.00	0.00
4.02	U	ND	ND	Y	0.00	0.00
4.86	U	ND	ND	Y	0.00	0.00
3.95	U	ND	ND	Y	0.00	0.00
9.57	U	ND	ND	Y	0.00	0.00
4.02	U	ND	ND	Y	0.00	0.00
12.71	U	ND	ND	Y	0.00	0.00
13.40	U	ND	ND	Y	0.00	0.00
11.37	U	ND	ND	Y	0.00	0.00
12.75	U	ND	ND	Y	0.00	0.00
12.75	U	ND	ND	Y	0.00	0.00
29.14	U	ND	ND	Y	0.00	0.00
16.39	U	ND	ND	Y	0.00	0.00
12.94	U	ND	ND	Y	0.00	0.00
12.20	U	ND	ND	Y	0.00	0.00
16.39	U	ND	ND	Y	0.00	0.00
12.20	U	ND	ND	Y	0.00	0.00
14.24	U	ND	ND	Y	0.00	0.00
17.82	U	ND	ND	Y	0.00	0.00
12.20	U	ND	ND	Y	0.00	0.00
9.59	U	ND	ND	Y	0.00	0.00
11.14	U	ND	ND	Y	0.00	0.00
12.20	U	ND	ND	Y	0.00	0.00
15.59	U	ND	ND	Y	0.00	0.00
25.07	U	ND	ND	Y	0.00	0.00
13.74	U	ND	ND	Y	0.00	0.00
1.94	U	ND	ND	Y	0.00	0.00
13.74	U	ND	ND	Y	0.00	0.00
11.86	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**32**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.11	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) / (Avg RFn) × (Cistdi) / (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) × 1000 / (SV) × (CDF)

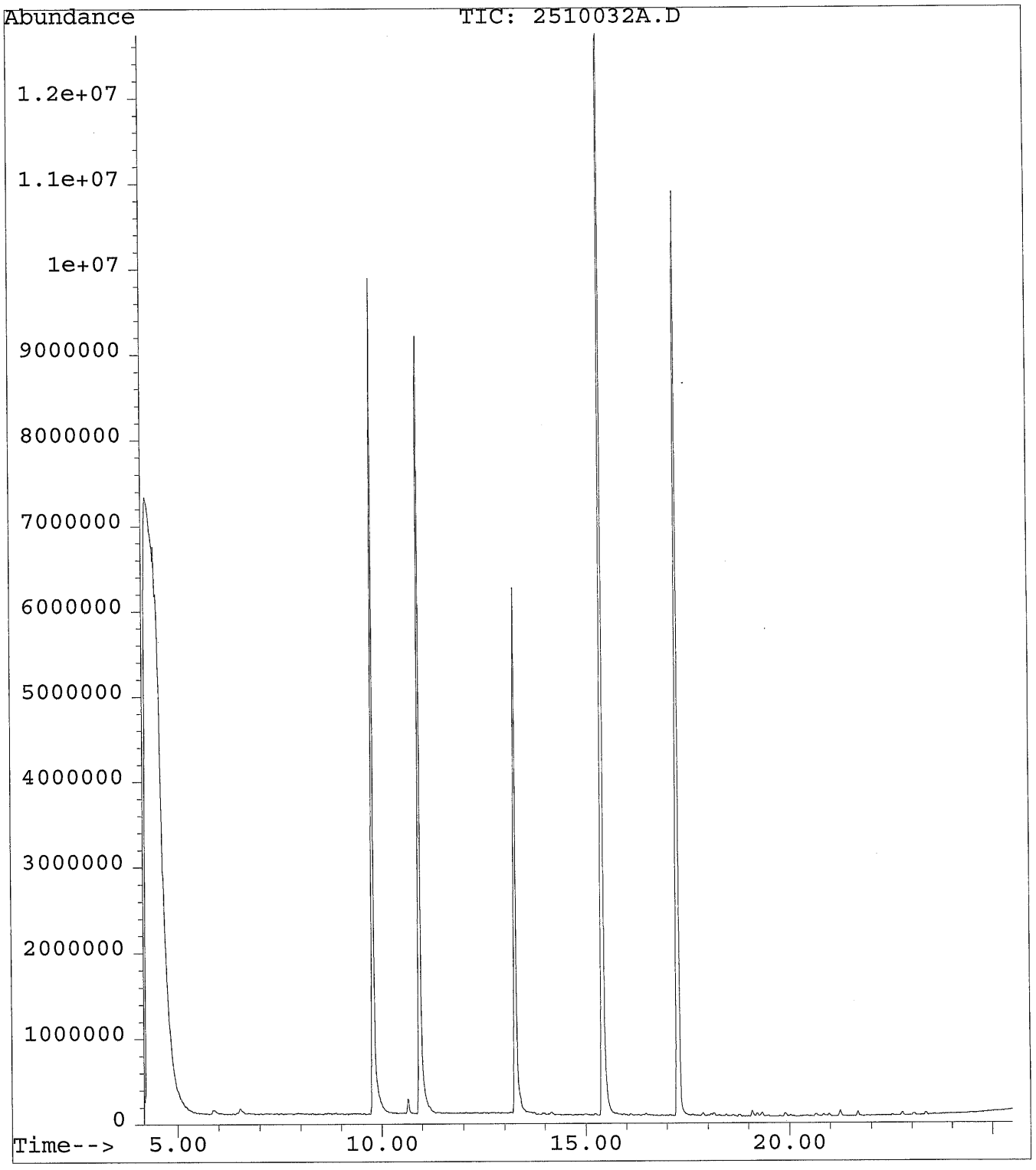
4) Amount ug/m3 = (amt(ppbv) × MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	0	20.0	10148172	0.000	0.00	0.00
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	10148172	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	0	20.0	10148172	0.000	0.00	0.00
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	10148172	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	10148172	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	10148172	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	10148172	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	10148172	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	10148172	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	0	20.0	10148172	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.130	0	20.0	10148172	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	10148172	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	0	20.0	10148172	0.000	0.00	0.00
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	0	20.0	10148172	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	10148172	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	10148172	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	10148172	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	10148172	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	10148172	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	10148172	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	10148172	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	10148172	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	10148172	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	10148172	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	10148172	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	10148172	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	10148172	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	10148172	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	0	20.0	10148172	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	10148172	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	10148172	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	10148172	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	10148172	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	10148172	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	10148172	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	10148172	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	10148172	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	10148172	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	10148172	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	10148172	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	12483869	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	12483869	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	12483869	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	12483869	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	0	20.0	12483869	0.000	0.00	0.00
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	12483869	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	12483869	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	12483869	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	12483869	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	12483869	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	12483869	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	12483869	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	12483869	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	12483869	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	12483869	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	12483869	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	12483869	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	0	20.0	12483869	0.000	0.00	0.00
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	12483869	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	12483869	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	12483869	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	12483869	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	12483869	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	12483869	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	12483869	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	12483869	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	12483869	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	14764317	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	14764317	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	0	20.0	14764317	0.000	0.00	0.00
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	0	20.0	14764317	0.000	0.00	0.00
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	14764317	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	0	20.0	14764317	0.000	0.00	0.00
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	14764317	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	0	20.0	14764317	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	14764317	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	14764317	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	14764317	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	14764317	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	14764317	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	14764317	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	0	20.0	14764317	0.000	0.00	0.00
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	14764317	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	14764317	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	0	20.0	14764317	0.000	0.00	0.00
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	14764317	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	14764317	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	14764317	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	14764317	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	14764317	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	14764317	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	14764317	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	14764317	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	14764317	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	14764317	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	14764317	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	14764317	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	14764317	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	10148172	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	12483869	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	14764317	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	7378897	10.0		9.615	96.15	96

File : C:\MSCHEM\1\DATA\03315A_C\2510032A.D
Operator : MM
Acquired : 31 Mar 125 1:08 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-214
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number 225100

Lab Id Number 33

Client ID T-215

Analytical Method TO-15

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Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 33

File Name: 2510033A.D
Description: T-215
Canister: 751
QC_Batch: 040225-MA1

Date Sampled: 03/20/25 **Time:** 12:44
Date Analyzed: 04/02/25 **Time:** 12:44
Can Dilution Factor: 1.29
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.43	1.08	1.38	0.74	1.85	2.38	
75-71-8	Dichlorodifluoromethane	0.65	1.08	ND	3.19	5.32	ND	
67-56-1	Methanol	2.15	2.58	44.00	2.82	3.38	57.67	
74-87-3	Chloromethane	0.65	1.08	ND	1.33	2.22	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.43	1.08	ND	3.01	7.52	ND	
75-01-4	Vinyl chloride	0.22	1.08	ND	0.55	2.75	ND	
106-99-0	1,3-Butadiene	0.22	1.08	ND	0.48	2.38	ND	
74-83-9	Bromomethane	0.43	1.08	ND	1.67	4.18	ND	
75-00-3	Chloroethane	0.43	1.08	ND	1.14	2.84	ND	
64-17-5	Ethanol	2.15	13.80	4.40	4.06	26.06	8.32	J
107-02-8	Acrolein	0.43	1.29	3.64	0.99	2.96	8.37	
75-69-4	Trichlorofluoromethane	0.43	1.08	ND	2.42	6.05	ND	
67-64-1	Acetone	2.15	2.58	13.90	5.12	6.14	33.07	
67-63-0	2-propanol (isopropylalcohol)	0.86	5.38	ND	2.12	13.23	ND	
75-65-0	t-Butyl alcohol	0.43	4.30	ND	1.30	13.05	ND	
4227-95-6	Methyl iodide	0.43	1.29	ND	2.52	7.55	ND	
75-35-4	1,1-Dichloroethene	0.22	1.08	ND	0.85	4.27	ND	
107-13-1	Acrylonitrile	0.86	1.29	ND	1.87	2.81	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.22	1.08	ND	1.65	8.25	ND	
107-05-1	Allyl chloride	0.22	4.30	ND	0.67	13.47	ND	
75-09-2	Methylene chloride	0.22	1.08	ND	0.75	3.74	ND	
75-15-0	Carbon disulfide	0.43	1.08	0.51	1.34	3.35	1.59	J
156-60-5	trans-1,2-Dichloroethene	0.22	0.86	ND	0.85	3.41	ND	
1634-04-4	Methyl tert butyl ether	0.43	0.86	ND	1.55	3.10	ND	
107-12-0	Propionitrile	1.08	1.72	ND	2.43	3.88	ND	
75-34-3	1,1-Dichloroethane	0.21	1.08	ND	0.87	4.36	ND	
637-92-3	Ethyl tert butyl ether	0.43	1.08	ND	1.80	4.50	ND	
108-05-4	Vinyl acetate	0.22	4.30	ND	0.76	15.16	ND	
78-93-3	2-Butanone (MEK)	0.43	1.29	1.63	1.27	3.81	4.80	
108-20-3	Diisopropyl ether	0.43	2.58	ND	1.80	10.80	ND	
110-54-3	Hexane	0.43	1.08	ND	1.52	3.80	ND	
126-98-7	Methacrylonitrile	0.43	1.08	ND	1.18	2.95	ND	
141-78-6	Ethyl acetate	0.43	1.08	ND	1.55	3.88	ND	
74-97-5	Bromochloromethane	0.22	1.08	ND	1.14	5.70	ND	
96-33-3	Methyl acrylate	0.43	2.15	ND	1.52	7.58	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.22	1.29	ND	0.64	3.81	ND	
78-83-1	Isobutyl alcohol	0.86	3.44	ND	2.61	10.44	ND	
156-59-2	cis-1,2-Dichloroethene	0.22	1.08	ND	0.85	4.27	ND	
594-20-7	2,2-Dichloropropane	0.22	1.08	ND	1.00	4.98	ND	
67-66-3	Chloroform	0.22	1.08	2.04	1.05	5.26	9.95	
71-55-6	1,1,1-Trichloroethane	0.22	1.08	ND	1.17	5.87	ND	
107-06-2	1,2-Dichloroethane	0.22	1.08	ND	0.87	4.36	ND	
563-58-6	1,1-Dichloropropene	0.22	1.08	ND	0.98	4.89	ND	
110-82-7	Cyclohexane	0.22	1.08	ND	0.74	3.71	ND	
71-43-2	Benzene	1.51	2.15	3.37	4.81	6.88	10.77	
56-23-5	Carbon tetrachloride	0.22	1.08	ND	1.35	6.77	ND	
994-05-8	t-Amyl methyl ether	0.43	2.15	ND	1.80	9.00	ND	
540-84-1	2,2,4-Trimethylpentane	0.22	1.08	ND	1.01	5.03	ND	
142-82-5	n-Heptane	0.43	1.08	ND	1.76	4.41	ND	
78-87-5	1,2-Dichloropropane	0.22	1.08	ND	1.00	4.98	ND	
123-91-1	1,4 Dioxane	0.43	2.15	ND	1.55	7.76	ND	
74-95-3	Dibromomethane	0.22	1.08	ND	1.53	7.65	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.08	ND	0.58	5.79	ND	
75-27-4	Bromodichloromethane	0.22	1.08	ND	1.44	7.21	ND	
80-62-6	Methyl methacrylate	0.43	1.08	ND	1.76	4.41	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.43	3.44	ND	1.76	14.12	ND	
10061-01-5	cis-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.89	ND	
108-88-3	Toluene	0.86	1.08	ND	3.24	4.05	ND	
10061-02-6	trans-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.89	ND	
79-00-5	1,1,2-Trichloroethane	0.22	1.08	ND	1.17	5.87	ND	
97-63-2	Ethyl methacrylate	0.43	1.08	ND	2.01	5.03	ND	
591-78-6	2-Hexanone	0.43	3.44	ND	1.76	14.12	ND	
142-28-9	1,3-Dichloropropane	0.22	3.01	ND	1.00	13.93	ND	
111-65-9	Octane	0.43	1.08	ND	2.01	5.03	ND	
124-48-1	Dibromochloromethane	0.43	1.08	ND	3.67	9.17	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.43	1.08	ND	3.31	8.27	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.08	ND	0.73	7.30	ND	
108-90-7	Chlorobenzene	0.43	1.08	ND	1.98	4.96	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.43	1.08	ND	2.96	7.39	ND	
100-41-4	Ethylbenzene	0.43	1.08	ND	1.87	4.68	ND	
1330-20-7	m,p-Xylenes	0.43	1.08	ND	1.87	4.68	ND	
111-84-2	Nonane	0.43	1.08	ND	2.26	5.65	ND	
100-42-5	Styrene	0.65	1.08	ND	2.75	4.59	ND	
75-25-2	Bromoform	0.43	1.08	ND	4.45	11.13	ND	
95-47-6	o-Xylene	0.43	1.08	ND	1.87	4.68	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.86	2.15	ND	5.91	14.78	ND	
96-18-4	1,2,3-Trichloropropane	0.86	2.58	ND	5.19	15.57	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.86	2.58	ND	4.40	13.21	ND	
103-65-1	n-Propylbenzene	0.86	3.01	ND	4.23	14.82	ND	
98-82-8	Isopropylbenzene	0.86	3.01	ND	4.23	14.82	ND	
622-96-8	4-Ethyltoluene	0.86	6.88	ND	4.23	33.87	ND	
108-67-8	1,3,5-Trimethylbenzene	0.86	3.87	ND	4.23	19.05	ND	
124-18-5	Decane	0.86	2.58	ND	5.01	15.04	ND	
98-06-6	tert-butyl benzene	0.86	2.58	ND	4.73	14.18	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.86	3.87	ND	4.23	19.05	ND	
538-93-2	i-Butylbenzene	0.86	2.58	ND	4.73	14.18	ND	
135-98-8	sec-butylbenzene	0.86	3.01	ND	4.73	16.54	ND	
541-73-1	1,3-Dichlorobenzene	0.86	3.44	ND	5.18	20.71	ND	
99-87-6	Isopropyltoluene	0.86	2.58	ND	4.73	14.18	ND	
100-44-7	Benzyl chloride	0.86	2.15	ND	4.46	11.15	ND	
106-46-7	1,4-Dichlorobenzene	0.86	2.15	ND	5.18	12.94	ND	
104-51-8	n-Butylbenzene	0.86	2.58	ND	4.73	14.18	ND	
95-50-1	1,2-Dichlorobenzene	0.86	3.01	ND	5.18	18.12	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.29	3.01	ND	12.48	29.13	ND	
120-82-1	1,2,4-Trichlorobenzene	1.29	2.15	ND	9.58	15.97	ND	
91-20-3	Naphthalene	2.15	0.43	ND	11.29	2.26	ND	
87-61-6	1,2,3-Trichlorobenzene	1.29	2.15	ND	9.58	15.97	ND	
87-68-3	Hexachlorobutadiene	1.08	1.29	ND	11.48	13.78	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	127	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**33**		
File Name:	2510033A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/20/25**	**Time:**	**12:44**
Sample ID:	T-215	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/02/25**	**Time:**	**12:44**
Anal Date:	2 Apr 125 2:16 pm	**SF:**	**2**	**QCbatch:**	**040225-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**751**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.29**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	DA	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.322	4.41	42.00	39482
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	10.233	4.86	31.00	5615759
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	1.024	5.72	46.00	72737
107-02-8	Acrolein	12	TRG	0.847	6.32	56.00	54811
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	3.232	6.42	58.00	384702
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.122	6.45	45.00	60653
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.119	7.61	76.00	52412
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.378	8.75	72.00	37712
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.473	9.42	83.00	**168926**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.783	10.70	78.00	497749
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.070	13.50	91.00	62417
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.018	15.90	106	21784
1330-20-7	m,p-Xylenes	75	TRG	0.023	16.06	91.00	24407
111-84-2	Nonane	76	TRG	0.032	16.43	57.00	26861
100-42-5	Styrene	77	TRG	0.054	16.61	104.00	40071
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	0.00	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.023	18.23	105.00	32911
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.035	18.31	105.00	45343
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.021	18.95	105.00	28369
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.193	19.53	119.00	374486
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**9981709**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**11847279**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**13322185**
2037-26-5	Toluene-d8	103	SURR	12.679	13.40	98.00	**9234321**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**33**
File Name:	2510033A.D
Run Method:	A1563_P.M
Can Factor:	1.29
Air Volume:	300.0 ml
Can/Tube Number:	751
Dilution Factor:	0.3870
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3870
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.32	1.38	2.38	1.38	2.38	2.38	2.38	0.100	0.250	0.43	0.74	1.08
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.65	3.19	1.08
Methanol	32.0	10.23	44.00	57.67	44.00	57.67	57.67	57.67	0.500	0.600	2.15	2.82	2.58
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.65	1.33	1.08
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	3.01	1.08
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.55	1.08
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.48	1.08
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.67	1.08
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.14	1.08
Ethanol	46.1	1.02	4.40	8.32	4.40	8.32	8.32	8.32	0.500	3.210	2.15	4.06	13.80
Acrolein	56.1	0.85	3.64	8.37	3.64	8.37	8.37	8.37	0.100	0.300	0.43	0.99	1.29
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.42	1.08
Acetone	58.1	3.23	13.90	33.07	13.90	33.07	33.07	33.07	0.500	0.600	2.15	5.12	2.58
2-propanol (isopropylalcohol)	60.1	0.12	0.52	1.29	ND	ND	0		0.200	1.250	0.86	2.12	5.38
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.43	1.30	4.30
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.43	2.52	1.29
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.85	1.08
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.86	1.87	1.29
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.65	1.08
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.22	0.67	4.30
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.75	1.08
Carbon disulfide	76.1	0.12	0.51	1.59	0.51	1.59	1.59	1.59	0.100	0.250	0.43	1.34	1.08
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.22	0.85	0.86
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.43	1.55	0.86
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.08	2.43	1.72
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.87	1.08
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.80	1.08
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.22	0.76	4.30
2-Butanone (MEK)	72.1	0.38	1.63	4.80	1.63	4.80	4.80	4.80	0.100	0.300	0.43	1.27	1.29
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.43	1.80	2.58
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.52	1.08
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.18	1.08
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.55	1.08
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.14	1.08
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.43	1.52	2.15
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.22	0.64	1.29
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.86	2.61	3.44
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.85	1.08
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.00	1.08
Chloroform	119.4	0.47	2.04	9.95	2.04	9.95	9.95	9.95	0.050	0.250	0.22	1.05	1.08
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.17	1.08
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.87	1.08
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.98	1.08
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.74	1.08
Benzene	78.1	0.78	3.37	10.77	3.37	10.77	10.77	10.77	0.350	0.500	1.51	4.81	2.15
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.35	1.08
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.43	1.80	2.15
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.01	1.08
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.76	1.08

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.00	1.08
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.43	1.55	2.15
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.53	1.08
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.58	1.08
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.44	1.08
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.76	1.08
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.43	1.76	3.44
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.98	1.08
Toluene	92.1	0.07	0.30	1.14	ND	ND	0		0.200	0.250	0.86	3.24	1.08
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.98	1.08
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.17	1.08
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.01	1.08
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.43	1.76	3.44
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.22	1.00	3.01
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.01	1.08
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	3.67	1.08
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	3.31	1.08
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.73	1.08
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.98	1.08
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.96	1.08
Ethylbenzene	106.2	0.02	0.08	0.34	ND	ND	0		0.100	0.250	0.43	1.87	1.08
m,p-Xylenes	106.2	0.02	0.10	0.43	ND	ND	0		0.100	0.250	0.43	1.87	1.08
Nonane	128.3	0.03	0.14	0.71	ND	ND	0		0.100	0.250	0.43	2.26	1.08
Styrene	104.2	0.05	0.23	1.00	ND	ND	0		0.150	0.250	0.65	2.75	1.08
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	4.45	1.08
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.87	1.08
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.86	5.91	2.15
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	5.19	2.58
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	4.40	2.58
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.86	4.23	3.01
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.86	4.23	3.01
4-Ethyltoluene	120.2	0.02	0.10	0.48	ND	ND	0		0.200	1.600	0.86	4.23	6.88
1,3,5-Trimethylbenzene	120.2	0.03	0.15	0.74	ND	ND	0		0.200	0.900	0.86	4.23	3.87
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	5.01	2.58
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	4.73	2.58
1,2,4-Trimethylbenzene	120.2	0.02	0.09	0.44	ND	ND	0		0.200	0.900	0.86	4.23	3.87
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	4.73	2.58
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.86	4.73	3.01
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.86	5.18	3.44
Isopropyltoluene	134.2	0.19	0.83	4.56	ND	ND	0		0.200	0.600	0.86	4.73	2.58
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.86	4.46	2.15
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.86	5.18	2.15
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	4.73	2.58
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.86	5.18	3.01
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.29	12.48	3.01
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.29	9.58	2.15
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.15	11.29	0.43
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.29	9.58	2.15
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.08	11.48	1.29
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		12.68	127	127	127	127	127	127	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.85				=		Y	1.38	2.38
5.32	U	ND		ND		Y	0.00	0.00
3.38				=		Y	44.00	57.67
2.22	U	ND		ND		Y	0.00	0.00
7.52	U	ND		ND		Y	0.00	0.00
2.75	U	ND		ND		Y	0.00	0.00
2.38	U	ND		ND		Y	0.00	0.00
4.18	U	ND		ND		Y	0.00	0.00
2.84	U	ND		ND		Y	0.00	0.00
26.06	J	J		=		Y	4.40	8.32
2.96				=		Y	3.64	8.37
6.05	U	ND		ND		Y	0.00	0.00
6.14				=		Y	13.90	33.07
13.23	U	ND		ND		Y	0.00	0.00
13.05	U	ND		ND		Y	0.00	0.00
7.55	U	ND		ND		Y	0.00	0.00
4.27	U	ND		ND		Y	0.00	0.00
2.81	U	ND		ND		Y	0.00	0.00
8.25	U	ND		ND		Y	0.00	0.00
13.47	U	ND		ND		Y	0.00	0.00
3.74	U	ND		ND		Y	0.00	0.00
3.35	J	J		=		Y	0.51	1.59
3.41	U	ND		ND		Y	0.00	0.00
3.10	U	ND		ND		Y	0.00	0.00
3.88	U	ND		ND		Y	0.00	0.00
4.36	U	ND		ND		Y	0.00	0.00
4.50	U	ND		ND		Y	0.00	0.00
15.16	U	ND		ND		Y	0.00	0.00
3.81				=		Y	1.63	4.80
10.80	U	ND		ND		Y	0.00	0.00
3.80	U	ND		ND		Y	0.00	0.00
2.95	U	ND		ND		Y	0.00	0.00
3.88	U	ND		ND		Y	0.00	0.00
5.70	U	ND		ND		Y	0.00	0.00
7.58	U	ND		ND		Y	0.00	0.00
3.81	U	ND		ND		Y	0.00	0.00
10.44	U	ND		ND		Y	0.00	0.00
4.27	U	ND		ND		Y	0.00	0.00
4.98	U	ND		ND		Y	0.00	0.00
5.26				=		Y	2.04	9.95
5.87	U	ND		ND		Y	0.00	0.00
4.36	U	ND		ND		Y	0.00	0.00
4.89	U	ND		ND		Y	0.00	0.00
3.71	U	ND		ND		Y	0.00	0.00
6.88				=		Y	3.37	10.77
6.77	U	ND		ND		Y	0.00	0.00
9.00	U	ND		ND		Y	0.00	0.00
5.03	U	ND		ND		Y	0.00	0.00
4.41	U	ND		ND		Y	0.00	0.00

4.98	U	ND	ND	Y	0.00	0.00
7.76	U	ND	ND	Y	0.00	0.00
7.65	U	ND	ND	Y	0.00	0.00
5.79	U	ND	ND	Y	0.00	0.00
7.21	U	ND	ND	Y	0.00	0.00
4.41	U	ND	ND	Y	0.00	0.00
14.12	U	ND	ND	Y	0.00	0.00
4.89	U	ND	ND	Y	0.00	0.00
4.05	U	ND	ND	Y	0.00	0.00
4.89	U	ND	ND	Y	0.00	0.00
5.87	U	ND	ND	Y	0.00	0.00
5.03	U	ND	ND	Y	0.00	0.00
14.12	U	ND	ND	Y	0.00	0.00
13.93	U	ND	ND	Y	0.00	0.00
5.03	U	ND	ND	Y	0.00	0.00
9.17	U	ND	ND	Y	0.00	0.00
8.27	U	ND	ND	Y	0.00	0.00
7.30	U	ND	ND	Y	0.00	0.00
4.96	U	ND	ND	Y	0.00	0.00
7.39	U	ND	ND	Y	0.00	0.00
4.68	U	ND	ND	Y	0.00	0.00
4.68	U	ND	ND	Y	0.00	0.00
5.65	U	ND	ND	Y	0.00	0.00
4.59	U	ND	ND	Y	0.00	0.00
11.13	U	ND	ND	Y	0.00	0.00
4.68	U	ND	ND	Y	0.00	0.00
14.78	U	ND	ND	Y	0.00	0.00
15.57	U	ND	ND	Y	0.00	0.00
13.21	U	ND	ND	Y	0.00	0.00
14.82	U	ND	ND	Y	0.00	0.00
14.82	U	ND	ND	Y	0.00	0.00
33.87	U	ND	ND	Y	0.00	0.00
19.05	U	ND	ND	Y	0.00	0.00
15.04	U	ND	ND	Y	0.00	0.00
14.18	U	ND	ND	Y	0.00	0.00
19.05	U	ND	ND	Y	0.00	0.00
14.18	U	ND	ND	Y	0.00	0.00
16.54	U	ND	ND	Y	0.00	0.00
20.71	U	ND	ND	Y	0.00	0.00
14.18	U	ND	ND	Y	0.00	0.00
11.15	U	ND	ND	Y	0.00	0.00
12.94	U	ND	ND	Y	0.00	0.00
14.18	U	ND	ND	Y	0.00	0.00
18.12	U	ND	ND	Y	0.00	0.00
29.13	U	ND	ND	Y	0.00	0.00
15.97	U	ND	ND	Y	0.00	0.00
2.26	U	ND	ND	Y	0.00	0.00
15.97	U	ND	ND	Y	0.00	0.00
13.78	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**33**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.29	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum $\frac{(Astdni)}{(Cstdni)} \frac{(Cistdi)}{(Aistdi)}$ Note: 1 i

2) Raw Amt = $\frac{(Ansamp)}{(Avg\ RFn)} \frac{(Cistdi)}{(Aistdi)}$ **= Cn**

3) Amount ppbv = $\frac{(Raw\ Amt)\ 1000}{(SV)} (CDF)$

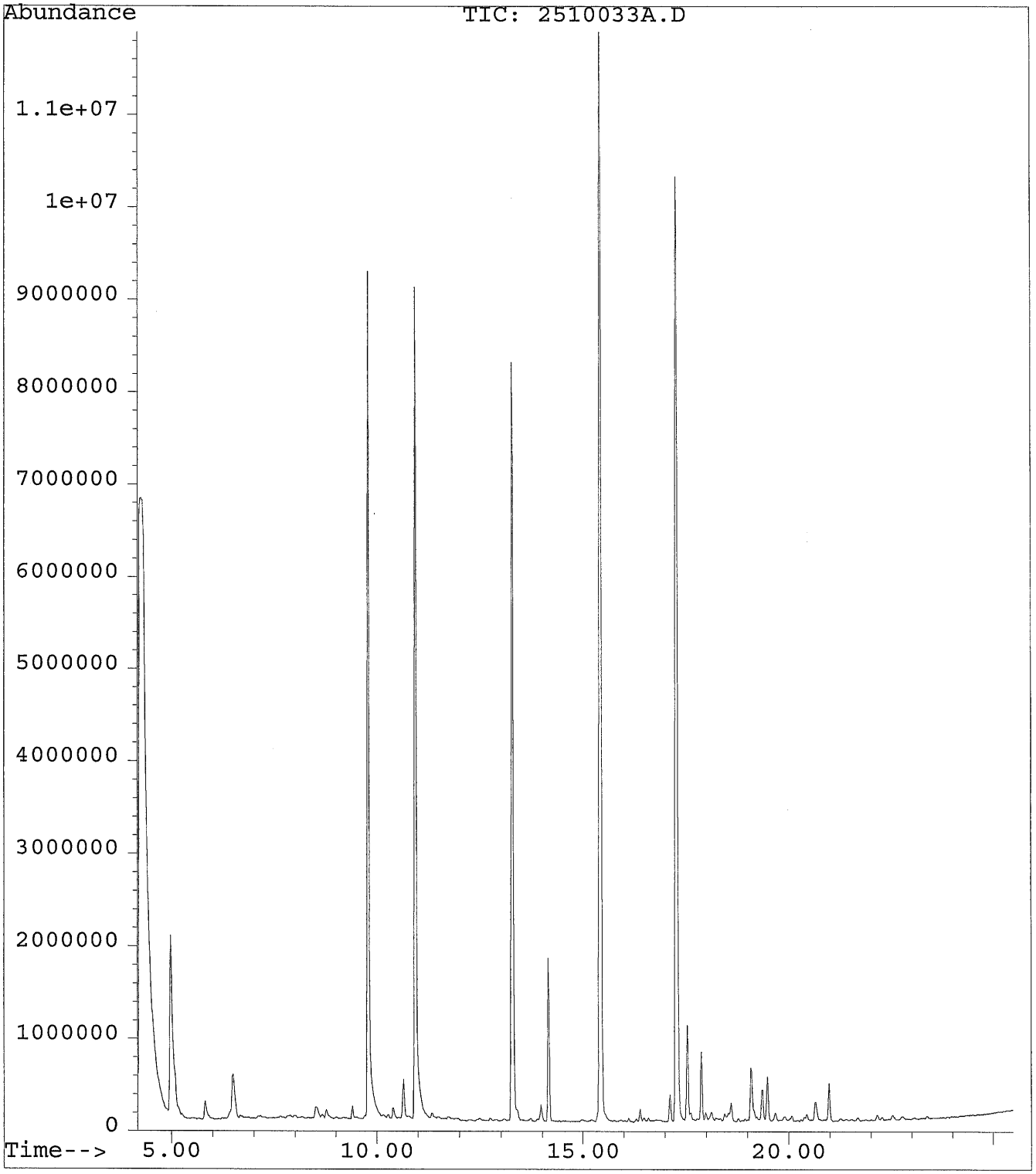
4) Amount ug/m3 = $\frac{(amt(ppbv)\ MW}{24.42}$

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	39482	20.0	9981709	0.322	1.38	2.38
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	9981709	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	5615759	20.0	9981709	10.233	44.00	57.67
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	9981709	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	9981709	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	9981709	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	9981709	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	9981709	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	9981709	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	72737	20.0	9981709	1.024	4.40	8.32
12	Acrolein	PFB	TRG	56.1	0.130	54811	20.0	9981709	0.847	3.64	8.37
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	9981709	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	384702	20.0	9981709	3.232	13.90	33.07
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	60653	20.0	9981709	0.122	0.52	1.29
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	9981709	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	9981709	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	9981709	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	9981709	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	9981709	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	9981709	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	9981709	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	52412	20.0	9981709	0.119	0.51	1.59
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	9981709	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	9981709	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	9981709	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	9981709	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	9981709	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	9981709	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	37712	20.0	9981709	0.378	1.63	4.80
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	9981709	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	9981709	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	9981709	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	9981709	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	9981709	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	9981709	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	9981709	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	9981709	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	9981709	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	9981709	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	168926	20.0	9981709	0.473	2.04	9.95
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	11847279	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	11847279	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	11847279	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	11847279	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	497749	20.0	11847279	0.783	3.37	10.77
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	11847279	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	11847279	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	11847279	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	11847279	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	11847279	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	11847279	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	11847279	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	11847279	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	11847279	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	11847279	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	11847279	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	11847279	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	62417	20.0	11847279	0.070	0.30	1.14
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	11847279	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	11847279	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	11847279	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	11847279	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	11847279	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	11847279	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	11847279	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	11847279	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	11847279	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	13322185	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	13322185	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	21784	20.0	13322185	0.018	0.08	0.34
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	24407	20.0	13322185	0.023	0.10	0.43
76	Nonane	d5CB	TRG	128.3	1.278	26861	20.0	13322185	0.032	0.14	0.71
77	Styrene	d5CB	TRG	104.2	1.106	40071	20.0	13322185	0.054	0.23	1.00
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	13322185	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	0	20.0	13322185	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	13322185	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	13322185	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	13322185	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	13322185	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	13322185	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	32911	20.0	13322185	0.023	0.10	0.48
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	45343	20.0	13322185	0.035	0.15	0.74
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	13322185	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	13322185	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	28369	20.0	13322185	0.021	0.09	0.44
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	13322185	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	13322185	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	13322185	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	374486	20.0	13322185	0.193	0.83	4.56
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	13322185	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	13322185	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	13322185	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	13322185	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	13322185	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	13322185	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	13322185	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	13322185	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	13322185	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	9981709	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	11847279	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	13322185	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9234321	10.0		12.679	126.79	127

File : C:\MSCHEM\1\DATA\04025A_C\2510033A.D
Operator : DA
Acquired : 2 Apr 125 2:16 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-215
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number 225100
Lab Id Number 34

Client ID T-216

Analytical Method TO-15

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 34

File Name: 2510034A.D
Description: T-216
Canister: 896
QC_Batch: 040225-MA1

Date Sampled: 03/20/25 **Time:** 12:46
Date Analyzed: 04/02/25 **Time:** 14:54
Can Dilution Factor: 1.38
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.46	1.15	1.34	0.79	1.98	2.30	
75-71-8	Dichlorodifluoromethane	0.69	1.15	ND	3.42	5.69	ND	
67-56-1	Methanol	2.30	2.76	ND	3.01	3.62	ND	
74-87-3	Chloromethane	0.69	1.15	ND	1.43	2.38	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.46	1.15	ND	3.22	8.05	ND	
75-01-4	Vinyl chloride	0.23	1.15	ND	0.59	2.94	ND	
106-99-0	1,3-Butadiene	0.23	1.15	ND	0.51	2.55	ND	
74-83-9	Bromomethane	0.46	1.15	ND	1.79	4.47	ND	
75-00-3	Chloroethane	0.46	1.15	ND	1.22	3.04	ND	
64-17-5	Ethanol	2.30	14.77	ND	4.34	27.88	ND	
107-02-8	Acrolein	0.46	1.38	2.11	1.06	3.17	4.84	
75-69-4	Trichlorofluoromethane	0.46	1.15	ND	2.59	6.47	ND	
67-64-1	Acetone	2.30	2.76	13.63	5.47	6.57	32.44	
67-63-0	2-propanol (isopropylalcohol)	0.92	5.75	ND	2.26	14.15	ND	
75-65-0	t-Butyl alcohol	0.46	4.60	ND	1.40	13.96	ND	
4227-95-6	Methyl iodide	0.46	1.38	ND	2.69	8.08	ND	
75-35-4	1,1-Dichloroethene	0.23	1.15	ND	0.91	4.56	ND	
107-13-1	Acrylonitrile	0.92	1.38	ND	2.00	3.00	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.23	1.15	ND	1.77	8.83	ND	
107-05-1	Allyl chloride	0.23	4.60	ND	0.72	14.41	ND	
75-09-2	Methylene chloride	0.23	1.15	ND	0.80	4.00	ND	
75-15-0	Carbon disulfide	0.46	1.15	ND	1.43	3.58	ND	
156-60-5	trans-1,2-Dichloroethene	0.23	0.92	ND	0.91	3.65	ND	
1634-04-4	Methyl tert butyl ether	0.46	0.92	ND	1.66	3.32	ND	
107-12-0	Propionitrile	1.15	1.84	ND	2.60	4.15	ND	
75-34-3	1,1-Dichloroethane	0.23	1.15	ND	0.93	4.66	ND	
637-92-3	Ethyl tert butyl ether	0.46	1.15	ND	1.93	4.81	ND	
108-05-4	Vinyl acetate	0.23	4.60	ND	0.81	16.22	ND	
78-93-3	2-Butanone (MEK)	0.46	1.38	2.30	1.36	4.07	6.78	
108-20-3	Diisopropyl ether	0.46	2.76	ND	1.93	11.55	ND	
110-54-3	Hexane	0.46	1.15	ND	1.62	4.06	ND	
126-98-7	Methacrylonitrile	0.46	1.15	ND	1.26	3.16	ND	
141-78-6	Ethyl acetate	0.46	1.15	ND	1.66	4.15	ND	
74-97-5	Bromochloromethane	0.23	1.15	ND	1.22	6.09	ND	
96-33-3	Methyl acrylate	0.46	2.30	ND	1.62	8.11	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.23	1.38	1.55	0.68	4.07	4.56	
78-83-1	Isobutyl alcohol	0.92	3.68	ND	2.79	11.17	ND	
156-59-2	cis-1,2-Dichloroethene	0.23	1.15	ND	0.91	4.56	ND	
594-20-7	2,2-Dichloropropane	0.23	1.15	ND	1.06	5.32	ND	
67-66-3	Chloroform	0.23	1.15	ND	1.13	5.62	ND	
71-55-6	1,1,1-Trichloroethane	0.23	1.15	ND	1.26	6.28	ND	
107-06-2	1,2-Dichloroethane	0.23	1.15	ND	0.93	4.66	ND	
563-58-6	1,1-Dichloropropene	0.23	1.15	ND	1.05	5.23	ND	
110-82-7	Cyclohexane	0.23	1.15	ND	0.79	3.97	ND	
71-43-2	Benzene	1.61	2.30	4.49	5.15	7.36	14.36	
56-23-5	Carbon tetrachloride	0.23	1.15	ND	1.45	7.24	ND	
994-05-8	t-Amyl methyl ether	0.46	2.30	ND	1.93	9.63	ND	
540-84-1	2,2,4-Trimethylpentane	0.23	1.15	ND	1.08	5.38	ND	
142-82-5	n-Heptane	0.46	1.15	ND	1.89	4.72	ND	
78-87-5	1,2-Dichloropropane	0.23	1.15	ND	1.06	5.32	ND	
123-91-1	1,4 Dioxane	0.46	2.30	ND	1.66	8.30	ND	
74-95-3	Dibromomethane	0.23	1.15	ND	1.64	8.19	ND	
79-01-6	Trichloroethene (TCE)	0.12	1.15	ND	0.62	6.19	ND	
75-27-4	Bromodichloromethane	0.23	1.15	ND	1.54	7.71	ND	
80-62-6	Methyl methacrylate	0.46	1.15	ND	1.89	4.71	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.46	3.68	ND	1.89	15.10	ND	
10061-01-5	cis-1,3-Dichloropropene	0.23	1.15	ND	1.05	5.23	ND	
108-88-3	Toluene	0.92	1.15	ND	3.47	4.34	ND	
10061-02-6	trans-1,3-Dichloropropene	0.23	1.15	ND	1.05	5.23	ND	
79-00-5	1,1,2-Trichloroethane	0.23	1.15	ND	1.26	6.28	ND	
97-63-2	Ethyl methacrylate	0.46	1.15	ND	2.15	5.38	ND	
591-78-6	2-Hexanone	0.46	3.68	ND	1.89	15.10	ND	
142-28-9	1,3-Dichloropropane	0.23	3.22	ND	1.06	14.90	ND	
111-65-9	Octane	0.46	1.15	ND	2.15	5.38	ND	
124-48-1	Dibromochloromethane	0.46	1.15	ND	3.92	9.81	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.46	1.15	ND	3.54	8.85	ND	
127-18-4	Tetrachloroethene (PCE)	0.12	1.15	ND	0.78	7.81	ND	
108-90-7	Chlorobenzene	0.46	1.15	ND	2.12	5.30	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.46	1.15	ND	3.16	7.90	ND	
100-41-4	Ethylbenzene	0.46	1.15	ND	2.00	5.00	ND	
1330-20-7	m,p-Xylenes	0.46	1.15	ND	2.00	5.00	ND	
111-84-2	Nonane	0.46	1.15	ND	2.42	6.04	ND	
100-42-5	Styrene	0.69	1.15	ND	2.94	4.91	ND	
75-25-2	Bromoform	0.46	1.15	ND	4.76	11.90	ND	
95-47-6	o-Xylene	0.46	1.15	ND	2.00	5.00	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.92	2.30	ND	6.32	15.81	ND	
96-18-4	1,2,3-Trichloropropane	0.92	2.76	ND	5.55	16.66	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.92	2.76	ND	4.71	14.13	ND	
103-65-1	n-Propylbenzene	0.92	3.22	ND	4.53	15.85	ND	
98-82-8	Isopropylbenzene	0.92	3.22	ND	4.53	15.85	ND	
622-96-8	4-Ethyltoluene	0.92	7.36	ND	4.53	36.23	ND	
108-67-8	1,3,5-Trimethylbenzene	0.92	4.14	ND	4.53	20.38	ND	
124-18-5	Decane	0.92	2.76	ND	5.36	16.08	ND	
98-06-6	tert-butyl benzene	0.92	2.76	ND	5.06	15.17	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.92	4.14	ND	4.53	20.38	ND	
538-93-2	i-Butylbenzene	0.92	2.76	ND	5.06	15.17	ND	
135-98-8	sec-butylbenzene	0.92	3.22	ND	5.06	17.70	ND	
541-73-1	1,3-Dichlorobenzene	0.92	3.68	ND	5.54	22.16	ND	
99-87-6	Isopropyltoluene	0.92	2.76	ND	5.06	15.17	ND	
100-44-7	Benzyl chloride	0.92	2.30	ND	4.77	11.93	ND	
106-46-7	1,4-Dichlorobenzene	0.92	2.30	ND	5.54	13.85	ND	
104-51-8	n-Butylbenzene	0.92	2.76	ND	5.06	15.17	ND	
95-50-1	1,2-Dichlorobenzene	0.92	3.22	ND	5.54	19.39	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.38	3.22	ND	13.36	31.16	ND	
120-82-1	1,2,4-Trichlorobenzene	1.38	2.30	ND	10.25	17.09	ND	
91-20-3	Naphthalene	2.30	0.46	ND	12.08	2.42	ND	
87-61-6	1,2,3-Trichlorobenzene	1.38	2.30	ND	10.25	17.09	ND	
87-68-3	Hexachlorobutadiene	1.15	1.38	ND	12.28	14.74	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	101	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**34**		
File Name:	2510034A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/20/25**	**Time:**	**12:46**
Sample ID:	T-216	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/02/25**	**Time:**	**14:54**
Anal Date:	2 Apr 125 2:54 pm	**SF:**	**2**	**QCbatch:**	**040225-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**896**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.38**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	DA	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.290	4.41	42.00	38080
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.424	4.86	31.00	248875
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoretha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.466	5.72	46.00	35329
107-02-8	Acrolein	12	TRG	0.458	6.32	56.00	31672
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	2.964	6.42	58.00	376863
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoretha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.040	7.61	76.00	18826
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.499	8.75	72.00	53181
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.336	9.72	72.00	38200
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.976	10.70	78.00	644713
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.067	13.50	91.00	61443
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.019	15.90	106	22713
1330-20-7	m,p-Xylenes	75	TRG	0.029	16.06	91.00	31901
111-84-2	Nonane	76	TRG	0.017	16.43	57.00	15132
100-42-5	Styrene	77	TRG	0.098	16.61	104.00	74662
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.014	16.56	91.00	16404
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.008	18.04	91.00	16800
98-82-8	Isopropylbenzene	84	TRG	0.045	18.23	105.00	99038
622-96-8	4-Ethyltoluene	85	TRG	0.023	18.23	105.00	34106
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.028	18.31	105.00	37594
124-18-5	Decane	87	TRG	0.013	18.60	57.00	20329
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.027	18.95	105.00	38334
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.064	19.53	119.00	127138
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.010	20.20	91.00	22894
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**10664140**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**12302073**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**13736783**
2037-26-5	Toluene-d8	103	SURR	10.149	13.40	98.00	**7675259**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**34**
File Name:	2510034A.D
Run Method:	A1563_P.M
Can Factor:	1.38
Air Volume:	300.0 ml
Can/Tube Number:	896
Dilution Factor:	0.4140
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.4140
Sig Figs:	2
MDLSF:	2

IS LCL	**50**
IS UCL	**200**
SUR LCL	**70**
SUR UCL	**130**
MDL Factor	**1.0**
E Flag	1.3

Gas Constant	
T	24.5
P	**760**
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.29	1.34	2.30	1.34	2.30	2.30	2.30	**0.100**	**0.250**	0.46	0.79	1.15
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	0.69	3.42	1.15
Methanol	32.0	0.42	1.95	2.56	ND	ND	0		**0.500**	**0.600**	2.30	3.01	2.76
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	0.69	1.43	1.15
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.46	3.22	1.15
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.23	0.59	1.15
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.23	0.51	1.15
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.46	1.79	1.15
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.46	1.22	1.15
Ethanol	46.1	0.47	2.14	4.04	ND	ND	0		**0.500**	**3.210**	2.30	4.34	14.77
Acrolein	56.1	0.46	2.11	4.84	2.11	4.84	4.84	4.84	**0.100**	**0.300**	0.46	1.06	1.38
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.46	2.59	1.15
Acetone	58.1	2.96	13.63	32.44	13.63	32.44	32.44	32.44	**0.500**	**0.600**	2.30	5.47	2.76
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**1.250**	0.92	2.26	5.75
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**1.000**	0.46	1.40	4.60
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	0.46	2.69	1.38
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.23	0.91	1.15
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.300**	0.92	2.00	1.38
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.23	1.77	1.15
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	0.23	0.72	4.60
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.23	0.80	1.15
Carbon disulfide	76.1	0.04	0.18	0.57	ND	ND	0		**0.100**	**0.250**	0.46	1.43	1.15
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.200**	0.23	0.91	0.92
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.200**	0.46	1.66	0.92
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		**0.250**	**0.400**	1.15	2.60	1.84
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.23	0.93	1.15
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.46	1.93	1.15
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	0.23	0.81	4.60
2-Butanone (MEK)	72.1	0.50	2.30	6.78	2.30	6.78	6.78	6.78	**0.100**	**0.300**	0.46	1.36	1.38
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.600**	0.46	1.93	2.76
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.46	1.62	1.15
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.46	1.26	1.15
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.46	1.66	1.15
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.23	1.22	1.15
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.46	1.62	2.30
Tetrahydrofuran	72.1	0.34	1.55	4.56	1.55	4.56	4.56	4.56	**0.050**	**0.300**	0.23	0.68	1.38
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.800**	0.92	2.79	3.68
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.23	0.91	1.15
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.23	1.06	1.15
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.23	1.13	1.15
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.23	1.26	1.15
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.23	0.93	1.15
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.23	1.05	1.15
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.23	0.79	1.15
Benzene	78.1	0.98	4.49	14.36	4.49	14.36	14.36	14.36	**0.350**	**0.500**	1.61	5.15	2.30
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.23	1.45	1.15
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.46	1.93	2.30
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.23	1.08	1.15
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.46	1.89	1.15

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.06	1.15
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.46	1.66	2.30
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.64	1.15
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.12	0.62	1.15
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.54	1.15
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.46	1.89	1.15
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.46	1.89	3.68
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.05	1.15
Toluene	92.1	0.07	0.31	1.16	ND	ND	0		0.200	0.250	0.92	3.47	1.15
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.05	1.15
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.23	1.26	1.15
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.46	2.15	1.15
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.46	1.89	3.68
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.23	1.06	3.22
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.46	2.15	1.15
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.46	3.92	1.15
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.46	3.54	1.15
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.12	0.78	1.15
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.46	2.12	1.15
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.46	3.16	1.15
Ethylbenzene	106.2	0.02	0.09	0.37	ND	ND	0		0.100	0.250	0.46	2.00	1.15
m,p-Xylenes	106.2	0.03	0.13	0.58	ND	ND	0		0.100	0.250	0.46	2.00	1.15
Nonane	128.3	0.02	0.08	0.42	ND	ND	0		0.100	0.250	0.46	2.42	1.15
Styrene	104.2	0.10	0.45	1.93	ND	ND	0		0.150	0.250	0.69	2.94	1.15
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.46	4.76	1.15
o-Xylene	106.2	0.01	0.07	0.29	ND	ND	0		0.100	0.250	0.46	2.00	1.15
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.92	6.32	2.30
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.92	5.55	2.76
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.92	4.71	2.76
n-Propylbenzene	120.2	0.01	0.04	0.18	ND	ND	0		0.200	0.700	0.92	4.53	3.22
Isopropylbenzene	120.2	0.04	0.21	1.01	ND	ND	0		0.200	0.700	0.92	4.53	3.22
4-Ethyltoluene	120.2	0.02	0.11	0.52	ND	ND	0		0.200	1.600	0.92	4.53	7.36
1,3,5-Trimethylbenzene	120.2	0.03	0.13	0.64	ND	ND	0		0.200	0.900	0.92	4.53	4.14
Decane	142.3	0.01	0.06	0.34	ND	ND	0		0.200	0.600	0.92	5.36	2.76
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.92	5.06	2.76
1,2,4-Trimethylbenzene	120.2	0.03	0.12	0.61	ND	ND	0		0.200	0.900	0.92	4.53	4.14
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.92	5.06	2.76
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.92	5.06	3.22
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.92	5.54	3.68
Isopropyltoluene	134.2	0.06	0.29	1.61	ND	ND	0		0.200	0.600	0.92	5.06	2.76
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.92	4.77	2.30
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.92	5.54	2.30
n-Butylbenzene	134.2	0.01	0.05	0.26	ND	ND	0		0.200	0.600	0.92	5.06	2.76
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.92	5.54	3.22
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.38	13.36	3.22
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.38	10.25	2.30
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.30	12.08	0.46
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.38	10.25	2.30
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.15	12.28	1.38
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		10.15	101	101	101	101	101	101	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.98				=		Y	1.34	2.30
5.69	U	ND		ND		Y	0.00	0.00
3.62	U	ND		ND		Y	0.00	0.00
2.38	U	ND		ND		Y	0.00	0.00
8.05	U	ND		ND		Y	0.00	0.00
2.94	U	ND		ND		Y	0.00	0.00
2.55	U	ND		ND		Y	0.00	0.00
4.47	U	ND		ND		Y	0.00	0.00
3.04	U	ND		ND		Y	0.00	0.00
27.88	U	ND		ND		Y	0.00	0.00
3.17				=		Y	2.11	4.84
6.47	U	ND		ND		Y	0.00	0.00
6.57				=		Y	13.63	32.44
14.15	U	ND		ND		Y	0.00	0.00
13.96	U	ND		ND		Y	0.00	0.00
8.08	U	ND		ND		Y	0.00	0.00
4.56	U	ND		ND		Y	0.00	0.00
3.00	U	ND		ND		Y	0.00	0.00
8.83	U	ND		ND		Y	0.00	0.00
14.41	U	ND		ND		Y	0.00	0.00
4.00	U	ND		ND		Y	0.00	0.00
3.58	U	ND		ND		Y	0.00	0.00
3.65	U	ND		ND		Y	0.00	0.00
3.32	U	ND		ND		Y	0.00	0.00
4.15	U	ND		ND		Y	0.00	0.00
4.66	U	ND		ND		Y	0.00	0.00
4.81	U	ND		ND		Y	0.00	0.00
16.22	U	ND		ND		Y	0.00	0.00
4.07				=		Y	2.30	6.78
11.55	U	ND		ND		Y	0.00	0.00
4.06	U	ND		ND		Y	0.00	0.00
3.16	U	ND		ND		Y	0.00	0.00
4.15	U	ND		ND		Y	0.00	0.00
6.09	U	ND		ND		Y	0.00	0.00
8.11	U	ND		ND		Y	0.00	0.00
4.07				=		Y	1.55	4.56
11.17	U	ND		ND		Y	0.00	0.00
4.56	U	ND		ND		Y	0.00	0.00
5.32	U	ND		ND		Y	0.00	0.00
5.62	U	ND		ND		Y	0.00	0.00
6.28	U	ND		ND		Y	0.00	0.00
4.66	U	ND		ND		Y	0.00	0.00
5.23	U	ND		ND		Y	0.00	0.00
3.97	U	ND		ND		Y	0.00	0.00
7.36				=		Y	4.49	14.36
7.24	U	ND		ND		Y	0.00	0.00
9.63	U	ND		ND		Y	0.00	0.00
5.38	U	ND		ND		Y	0.00	0.00
4.72	U	ND		ND		Y	0.00	0.00

5.32	U	ND	ND	Y	0.00	0.00
8.30	U	ND	ND	Y	0.00	0.00
8.19	U	ND	ND	Y	0.00	0.00
6.19	U	ND	ND	Y	0.00	0.00
7.71	U	ND	ND	Y	0.00	0.00
4.71	U	ND	ND	Y	0.00	0.00
15.10	U	ND	ND	Y	0.00	0.00
5.23	U	ND	ND	Y	0.00	0.00
4.34	U	ND	ND	Y	0.00	0.00
5.23	U	ND	ND	Y	0.00	0.00
6.28	U	ND	ND	Y	0.00	0.00
5.38	U	ND	ND	Y	0.00	0.00
15.10	U	ND	ND	Y	0.00	0.00
14.90	U	ND	ND	Y	0.00	0.00
5.38	U	ND	ND	Y	0.00	0.00
9.81	U	ND	ND	Y	0.00	0.00
8.85	U	ND	ND	Y	0.00	0.00
7.81	U	ND	ND	Y	0.00	0.00
5.30	U	ND	ND	Y	0.00	0.00
7.90	U	ND	ND	Y	0.00	0.00
5.00	U	ND	ND	Y	0.00	0.00
5.00	U	ND	ND	Y	0.00	0.00
6.04	U	ND	ND	Y	0.00	0.00
4.91	U	ND	ND	Y	0.00	0.00
11.90	U	ND	ND	Y	0.00	0.00
5.00	U	ND	ND	Y	0.00	0.00
15.81	U	ND	ND	Y	0.00	0.00
16.66	U	ND	ND	Y	0.00	0.00
14.13	U	ND	ND	Y	0.00	0.00
15.85	U	ND	ND	Y	0.00	0.00
15.85	U	ND	ND	Y	0.00	0.00
36.23	U	ND	ND	Y	0.00	0.00
20.38	U	ND	ND	Y	0.00	0.00
16.08	U	ND	ND	Y	0.00	0.00
15.17	U	ND	ND	Y	0.00	0.00
20.38	U	ND	ND	Y	0.00	0.00
15.17	U	ND	ND	Y	0.00	0.00
17.70	U	ND	ND	Y	0.00	0.00
22.16	U	ND	ND	Y	0.00	0.00
15.17	U	ND	ND	Y	0.00	0.00
11.93	U	ND	ND	Y	0.00	0.00
13.85	U	ND	ND	Y	0.00	0.00
15.17	U	ND	ND	Y	0.00	0.00
19.39	U	ND	ND	Y	0.00	0.00
31.16	U	ND	ND	Y	0.00	0.00
17.09	U	ND	ND	Y	0.00	0.00
2.42	U	ND	ND	Y	0.00	0.00
17.09	U	ND	ND	Y	0.00	0.00
14.74	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**34**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.38
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

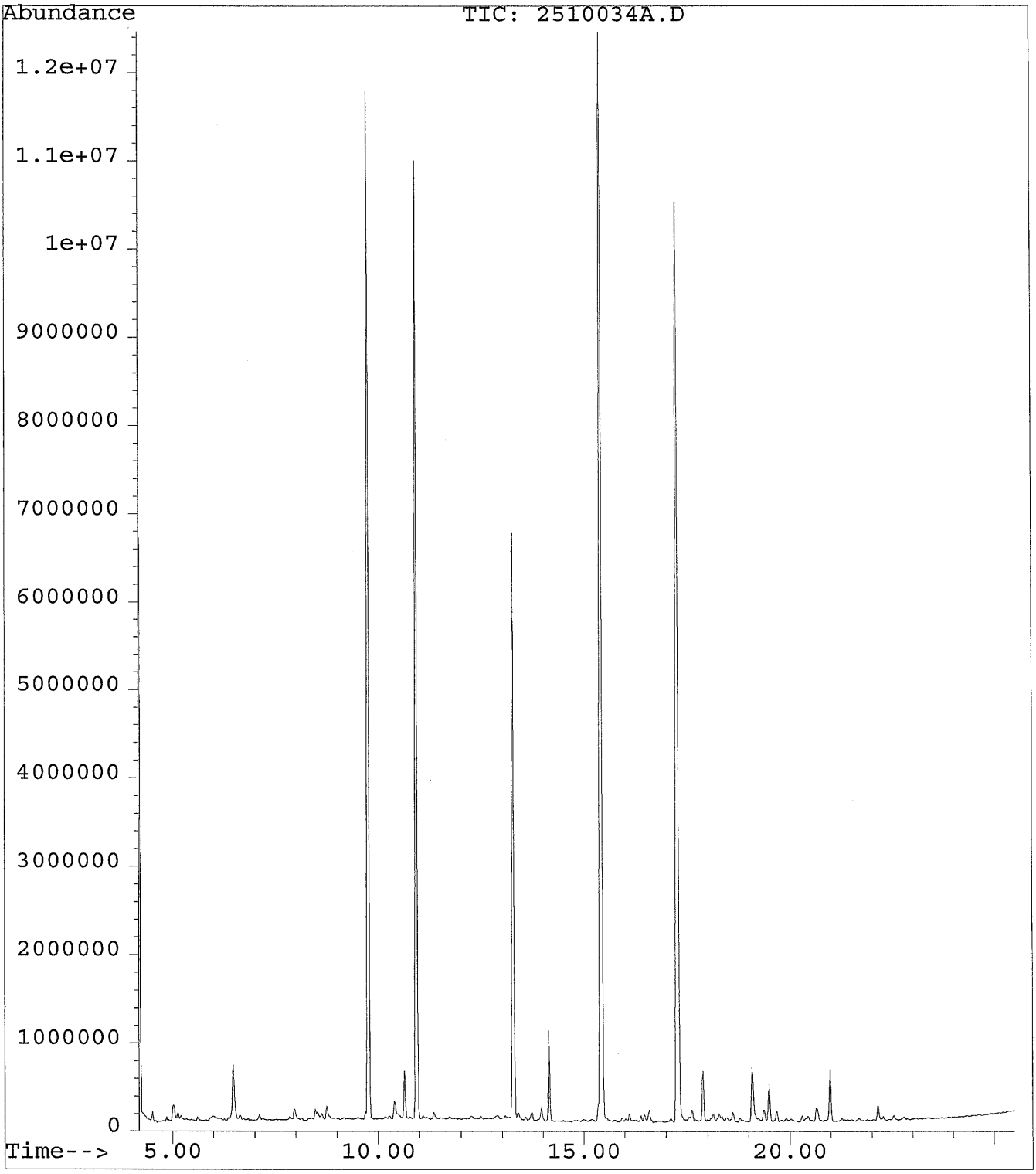
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	38080	20.0	10664140	0.290	1.34	2.30
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	10664140	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	248875	20.0	10664140	0.424	1.95	2.56
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	10664140	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	10664140	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	10664140	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	10664140	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	10664140	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	10664140	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	35329	20.0	10664140	0.466	2.14	4.04
12	Acrolein	PFB	TRG	56.1	0.130	31672	20.0	10664140	0.458	2.11	4.84
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	10664140	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	376863	20.0	10664140	2.964	13.63	32.44
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	0	20.0	10664140	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	10664140	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	10664140	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	10664140	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	10664140	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	10664140	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	10664140	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	10664140	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	18826	20.0	10664140	0.040	0.18	0.57
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	10664140	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	10664140	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	10664140	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	10664140	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	10664140	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	10664140	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	53181	20.0	10664140	0.499	2.30	6.78
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	10664140	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	10664140	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	10664140	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	10664140	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	10664140	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	10664140	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	38200	20.0	10664140	0.336	1.55	4.56
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	10664140	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	10664140	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	10664140	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	10664140	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	12302073	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	12302073	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	12302073	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	12302073	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	644713	20.0	12302073	0.976	4.49	14.36
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	12302073	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	12302073	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	12302073	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	12302073	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	12302073	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	12302073	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	12302073	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	12302073	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	12302073	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	12302073	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	12302073	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	12302073	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	61443	20.0	12302073	0.067	0.31	1.16
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	12302073	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	12302073	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	12302073	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	12302073	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	12302073	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	12302073	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	12302073	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	12302073	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	12302073	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	13736783	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	13736783	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	22713	20.0	13736783	0.019	0.09	0.37
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	31901	20.0	13736783	0.029	0.13	0.58
76	Nonane	d5CB	TRG	128.3	1.278	15132	20.0	13736783	0.017	0.08	0.42
77	Styrene	d5CB	TRG	104.2	1.106	74662	20.0	13736783	0.098	0.45	1.93
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	13736783	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	16404	20.0	13736783	0.014	0.07	0.29
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	13736783	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	13736783	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	13736783	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	16800	20.0	13736783	0.008	0.04	0.18
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	99038	20.0	13736783	0.045	0.21	1.01

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	34106	20.0	13736783	0.023	0.11	0.52
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	37594	20.0	13736783	0.028	0.13	0.64
87	Decane	d5CB	TRG	142.3	2.327	20329	20.0	13736783	0.013	0.06	0.34
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	13736783	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	38334	20.0	13736783	0.027	0.12	0.61
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	13736783	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	13736783	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	13736783	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	127138	20.0	13736783	0.064	0.29	1.61
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	13736783	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	13736783	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	22894	20.0	13736783	0.010	0.05	0.26
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	13736783	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	13736783	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	13736783	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	13736783	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	13736783	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	13736783	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	10664140	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	12302073	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	13736783	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	7675259	10.0		10.149	101.49	101

File : C:\MSCHEM\1\DATA\04025A_C\2510034A.D
Operator : DA
Acquired : 2 Apr 125 2:54 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-216
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **35**

Client ID T-217

Analytical Method TO-15

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Analytical Report
Quantitation Report
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Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 35**

File Name: 2510035A.D
Description: T-217
Canister: 634
QC_Batch: 040325-MA1

Date Sampled: 03/20/25 **Time:** 12:48
Date Analyzed: 04/03/25 **Time:** 21:41
Can Dilution Factor: 1.27
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.06	1.39	0.73	1.82	2.40	
75-71-8	Dichlorodifluoromethane	0.64	1.06	ND	3.14	5.24	ND	
67-56-1	Methanol	2.12	2.54	3.43	2.77	3.33	4.49	
74-87-3	Chloromethane	0.64	1.06	ND	1.31	2.19	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.06	ND	2.96	7.41	ND	
75-01-4	Vinyl chloride	0.21	1.06	ND	0.55	2.71	ND	
106-99-0	1,3-Butadiene	0.21	1.06	ND	0.47	2.34	ND	
74-83-9	Bromomethane	0.42	1.06	ND	1.65	4.11	ND	
75-00-3	Chloroethane	0.42	1.06	ND	1.12	2.80	ND	
64-17-5	Ethanol	2.12	13.59	ND	4.00	25.66	ND	
107-02-8	Acrolein	0.42	1.27	2.01	0.97	2.92	4.61	
75-69-4	Trichlorofluoromethane	0.42	1.06	ND	2.38	5.96	ND	
67-64-1	Acetone	2.12	2.54	24.53	5.04	6.04	58.37	
67-63-0	2-propanol (isopropylalcohol)	0.85	5.29	ND	2.08	13.02	ND	
75-65-0	t-Butyl alcohol	0.42	4.23	ND	1.28	12.85	ND	
4227-95-6	Methyl iodide	0.42	1.27	ND	2.48	7.43	ND	
75-35-4	1,1-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
107-13-1	Acrylonitrile	0.85	1.27	ND	1.84	2.76	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.06	ND	1.62	8.12	ND	
107-05-1	Allyl chloride	0.21	4.23	ND	0.66	13.26	ND	
75-09-2	Methylene chloride	0.21	1.06	ND	0.74	3.68	ND	
75-15-0	Carbon disulfide	0.42	1.06	ND	1.32	3.30	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.85	ND	0.84	3.36	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.85	ND	1.53	3.05	ND	
107-12-0	Propionitrile	1.06	1.69	ND	2.39	3.82	ND	
75-34-3	1,1-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.06	ND	1.77	4.43	ND	
108-05-4	Vinyl acetate	0.21	4.23	ND	0.75	14.93	ND	
78-93-3	2-Butanone (MEK)	0.42	1.27	2.93	1.25	3.75	8.66	
108-20-3	Diisopropyl ether	0.42	2.54	ND	1.77	10.63	ND	
110-54-3	Hexane	0.42	1.06	ND	1.49	3.74	ND	
126-98-7	Methacrylonitrile	0.42	1.06	ND	1.16	2.91	ND	
141-78-6	Ethyl acetate	0.42	1.06	ND	1.53	3.82	ND	
74-97-5	Bromochloromethane	0.21	1.06	ND	1.12	5.61	ND	
96-33-3	Methyl acrylate	0.42	2.12	ND	1.49	7.46	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.27	ND	0.63	3.75	ND	
78-83-1	Isobutyl alcohol	0.85	3.39	ND	2.57	10.28	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
594-20-7	2,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
67-66-3	Chloroform	0.21	1.06	ND	1.04	5.18	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
107-06-2	1,2-Dichloroethane	0.21	1.06	ND	0.86	4.29	ND	
563-58-6	1,1-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
110-82-7	Cyclohexane	0.21	1.06	ND	0.73	3.65	ND	
71-43-2	Benzene	1.48	2.12	3.18	4.74	6.77	10.18	
56-23-5	Carbon tetrachloride	0.21	1.06	ND	1.33	6.67	ND	
994-05-8	t-Amyl methyl ether	0.42	2.12	ND	1.77	8.86	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.06	ND	0.99	4.95	ND	
142-82-5	n-Heptane	0.42	1.06	ND	1.74	4.34	ND	
78-87-5	1,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
123-91-1	1,4 Dioxane	0.42	2.12	ND	1.53	7.64	ND	
74-95-3	Dibromomethane	0.21	1.06	ND	1.51	7.53	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.06	ND	0.57	5.70	ND	
75-27-4	Bromodichloromethane	0.21	1.06	ND	1.42	7.10	ND	
80-62-6	Methyl methacrylate	0.42	1.06	ND	1.74	4.34	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.39	ND	1.74	13.90	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
108-88-3	Toluene	0.85	1.06	ND	3.19	3.99	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
97-63-2	Ethyl methacrylate	0.42	1.06	ND	1.98	4.95	ND	
591-78-6	2-Hexanone	0.42	3.39	ND	1.74	13.90	ND	
142-28-9	1,3-Dichloropropane	0.21	2.96	ND	0.98	13.71	ND	
111-65-9	Octane	0.42	1.06	ND	1.98	4.95	ND	
124-48-1	Dibromochloromethane	0.42	1.06	ND	3.61	9.03	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.06	ND	3.26	8.14	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.06	0.28	0.72	7.19	1.92	J
108-90-7	Chlorobenzene	0.42	1.06	ND	1.95	4.88	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.06	ND	2.91	7.27	ND	
100-41-4	Ethylbenzene	0.42	1.06	ND	1.84	4.60	ND	
1330-20-7	m,p-Xylenes	0.42	1.06	ND	1.84	4.60	ND	
111-84-2	Nonane	0.42	1.06	ND	2.22	5.56	ND	
100-42-5	Styrene	0.64	1.06	ND	2.71	4.52	ND	
75-25-2	Bromoform	0.42	1.06	ND	4.38	10.95	ND	
95-47-6	o-Xylene	0.42	1.06	ND	1.84	4.60	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.85	2.12	ND	5.82	14.55	ND	
96-18-4	1,2,3-Trichloropropane	0.85	2.54	ND	5.11	15.33	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.85	2.54	ND	4.33	13.00	ND	
103-65-1	n-Propylbenzene	0.85	2.96	ND	4.17	14.59	ND	
98-82-8	Isopropylbenzene	0.85	2.96	ND	4.17	14.59	ND	
622-96-8	4-Ethyltoluene	0.85	6.77	ND	4.17	33.34	ND	
108-67-8	1,3,5-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
124-18-5	Decane	0.85	2.54	ND	4.93	14.80	ND	
98-06-6	tert-butyl benzene	0.85	2.54	ND	4.65	13.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
538-93-2	i-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
135-98-8	sec-butylbenzene	0.85	2.96	ND	4.65	16.29	ND	
541-73-1	1,3-Dichlorobenzene	0.85	3.39	ND	5.10	20.39	ND	
99-87-6	Isopropyltoluene	0.85	2.54	ND	4.65	13.96	ND	
100-44-7	Benzyl chloride	0.85	2.12	ND	4.39	10.97	ND	
106-46-7	1,4-Dichlorobenzene	0.85	2.12	ND	5.10	12.74	ND	
104-51-8	n-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
95-50-1	1,2-Dichlorobenzene	0.85	2.96	ND	5.10	17.84	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.27	2.96	ND	12.29	28.68	ND	
120-82-1	1,2,4-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
91-20-3	Naphthalene	2.12	0.42	ND	11.11	2.22	ND	
87-61-6	1,2,3-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
87-68-3	Hexachlorobutadiene	1.06	1.27	ND	11.30	13.56	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	103	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	225100		
				EAS ID:	35		
File Name:	2510035A.D	Method:	TO-15	Date Sampled:	03/20/25	Time:	12:48
Sample ID:	T-217	Matrix:	AA	Date Received:	03/21/25	Time:	14:30
MiscInfo-Vol:	SCHMIDT	Detect:	ND	Date Analyzed:	04/03/25	Time:	21:41
Anal Date:	3 Apr 125 7:41 pm	SF:	2	QCbatch:	040325-MA1		
Quant Method:	A15CS2_P.M	MDLSF:	2	Volume:	300.0		
Run Method:	A1563_P.M	Type:	TRG	Can (Vial) No:	634		
Cal Update:	Wed Apr 02 15:12:33 2025	Instrument:	MA1	Can Factor:	1.27		
Instrument:	5970 - MS	EDD SURR:	PERCENT	SamType:	SA		
Analyst:	SS	UnitDil:	1000	PPBV			
Template:	A15CHIQ.MA1	MDL FAC	1	UG/M3			
Temp	24.5	EFLAG:	1.3				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.329	4.41	42.00	44802
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.809	4.86	31.00	492384
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.474	6.32	56.00	33966
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	5.794	6.42	58.00	764472
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.079	6.45	45.00	43394
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.693	8.75	72.00	76607
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.752	10.70	78.00	510945
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.099	13.50	91.00	94260
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.067	14.69	166.00	31105
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.028	15.90	106	33966
1330-20-7	m,p-Xylenes	75	TRG	0.090	16.06	91.00	97649
111-84-2	Nonane	76	TRG	0.020	16.43	57.00	17869
100-42-5	Styrene	77	TRG	0.071	16.61	104.00	53405
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.054	16.54	91.00	61391
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.052	18.31	105.00	69577
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.025	18.95	105.00	35748
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.082	19.53	119.00	164570
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**11063852**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**12661251**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**13701101**
2037-26-5	Toluene-d8	103	SURR	10.253	13.40	98.00	**7980401**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**35**
File Name:	2510035A.D
Run Method:	A1563_P.M
Can Factor:	1.27
Air Volume:	300.0 ml
Can/Tube Number:	634
Dilution Factor:	0.3810
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3810
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.33	1.39	2.40	1.39	2.40	2.40	2.40	0.100	0.250	0.42	0.73	1.06
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.64	3.14	1.06
Methanol	32.0	0.81	3.43	4.49	3.43	4.49	4.49	4.49	0.500	0.600	2.12	2.77	2.54
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.64	1.31	1.06
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.96	1.06
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.55	1.06
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.47	1.06
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.65	1.06
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.12	1.06
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	2.12	4.00	13.59
Acrolein	56.1	0.47	2.01	4.61	2.01	4.61	4.61	4.61	0.100	0.300	0.42	0.97	1.27
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.38	1.06
Acetone	58.1	5.79	24.53	58.37	24.53	58.37	58.37	58.37	0.500	0.600	2.12	5.04	2.54
2-propanol (isopropylalcohol)	60.1	0.08	0.33	0.82	ND	ND	0		0.200	1.250	0.85	2.08	5.29
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.42	1.28	4.23
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.42	2.48	1.27
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.06
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.85	1.84	1.27
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.62	1.06
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.66	4.23
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.74	1.06
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.32	1.06
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.21	0.84	0.85
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.42	1.53	0.85
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.06	2.39	1.69
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.86	1.06
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.77	1.06
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.75	4.23
2-Butanone (MEK)	72.1	0.69	2.93	8.66	2.93	8.66	8.66	8.66	0.100	0.300	0.42	1.25	1.27
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.42	1.77	2.54
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.49	1.06
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.16	1.06
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.53	1.06
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.12	1.06
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.49	2.12
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.21	0.63	1.27
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.85	2.57	3.39
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.06
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.98	1.06
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.04	1.06
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.16	1.06
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.86	1.06
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.73	1.06
Benzene	78.1	0.75	3.18	10.18	3.18	10.18	10.18	10.18	0.350	0.500	1.48	4.74	2.12
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.33	1.06
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.77	2.12
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.99	1.06
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.74	1.06

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.98	1.06
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.53	2.12
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.51	1.06
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.57	1.06
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.42	1.06
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.74	1.06
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.42	1.74	3.39
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06
Toluene	92.1	0.10	0.42	1.58	ND	ND	0		0.200	0.250	0.85	3.19	1.06
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.16	1.06
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.98	1.06
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.42	1.74	3.39
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.21	0.98	2.96
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.98	1.06
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.61	1.06
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.26	1.06
Tetrachloroethene (PCE)	165.8	0.07	0.28	1.92	0.28	1.92	1.92	1.92	0.025	0.250	0.11	0.72	1.06
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.95	1.06
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.91	1.06
Ethylbenzene	106.2	0.03	0.12	0.51	ND	ND	0		0.100	0.250	0.42	1.84	1.06
m,p-Xylenes	106.2	0.09	0.38	1.65	ND	ND	0		0.100	0.250	0.42	1.84	1.06
Nonane	128.3	0.02	0.09	0.45	ND	ND	0		0.100	0.250	0.42	2.22	1.06
Styrene	104.2	0.07	0.30	1.27	ND	ND	0		0.150	0.250	0.64	2.71	1.06
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	4.38	1.06
o-Xylene	106.2	0.05	0.23	0.99	ND	ND	0		0.100	0.250	0.42	1.84	1.06
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	5.82	2.12
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	5.11	2.54
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.33	2.54
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.17	2.96
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.17	2.96
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.85	4.17	6.77
1,3,5-Trimethylbenzene	120.2	0.05	0.22	1.08	ND	ND	0		0.200	0.900	0.85	4.17	3.81
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.93	2.54
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.65	2.54
1,2,4-Trimethylbenzene	120.2	0.03	0.11	0.53	ND	ND	0		0.200	0.900	0.85	4.17	3.81
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.65	2.54
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.65	2.96
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.85	5.10	3.39
Isopropyltoluene	134.2	0.08	0.35	1.92	ND	ND	0		0.200	0.600	0.85	4.65	2.54
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	4.39	2.12
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	5.10	2.12
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.65	2.54
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	5.10	2.96
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.27	12.29	2.96
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.27	9.44	2.12
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.12	11.11	0.42
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.27	9.44	2.12
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.06	11.30	1.27
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		10.25	103	103	103	103	103	103	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.82				=		Y	1.39	2.40
5.24	U	ND		ND		Y	0.00	0.00
3.33				=		Y	3.43	4.49
2.19	U	ND		ND		Y	0.00	0.00
7.41	U	ND		ND		Y	0.00	0.00
2.71	U	ND		ND		Y	0.00	0.00
2.34	U	ND		ND		Y	0.00	0.00
4.11	U	ND		ND		Y	0.00	0.00
2.80	U	ND		ND		Y	0.00	0.00
25.66	U	ND		ND		Y	0.00	0.00
2.92				=		Y	2.01	4.61
5.96	U	ND		ND		Y	0.00	0.00
6.04				=		Y	24.53	58.37
13.02	U	ND		ND		Y	0.00	0.00
12.85	U	ND		ND		Y	0.00	0.00
7.43	U	ND		ND		Y	0.00	0.00
4.20	U	ND		ND		Y	0.00	0.00
2.76	U	ND		ND		Y	0.00	0.00
8.12	U	ND		ND		Y	0.00	0.00
13.26	U	ND		ND		Y	0.00	0.00
3.68	U	ND		ND		Y	0.00	0.00
3.30	U	ND		ND		Y	0.00	0.00
3.36	U	ND		ND		Y	0.00	0.00
3.05	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
4.29	U	ND		ND		Y	0.00	0.00
4.43	U	ND		ND		Y	0.00	0.00
14.93	U	ND		ND		Y	0.00	0.00
3.75				=		Y	2.93	8.66
10.63	U	ND		ND		Y	0.00	0.00
3.74	U	ND		ND		Y	0.00	0.00
2.91	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
5.61	U	ND		ND		Y	0.00	0.00
7.46	U	ND		ND		Y	0.00	0.00
3.75	U	ND		ND		Y	0.00	0.00
10.28	U	ND		ND		Y	0.00	0.00
4.20	U	ND		ND		Y	0.00	0.00
4.90	U	ND		ND		Y	0.00	0.00
5.18	U	ND		ND		Y	0.00	0.00
5.78	U	ND		ND		Y	0.00	0.00
4.29	U	ND		ND		Y	0.00	0.00
4.81	U	ND		ND		Y	0.00	0.00
3.65	U	ND		ND		Y	0.00	0.00
6.77				=		Y	3.18	10.18
6.67	U	ND		ND		Y	0.00	0.00
8.86	U	ND		ND		Y	0.00	0.00
4.95	U	ND		ND		Y	0.00	0.00
4.34	U	ND		ND		Y	0.00	0.00

4.90	U	ND	ND	Y	0.00	0.00
7.64	U	ND	ND	Y	0.00	0.00
7.53	U	ND	ND	Y	0.00	0.00
5.70	U	ND	ND	Y	0.00	0.00
7.10	U	ND	ND	Y	0.00	0.00
4.34	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
4.81	U	ND	ND	Y	0.00	0.00
3.99	U	ND	ND	Y	0.00	0.00
4.81	U	ND	ND	Y	0.00	0.00
5.78	U	ND	ND	Y	0.00	0.00
4.95	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
13.71	U	ND	ND	Y	0.00	0.00
4.95	U	ND	ND	Y	0.00	0.00
9.03	U	ND	ND	Y	0.00	0.00
8.14	U	ND	ND	Y	0.00	0.00
7.19	J	J	=	Y	0.28	1.92
4.88	U	ND	ND	Y	0.00	0.00
7.27	U	ND	ND	Y	0.00	0.00
4.60	U	ND	ND	Y	0.00	0.00
4.60	U	ND	ND	Y	0.00	0.00
5.56	U	ND	ND	Y	0.00	0.00
4.52	U	ND	ND	Y	0.00	0.00
10.95	U	ND	ND	Y	0.00	0.00
4.60	U	ND	ND	Y	0.00	0.00
14.55	U	ND	ND	Y	0.00	0.00
15.33	U	ND	ND	Y	0.00	0.00
13.00	U	ND	ND	Y	0.00	0.00
14.59	U	ND	ND	Y	0.00	0.00
14.59	U	ND	ND	Y	0.00	0.00
33.34	U	ND	ND	Y	0.00	0.00
18.76	U	ND	ND	Y	0.00	0.00
14.80	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
18.76	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
16.29	U	ND	ND	Y	0.00	0.00
20.39	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
10.97	U	ND	ND	Y	0.00	0.00
12.74	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
17.84	U	ND	ND	Y	0.00	0.00
28.68	U	ND	ND	Y	0.00	0.00
15.73	U	ND	ND	Y	0.00	0.00
2.22	U	ND	ND	Y	0.00	0.00
15.73	U	ND	ND	Y	0.00	0.00
13.56	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**35**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.27
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\frac{(Astdni)}{(Cstdni)} \frac{(Cistdi)}{(Aistdi)}_i$ Note: 1

2) Raw Amt = $\frac{(Ansamp)}{(Avg\ RFn)} \frac{(Cistdi)}{(Aistdi)}$ **= Cn**

3) Amount ppbv = $\frac{(Raw\ Amt)\ 1000}{(SV)}$ (CDF)

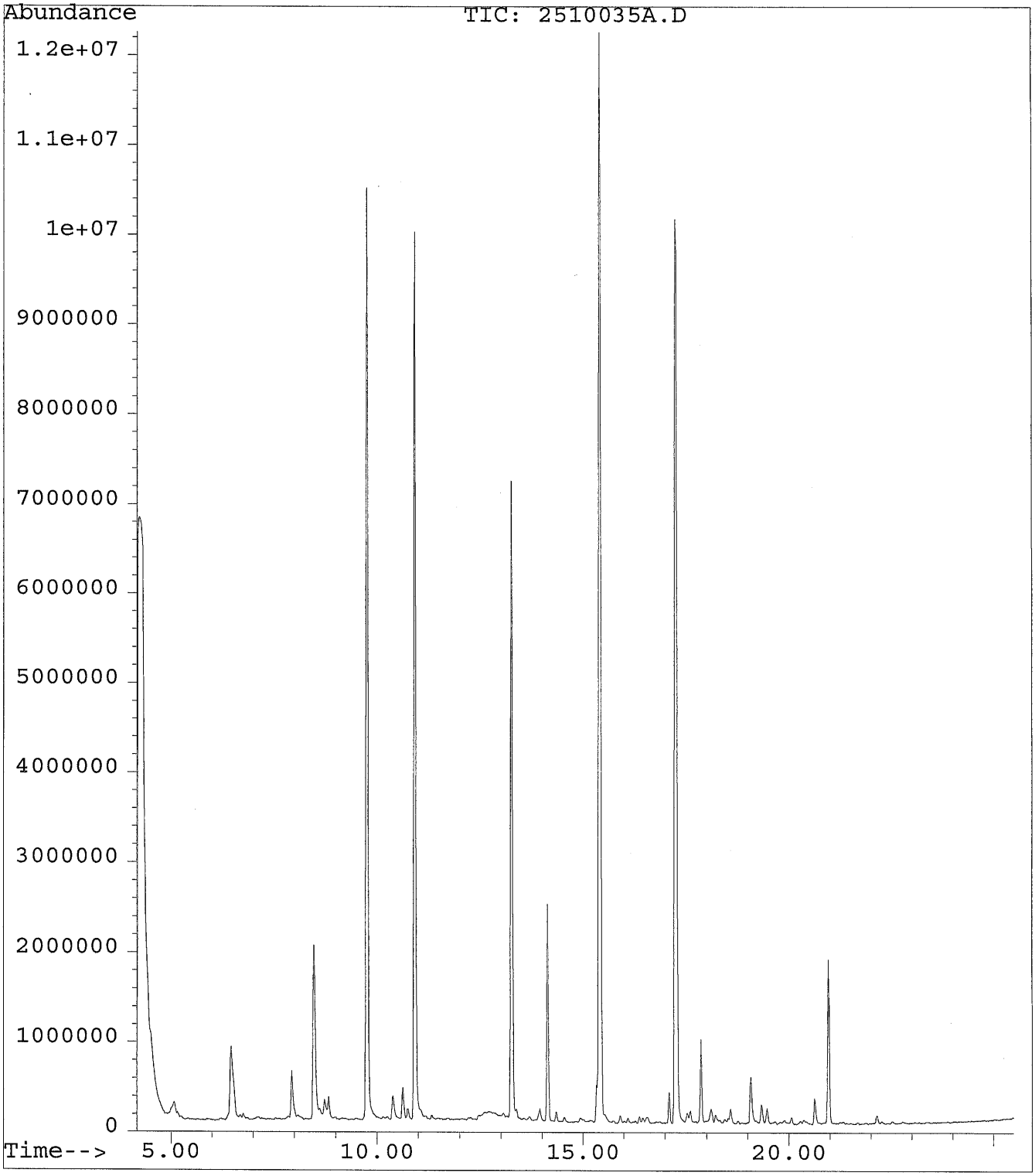
4) Amount ug/m3 = $\frac{(amt(ppbv)\ MW}{24.42}$

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	44802	20.0	11063852	0.329	1.39	2.40
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	11063852	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	492384	20.0	11063852	0.809	3.43	4.49
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	11063852	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	11063852	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	11063852	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	11063852	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	11063852	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	11063852	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	0	20.0	11063852	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.130	33966	20.0	11063852	0.474	2.01	4.61
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	11063852	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	764472	20.0	11063852	5.794	24.53	58.37
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	43394	20.0	11063852	0.079	0.33	0.82
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	11063852	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	11063852	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	11063852	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	11063852	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	11063852	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	11063852	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	11063852	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	11063852	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	11063852	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	11063852	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	11063852	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	11063852	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	11063852	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	11063852	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	76607	20.0	11063852	0.693	2.93	8.66
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	11063852	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	11063852	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	11063852	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	11063852	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	11063852	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	11063852	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	11063852	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	11063852	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	11063852	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	11063852	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	11063852	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	12661251	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	12661251	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	12661251	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	12661251	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	510945	20.0	12661251	0.752	3.18	10.18
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	12661251	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	12661251	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	12661251	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	12661251	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	12661251	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	12661251	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	12661251	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	12661251	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	12661251	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	12661251	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	12661251	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	12661251	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	94260	20.0	12661251	0.099	0.42	1.58
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	12661251	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	12661251	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	12661251	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	12661251	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	12661251	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	12661251	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	12661251	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	12661251	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	31105	20.0	12661251	0.067	0.28	1.92
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	13701101	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	13701101	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	33966	20.0	13701101	0.028	0.12	0.51
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	97649	20.0	13701101	0.090	0.38	1.65
76	Nonane	d5CB	TRG	128.3	1.278	17869	20.0	13701101	0.020	0.09	0.45
77	Styrene	d5CB	TRG	104.2	1.106	53405	20.0	13701101	0.071	0.30	1.27
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	13701101	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	61391	20.0	13701101	0.054	0.23	0.99
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	13701101	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	13701101	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	13701101	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	13701101	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	13701101	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	13701101	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	69577	20.0	13701101	0.052	0.22	1.08
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	13701101	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	13701101	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	35748	20.0	13701101	0.025	0.11	0.53
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	13701101	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	13701101	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	13701101	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	164570	20.0	13701101	0.082	0.35	1.92
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	13701101	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	13701101	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	13701101	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	13701101	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	13701101	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	13701101	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	13701101	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	13701101	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	13701101	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	11063852	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	12661251	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	13701101	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	7980401	10.0		10.253	102.53	103

File : C:\MSCHEM\1\DATA\04035A_C\2510035A.D
Operator : SS
Acquired : 3 Apr 125 7:41 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-217
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number 225100

Lab Id Number 36

Client ID T-218

Analytical Method TO-15

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Analytical Report
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Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 36**

File Name: 2510036A.D **Date Sampled:** 03/20/25 **Time:** 12:42
Description: T-218 **Date Analyzed:** 04/02/25 **Time:** 15:31
Canister: 698 **Can Dilution Factor:** 1.27
QC_Batch: 040225-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.06	ND	0.73	1.82	ND	
75-71-8	Dichlorodifluoromethane	0.64	1.06	ND	3.14	5.24	ND	
67-56-1	Methanol	2.12	2.54	16.36	2.77	3.33	21.44	
74-87-3	Chloromethane	0.64	1.06	ND	1.31	2.19	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.06	ND	2.96	7.41	ND	
75-01-4	Vinyl chloride	0.21	1.06	ND	0.55	2.71	ND	
106-99-0	1,3-Butadiene	0.21	1.06	ND	0.47	2.34	ND	
74-83-9	Bromomethane	0.42	1.06	ND	1.65	4.11	ND	
75-00-3	Chloroethane	0.42	1.06	ND	1.12	2.80	ND	
64-17-5	Ethanol	2.12	13.59	55.85	4.00	25.66	105.46	
107-02-8	Acrolein	0.42	1.27	1.68	0.97	2.92	3.85	
75-69-4	Trichlorofluoromethane	0.42	1.06	ND	2.38	5.96	ND	
67-64-1	Acetone	2.12	2.54	13.56	5.04	6.04	32.28	
67-63-0	2-propanol (isopropylalcohol)	0.85	5.29	ND	2.08	13.02	ND	
75-65-0	t-Butyl alcohol	0.42	4.23	ND	1.28	12.85	ND	
4227-95-6	Methyl iodide	0.42	1.27	ND	2.48	7.43	ND	
75-35-4	1,1-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
107-13-1	Acrylonitrile	0.85	1.27	ND	1.84	2.76	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.06	ND	1.62	8.12	ND	
107-05-1	Allyl chloride	0.21	4.23	ND	0.66	13.26	ND	
75-09-2	Methylene chloride	0.21	1.06	ND	0.74	3.68	ND	
75-15-0	Carbon disulfide	0.42	1.06	ND	1.32	3.30	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.85	ND	0.84	3.36	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.85	ND	1.53	3.05	ND	
107-12-0	Propionitrile	1.06	1.69	ND	2.39	3.82	ND	
75-34-3	1,1-Dichloroethane	0.21	1.06	0.27	0.86	4.29	1.10	J
637-92-3	Ethyl tert butyl ether	0.42	1.06	ND	1.77	4.43	ND	
108-05-4	Vinyl acetate	0.21	4.23	ND	0.75	14.93	ND	
78-93-3	2-Butanone (MEK)	0.42	1.27	1.78	1.25	3.75	5.25	
108-20-3	Diisopropyl ether	0.42	2.54	ND	1.77	10.63	ND	
110-54-3	Hexane	0.42	1.06	3.81	1.49	3.74	13.46	
126-98-7	Methacrylonitrile	0.42	1.06	ND	1.16	2.91	ND	
141-78-6	Ethyl acetate	0.42	1.06	ND	1.53	3.82	ND	
74-97-5	Bromochloromethane	0.21	1.06	ND	1.12	5.61	ND	
96-33-3	Methyl acrylate	0.42	2.12	ND	1.49	7.46	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.27	ND	0.63	3.75	ND	
78-83-1	Isobutyl alcohol	0.85	3.39	ND	2.57	10.28	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.06	ND	0.84	4.20	ND	
594-20-7	2,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
67-66-3	Chloroform	0.21	1.06	1.29	1.04	5.18	6.31	
71-55-6	1,1,1-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
107-06-2	1,2-Dichloroethane	0.21	1.06	0.36	0.86	4.29	1.47	J
563-58-6	1,1-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
110-82-7	Cyclohexane	0.21	1.06	9.03	0.73	3.65	31.14	
71-43-2	Benzene	1.48	2.12	5.31	4.74	6.77	16.98	
56-23-5	Carbon tetrachloride	0.21	1.06	ND	1.33	6.67	ND	
994-05-8	t-Amyl methyl ether	0.42	2.12	ND	1.77	8.86	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.06	10.40	0.99	4.95	48.66	
142-82-5	n-Heptane	0.42	1.06	ND	1.74	4.34	ND	
78-87-5	1,2-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	
123-91-1	1,4 Dioxane	0.42	2.12	ND	1.53	7.64	ND	
74-95-3	Dibromomethane	0.21	1.06	ND	1.51	7.53	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.06	1.88	0.57	5.70	10.11	
75-27-4	Bromodichloromethane	0.21	1.06	ND	1.42	7.10	ND	
80-62-6	Methyl methacrylate	0.42	1.06	ND	1.74	4.34	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.39	ND	1.74	13.90	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
108-88-3	Toluene	0.85	1.06	ND	3.19	3.99	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.06	ND	1.16	5.78	ND	
97-63-2	Ethyl methacrylate	0.42	1.06	ND	1.98	4.95	ND	
591-78-6	2-Hexanone	0.42	3.39	ND	1.74	13.90	ND	
142-28-9	1,3-Dichloropropane	0.21	2.96	ND	0.98	13.71	ND	
111-65-9	Octane	0.42	1.06	ND	1.98	4.95	ND	
124-48-1	Dibromochloromethane	0.42	1.06	ND	3.61	9.03	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.06	ND	3.26	8.14	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.06	1.76	0.72	7.19	11.95	
108-90-7	Chlorobenzene	0.42	1.06	ND	1.95	4.88	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.06	ND	2.91	7.27	ND	
100-41-4	Ethylbenzene	0.42	1.06	ND	1.84	4.60	ND	
1330-20-7	m,p-Xylenes	0.42	1.06	ND	1.84	4.60	ND	
111-84-2	Nonane	0.42	1.06	ND	2.22	5.56	ND	
100-42-5	Styrene	0.64	1.06	ND	2.71	4.52	ND	
75-25-2	Bromoform	0.42	1.06	ND	4.38	10.95	ND	
95-47-6	o-Xylene	0.42	1.06	ND	1.84	4.60	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.85	2.12	ND	5.82	14.55	ND	
96-18-4	1,2,3-Trichloropropane	0.85	2.54	ND	5.11	15.33	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.85	2.54	ND	4.33	13.00	ND	
103-65-1	n-Propylbenzene	0.85	2.96	ND	4.17	14.59	ND	
98-82-8	Isopropylbenzene	0.85	2.96	ND	4.17	14.59	ND	
622-96-8	4-Ethyltoluene	0.85	6.77	ND	4.17	33.34	ND	
108-67-8	1,3,5-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
124-18-5	Decane	0.85	2.54	ND	4.93	14.80	ND	
98-06-6	tert-butyl benzene	0.85	2.54	ND	4.65	13.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.85	3.81	ND	4.17	18.76	ND	
538-93-2	i-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
135-98-8	sec-butylbenzene	0.85	2.96	ND	4.65	16.29	ND	
541-73-1	1,3-Dichlorobenzene	0.85	3.39	ND	5.10	20.39	ND	
99-87-6	Isopropyltoluene	0.85	2.54	ND	4.65	13.96	ND	
100-44-7	Benzyl chloride	0.85	2.12	ND	4.39	10.97	ND	
106-46-7	1,4-Dichlorobenzene	0.85	2.12	ND	5.10	12.74	ND	
104-51-8	n-Butylbenzene	0.85	2.54	ND	4.65	13.96	ND	
95-50-1	1,2-Dichlorobenzene	0.85	2.96	ND	5.10	17.84	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.27	2.96	ND	12.29	28.68	ND	
120-82-1	1,2,4-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
91-20-3	Naphthalene	2.12	0.42	ND	11.11	2.22	ND	
87-61-6	1,2,3-Trichlorobenzene	1.27	2.12	ND	9.44	15.73	ND	
87-68-3	Hexachlorobutadiene	1.06	1.27	ND	11.30	13.56	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	127	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**36**		
File Name:	2510036A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/20/25**	**Time:**	**12:42**
Sample ID:	T-218	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/02/25**	**Time:**	**15:31**
Anal Date:	2 Apr 125 3:31 pm	**SF:**	**2**	**QCbatch:**	**040225-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**698**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.27**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	DA	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.000	4.41	42.00	0
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	3.865	4.86	31.00	2189393
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	13.194	5.72	46.00	967171
107-02-8	Acrolein	12	TRG	0.396	6.32	56.00	26445
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	3.204	6.42	58.00	393700
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.064	8.41	63.00	26371
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.420	8.75	72.00	43201
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.901	8.86	57.00	342969
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.305	9.42	83.00	**112244**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.086	10.27	61.95	30310
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	2.133	10.74	56.00	747963
71-43-2	Benzene	47	TRG	1.254	10.70	78.00	795493
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	2.458	11.25	57.00	2926029
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.444	10.70	130.00	127644
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.088	13.50	91.00	78266
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.416	14.69	166.00	180922
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.016	15.90	106	18831
1330-20-7	m,p-Xylenes	75	TRG	0.039	16.06	91.00	42414
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.045	16.61	104.00	33772
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.022	16.56	91.00	24769
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.000	18.31	105.00	0
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.024	18.95	105.00	33425
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.023	19.53	119.00	45105
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**10304370**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**11820254**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**13572789**
2037-26-5	Toluene-d8	103	SURR	12.728	13.40	98.00	**9249269**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

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1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.98	1.06
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.53	2.12
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.51	1.06
Trichloroethene (TCE)	131.4	0.44	1.88	10.11	1.88	10.11	10.11	10.11	0.025	0.250	0.11	0.57	1.06
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.42	1.06
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.74	1.06
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.42	1.74	3.39
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06
Toluene	92.1	0.09	0.37	1.41	ND	ND	0		0.200	0.250	0.85	3.19	1.06
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.06
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.16	1.06
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.98	1.06
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.42	1.74	3.39
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.21	0.98	2.96
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.98	1.06
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.61	1.06
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.26	1.06
Tetrachloroethene (PCE)	165.8	0.42	1.76	11.95	1.76	11.95	11.95	11.95	0.025	0.250	0.11	0.72	1.06
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.95	1.06
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.91	1.06
Ethylbenzene	106.2	0.02	0.07	0.29	ND	ND	0		0.100	0.250	0.42	1.84	1.06
m,p-Xylenes	106.2	0.04	0.17	0.72	ND	ND	0		0.100	0.250	0.42	1.84	1.06
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.22	1.06
Styrene	104.2	0.05	0.19	0.81	ND	ND	0		0.150	0.250	0.64	2.71	1.06
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	4.38	1.06
o-Xylene	106.2	0.02	0.09	0.40	ND	ND	0		0.100	0.250	0.42	1.84	1.06
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	5.82	2.12
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	5.11	2.54
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.33	2.54
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.17	2.96
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.17	2.96
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.85	4.17	6.77
1,3,5-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.85	4.17	3.81
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.93	2.54
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.65	2.54
1,2,4-Trimethylbenzene	120.2	0.02	0.10	0.50	ND	ND	0		0.200	0.900	0.85	4.17	3.81
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.65	2.54
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.65	2.96
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.85	5.10	3.39
Isopropyltoluene	134.2	0.02	0.10	0.53	ND	ND	0		0.200	0.600	0.85	4.65	2.54
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	4.39	2.12
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	5.10	2.12
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.65	2.54
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	5.10	2.96
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.27	12.29	2.96
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.27	9.44	2.12
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.12	11.11	0.42
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.27	9.44	2.12
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.06	11.30	1.27
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		12.73	127	127	127	127	127	127	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.82	U	ND		ND		Y	0.00	0.00
5.24	U	ND		ND		Y	0.00	0.00
3.33				=		Y	16.36	21.44
2.19	U	ND		ND		Y	0.00	0.00
7.41	U	ND		ND		Y	0.00	0.00
2.71	U	ND		ND		Y	0.00	0.00
2.34	U	ND		ND		Y	0.00	0.00
4.11	U	ND		ND		Y	0.00	0.00
2.80	U	ND		ND		Y	0.00	0.00
25.66				=		Y	55.85	105.46
2.92				=		Y	1.68	3.85
5.96	U	ND		ND		Y	0.00	0.00
6.04				=		Y	13.56	32.28
13.02	U	ND		ND		Y	0.00	0.00
12.85	U	ND		ND		Y	0.00	0.00
7.43	U	ND		ND		Y	0.00	0.00
4.20	U	ND		ND		Y	0.00	0.00
2.76	U	ND		ND		Y	0.00	0.00
8.12	U	ND		ND		Y	0.00	0.00
13.26	U	ND		ND		Y	0.00	0.00
3.68	U	ND		ND		Y	0.00	0.00
3.30	U	ND		ND		Y	0.00	0.00
3.36	U	ND		ND		Y	0.00	0.00
3.05	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
4.29	J	J		=		Y	0.27	1.10
4.43	U	ND		ND		Y	0.00	0.00
14.93	U	ND		ND		Y	0.00	0.00
3.75				=		Y	1.78	5.25
10.63	U	ND		ND		Y	0.00	0.00
3.74				=		Y	3.81	13.46
2.91	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
5.61	U	ND		ND		Y	0.00	0.00
7.46	U	ND		ND		Y	0.00	0.00
3.75	U	ND		ND		Y	0.00	0.00
10.28	U	ND		ND		Y	0.00	0.00
4.20	U	ND		ND		Y	0.00	0.00
4.90	U	ND		ND		Y	0.00	0.00
5.18				=		Y	1.29	6.31
5.78	U	ND		ND		Y	0.00	0.00
4.29	J	J		=		Y	0.36	1.47
4.81	U	ND		ND		Y	0.00	0.00
3.65				=		Y	9.03	31.14
6.77				=		Y	5.31	16.98
6.67	U	ND		ND		Y	0.00	0.00
8.86	U	ND		ND		Y	0.00	0.00
4.95				=		Y	10.40	48.66
4.34	U	ND		ND		Y	0.00	0.00

4.90	U	ND	ND	Y	0.00	0.00
7.64	U	ND	ND	Y	0.00	0.00
7.53	U	ND	ND	Y	0.00	0.00
5.70			=	Y	1.88	10.11
7.10	U	ND	ND	Y	0.00	0.00
4.34	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
4.81	U	ND	ND	Y	0.00	0.00
3.99	U	ND	ND	Y	0.00	0.00
4.81	U	ND	ND	Y	0.00	0.00
5.78	U	ND	ND	Y	0.00	0.00
4.95	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
13.71	U	ND	ND	Y	0.00	0.00
4.95	U	ND	ND	Y	0.00	0.00
9.03	U	ND	ND	Y	0.00	0.00
8.14	U	ND	ND	Y	0.00	0.00
7.19			=	Y	1.76	11.95
4.88	U	ND	ND	Y	0.00	0.00
7.27	U	ND	ND	Y	0.00	0.00
4.60	U	ND	ND	Y	0.00	0.00
4.60	U	ND	ND	Y	0.00	0.00
5.56	U	ND	ND	Y	0.00	0.00
4.52	U	ND	ND	Y	0.00	0.00
10.95	U	ND	ND	Y	0.00	0.00
4.60	U	ND	ND	Y	0.00	0.00
14.55	U	ND	ND	Y	0.00	0.00
15.33	U	ND	ND	Y	0.00	0.00
13.00	U	ND	ND	Y	0.00	0.00
14.59	U	ND	ND	Y	0.00	0.00
14.59	U	ND	ND	Y	0.00	0.00
33.34	U	ND	ND	Y	0.00	0.00
18.76	U	ND	ND	Y	0.00	0.00
14.80	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
18.76	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
16.29	U	ND	ND	Y	0.00	0.00
20.39	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
10.97	U	ND	ND	Y	0.00	0.00
12.74	U	ND	ND	Y	0.00	0.00
13.96	U	ND	ND	Y	0.00	0.00
17.84	U	ND	ND	Y	0.00	0.00
28.68	U	ND	ND	Y	0.00	0.00
15.73	U	ND	ND	Y	0.00	0.00
2.22	U	ND	ND	Y	0.00	0.00
15.73	U	ND	ND	Y	0.00	0.00
13.56	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**36**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.27
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum (Astdni) (Cistdi) / (Cstdni) (Aistdi) i — Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) **= Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

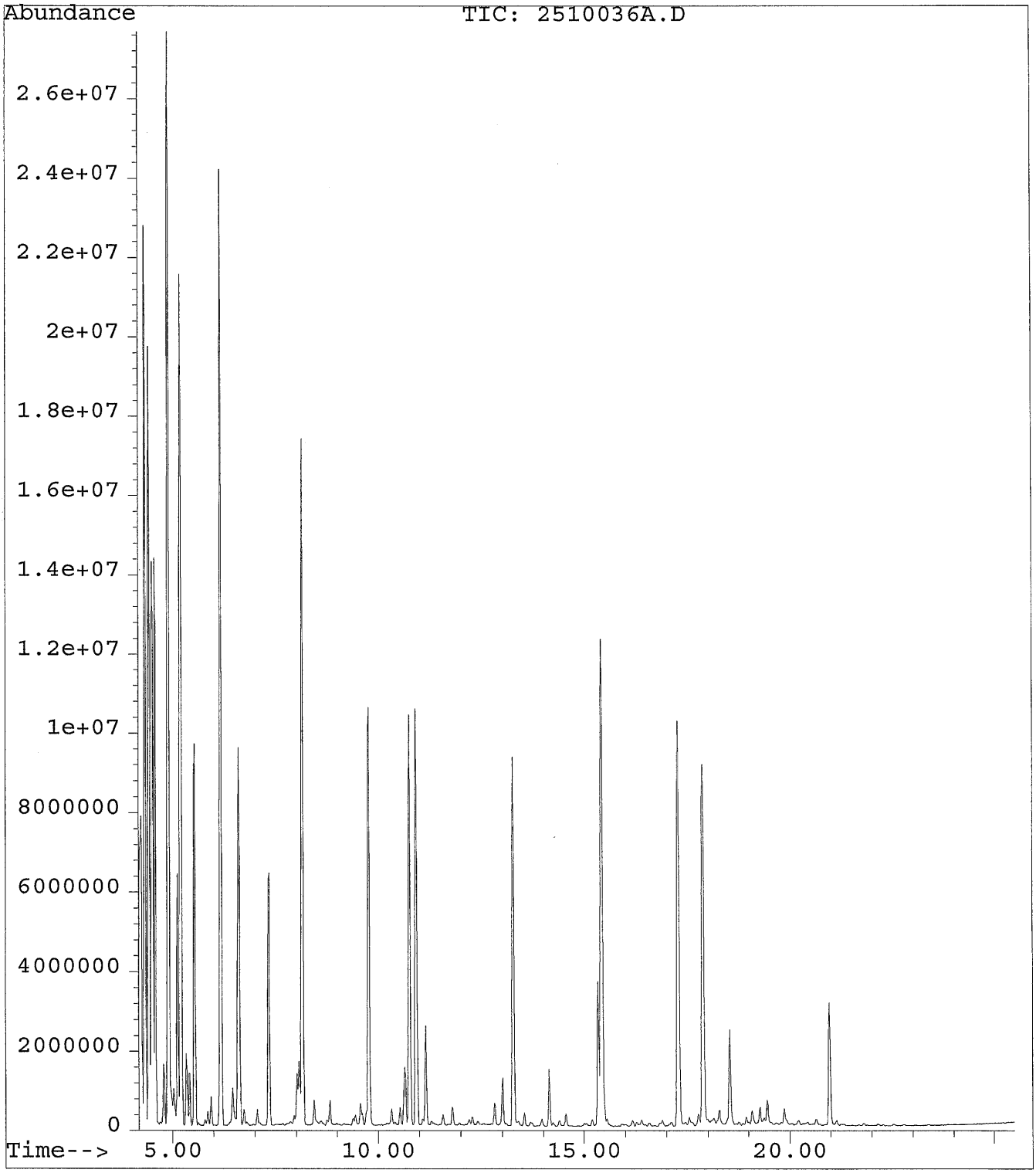
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	0	20.0	10304370	0.000	0.00	0.00
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	10304370	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	2189393	20.0	10304370	3.865	16.36	21.44
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	10304370	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	10304370	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	10304370	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	10304370	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	10304370	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	10304370	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	967171	20.0	10304370	13.194	55.85	105.46
12	Acrolein	PFB	TRG	56.1	0.130	26445	20.0	10304370	0.396	1.68	3.85
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	10304370	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	393700	20.0	10304370	3.204	13.56	32.28
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	0	20.0	10304370	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	10304370	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	10304370	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	10304370	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	10304370	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	10304370	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	10304370	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	10304370	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	10304370	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	10304370	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	10304370	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	10304370	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	26371	20.0	10304370	0.064	0.27	1.10
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	10304370	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	10304370	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	43201	20.0	10304370	0.420	1.78	5.25
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	10304370	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	342969	20.0	10304370	0.901	3.81	13.46

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	10304370	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	10304370	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	10304370	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	10304370	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	10304370	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	10304370	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	10304370	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	10304370	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	112244	20.0	10304370	0.305	1.29	6.31
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	11820254	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	30310	20.0	11820254	0.086	0.36	1.47
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	11820254	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	747963	20.0	11820254	2.133	9.03	31.14
47	Benzene	14DF	TRG	78.1	1.074	795493	20.0	11820254	1.254	5.31	16.98
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	11820254	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	11820254	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	2926029	20.0	11820254	2.458	10.40	48.66
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	11820254	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	11820254	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	11820254	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	11820254	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	127644	20.0	11820254	0.444	1.88	10.11
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	11820254	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	11820254	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	11820254	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	11820254	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	78266	20.0	11820254	0.088	0.37	1.41
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	11820254	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	11820254	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	11820254	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	11820254	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	11820254	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	11820254	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	11820254	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	11820254	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	180922	20.0	11820254	0.416	1.76	11.95
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	13572789	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	13572789	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	18831	20.0	13572789	0.016	0.07	0.29
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	42414	20.0	13572789	0.039	0.17	0.72
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	13572789	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	33772	20.0	13572789	0.045	0.19	0.81
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	13572789	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	24769	20.0	13572789	0.022	0.09	0.40
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	13572789	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	13572789	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	13572789	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	13572789	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	13572789	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	13572789	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	0	20.0	13572789	0.000	0.00	0.00
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	13572789	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	13572789	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	33425	20.0	13572789	0.024	0.10	0.50
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	13572789	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	13572789	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	13572789	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	45105	20.0	13572789	0.023	0.10	0.53
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	13572789	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	13572789	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	13572789	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	13572789	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	13572789	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	13572789	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	13572789	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	13572789	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	13572789	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	10304370	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	11820254	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	13572789	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9249269	10.0		12.728	127.28	127

File : C:\MSCHEM\1\DATA\04025A_C\2510036A.D
Operator : DA
Acquired : 2 Apr 125 3:31 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-218
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **37**

Client ID T-301

Analytical Method TO-15

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 37

File Name: 2510037A.D
Description: T-301
Canister: 638
QC_Batch: 040225-MA1

Date Sampled: 03/21/25 **Time:** 07:58
Date Analyzed: 04/02/25 **Time:** 16:09
Can Dilution Factor: 1.19
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	0.99	0.58	0.68	1.71	1.00	J
75-71-8	Dichlorodifluoromethane	0.60	0.99	ND	2.95	4.91	ND	
67-56-1	Methanol	1.98	2.38	2.57	2.60	3.12	3.37	
74-87-3	Chloromethane	0.60	0.99	ND	1.23	2.05	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	0.99	ND	2.78	6.94	ND	
75-01-4	Vinyl chloride	0.20	0.99	ND	0.51	2.54	ND	
106-99-0	1,3-Butadiene	0.20	0.99	ND	0.44	2.20	ND	
74-83-9	Bromomethane	0.40	0.99	ND	1.54	3.85	ND	
75-00-3	Chloroethane	0.40	0.99	ND	1.05	2.62	ND	
64-17-5	Ethanol	1.98	12.73	ND	3.74	24.04	ND	
107-02-8	Acrolein	0.40	1.19	0.79	0.91	2.73	1.81	J
75-69-4	Trichlorofluoromethane	0.40	0.99	ND	2.23	5.58	ND	
67-64-1	Acetone	1.98	2.38	2.99	4.72	5.66	7.12	
67-63-0	2-propanol (isopropylalcohol)	0.79	4.96	ND	1.95	12.20	ND	
75-65-0	t-Butyl alcohol	0.40	3.97	ND	1.20	12.04	ND	
4227-95-6	Methyl iodide	0.40	1.19	ND	2.32	6.96	ND	
75-35-4	1,1-Dichloroethene	0.20	0.99	ND	0.79	3.94	ND	
107-13-1	Acrylonitrile	0.79	1.19	ND	1.73	2.59	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	0.99	ND	1.52	7.61	ND	
107-05-1	Allyl chloride	0.20	3.97	ND	0.62	12.43	ND	
75-09-2	Methylene chloride	0.20	0.99	ND	0.69	3.45	ND	
75-15-0	Carbon disulfide	0.40	0.99	ND	1.24	3.09	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.79	ND	0.79	3.15	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.79	ND	1.43	2.86	ND	
107-12-0	Propionitrile	0.99	1.59	ND	2.24	3.58	ND	
75-34-3	1,1-Dichloroethane	0.20	0.99	ND	0.80	4.02	ND	
637-92-3	Ethyl tert butyl ether	0.40	0.99	ND	1.66	4.15	ND	
108-05-4	Vinyl acetate	0.20	3.97	ND	0.70	13.99	ND	
78-93-3	2-Butanone (MEK)	0.40	1.19	ND	1.17	3.51	ND	
108-20-3	Diisopropyl ether	0.40	2.38	ND	1.66	9.96	ND	
110-54-3	Hexane	0.40	0.99	ND	1.40	3.50	ND	
126-98-7	Methacrylonitrile	0.40	0.99	ND	1.09	2.73	ND	
141-78-6	Ethyl acetate	0.40	0.99	ND	1.43	3.58	ND	
74-97-5	Bromochloromethane	0.20	0.99	ND	1.05	5.26	ND	
96-33-3	Methyl acrylate	0.40	1.98	ND	1.40	6.99	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.19	ND	0.59	3.51	ND	
78-83-1	Isobutyl alcohol	0.79	3.17	ND	2.41	9.63	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	0.99	ND	0.79	3.94	ND	
594-20-7	2,2-Dichloropropane	0.20	0.99	ND	0.92	4.59	ND	
67-66-3	Chloroform	0.20	0.99	ND	0.97	4.85	ND	
71-55-6	1,1,1-Trichloroethane	0.20	0.99	ND	1.08	5.42	ND	
107-06-2	1,2-Dichloroethane	0.20	0.99	ND	0.80	4.02	ND	
563-58-6	1,1-Dichloropropene	0.20	0.99	ND	0.90	4.51	ND	
110-82-7	Cyclohexane	0.20	0.99	ND	0.68	3.42	ND	
71-43-2	Benzene	1.39	1.98	1.95	4.44	6.34	6.25	J
56-23-5	Carbon tetrachloride	0.20	0.99	ND	1.25	6.25	ND	
994-05-8	t-Amyl methyl ether	0.40	1.98	ND	1.66	8.30	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	0.99	ND	0.93	4.64	ND	
142-82-5	n-Heptane	0.40	0.99	ND	1.63	4.07	ND	
78-87-5	1,2-Dichloropropane	0.20	0.99	ND	0.92	4.59	ND	
123-91-1	1,4 Dioxane	0.40	1.98	ND	1.43	7.16	ND	
74-95-3	Dibromomethane	0.20	0.99	ND	1.41	7.06	ND	
79-01-6	Trichloroethene (TCE)	0.10	0.99	ND	0.53	5.34	ND	
75-27-4	Bromodichloromethane	0.20	0.99	ND	1.33	6.65	ND	
80-62-6	Methyl methacrylate	0.40	0.99	ND	1.63	4.07	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.17	ND	1.63	13.02	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	0.99	ND	0.90	4.51	ND	
108-88-3	Toluene	0.79	0.99	ND	2.99	3.74	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	0.99	ND	0.90	4.51	ND	
79-00-5	1,1,2-Trichloroethane	0.20	0.99	ND	1.08	5.42	ND	
97-63-2	Ethyl methacrylate	0.40	0.99	ND	1.86	4.64	ND	
591-78-6	2-Hexanone	0.40	3.17	ND	1.63	13.02	ND	
142-28-9	1,3-Dichloropropane	0.20	2.78	ND	0.92	12.85	ND	
111-65-9	Octane	0.40	0.99	ND	1.86	4.64	ND	
124-48-1	Dibromochloromethane	0.40	0.99	ND	3.38	8.46	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	0.99	ND	3.05	7.63	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	0.99	ND	0.67	6.73	ND	
108-90-7	Chlorobenzene	0.40	0.99	ND	1.83	4.57	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	0.99	ND	2.73	6.81	ND	
100-41-4	Ethylbenzene	0.40	0.99	ND	1.73	4.31	ND	
1330-20-7	m,p-Xylenes	0.40	0.99	ND	1.73	4.31	ND	
111-84-2	Nonane	0.40	0.99	ND	2.08	5.21	ND	
100-42-5	Styrene	0.60	0.99	ND	2.54	4.23	ND	
75-25-2	Bromoform	0.40	0.99	ND	4.11	10.26	ND	
95-47-6	o-Xylene	0.40	0.99	ND	1.73	4.31	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.79	1.98	ND	5.45	13.63	ND	
96-18-4	1,2,3-Trichloropropane	0.79	2.38	ND	4.79	14.37	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.79	2.38	ND	4.06	12.18	ND	
103-65-1	n-Propylbenzene	0.79	2.78	ND	3.91	13.67	ND	
98-82-8	Isopropylbenzene	0.79	2.78	ND	3.91	13.67	ND	
622-96-8	4-Ethyltoluene	0.79	6.35	ND	3.91	31.24	ND	
108-67-8	1,3,5-Trimethylbenzene	0.79	3.57	ND	3.91	17.57	ND	
124-18-5	Decane	0.79	2.38	ND	4.62	13.87	ND	
98-06-6	tert-butyl benzene	0.79	2.38	ND	4.36	13.08	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.79	3.57	ND	3.91	17.57	ND	
538-93-2	i-Butylbenzene	0.79	2.38	ND	4.36	13.08	ND	
135-98-8	sec-butylbenzene	0.79	2.78	ND	4.36	15.26	ND	
541-73-1	1,3-Dichlorobenzene	0.79	3.17	ND	4.78	19.10	ND	
99-87-6	Isopropyltoluene	0.79	2.38	ND	4.36	13.08	ND	
100-44-7	Benzyl chloride	0.79	1.98	ND	4.11	10.28	ND	
106-46-7	1,4-Dichlorobenzene	0.79	1.98	ND	4.78	11.94	ND	
104-51-8	n-Butylbenzene	0.79	2.38	ND	4.36	13.08	ND	
95-50-1	1,2-Dichlorobenzene	0.79	2.78	ND	4.78	16.72	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.19	2.78	ND	11.52	26.87	ND	
120-82-1	1,2,4-Trichlorobenzene	1.19	1.98	ND	8.84	14.73	ND	
91-20-3	Naphthalene	1.98	0.40	ND	10.41	2.08	ND	
87-61-6	1,2,3-Trichlorobenzene	1.19	1.98	ND	8.84	14.73	ND	
87-68-3	Hexachlorobutadiene	0.99	1.19	ND	10.59	12.71	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	104	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**37**		
File Name:	2510037A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/21/25**	**Time:**	**7:58**
Sample ID:	T-301	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/02/25**	**Time:**	**16:09**
Anal Date:	2 Apr 125 4:09 pm	**SF:**	**2**	**QCbatch:**	**040225-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**638**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.19**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	DA	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.147	4.41	42.00	23847
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.647	4.86	31.00	469555
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.198	6.32	56.00	16944
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	0.754	6.42	58.00	118678
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.076	8.86	57.00	36920
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.493	10.70	78.00	409861
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.031	13.50	91.00	36509
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.000	15.90	106	0
1330-20-7	m,p-Xylenes	75	TRG	0.000	16.06	91.00	0
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.028	16.61	104.00	20572
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	0.00	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.013	18.31	105.00	17680
124-18-5	Decane	87	TRG	0.015	18.60	57.00	23619
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.000	18.95	105.00	0
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.023	19.53	119.00	45793
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**13191483**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**15495029**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**13450241**
2037-26-5	Toluene-d8	103	SURR	10.383	13.40	98.00	**9890907**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**37**
File Name:	2510037A.D
Run Method:	A1563_P.M
Can Factor:	1.19
Air Volume:	300.0 ml
Can/Tube Number:	638
Dilution Factor:	0.3570
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3570
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.15	0.58	1.00	0.58	1.00	1.00	1.00	0.100	0.250	0.40	0.68	0.99
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.60	2.95	0.99
Methanol	32.0	0.65	2.57	3.37	2.57	3.37	3.37	3.37	0.500	0.600	1.98	2.60	2.38
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.60	1.23	0.99
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.78	0.99
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.51	0.99
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.44	0.99
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.54	0.99
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.05	0.99
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	1.98	3.74	12.73
Acrolein	56.1	0.20	0.79	1.81	0.79	1.81	1.81	1.81	0.100	0.300	0.40	0.91	1.19
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.23	0.99
Acetone	58.1	0.75	2.99	7.12	2.99	7.12	7.12	7.12	0.500	0.600	1.98	4.72	2.38
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		0.200	1.250	0.79	1.95	4.96
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.40	1.20	3.97
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.40	2.32	1.19
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.79	0.99
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.79	1.73	1.19
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.52	0.99
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.62	3.97
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.69	0.99
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.24	0.99
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.20	0.79	0.79
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.40	1.43	0.79
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	0.99	2.24	1.59
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.80	0.99
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.66	0.99
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.70	3.97
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.40	1.17	1.19
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.40	1.66	2.38
Hexane	86.2	0.08	0.30	1.06	ND	ND	0		0.100	0.250	0.40	1.40	0.99
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.09	0.99
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.43	0.99
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.05	0.99
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.40	1.98
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.20	0.59	1.19
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.79	2.41	3.17
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.79	0.99
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	0.99
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.97	0.99
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.08	0.99
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.80	0.99
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.90	0.99
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.68	0.99
Benzene	78.1	0.49	1.95	6.25	1.95	6.25	6.25	6.25	0.350	0.500	1.39	4.44	1.98
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.25	0.99
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.66	1.98
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.93	0.99
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.63	0.99

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	0.99
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.43	1.98
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.41	0.99
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.53	0.99
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.33	0.99
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.63	0.99
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.40	1.63	3.17
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.90	0.99
Toluene	92.1	0.03	0.12	0.47	ND	ND	0		0.200	0.250	0.79	2.99	0.99
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.90	0.99
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.08	0.99
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.86	0.99
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.40	1.63	3.17
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.20	0.92	2.78
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.86	0.99
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	3.38	0.99
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	3.05	0.99
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.67	0.99
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.83	0.99
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.73	0.99
Ethylbenzene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.73	0.99
m,p-Xylenes	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.73	0.99
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.08	0.99
Styrene	104.2	0.03	0.11	0.47	ND	ND	0		0.150	0.250	0.60	2.54	0.99
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	4.11	0.99
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.73	0.99
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.79	5.45	1.98
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.79	4.79	2.38
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.79	4.06	2.38
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.79	3.91	2.78
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.79	3.91	2.78
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.79	3.91	6.35
1,3,5-Trimethylbenzene	120.2	0.01	0.05	0.26	ND	ND	0		0.200	0.900	0.79	3.91	3.57
Decane	142.3	0.02	0.06	0.35	ND	ND	0		0.200	0.600	0.79	4.62	2.38
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.79	4.36	2.38
1,2,4-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.79	3.91	3.57
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.79	4.36	2.38
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.79	4.36	2.78
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.79	4.78	3.17
Isopropyltoluene	134.2	0.02	0.09	0.51	ND	ND	0		0.200	0.600	0.79	4.36	2.38
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.79	4.11	1.98
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.79	4.78	1.98
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.79	4.36	2.38
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.79	4.78	2.78
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.19	11.52	2.78
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.19	8.84	1.98
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	1.98	10.41	0.40
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.19	8.84	1.98
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	0.99	10.59	1.19
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		10.38	104	104	104	104	104	104	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.71	J	J		=		Y	0.58	1.00
4.91	U	ND		ND		Y	0.00	0.00
3.12				=		Y	2.57	3.37
2.05	U	ND		ND		Y	0.00	0.00
6.94	U	ND		ND		Y	0.00	0.00
2.54	U	ND		ND		Y	0.00	0.00
2.20	U	ND		ND		Y	0.00	0.00
3.85	U	ND		ND		Y	0.00	0.00
2.62	U	ND		ND		Y	0.00	0.00
24.04	U	ND		ND		Y	0.00	0.00
2.73	J	J		=		Y	0.79	1.81
5.58	U	ND		ND		Y	0.00	0.00
5.66				=		Y	2.99	7.12
12.20	U	ND		ND		Y	0.00	0.00
12.04	U	ND		ND		Y	0.00	0.00
6.96	U	ND		ND		Y	0.00	0.00
3.94	U	ND		ND		Y	0.00	0.00
2.59	U	ND		ND		Y	0.00	0.00
7.61	U	ND		ND		Y	0.00	0.00
12.43	U	ND		ND		Y	0.00	0.00
3.45	U	ND		ND		Y	0.00	0.00
3.09	U	ND		ND		Y	0.00	0.00
3.15	U	ND		ND		Y	0.00	0.00
2.86	U	ND		ND		Y	0.00	0.00
3.58	U	ND		ND		Y	0.00	0.00
4.02	U	ND		ND		Y	0.00	0.00
4.15	U	ND		ND		Y	0.00	0.00
13.99	U	ND		ND		Y	0.00	0.00
3.51	U	ND		ND		Y	0.00	0.00
9.96	U	ND		ND		Y	0.00	0.00
3.50	U	ND		ND		Y	0.00	0.00
2.73	U	ND		ND		Y	0.00	0.00
3.58	U	ND		ND		Y	0.00	0.00
5.26	U	ND		ND		Y	0.00	0.00
6.99	U	ND		ND		Y	0.00	0.00
3.51	U	ND		ND		Y	0.00	0.00
9.63	U	ND		ND		Y	0.00	0.00
3.94	U	ND		ND		Y	0.00	0.00
4.59	U	ND		ND		Y	0.00	0.00
4.85	U	ND		ND		Y	0.00	0.00
5.42	U	ND		ND		Y	0.00	0.00
4.02	U	ND		ND		Y	0.00	0.00
4.51	U	ND		ND		Y	0.00	0.00
3.42	U	ND		ND		Y	0.00	0.00
6.34	J	J		=		Y	1.95	6.25
6.25	U	ND		ND		Y	0.00	0.00
8.30	U	ND		ND		Y	0.00	0.00
4.64	U	ND		ND		Y	0.00	0.00
4.07	U	ND		ND		Y	0.00	0.00

4.59	U	ND	ND	Y	0.00	0.00
7.16	U	ND	ND	Y	0.00	0.00
7.06	U	ND	ND	Y	0.00	0.00
5.34	U	ND	ND	Y	0.00	0.00
6.65	U	ND	ND	Y	0.00	0.00
4.07	U	ND	ND	Y	0.00	0.00
13.02	U	ND	ND	Y	0.00	0.00
4.51	U	ND	ND	Y	0.00	0.00
3.74	U	ND	ND	Y	0.00	0.00
4.51	U	ND	ND	Y	0.00	0.00
5.42	U	ND	ND	Y	0.00	0.00
4.64	U	ND	ND	Y	0.00	0.00
13.02	U	ND	ND	Y	0.00	0.00
12.85	U	ND	ND	Y	0.00	0.00
4.64	U	ND	ND	Y	0.00	0.00
8.46	U	ND	ND	Y	0.00	0.00
7.63	U	ND	ND	Y	0.00	0.00
6.73	U	ND	ND	Y	0.00	0.00
4.57	U	ND	ND	Y	0.00	0.00
6.81	U	ND	ND	Y	0.00	0.00
4.31	U	ND	ND	Y	0.00	0.00
4.31	U	ND	ND	Y	0.00	0.00
5.21	U	ND	ND	Y	0.00	0.00
4.23	U	ND	ND	Y	0.00	0.00
10.26	U	ND	ND	Y	0.00	0.00
4.31	U	ND	ND	Y	0.00	0.00
13.63	U	ND	ND	Y	0.00	0.00
14.37	U	ND	ND	Y	0.00	0.00
12.18	U	ND	ND	Y	0.00	0.00
13.67	U	ND	ND	Y	0.00	0.00
13.67	U	ND	ND	Y	0.00	0.00
31.24	U	ND	ND	Y	0.00	0.00
17.57	U	ND	ND	Y	0.00	0.00
13.87	U	ND	ND	Y	0.00	0.00
13.08	U	ND	ND	Y	0.00	0.00
17.57	U	ND	ND	Y	0.00	0.00
13.08	U	ND	ND	Y	0.00	0.00
15.26	U	ND	ND	Y	0.00	0.00
19.10	U	ND	ND	Y	0.00	0.00
13.08	U	ND	ND	Y	0.00	0.00
10.28	U	ND	ND	Y	0.00	0.00
11.94	U	ND	ND	Y	0.00	0.00
13.08	U	ND	ND	Y	0.00	0.00
16.72	U	ND	ND	Y	0.00	0.00
26.87	U	ND	ND	Y	0.00	0.00
14.73	U	ND	ND	Y	0.00	0.00
2.08	U	ND	ND	Y	0.00	0.00
14.73	U	ND	ND	Y	0.00	0.00
12.71	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**37**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.19	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) / (Avg RFn) × (Cistdi) / (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) × 1000 / (SV) × (CDF)

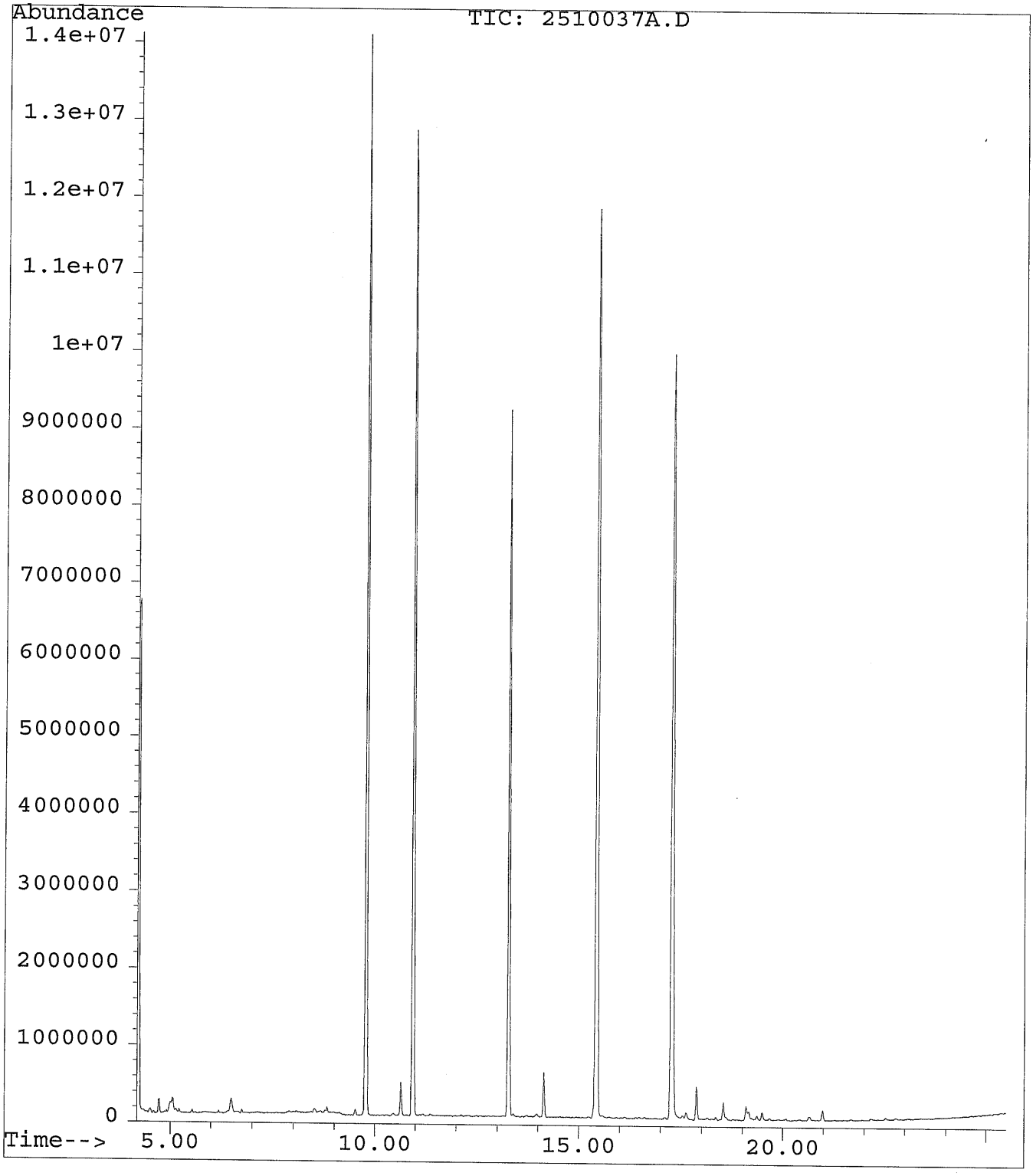
4) Amount ug/m3 = (amt(ppbv) × MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	23847	20.0	13191483	0.147	0.58	1.00
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	13191483	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	469555	20.0	13191483	0.647	2.57	3.37
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	13191483	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	13191483	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	13191483	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	13191483	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	13191483	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	13191483	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	0	20.0	13191483	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.130	16944	20.0	13191483	0.198	0.79	1.81
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	13191483	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	118678	20.0	13191483	0.754	2.99	7.12
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	0	20.0	13191483	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	13191483	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	13191483	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	13191483	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	13191483	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	13191483	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	13191483	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	13191483	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	13191483	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	13191483	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	13191483	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	13191483	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	13191483	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	13191483	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	13191483	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	0	20.0	13191483	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	13191483	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	36920	20.0	13191483	0.076	0.30	1.06

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	13191483	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	13191483	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	13191483	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	13191483	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	13191483	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	13191483	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	13191483	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	13191483	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	13191483	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	15495029	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	15495029	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	15495029	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	15495029	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	409861	20.0	15495029	0.493	1.95	6.25
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	15495029	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	15495029	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	15495029	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	15495029	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	15495029	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	15495029	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	15495029	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	15495029	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	15495029	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	15495029	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	15495029	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	15495029	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	36509	20.0	15495029	0.031	0.12	0.47
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	15495029	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	15495029	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	15495029	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	15495029	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	15495029	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	15495029	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	15495029	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	15495029	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	15495029	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	13450241	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	13450241	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	0	20.0	13450241	0.000	0.00	0.00
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	0	20.0	13450241	0.000	0.00	0.00
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	13450241	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	20572	20.0	13450241	0.028	0.11	0.47
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	13450241	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	0	20.0	13450241	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	13450241	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	13450241	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	13450241	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	13450241	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	13450241	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	13450241	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	17680	20.0	13450241	0.013	0.05	0.26
87	Decane	d5CB	TRG	142.3	2.327	23619	20.0	13450241	0.015	0.06	0.35
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	13450241	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	0	20.0	13450241	0.000	0.00	0.00
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	13450241	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	13450241	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	13450241	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	45793	20.0	13450241	0.023	0.09	0.51
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	13450241	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	13450241	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	13450241	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	13450241	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	13450241	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	13450241	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	13450241	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	13450241	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	13450241	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	13191483	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	15495029	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	13450241	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9890907	10.0		10.383	103.83	104

File : C:\MSCHEM\1\DATA\04025A_C\2510037A.D
Operator : DA
Acquired : 2 Apr 125 4:09 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-301
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number 225100

Lab Id Number 38

Client ID T-302

Analytical Method TO-15

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Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 38

File Name: 2510038A.D
Description: T-302
Canister: 857
QC_Batch: 040225-MA1

Date Sampled: 03/21/25 **Time:** 08:04
Date Analyzed: 04/02/25 **Time:** 17:01
Can Dilution Factor: 1.19
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	0.99	0.56	0.68	1.71	0.97	J
75-71-8	Dichlorodifluoromethane	0.60	0.99	ND	2.95	4.91	ND	
67-56-1	Methanol	1.98	2.38	2.53	2.60	3.12	3.31	
74-87-3	Chloromethane	0.60	0.99	ND	1.23	2.05	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	0.99	ND	2.78	6.94	ND	
75-01-4	Vinyl chloride	0.20	0.99	ND	0.51	2.54	ND	
106-99-0	1,3-Butadiene	0.20	0.99	ND	0.44	2.20	ND	
74-83-9	Bromomethane	0.40	0.99	ND	1.54	3.85	ND	
75-00-3	Chloroethane	0.40	0.99	ND	1.05	2.62	ND	
64-17-5	Ethanol	1.98	12.73	ND	3.74	24.04	ND	
107-02-8	Acrolein	0.40	1.19	0.64	0.91	2.73	1.48	J
75-69-4	Trichlorofluoromethane	0.40	0.99	ND	2.23	5.58	ND	
67-64-1	Acetone	1.98	2.38	5.36	4.72	5.66	12.75	
67-63-0	2-propanol (isopropylalcohol)	0.79	4.96	ND	1.95	12.20	ND	
75-65-0	t-Butyl alcohol	0.40	3.97	ND	1.20	12.04	ND	
4227-95-6	Methyl iodide	0.40	1.19	ND	2.32	6.96	ND	
75-35-4	1,1-Dichloroethene	0.20	0.99	ND	0.79	3.94	ND	
107-13-1	Acrylonitrile	0.79	1.19	ND	1.73	2.59	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	0.99	ND	1.52	7.61	ND	
107-05-1	Allyl chloride	0.20	3.97	ND	0.62	12.43	ND	
75-09-2	Methylene chloride	0.20	0.99	ND	0.69	3.45	ND	
75-15-0	Carbon disulfide	0.40	0.99	ND	1.24	3.09	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.79	ND	0.79	3.15	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.79	ND	1.43	2.86	ND	
107-12-0	Propionitrile	0.99	1.59	ND	2.24	3.58	ND	
75-34-3	1,1-Dichloroethane	0.20	0.99	ND	0.80	4.02	ND	
637-92-3	Ethyl tert butyl ether	0.40	0.99	ND	1.66	4.15	ND	
108-05-4	Vinyl acetate	0.20	3.97	ND	0.70	13.99	ND	
78-93-3	2-Butanone (MEK)	0.40	1.19	ND	1.17	3.51	ND	
108-20-3	Diisopropyl ether	0.40	2.38	ND	1.66	9.96	ND	
110-54-3	Hexane	0.40	0.99	ND	1.40	3.50	ND	
126-98-7	Methacrylonitrile	0.40	0.99	ND	1.09	2.73	ND	
141-78-6	Ethyl acetate	0.40	0.99	ND	1.43	3.58	ND	
74-97-5	Bromochloromethane	0.20	0.99	ND	1.05	5.26	ND	
96-33-3	Methyl acrylate	0.40	1.98	ND	1.40	6.99	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.19	ND	0.59	3.51	ND	
78-83-1	Isobutyl alcohol	0.79	3.17	ND	2.41	9.63	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	0.99	ND	0.79	3.94	ND	
594-20-7	2,2-Dichloropropane	0.20	0.99	ND	0.92	4.59	ND	
67-66-3	Chloroform	0.20	0.99	ND	0.97	4.85	ND	
71-55-6	1,1,1-Trichloroethane	0.20	0.99	ND	1.08	5.42	ND	
107-06-2	1,2-Dichloroethane	0.20	0.99	ND	0.80	4.02	ND	
563-58-6	1,1-Dichloropropene	0.20	0.99	ND	0.90	4.51	ND	
110-82-7	Cyclohexane	0.20	0.99	ND	0.68	3.42	ND	
71-43-2	Benzene	1.39	1.98	1.86	4.44	6.34	5.95	J
56-23-5	Carbon tetrachloride	0.20	0.99	ND	1.25	6.25	ND	
994-05-8	t-Amyl methyl ether	0.40	1.98	ND	1.66	8.30	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	0.99	ND	0.93	4.64	ND	
142-82-5	n-Heptane	0.40	0.99	ND	1.63	4.07	ND	
78-87-5	1,2-Dichloropropane	0.20	0.99	ND	0.92	4.59	ND	
123-91-1	1,4 Dioxane	0.40	1.98	ND	1.43	7.16	ND	
74-95-3	Dibromomethane	0.20	0.99	ND	1.41	7.06	ND	
79-01-6	Trichloroethene (TCE)	0.10	0.99	ND	0.53	5.34	ND	
75-27-4	Bromodichloromethane	0.20	0.99	ND	1.33	6.65	ND	
80-62-6	Methyl methacrylate	0.40	0.99	ND	1.63	4.07	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.17	ND	1.63	13.02	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	0.99	ND	0.90	4.51	ND	
108-88-3	Toluene	0.79	0.99	ND	2.99	3.74	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	0.99	ND	0.90	4.51	ND	
79-00-5	1,1,2-Trichloroethane	0.20	0.99	ND	1.08	5.42	ND	
97-63-2	Ethyl methacrylate	0.40	0.99	ND	1.86	4.64	ND	
591-78-6	2-Hexanone	0.40	3.17	ND	1.63	13.02	ND	
142-28-9	1,3-Dichloropropane	0.20	2.78	ND	0.92	12.85	ND	
111-65-9	Octane	0.40	0.99	ND	1.86	4.64	ND	
124-48-1	Dibromochloromethane	0.40	0.99	ND	3.38	8.46	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	0.99	ND	3.05	7.63	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	0.99	ND	0.67	6.73	ND	
108-90-7	Chlorobenzene	0.40	0.99	ND	1.83	4.57	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	0.99	ND	2.73	6.81	ND	
100-41-4	Ethylbenzene	0.40	0.99	ND	1.73	4.31	ND	
1330-20-7	m,p-Xylenes	0.40	0.99	ND	1.73	4.31	ND	
111-84-2	Nonane	0.40	0.99	ND	2.08	5.21	ND	
100-42-5	Styrene	0.60	0.99	ND	2.54	4.23	ND	
75-25-2	Bromoform	0.40	0.99	ND	4.11	10.26	ND	
95-47-6	o-Xylene	0.40	0.99	ND	1.73	4.31	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.79	1.98	ND	5.45	13.63	ND	
96-18-4	1,2,3-Trichloropropane	0.79	2.38	ND	4.79	14.37	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.79	2.38	ND	4.06	12.18	ND	
103-65-1	n-Propylbenzene	0.79	2.78	ND	3.91	13.67	ND	
98-82-8	Isopropylbenzene	0.79	2.78	ND	3.91	13.67	ND	
622-96-8	4-Ethyltoluene	0.79	6.35	ND	3.91	31.24	ND	
108-67-8	1,3,5-Trimethylbenzene	0.79	3.57	ND	3.91	17.57	ND	
124-18-5	Decane	0.79	2.38	ND	4.62	13.87	ND	
98-06-6	tert-butyl benzene	0.79	2.38	ND	4.36	13.08	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.79	3.57	ND	3.91	17.57	ND	
538-93-2	i-Butylbenzene	0.79	2.38	ND	4.36	13.08	ND	
135-98-8	sec-butylbenzene	0.79	2.78	ND	4.36	15.26	ND	
541-73-1	1,3-Dichlorobenzene	0.79	3.17	ND	4.78	19.10	ND	
99-87-6	Isopropyltoluene	0.79	2.38	ND	4.36	13.08	ND	
100-44-7	Benzyl chloride	0.79	1.98	ND	4.11	10.28	ND	
106-46-7	1,4-Dichlorobenzene	0.79	1.98	ND	4.78	11.94	ND	
104-51-8	n-Butylbenzene	0.79	2.38	ND	4.36	13.08	ND	
95-50-1	1,2-Dichlorobenzene	0.79	2.78	ND	4.78	16.72	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.19	2.78	ND	11.52	26.87	ND	
120-82-1	1,2,4-Trichlorobenzene	1.19	1.98	ND	8.84	14.73	ND	
91-20-3	Naphthalene	1.98	0.40	ND	10.41	2.08	ND	
87-61-6	1,2,3-Trichlorobenzene	1.19	1.98	ND	8.84	14.73	ND	
87-68-3	Hexachlorobutadiene	0.99	1.19	ND	10.59	12.71	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	98	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**38**		
File Name:	2510038A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/21/25**	**Time:**	**8:04**
Sample ID:	T-302	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/02/25**	**Time:**	**17:01**
Anal Date:	2 Apr 125 5:01 pm	**SF:**	**2**	**QCbatch:**	**040225-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**857**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.19**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	SS	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.142	4.41	42.00	22242
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.637	4.86	31.00	446033
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.402	5.72	46.00	36444
107-02-8	Acrolein	12	TRG	0.162	6.32	56.00	13404
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	1.351	6.42	58.00	205180
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.033	9.42	83.00	**14994**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.469	10.70	78.00	413723
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.049	13.50	91.00	60821
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.010	15.90	106	12690
1330-20-7	m,p-Xylenes	75	TRG	0.017	16.06	91.00	19765
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.037	16.61	104.00	30510
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	0.00	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.014	18.31	105.00	20313
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.000	18.95	105.00	0
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**12738009**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**16425889**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**14827564**
2037-26-5	Toluene-d8	103	SURR	9.789	13.40	98.00	**9884545**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**38**
File Name:	2510038A.D
Run Method:	A1563_P.M
Can Factor:	1.19
Air Volume:	300.0 ml
Can/Tube Number:	857
Dilution Factor:	0.3570
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3570
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.14	0.56	0.97	0.56	0.97	0.97	0.97	0.100	0.250	0.40	0.68	0.99
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.60	2.95	0.99
Methanol	32.0	0.64	2.53	3.31	2.53	3.31	3.31	3.31	0.500	0.600	1.98	2.60	2.38
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.60	1.23	0.99
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.78	0.99
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.51	0.99
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.44	0.99
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.54	0.99
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.05	0.99
Ethanol	46.1	0.40	1.60	3.01	ND	ND	0		0.500	3.210	1.98	3.74	12.73
Acrolein	56.1	0.16	0.64	1.48	0.64	1.48	1.48	1.48	0.100	0.300	0.40	0.91	1.19
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.23	0.99
Acetone	58.1	1.35	5.36	12.75	5.36	12.75	12.75	12.75	0.500	0.600	1.98	4.72	2.38
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		0.200	1.250	0.79	1.95	4.96
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.40	1.20	3.97
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.40	2.32	1.19
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.79	0.99
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.79	1.73	1.19
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.52	0.99
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.62	3.97
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.69	0.99
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.24	0.99
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.20	0.79	0.79
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.40	1.43	0.79
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	0.99	2.24	1.59
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.80	0.99
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.66	0.99
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.70	3.97
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.40	1.17	1.19
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.40	1.66	2.38
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.40	0.99
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.09	0.99
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.43	0.99
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.05	0.99
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.40	1.98
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.20	0.59	1.19
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.79	2.41	3.17
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.79	0.99
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	0.99
Chloroform	119.4	0.03	0.13	0.64	ND	ND	0		0.050	0.250	0.20	0.97	0.99
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.08	0.99
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.80	0.99
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.90	0.99
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.68	0.99
Benzene	78.1	0.47	1.86	5.95	1.86	5.95	5.95	5.95	0.350	0.500	1.39	4.44	1.98
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.25	0.99
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.66	1.98
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.93	0.99
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.63	0.99

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	0.99
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.43	1.98
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.41	0.99
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.53	0.99
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.33	0.99
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.63	0.99
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.40	1.63	3.17
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.90	0.99
Toluene	92.1	0.05	0.20	0.74	ND	ND	0		0.200	0.250	0.79	2.99	0.99
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.90	0.99
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.08	0.99
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.86	0.99
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.40	1.63	3.17
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.20	0.92	2.78
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.86	0.99
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	3.38	0.99
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	3.05	0.99
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.67	0.99
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.83	0.99
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.73	0.99
Ethylbenzene	106.2	0.01	0.04	0.17	ND	ND	0		0.100	0.250	0.40	1.73	0.99
m,p-Xylenes	106.2	0.02	0.07	0.29	ND	ND	0		0.100	0.250	0.40	1.73	0.99
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.08	0.99
Styrene	104.2	0.04	0.15	0.63	ND	ND	0		0.150	0.250	0.60	2.54	0.99
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	4.11	0.99
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.73	0.99
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.79	5.45	1.98
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.79	4.79	2.38
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.79	4.06	2.38
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.79	3.91	2.78
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.79	3.91	2.78
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.79	3.91	6.35
1,3,5-Trimethylbenzene	120.2	0.01	0.06	0.27	ND	ND	0		0.200	0.900	0.79	3.91	3.57
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.79	4.62	2.38
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.79	4.36	2.38
1,2,4-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.79	3.91	3.57
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.79	4.36	2.38
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.79	4.36	2.78
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.79	4.78	3.17
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.79	4.36	2.38
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.79	4.11	1.98
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.79	4.78	1.98
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.79	4.36	2.38
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.79	4.78	2.78
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.19	11.52	2.78
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.19	8.84	1.98
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	1.98	10.41	0.40
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.19	8.84	1.98
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	0.99	10.59	1.19
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		9.79	98	98	98	98	98	98	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.71	J	J		=		Y	0.56	0.97
4.91	U	ND		ND		Y	0.00	0.00
3.12				=		Y	2.53	3.31
2.05	U	ND		ND		Y	0.00	0.00
6.94	U	ND		ND		Y	0.00	0.00
2.54	U	ND		ND		Y	0.00	0.00
2.20	U	ND		ND		Y	0.00	0.00
3.85	U	ND		ND		Y	0.00	0.00
2.62	U	ND		ND		Y	0.00	0.00
24.04	U	ND		ND		Y	0.00	0.00
2.73	J	J		=		Y	0.64	1.48
5.58	U	ND		ND		Y	0.00	0.00
5.66				=		Y	5.36	12.75
12.20	U	ND		ND		Y	0.00	0.00
12.04	U	ND		ND		Y	0.00	0.00
6.96	U	ND		ND		Y	0.00	0.00
3.94	U	ND		ND		Y	0.00	0.00
2.59	U	ND		ND		Y	0.00	0.00
7.61	U	ND		ND		Y	0.00	0.00
12.43	U	ND		ND		Y	0.00	0.00
3.45	U	ND		ND		Y	0.00	0.00
3.09	U	ND		ND		Y	0.00	0.00
3.15	U	ND		ND		Y	0.00	0.00
2.86	U	ND		ND		Y	0.00	0.00
3.58	U	ND		ND		Y	0.00	0.00
4.02	U	ND		ND		Y	0.00	0.00
4.15	U	ND		ND		Y	0.00	0.00
13.99	U	ND		ND		Y	0.00	0.00
3.51	U	ND		ND		Y	0.00	0.00
9.96	U	ND		ND		Y	0.00	0.00
3.50	U	ND		ND		Y	0.00	0.00
2.73	U	ND		ND		Y	0.00	0.00
3.58	U	ND		ND		Y	0.00	0.00
5.26	U	ND		ND		Y	0.00	0.00
6.99	U	ND		ND		Y	0.00	0.00
3.51	U	ND		ND		Y	0.00	0.00
9.63	U	ND		ND		Y	0.00	0.00
3.94	U	ND		ND		Y	0.00	0.00
4.59	U	ND		ND		Y	0.00	0.00
4.85	U	ND		ND		Y	0.00	0.00
5.42	U	ND		ND		Y	0.00	0.00
4.02	U	ND		ND		Y	0.00	0.00
4.51	U	ND		ND		Y	0.00	0.00
3.42	U	ND		ND		Y	0.00	0.00
6.34	J	J		=		Y	1.86	5.95
6.25	U	ND		ND		Y	0.00	0.00
8.30	U	ND		ND		Y	0.00	0.00
4.64	U	ND		ND		Y	0.00	0.00
4.07	U	ND		ND		Y	0.00	0.00

4.59	U	ND	ND	Y	0.00	0.00
7.16	U	ND	ND	Y	0.00	0.00
7.06	U	ND	ND	Y	0.00	0.00
5.34	U	ND	ND	Y	0.00	0.00
6.65	U	ND	ND	Y	0.00	0.00
4.07	U	ND	ND	Y	0.00	0.00
13.02	U	ND	ND	Y	0.00	0.00
4.51	U	ND	ND	Y	0.00	0.00
3.74	U	ND	ND	Y	0.00	0.00
4.51	U	ND	ND	Y	0.00	0.00
5.42	U	ND	ND	Y	0.00	0.00
4.64	U	ND	ND	Y	0.00	0.00
13.02	U	ND	ND	Y	0.00	0.00
12.85	U	ND	ND	Y	0.00	0.00
4.64	U	ND	ND	Y	0.00	0.00
8.46	U	ND	ND	Y	0.00	0.00
7.63	U	ND	ND	Y	0.00	0.00
6.73	U	ND	ND	Y	0.00	0.00
4.57	U	ND	ND	Y	0.00	0.00
6.81	U	ND	ND	Y	0.00	0.00
4.31	U	ND	ND	Y	0.00	0.00
4.31	U	ND	ND	Y	0.00	0.00
5.21	U	ND	ND	Y	0.00	0.00
4.23	U	ND	ND	Y	0.00	0.00
10.26	U	ND	ND	Y	0.00	0.00
4.31	U	ND	ND	Y	0.00	0.00
13.63	U	ND	ND	Y	0.00	0.00
14.37	U	ND	ND	Y	0.00	0.00
12.18	U	ND	ND	Y	0.00	0.00
13.67	U	ND	ND	Y	0.00	0.00
13.67	U	ND	ND	Y	0.00	0.00
31.24	U	ND	ND	Y	0.00	0.00
17.57	U	ND	ND	Y	0.00	0.00
13.87	U	ND	ND	Y	0.00	0.00
13.08	U	ND	ND	Y	0.00	0.00
17.57	U	ND	ND	Y	0.00	0.00
13.08	U	ND	ND	Y	0.00	0.00
15.26	U	ND	ND	Y	0.00	0.00
19.10	U	ND	ND	Y	0.00	0.00
13.08	U	ND	ND	Y	0.00	0.00
10.28	U	ND	ND	Y	0.00	0.00
11.94	U	ND	ND	Y	0.00	0.00
13.08	U	ND	ND	Y	0.00	0.00
16.72	U	ND	ND	Y	0.00	0.00
26.87	U	ND	ND	Y	0.00	0.00
14.73	U	ND	ND	Y	0.00	0.00
2.08	U	ND	ND	Y	0.00	0.00
14.73	U	ND	ND	Y	0.00	0.00
12.71	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**38**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.19
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum (Astdni) (Cistdi) / (Cstdni) (Aistdi) Note: 1 i

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) **= Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

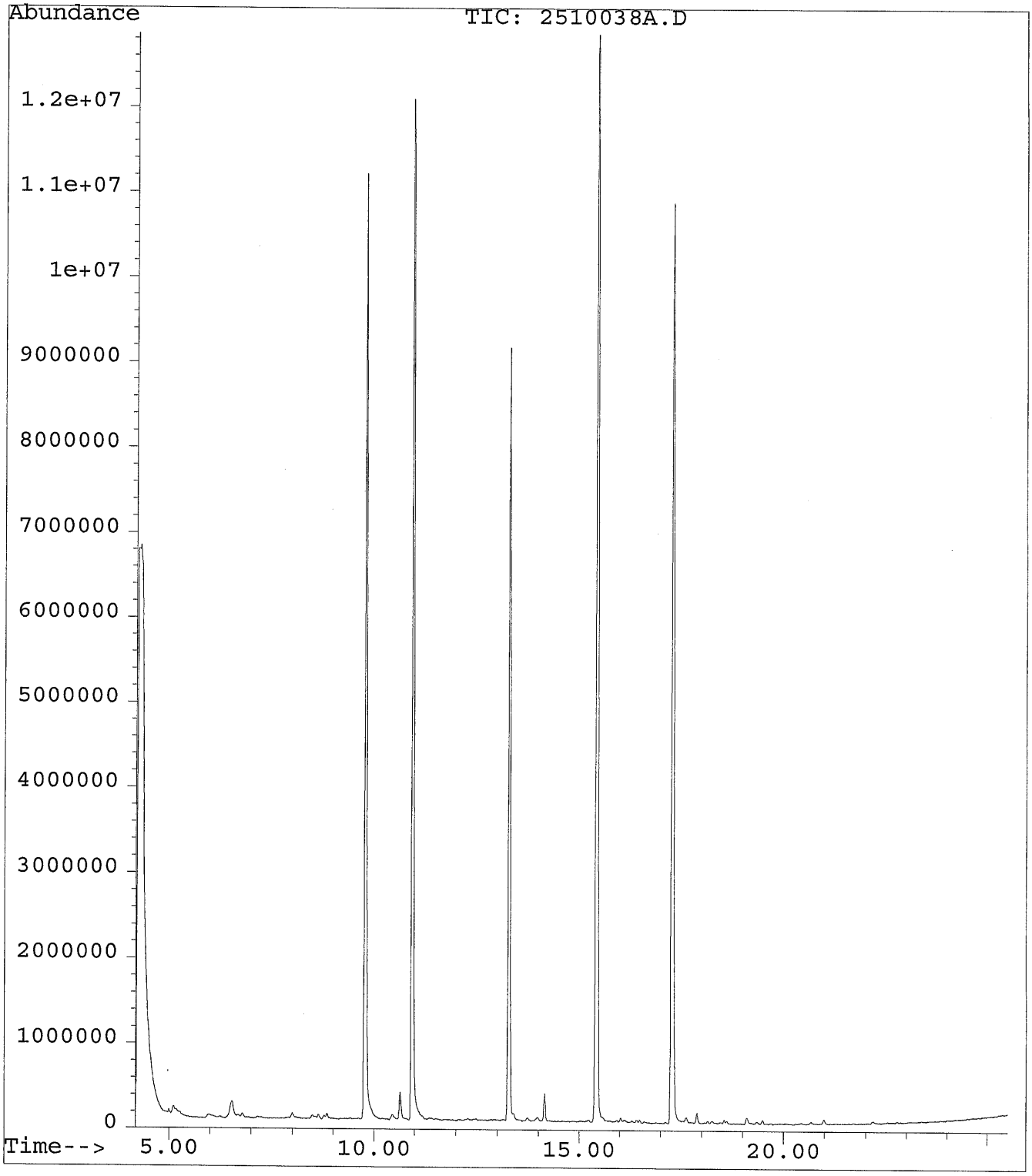
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	22242	20.0	12738009	0.142	0.56	0.97
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	12738009	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	446033	20.0	12738009	0.637	2.53	3.31
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	12738009	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	12738009	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	12738009	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	12738009	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	12738009	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	12738009	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	36444	20.0	12738009	0.402	1.60	3.01
12	Acrolein	PFB	TRG	56.1	0.130	13404	20.0	12738009	0.162	0.64	1.48
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	12738009	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	205180	20.0	12738009	1.351	5.36	12.75
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	0	20.0	12738009	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	12738009	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	12738009	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	12738009	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	12738009	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	12738009	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	12738009	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	12738009	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	12738009	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	12738009	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	12738009	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	12738009	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	12738009	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	12738009	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	12738009	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	0	20.0	12738009	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	12738009	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	12738009	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	12738009	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	12738009	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	12738009	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	12738009	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	12738009	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	12738009	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	12738009	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	12738009	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	14994	20.0	12738009	0.033	0.13	0.64
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	16425889	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	16425889	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	16425889	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	16425889	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	413723	20.0	16425889	0.469	1.86	5.95
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	16425889	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	16425889	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	16425889	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	16425889	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	16425889	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	16425889	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	16425889	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	16425889	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	16425889	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	16425889	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	16425889	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	16425889	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	60821	20.0	16425889	0.049	0.20	0.74
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	16425889	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	16425889	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	16425889	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	16425889	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	16425889	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	16425889	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	16425889	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	16425889	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	16425889	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	14827564	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	14827564	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	12690	20.0	14827564	0.010	0.04	0.17
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	19765	20.0	14827564	0.017	0.07	0.29
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	14827564	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	30510	20.0	14827564	0.037	0.15	0.63
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	14827564	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	0	20.0	14827564	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	14827564	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	14827564	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	14827564	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	14827564	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	14827564	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	14827564	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	20313	20.0	14827564	0.014	0.06	0.27
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	14827564	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	14827564	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	0	20.0	14827564	0.000	0.00	0.00
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	14827564	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	14827564	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	14827564	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	14827564	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	14827564	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	14827564	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	14827564	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	14827564	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	14827564	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	14827564	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	14827564	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	14827564	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	14827564	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	12738009	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	16425889	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	14827564	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9884545	10.0		9.789	97.89	98

File : C:\MSCHEM\1\DATA\04025A_C\2510038A.D
Operator : SS
Acquired : 2 Apr 125 5:01 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-302
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **39**

Client ID T-303

Analytical Method TO-15

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 39**

File Name: 2510039A.D **Date Sampled:** 03/21/25 **Time:** 08:05
Description: T-303 **Date Analyzed:** 04/02/25 **Time:** 17:40
Canister: 552 **Can Dilution Factor:** 1.21
QC_Batch: 040225-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	1.01	0.63	0.70	1.74	1.08	J
75-71-8	Dichlorodifluoromethane	0.61	1.01	ND	3.00	4.99	ND	
67-56-1	Methanol	2.02	2.42	2.16	2.64	3.17	2.84	J
74-87-3	Chloromethane	0.61	1.01	ND	1.25	2.09	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	1.01	ND	2.82	7.06	ND	
75-01-4	Vinyl chloride	0.20	1.01	ND	0.52	2.58	ND	
106-99-0	1,3-Butadiene	0.20	1.01	ND	0.45	2.23	ND	
74-83-9	Bromomethane	0.40	1.01	ND	1.57	3.92	ND	
75-00-3	Chloroethane	0.40	1.01	ND	1.07	2.66	ND	
64-17-5	Ethanol	2.02	12.95	2.52	3.81	24.44	4.76	J
107-02-8	Acrolein	0.40	1.21	ND	0.93	2.78	ND	
75-69-4	Trichlorofluoromethane	0.40	1.01	ND	2.27	5.67	ND	
67-64-1	Acetone	2.02	2.42	14.07	4.80	5.76	33.47	
67-63-0	2-propanol (isopropylalcohol)	0.81	5.04	ND	1.99	12.41	ND	
75-65-0	t-Butyl alcohol	0.40	4.03	ND	1.22	12.24	ND	
4227-95-6	Methyl iodide	0.40	1.21	ND	2.36	7.08	ND	
75-35-4	1,1-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
107-13-1	Acrylonitrile	0.81	1.21	ND	1.75	2.63	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.01	ND	1.55	7.74	ND	
107-05-1	Allyl chloride	0.20	4.03	ND	0.63	12.64	ND	
75-09-2	Methylene chloride	0.20	1.01	ND	0.70	3.51	ND	
75-15-0	Carbon disulfide	0.40	1.01	ND	1.26	3.14	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.81	ND	0.80	3.20	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.81	ND	1.46	2.91	ND	
107-12-0	Propionitrile	1.01	1.61	ND	2.28	3.64	ND	
75-34-3	1,1-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
637-92-3	Ethyl tert butyl ether	0.40	1.01	ND	1.69	4.22	ND	
108-05-4	Vinyl acetate	0.20	4.03	ND	0.71	14.22	ND	
78-93-3	2-Butanone (MEK)	0.40	1.21	ND	1.19	3.57	ND	
108-20-3	Diisopropyl ether	0.40	2.42	ND	1.69	10.13	ND	
110-54-3	Hexane	0.40	1.01	ND	1.42	3.56	ND	
126-98-7	Methacrylonitrile	0.40	1.01	ND	1.11	2.77	ND	
141-78-6	Ethyl acetate	0.40	1.01	ND	1.46	3.64	ND	
74-97-5	Bromochloromethane	0.20	1.01	ND	1.07	5.34	ND	
96-33-3	Methyl acrylate	0.40	2.02	ND	1.42	7.11	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.21	ND	0.60	3.57	ND	
78-83-1	Isobutyl alcohol	0.81	3.23	ND	2.45	9.79	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
594-20-7	2,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
67-66-3	Chloroform	0.20	1.01	ND	0.99	4.93	ND	
71-55-6	1,1,1-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
107-06-2	1,2-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
563-58-6	1,1-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
110-82-7	Cyclohexane	0.20	1.01	ND	0.70	3.48	ND	
71-43-2	Benzene	1.41	2.02	1.78	4.52	6.45	5.68	J
56-23-5	Carbon tetrachloride	0.20	1.01	ND	1.27	6.35	ND	
994-05-8	t-Amyl methyl ether	0.40	2.02	ND	1.69	8.44	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.01	ND	0.94	4.72	ND	
142-82-5	n-Heptane	0.40	1.01	ND	1.66	4.14	ND	
78-87-5	1,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
123-91-1	1,4 Dioxane	0.40	2.02	ND	1.46	7.28	ND	
74-95-3	Dibromomethane	0.20	1.01	ND	1.44	7.18	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.01	ND	0.54	5.43	ND	
75-27-4	Bromodichloromethane	0.20	1.01	ND	1.35	6.76	ND	
80-62-6	Methyl methacrylate	0.40	1.01	ND	1.65	4.13	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.23	ND	1.66	13.24	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
108-88-3	Toluene	0.81	1.01	ND	3.04	3.80	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
97-63-2	Ethyl methacrylate	0.40	1.01	ND	1.89	4.72	ND	
591-78-6	2-Hexanone	0.40	3.23	ND	1.66	13.24	ND	
142-28-9	1,3-Dichloropropane	0.20	2.82	ND	0.93	13.07	ND	
111-65-9	Octane	0.40	1.01	ND	1.89	4.72	ND	
124-48-1	Dibromochloromethane	0.40	1.01	ND	3.44	8.60	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	1.01	ND	3.10	7.76	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.01	ND	0.68	6.85	ND	
108-90-7	Chlorobenzene	0.40	1.01	ND	1.86	4.65	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	1.01	ND	2.77	6.93	ND	
100-41-4	Ethylbenzene	0.40	1.01	ND	1.75	4.39	ND	
1330-20-7	m,p-Xylenes	0.40	1.01	ND	1.75	4.39	ND	
111-84-2	Nonane	0.40	1.01	ND	2.12	5.30	ND	
100-42-5	Styrene	0.61	1.01	ND	2.58	4.30	ND	
75-25-2	Bromoform	0.40	1.01	ND	4.17	10.44	ND	
95-47-6	o-Xylene	0.40	1.01	ND	1.75	4.39	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.81	2.02	ND	5.54	13.86	ND	
96-18-4	1,2,3-Trichloropropane	0.81	2.42	ND	4.87	14.61	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.81	2.42	ND	4.13	12.39	ND	
103-65-1	n-Propylbenzene	0.81	2.82	ND	3.97	13.90	ND	
98-82-8	Isopropylbenzene	0.81	2.82	ND	3.97	13.90	ND	
622-96-8	4-Ethyltoluene	0.81	6.45	ND	3.97	31.77	ND	
108-67-8	1,3,5-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
124-18-5	Decane	0.81	2.42	ND	4.70	14.10	ND	
98-06-6	tert-butyl benzene	0.81	2.42	ND	4.43	13.30	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
538-93-2	i-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
135-98-8	sec-butylbenzene	0.81	2.82	ND	4.43	15.52	ND	
541-73-1	1,3-Dichlorobenzene	0.81	3.23	ND	4.86	19.43	ND	
99-87-6	Isopropyltoluene	0.81	2.42	ND	4.43	13.30	ND	
100-44-7	Benzyl chloride	0.81	2.02	ND	4.18	10.46	ND	
106-46-7	1,4-Dichlorobenzene	0.81	2.02	ND	4.86	12.14	ND	
104-51-8	n-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
95-50-1	1,2-Dichlorobenzene	0.81	2.82	ND	4.86	17.00	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.21	2.82	ND	11.71	27.32	ND	
120-82-1	1,2,4-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
91-20-3	Naphthalene	2.02	0.40	ND	10.59	2.12	ND	
87-61-6	1,2,3-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
87-68-3	Hexachlorobutadiene	1.01	1.21	ND	10.77	12.92	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	99	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**39**		
File Name:	2510039A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/21/25**	**Time:**	**8:05**
Sample ID:	T-303	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/02/25**	**Time:**	**17:40**
Anal Date:	2 Apr 125 5:40 pm	**SF:**	**2**	**QCbatch:**	**040225-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**552**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.21**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	SS	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.155	4.41	42.00	27430
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.537	4.86	31.00	423699
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.626	5.72	46.00	63909
107-02-8	Acrolein	12	TRG	0.078	6.32	56.00	7220
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	3.488	6.42	58.00	597259
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.051	6.45	45.00	36749
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.441	10.70	78.00	379849
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.045	13.50	91.00	54279
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.012	15.90	106	15585
1330-20-7	m,p-Xylenes	75	TRG	0.017	16.06	91.00	20441
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.032	16.61	104.00	26133
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	0.00	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.000	18.31	105.00	0
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.000	18.95	105.00	0
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**14360492**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**16061455**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**14977330**
2037-26-5	Toluene-d8	103	SURR	9.882	13.40	98.00	**9756950**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**39**
File Name:	2510039A.D
Run Method:	A1563_P.M
Can Factor:	1.21
Air Volume:	300.0 ml
Can/Tube Number:	552
Dilution Factor:	0.3630
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3630
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.16	0.63	1.08	0.63	1.08	1.08	1.08	**0.100**	**0.250**	0.40	0.70	1.01
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	0.61	3.00	1.01
Methanol	32.0	0.54	2.16	2.84	2.16	2.84	2.84	2.84	**0.500**	**0.600**	2.02	2.64	2.42
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	0.61	1.25	1.01
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.40	2.82	1.01
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.20	0.52	1.01
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.20	0.45	1.01
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.40	1.57	1.01
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.40	1.07	1.01
Ethanol	46.1	0.63	2.52	4.76	2.52	4.76	4.76	4.76	**0.500**	**3.210**	2.02	3.81	12.95
Acrolein	56.1	0.08	0.31	0.72	ND	ND	0		**0.100**	**0.300**	0.40	0.93	1.21
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.40	2.27	1.01
Acetone	58.1	3.49	14.07	33.47	14.07	33.47	33.47	33.47	**0.500**	**0.600**	2.02	4.80	2.42
2-propanol (isopropylalcohol)	60.1	0.05	0.21	0.51	ND	ND	0		**0.200**	**1.250**	0.81	1.99	5.04
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**1.000**	0.40	1.22	4.03
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	0.40	2.36	1.21
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.20	0.80	1.01
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.300**	0.81	1.75	1.21
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.20	1.55	1.01
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	0.20	0.63	4.03
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.20	0.70	1.01
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.40	1.26	1.01
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.200**	0.20	0.80	0.81
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.200**	0.40	1.46	0.81
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		**0.250**	**0.400**	1.01	2.28	1.61
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.20	0.82	1.01
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.40	1.69	1.01
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	0.20	0.71	4.03
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	0.40	1.19	1.21
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.600**	0.40	1.69	2.42
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.40	1.42	1.01
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.40	1.11	1.01
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.40	1.46	1.01
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.20	1.07	1.01
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.40	1.42	2.02
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.300**	0.20	0.60	1.21
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.800**	0.81	2.45	3.23
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.20	0.80	1.01
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.20	0.93	1.01
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.20	0.99	1.01
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.20	1.10	1.01
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.20	0.82	1.01
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.20	0.92	1.01
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.20	0.70	1.01
Benzene	78.1	0.44	1.78	5.68	1.78	5.68	5.68	5.68	**0.350**	**0.500**	1.41	4.52	2.02
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.20	1.27	1.01
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.40	1.69	2.02
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.20	0.94	1.01
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.40	1.66	1.01

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.93	1.01
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.46	2.02
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.44	1.01
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.54	1.01
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.35	1.01
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.65	1.01
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.40	1.66	3.23
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	1.01
Toluene	92.1	0.05	0.18	0.69	ND	ND	0		0.200	0.250	0.81	3.04	1.01
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	1.01
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.10	1.01
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.89	1.01
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.40	1.66	3.23
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.20	0.93	2.82
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.89	1.01
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	3.44	1.01
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	3.10	1.01
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.68	1.01
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.86	1.01
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.77	1.01
Ethylbenzene	106.2	0.01	0.05	0.21	ND	ND	0		0.100	0.250	0.40	1.75	1.01
m,p-Xylenes	106.2	0.02	0.07	0.30	ND	ND	0		0.100	0.250	0.40	1.75	1.01
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.12	1.01
Styrene	104.2	0.03	0.13	0.54	ND	ND	0		0.150	0.250	0.61	2.58	1.01
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	4.17	1.01
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.75	1.01
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.81	5.54	2.02
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.87	2.42
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.13	2.42
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	3.97	2.82
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	3.97	2.82
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.81	3.97	6.45
1,3,5-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.81	3.97	3.63
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.70	2.42
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.43	2.42
1,2,4-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.81	3.97	3.63
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.43	2.42
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	4.43	2.82
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.81	4.86	3.23
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.43	2.42
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.81	4.18	2.02
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.81	4.86	2.02
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.43	2.42
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	4.86	2.82
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.21	11.71	2.82
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.21	8.99	2.02
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.02	10.59	0.40
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.21	8.99	2.02
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.01	10.77	1.21
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		9.88	99	99	99	99	99	99	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.74	J	J		=		Y	0.63	1.08
4.99	U	ND		ND		Y	0.00	0.00
3.17	J	J		=		Y	2.16	2.84
2.09	U	ND		ND		Y	0.00	0.00
7.06	U	ND		ND		Y	0.00	0.00
2.58	U	ND		ND		Y	0.00	0.00
2.23	U	ND		ND		Y	0.00	0.00
3.92	U	ND		ND		Y	0.00	0.00
2.66	U	ND		ND		Y	0.00	0.00
24.44	J	J		=		Y	2.52	4.76
2.78	U	ND		ND		Y	0.00	0.00
5.67	U	ND		ND		Y	0.00	0.00
5.76				=		Y	14.07	33.47
12.41	U	ND		ND		Y	0.00	0.00
12.24	U	ND		ND		Y	0.00	0.00
7.08	U	ND		ND		Y	0.00	0.00
4.00	U	ND		ND		Y	0.00	0.00
2.63	U	ND		ND		Y	0.00	0.00
7.74	U	ND		ND		Y	0.00	0.00
12.64	U	ND		ND		Y	0.00	0.00
3.51	U	ND		ND		Y	0.00	0.00
3.14	U	ND		ND		Y	0.00	0.00
3.20	U	ND		ND		Y	0.00	0.00
2.91	U	ND		ND		Y	0.00	0.00
3.64	U	ND		ND		Y	0.00	0.00
4.09	U	ND		ND		Y	0.00	0.00
4.22	U	ND		ND		Y	0.00	0.00
14.22	U	ND		ND		Y	0.00	0.00
3.57	U	ND		ND		Y	0.00	0.00
10.13	U	ND		ND		Y	0.00	0.00
3.56	U	ND		ND		Y	0.00	0.00
2.77	U	ND		ND		Y	0.00	0.00
3.64	U	ND		ND		Y	0.00	0.00
5.34	U	ND		ND		Y	0.00	0.00
7.11	U	ND		ND		Y	0.00	0.00
3.57	U	ND		ND		Y	0.00	0.00
9.79	U	ND		ND		Y	0.00	0.00
4.00	U	ND		ND		Y	0.00	0.00
4.67	U	ND		ND		Y	0.00	0.00
4.93	U	ND		ND		Y	0.00	0.00
5.51	U	ND		ND		Y	0.00	0.00
4.09	U	ND		ND		Y	0.00	0.00
4.58	U	ND		ND		Y	0.00	0.00
3.48	U	ND		ND		Y	0.00	0.00
6.45	J	J		=		Y	1.78	5.68
6.35	U	ND		ND		Y	0.00	0.00
8.44	U	ND		ND		Y	0.00	0.00
4.72	U	ND		ND		Y	0.00	0.00
4.14	U	ND		ND		Y	0.00	0.00

4.67	U	ND	ND	Y	0.00	0.00
7.28	U	ND	ND	Y	0.00	0.00
7.18	U	ND	ND	Y	0.00	0.00
5.43	U	ND	ND	Y	0.00	0.00
6.76	U	ND	ND	Y	0.00	0.00
4.13	U	ND	ND	Y	0.00	0.00
13.24	U	ND	ND	Y	0.00	0.00
4.58	U	ND	ND	Y	0.00	0.00
3.80	U	ND	ND	Y	0.00	0.00
4.58	U	ND	ND	Y	0.00	0.00
5.51	U	ND	ND	Y	0.00	0.00
4.72	U	ND	ND	Y	0.00	0.00
13.24	U	ND	ND	Y	0.00	0.00
13.07	U	ND	ND	Y	0.00	0.00
4.72	U	ND	ND	Y	0.00	0.00
8.60	U	ND	ND	Y	0.00	0.00
7.76	U	ND	ND	Y	0.00	0.00
6.85	U	ND	ND	Y	0.00	0.00
4.65	U	ND	ND	Y	0.00	0.00
6.93	U	ND	ND	Y	0.00	0.00
4.39	U	ND	ND	Y	0.00	0.00
4.39	U	ND	ND	Y	0.00	0.00
5.30	U	ND	ND	Y	0.00	0.00
4.30	U	ND	ND	Y	0.00	0.00
10.44	U	ND	ND	Y	0.00	0.00
4.39	U	ND	ND	Y	0.00	0.00
13.86	U	ND	ND	Y	0.00	0.00
14.61	U	ND	ND	Y	0.00	0.00
12.39	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
31.77	U	ND	ND	Y	0.00	0.00
17.87	U	ND	ND	Y	0.00	0.00
14.10	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
17.87	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
15.52	U	ND	ND	Y	0.00	0.00
19.43	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
10.46	U	ND	ND	Y	0.00	0.00
12.14	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
17.00	U	ND	ND	Y	0.00	0.00
27.32	U	ND	ND	Y	0.00	0.00
14.98	U	ND	ND	Y	0.00	0.00
2.12	U	ND	ND	Y	0.00	0.00
14.98	U	ND	ND	Y	0.00	0.00
12.92	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**39**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.21
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)]i Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) **= Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

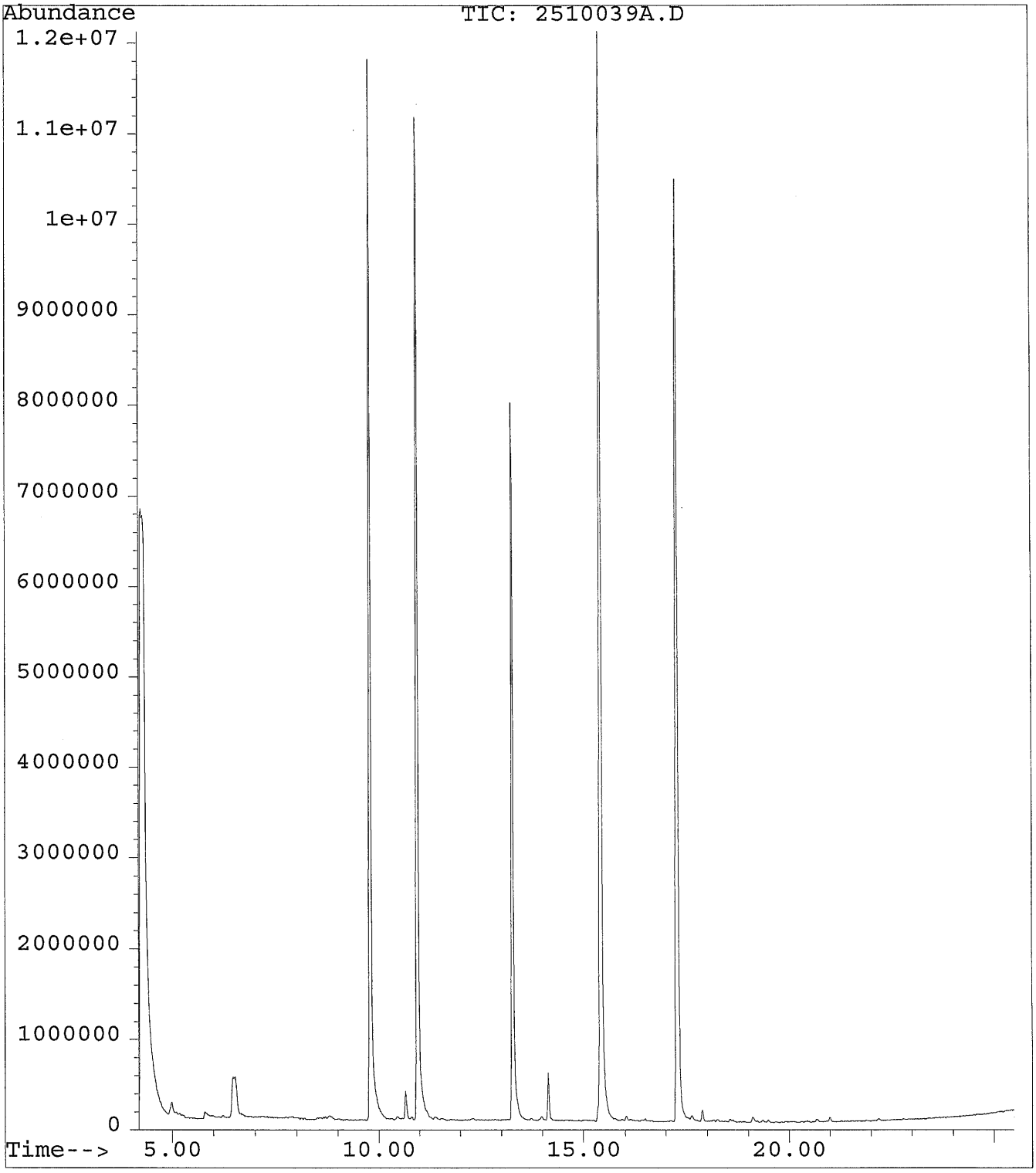
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	27430	20.0	14360492	0.155	0.63	1.08
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	14360492	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	423699	20.0	14360492	0.537	2.16	2.84
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	14360492	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	14360492	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	14360492	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	14360492	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	14360492	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	14360492	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	63909	20.0	14360492	0.626	2.52	4.76
12	Acrolein	PFB	TRG	56.1	0.130	7220	20.0	14360492	0.078	0.31	0.72
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	14360492	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	597259	20.0	14360492	3.488	14.07	33.47
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	36749	20.0	14360492	0.051	0.21	0.51
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	14360492	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	14360492	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	14360492	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	14360492	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	14360492	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	14360492	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	14360492	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	14360492	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	14360492	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	14360492	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	14360492	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	14360492	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	14360492	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	14360492	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	0	20.0	14360492	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	14360492	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	14360492	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	14360492	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	14360492	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	14360492	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	14360492	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	14360492	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	14360492	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	14360492	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	14360492	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	14360492	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	16061455	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	16061455	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	16061455	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	16061455	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	379849	20.0	16061455	0.441	1.78	5.68
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	16061455	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	16061455	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	16061455	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	16061455	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	16061455	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	16061455	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	16061455	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	16061455	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	16061455	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	16061455	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	16061455	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	16061455	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	54279	20.0	16061455	0.045	0.18	0.69
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	16061455	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	16061455	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	16061455	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	16061455	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	16061455	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	16061455	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	16061455	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	16061455	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	16061455	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	14977330	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	14977330	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	15585	20.0	14977330	0.012	0.05	0.21
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	20441	20.0	14977330	0.017	0.07	0.30
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	14977330	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	26133	20.0	14977330	0.032	0.13	0.54
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	14977330	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	0	20.0	14977330	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	14977330	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	14977330	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	14977330	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	14977330	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	14977330	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	14977330	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	0	20.0	14977330	0.000	0.00	0.00
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	14977330	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	14977330	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	0	20.0	14977330	0.000	0.00	0.00
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	14977330	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	14977330	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	14977330	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	14977330	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	14977330	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	14977330	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	14977330	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	14977330	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	14977330	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	14977330	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	14977330	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	14977330	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	14977330	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	14360492	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	16061455	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	14977330	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9756950	10.0		9.882	98.82	99

File : C:\MSCHEM\1\DATA\04025A_C\2510039A.D
Operator : SS
Acquired : 2 Apr 125 5:40 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-303
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **40**

Client ID T-304

Analytical Method TO-15

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Analytical Report
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Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 40

File Name: 2510040A.D
Description: T-304
Canister: 529
QC_Batch: 040325-MA1

Date Sampled: 03/21/25 **Time:** 07:58
Date Analyzed: 04/03/25 **Time:** 20:18
Can Dilution Factor: 1.21
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	1.01	11.45	0.70	1.74	19.73	
75-71-8	Dichlorodifluoromethane	0.61	1.01	ND	3.00	4.99	ND	
67-56-1	Methanol	2.02	2.42	ND	2.64	3.17	ND	
74-87-3	Chloromethane	0.61	1.01	ND	1.25	2.09	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	1.01	ND	2.82	7.06	ND	
75-01-4	Vinyl chloride	0.20	1.01	ND	0.52	2.58	ND	
106-99-0	1,3-Butadiene	0.20	1.01	ND	0.45	2.23	ND	
74-83-9	Bromomethane	0.40	1.01	ND	1.57	3.92	ND	
75-00-3	Chloroethane	0.40	1.01	ND	1.07	2.66	ND	
64-17-5	Ethanol	2.02	12.95	ND	3.81	24.44	ND	
107-02-8	Acrolein	0.40	1.21	0.65	0.93	2.78	1.50	J
75-69-4	Trichlorofluoromethane	0.40	1.01	ND	2.27	5.67	ND	
67-64-1	Acetone	2.02	2.42	3.40	4.80	5.76	8.10	
67-63-0	2-propanol (isopropylalcohol)	0.81	5.04	ND	1.99	12.41	ND	
75-65-0	t-Butyl alcohol	0.40	4.03	ND	1.22	12.24	ND	
4227-95-6	Methyl iodide	0.40	1.21	ND	2.36	7.08	ND	
75-35-4	1,1-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
107-13-1	Acrylonitrile	0.81	1.21	ND	1.75	2.63	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.01	ND	1.55	7.74	ND	
107-05-1	Allyl chloride	0.20	4.03	ND	0.63	12.64	ND	
75-09-2	Methylene chloride	0.20	1.01	ND	0.70	3.51	ND	
75-15-0	Carbon disulfide	0.40	1.01	ND	1.26	3.14	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.81	ND	0.80	3.20	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.81	ND	1.46	2.91	ND	
107-12-0	Propionitrile	1.01	1.61	ND	2.28	3.64	ND	
75-34-3	1,1-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
637-92-3	Ethyl tert butyl ether	0.40	1.01	ND	1.69	4.22	ND	
108-05-4	Vinyl acetate	0.20	4.03	ND	0.71	14.22	ND	
78-93-3	2-Butanone (MEK)	0.40	1.21	ND	1.19	3.57	ND	
108-20-3	Diisopropyl ether	0.40	2.42	ND	1.69	10.13	ND	
110-54-3	Hexane	0.40	1.01	ND	1.42	3.56	ND	
126-98-7	Methacrylonitrile	0.40	1.01	ND	1.11	2.77	ND	
141-78-6	Ethyl acetate	0.40	1.01	ND	1.46	3.64	ND	
74-97-5	Bromochloromethane	0.20	1.01	ND	1.07	5.34	ND	
96-33-3	Methyl acrylate	0.40	2.02	ND	1.42	7.11	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.21	ND	0.60	3.57	ND	
78-83-1	Isobutyl alcohol	0.81	3.23	ND	2.45	9.79	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
594-20-7	2,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
67-66-3	Chloroform	0.20	1.01	ND	0.99	4.93	ND	
71-55-6	1,1,1-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
107-06-2	1,2-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
563-58-6	1,1-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
110-82-7	Cyclohexane	0.20	1.01	ND	0.70	3.48	ND	
71-43-2	Benzene	1.41	2.02	ND	4.52	6.45	ND	
56-23-5	Carbon tetrachloride	0.20	1.01	ND	1.27	6.35	ND	
994-05-8	t-Amyl methyl ether	0.40	2.02	ND	1.69	8.44	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.01	ND	0.94	4.72	ND	
142-82-5	n-Heptane	0.40	1.01	ND	1.66	4.14	ND	
78-87-5	1,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
123-91-1	1,4 Dioxane	0.40	2.02	ND	1.46	7.28	ND	
74-95-3	Dibromomethane	0.20	1.01	ND	1.44	7.18	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.01	ND	0.54	5.43	ND	
75-27-4	Bromodichloromethane	0.20	1.01	ND	1.35	6.76	ND	
80-62-6	Methyl methacrylate	0.40	1.01	ND	1.65	4.13	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.23	ND	1.66	13.24	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
108-88-3	Toluene	0.81	1.01	ND	3.04	3.80	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
97-63-2	Ethyl methacrylate	0.40	1.01	ND	1.89	4.72	ND	
591-78-6	2-Hexanone	0.40	3.23	ND	1.66	13.24	ND	
142-28-9	1,3-Dichloropropane	0.20	2.82	ND	0.93	13.07	ND	
111-65-9	Octane	0.40	1.01	ND	1.89	4.72	ND	
124-48-1	Dibromochloromethane	0.40	1.01	ND	3.44	8.60	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	1.01	ND	3.10	7.76	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.01	0.11	0.68	6.85	0.77	J
108-90-7	Chlorobenzene	0.40	1.01	ND	1.86	4.65	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	1.01	ND	2.77	6.93	ND	
100-41-4	Ethylbenzene	0.40	1.01	0.47	1.75	4.39	2.06	J
1330-20-7	m,p-Xylenes	0.40	1.01	ND	1.75	4.39	ND	
111-84-2	Nonane	0.40	1.01	ND	2.12	5.30	ND	
100-42-5	Styrene	0.61	1.01	ND	2.58	4.30	ND	
75-25-2	Bromoform	0.40	1.01	ND	4.17	10.44	ND	
95-47-6	o-Xylene	0.40	1.01	ND	1.75	4.39	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.81	2.02	ND	5.54	13.86	ND	
96-18-4	1,2,3-Trichloropropane	0.81	2.42	ND	4.87	14.61	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.81	2.42	ND	4.13	12.39	ND	
103-65-1	n-Propylbenzene	0.81	2.82	ND	3.97	13.90	ND	
98-82-8	Isopropylbenzene	0.81	2.82	ND	3.97	13.90	ND	
622-96-8	4-Ethyltoluene	0.81	6.45	ND	3.97	31.77	ND	
108-67-8	1,3,5-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
124-18-5	Decane	0.81	2.42	ND	4.70	14.10	ND	
98-06-6	tert-butyl benzene	0.81	2.42	ND	4.43	13.30	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
538-93-2	i-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
135-98-8	sec-butylbenzene	0.81	2.82	ND	4.43	15.52	ND	
541-73-1	1,3-Dichlorobenzene	0.81	3.23	ND	4.86	19.43	ND	
99-87-6	Isopropyltoluene	0.81	2.42	ND	4.43	13.30	ND	
100-44-7	Benzyl chloride	0.81	2.02	ND	4.18	10.46	ND	
106-46-7	1,4-Dichlorobenzene	0.81	2.02	ND	4.86	12.14	ND	
104-51-8	n-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
95-50-1	1,2-Dichlorobenzene	0.81	2.82	ND	4.86	17.00	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.21	2.82	ND	11.71	27.32	ND	
120-82-1	1,2,4-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
91-20-3	Naphthalene	2.02	0.40	ND	10.59	2.12	ND	
87-61-6	1,2,3-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
87-68-3	Hexachlorobutadiene	1.01	1.21	ND	10.77	12.92	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	101	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**40**		
File Name:	2510040A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/21/25**	**Time:**	**7:58**
Sample ID:	T-304	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/03/25**	**Time:**	**20:18**
Anal Date:	3 Apr 125 8:18 pm	**SF:**	**2**	**QCbatch:**	**040325-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**529**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.21**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	SS	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	2.839	4.41	42.00	523879
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.284	4.86	31.00	234202
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.162	6.32	56.00	15727
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	0.844	6.42	58.00	150893
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.056	6.45	45.00	41757
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.203	10.70	78.00	184981
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.047	11.48	71.00	15876
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.042	13.50	91.00	53401
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.028	14.69	166.00	17550
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.118	15.90	106	151915
1330-20-7	m,p-Xylenes	75	TRG	0.042	16.06	91.00	48141
111-84-2	Nonane	76	TRG	0.031	16.43	57.00	28863
100-42-5	Styrene	77	TRG	0.027	16.61	104.00	21766
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.032	16.54	91.00	38855
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.008	18.04	91.00	17321
98-82-8	Isopropylbenzene	84	TRG	0.014	18.23	105.00	32548
622-96-8	4-Ethyltoluene	85	TRG	0.021	18.23	105.00	32548
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.024	18.31	105.00	33484
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.015	18.95	105.00	22312
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.016	19.53	119.00	34630
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**15001082**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**16954848**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**14501676**
2037-26-5	Toluene-d8	103	SURR	10.121	13.40	98.00	**10549682**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**40**
File Name:	2510040A.D
Run Method:	A1563_P.M
Can Factor:	1.21
Air Volume:	300.0 ml
Can/Tube Number:	529
Dilution Factor:	0.3630
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3630
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	2.84	11.45	19.73	11.45	19.73	19.73	19.73	0.100	0.250	0.40	0.70	1.01
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.61	3.00	1.01
Methanol	32.0	0.28	1.15	1.50	ND	ND	0		0.500	0.600	2.02	2.64	2.42
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.61	1.25	1.01
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.82	1.01
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.52	1.01
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.45	1.01
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.57	1.01
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.07	1.01
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	2.02	3.81	12.95
Acrolein	56.1	0.16	0.65	1.50	0.65	1.50	1.50	1.50	0.100	0.300	0.40	0.93	1.21
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.27	1.01
Acetone	58.1	0.84	3.40	8.10	3.40	8.10	8.10	8.10	0.500	0.600	2.02	4.80	2.42
2-propanol (isopropylalcohol)	60.1	0.06	0.23	0.56	ND	ND	0		0.200	1.250	0.81	1.99	5.04
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.40	1.22	4.03
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.40	2.36	1.21
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.80	1.01
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.81	1.75	1.21
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.55	1.01
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.63	4.03
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.70	1.01
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.26	1.01
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.20	0.80	0.81
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.40	1.46	0.81
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.01	2.28	1.61
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.82	1.01
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.69	1.01
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.71	4.03
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.40	1.19	1.21
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.40	1.69	2.42
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.42	1.01
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.11	1.01
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.46	1.01
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.07	1.01
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.42	2.02
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.20	0.60	1.21
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.81	2.45	3.23
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.80	1.01
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.93	1.01
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.99	1.01
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.10	1.01
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.82	1.01
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	1.01
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.70	1.01
Benzene	78.1	0.20	0.82	2.62	ND	ND	0		0.350	0.500	1.41	4.52	2.02
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.27	1.01
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.69	2.02
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.94	1.01
n-Heptane	100.2	0.05	0.19	0.79	ND	ND	0		0.100	0.250	0.40	1.66	1.01

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.93	1.01
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.46	2.02
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.44	1.01
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.54	1.01
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.35	1.01
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.65	1.01
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.40	1.66	3.23
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	1.01
Toluene	92.1	0.04	0.17	0.64	ND	ND	0		0.200	0.250	0.81	3.04	1.01
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	1.01
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.10	1.01
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.89	1.01
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.40	1.66	3.23
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.20	0.93	2.82
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.89	1.01
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	3.44	1.01
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	3.10	1.01
Tetrachloroethene (PCE)	165.8	0.03	0.11	0.77	0.11	0.77	0.77	0.77	0.025	0.250	0.10	0.68	1.01
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.86	1.01
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.77	1.01
Ethylbenzene	106.2	0.12	0.47	2.06	0.47	2.06	2.06	2.06	0.100	0.250	0.40	1.75	1.01
m,p-Xylenes	106.2	0.04	0.17	0.73	ND	ND	0		0.100	0.250	0.40	1.75	1.01
Nonane	128.3	0.03	0.13	0.66	ND	ND	0		0.100	0.250	0.40	2.12	1.01
Styrene	104.2	0.03	0.11	0.47	ND	ND	0		0.150	0.250	0.61	2.58	1.01
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	4.17	1.01
o-Xylene	106.2	0.03	0.13	0.57	ND	ND	0		0.100	0.250	0.40	1.75	1.01
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.81	5.54	2.02
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.87	2.42
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.13	2.42
n-Propylbenzene	120.2	0.01	0.03	0.16	ND	ND	0		0.200	0.700	0.81	3.97	2.82
Isopropylbenzene	120.2	0.01	0.06	0.28	ND	ND	0		0.200	0.700	0.81	3.97	2.82
4-Ethyltoluene	120.2	0.02	0.08	0.41	ND	ND	0		0.200	1.600	0.81	3.97	6.45
1,3,5-Trimethylbenzene	120.2	0.02	0.10	0.47	ND	ND	0		0.200	0.900	0.81	3.97	3.63
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.70	2.42
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.43	2.42
1,2,4-Trimethylbenzene	120.2	0.01	0.06	0.30	ND	ND	0		0.200	0.900	0.81	3.97	3.63
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.43	2.42
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	4.43	2.82
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.81	4.86	3.23
Isopropyltoluene	134.2	0.02	0.07	0.36	ND	ND	0		0.200	0.600	0.81	4.43	2.42
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.81	4.18	2.02
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.81	4.86	2.02
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.43	2.42
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	4.86	2.82
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.21	11.71	2.82
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.21	8.99	2.02
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.02	10.59	0.40
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.21	8.99	2.02
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.01	10.77	1.21
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		10.12	101	101	101	101	101	101	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.74				=		Y	11.45	19.73
4.99	U	ND		ND		Y	0.00	0.00
3.17	U	ND		ND		Y	0.00	0.00
2.09	U	ND		ND		Y	0.00	0.00
7.06	U	ND		ND		Y	0.00	0.00
2.58	U	ND		ND		Y	0.00	0.00
2.23	U	ND		ND		Y	0.00	0.00
3.92	U	ND		ND		Y	0.00	0.00
2.66	U	ND		ND		Y	0.00	0.00
24.44	U	ND		ND		Y	0.00	0.00
2.78	J	J		=		Y	0.65	1.50
5.67	U	ND		ND		Y	0.00	0.00
5.76				=		Y	3.40	8.10
12.41	U	ND		ND		Y	0.00	0.00
12.24	U	ND		ND		Y	0.00	0.00
7.08	U	ND		ND		Y	0.00	0.00
4.00	U	ND		ND		Y	0.00	0.00
2.63	U	ND		ND		Y	0.00	0.00
7.74	U	ND		ND		Y	0.00	0.00
12.64	U	ND		ND		Y	0.00	0.00
3.51	U	ND		ND		Y	0.00	0.00
3.14	U	ND		ND		Y	0.00	0.00
3.20	U	ND		ND		Y	0.00	0.00
2.91	U	ND		ND		Y	0.00	0.00
3.64	U	ND		ND		Y	0.00	0.00
4.09	U	ND		ND		Y	0.00	0.00
4.22	U	ND		ND		Y	0.00	0.00
14.22	U	ND		ND		Y	0.00	0.00
3.57	U	ND		ND		Y	0.00	0.00
10.13	U	ND		ND		Y	0.00	0.00
3.56	U	ND		ND		Y	0.00	0.00
2.77	U	ND		ND		Y	0.00	0.00
3.64	U	ND		ND		Y	0.00	0.00
5.34	U	ND		ND		Y	0.00	0.00
7.11	U	ND		ND		Y	0.00	0.00
3.57	U	ND		ND		Y	0.00	0.00
9.79	U	ND		ND		Y	0.00	0.00
4.00	U	ND		ND		Y	0.00	0.00
4.67	U	ND		ND		Y	0.00	0.00
4.93	U	ND		ND		Y	0.00	0.00
5.51	U	ND		ND		Y	0.00	0.00
4.09	U	ND		ND		Y	0.00	0.00
4.58	U	ND		ND		Y	0.00	0.00
3.48	U	ND		ND		Y	0.00	0.00
6.45	U	ND		ND		Y	0.00	0.00
6.35	U	ND		ND		Y	0.00	0.00
8.44	U	ND		ND		Y	0.00	0.00
4.72	U	ND		ND		Y	0.00	0.00
4.14	U	ND		ND		Y	0.00	0.00

4.67	U	ND	ND	Y	0.00	0.00
7.28	U	ND	ND	Y	0.00	0.00
7.18	U	ND	ND	Y	0.00	0.00
5.43	U	ND	ND	Y	0.00	0.00
6.76	U	ND	ND	Y	0.00	0.00
4.13	U	ND	ND	Y	0.00	0.00
13.24	U	ND	ND	Y	0.00	0.00
4.58	U	ND	ND	Y	0.00	0.00
3.80	U	ND	ND	Y	0.00	0.00
4.58	U	ND	ND	Y	0.00	0.00
5.51	U	ND	ND	Y	0.00	0.00
4.72	U	ND	ND	Y	0.00	0.00
13.24	U	ND	ND	Y	0.00	0.00
13.07	U	ND	ND	Y	0.00	0.00
4.72	U	ND	ND	Y	0.00	0.00
8.60	U	ND	ND	Y	0.00	0.00
7.76	U	ND	ND	Y	0.00	0.00
6.85	J	J	=	Y	0.11	0.77
4.65	U	ND	ND	Y	0.00	0.00
6.93	U	ND	ND	Y	0.00	0.00
4.39	J	J	=	Y	0.47	2.06
4.39	U	ND	ND	Y	0.00	0.00
5.30	U	ND	ND	Y	0.00	0.00
4.30	U	ND	ND	Y	0.00	0.00
10.44	U	ND	ND	Y	0.00	0.00
4.39	U	ND	ND	Y	0.00	0.00
13.86	U	ND	ND	Y	0.00	0.00
14.61	U	ND	ND	Y	0.00	0.00
12.39	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
31.77	U	ND	ND	Y	0.00	0.00
17.87	U	ND	ND	Y	0.00	0.00
14.10	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
17.87	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
15.52	U	ND	ND	Y	0.00	0.00
19.43	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
10.46	U	ND	ND	Y	0.00	0.00
12.14	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
17.00	U	ND	ND	Y	0.00	0.00
27.32	U	ND	ND	Y	0.00	0.00
14.98	U	ND	ND	Y	0.00	0.00
2.12	U	ND	ND	Y	0.00	0.00
14.98	U	ND	ND	Y	0.00	0.00
12.92	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**40**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.21	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum (Astdni) (Cistdi) / (Cstdni) (Aistdi) i — Note: 1

2) Raw Amt = (Ansamp) / (Avg RFn) × (Cistdi) / (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) × 1000 / (SV) × (CDF)

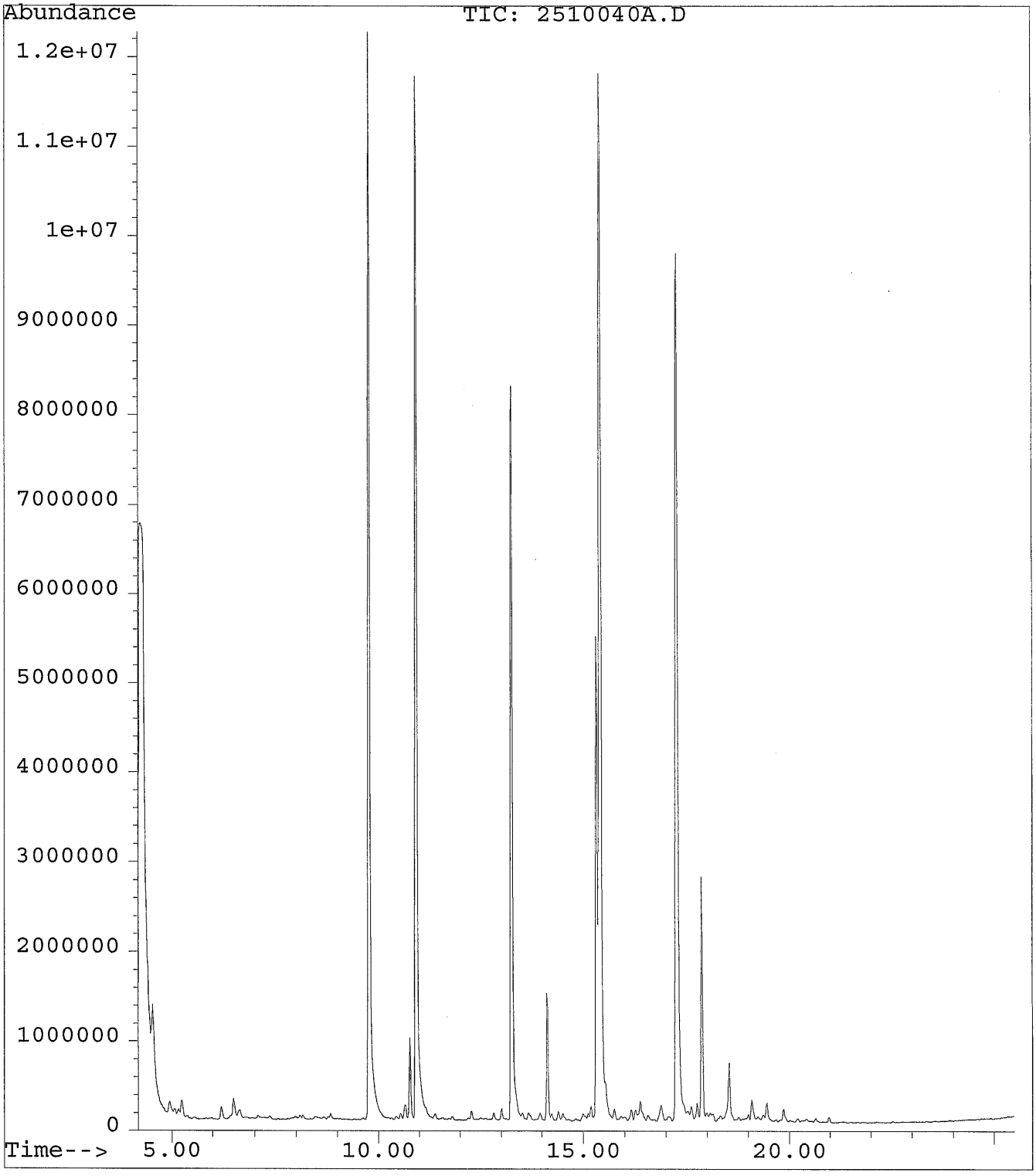
4) Amount ug/m3 = (amt(ppbv) × MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	523879	20.0	15001082	2.839	11.45	19.73
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	15001082	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	234202	20.0	15001082	0.284	1.15	1.50
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	15001082	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	15001082	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	15001082	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	15001082	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	15001082	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	15001082	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	0	20.0	15001082	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.130	15727	20.0	15001082	0.162	0.65	1.50
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	15001082	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	150893	20.0	15001082	0.844	3.40	8.10
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	41757	20.0	15001082	0.056	0.23	0.56
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	15001082	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	15001082	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	15001082	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	15001082	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	15001082	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	15001082	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	15001082	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	15001082	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	15001082	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	15001082	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	15001082	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	15001082	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	15001082	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	15001082	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	0	20.0	15001082	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	15001082	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	15001082	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	15001082	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	15001082	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	15001082	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	15001082	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	15001082	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	15001082	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	15001082	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	15001082	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	15001082	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	16954848	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	16954848	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	16954848	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	16954848	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	184981	20.0	16954848	0.203	0.82	2.62
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	16954848	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	16954848	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	16954848	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	15876	20.0	16954848	0.047	0.19	0.79
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	16954848	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	16954848	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	16954848	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	16954848	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	16954848	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	16954848	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	16954848	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	16954848	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	53401	20.0	16954848	0.042	0.17	0.64
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	16954848	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	16954848	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	16954848	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	16954848	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	16954848	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	16954848	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	16954848	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	16954848	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	17550	20.0	16954848	0.028	0.11	0.77
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	14501676	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	14501676	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	151915	20.0	14501676	0.118	0.47	2.06
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	48141	20.0	14501676	0.042	0.17	0.73
76	Nonane	d5CB	TRG	128.3	1.278	28863	20.0	14501676	0.031	0.13	0.66
77	Styrene	d5CB	TRG	104.2	1.106	21766	20.0	14501676	0.027	0.11	0.47
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	14501676	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	38855	20.0	14501676	0.032	0.13	0.57
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	14501676	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	14501676	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	14501676	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	17321	20.0	14501676	0.008	0.03	0.16
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	32548	20.0	14501676	0.014	0.06	0.28

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	32548	20.0	14501676	0.021	0.08	0.41
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	33484	20.0	14501676	0.024	0.10	0.47
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	14501676	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	14501676	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	22312	20.0	14501676	0.015	0.06	0.30
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	14501676	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	14501676	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	14501676	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	34630	20.0	14501676	0.016	0.07	0.36
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	14501676	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	14501676	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	14501676	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	14501676	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	14501676	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	14501676	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	14501676	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	14501676	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	14501676	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	15001082	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	16954848	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	14501676	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	10549682	10.0		10.121	101.21	101

File : C:\MSCHEM\1\DATA\04035A_C\2510040A.D
Operator : SS
Acquired : 3 Apr 125 8:18 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-304
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number 225100

Lab Id Number 41

Client ID T-305

Analytical Method TO-15

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Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 41**

File Name: 2510041A.D **Date Sampled:** 03/21/25 **Time:** 09:22
Description: T-305 **Date Analyzed:** 04/03/25 **Time:** 21:09
Canister: 660 **Can Dilution Factor:** 1.25
QC_Batch: 040325-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.04	45.81	0.72	1.80	78.95	
75-71-8	Dichlorodifluoromethane	0.63	1.04	ND	3.09	5.16	ND	
67-56-1	Methanol	2.08	2.50	7.99	2.73	3.28	10.47	
74-87-3	Chloromethane	0.63	1.04	ND	1.29	2.15	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.04	ND	2.92	7.29	ND	
75-01-4	Vinyl chloride	0.21	1.04	ND	0.54	2.67	ND	
106-99-0	1,3-Butadiene	0.21	1.04	ND	0.46	2.31	ND	
74-83-9	Bromomethane	0.42	1.04	ND	1.62	4.05	ND	
75-00-3	Chloroethane	0.42	1.04	ND	1.10	2.75	ND	
64-17-5	Ethanol	2.08	13.38	3.19	3.93	25.25	6.02	J
107-02-8	Acrolein	0.42	1.25	2.03	0.96	2.87	4.66	
75-69-4	Trichlorofluoromethane	0.42	1.04	ND	2.34	5.86	ND	
67-64-1	Acetone	2.08	2.50	15.17	4.96	5.95	36.11	
67-63-0	2-propanol (isopropylalcohol)	0.83	5.21	ND	2.05	12.82	ND	
75-65-0	t-Butyl alcohol	0.42	4.17	ND	1.26	12.64	ND	
4227-95-6	Methyl iodide	0.42	1.25	ND	2.44	7.32	ND	
75-35-4	1,1-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
107-13-1	Acrylonitrile	0.83	1.25	ND	1.81	2.72	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.04	ND	1.60	7.99	ND	
107-05-1	Allyl chloride	0.21	4.17	ND	0.65	13.05	ND	
75-09-2	Methylene chloride	0.21	1.04	ND	0.72	3.62	ND	
75-15-0	Carbon disulfide	0.42	1.04	0.97	1.30	3.25	3.01	J
156-60-5	trans-1,2-Dichloroethene	0.21	0.83	ND	0.83	3.31	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.83	ND	1.50	3.01	ND	
107-12-0	Propionitrile	1.04	1.67	ND	2.35	3.76	ND	
75-34-3	1,1-Dichloroethane	0.21	1.04	ND	0.84	4.22	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.04	ND	1.74	4.36	ND	
108-05-4	Vinyl acetate	0.21	4.17	ND	0.73	14.69	ND	
78-93-3	2-Butanone (MEK)	0.42	1.25	10.38	1.23	3.69	30.65	
108-20-3	Diisopropyl ether	0.42	2.50	ND	1.74	10.46	ND	
110-54-3	Hexane	0.42	1.04	4.50	1.47	3.68	15.90	
126-98-7	Methacrylonitrile	0.42	1.04	ND	1.15	2.86	ND	
141-78-6	Ethyl acetate	0.42	1.04	ND	1.50	3.76	ND	
74-97-5	Bromochloromethane	0.21	1.04	ND	1.10	5.52	ND	
96-33-3	Methyl acrylate	0.42	2.08	ND	1.47	7.35	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.25	3.63	0.62	3.69	10.72	
78-83-1	Isobutyl alcohol	0.83	3.33	ND	2.53	10.12	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
594-20-7	2,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
67-66-3	Chloroform	0.21	1.04	ND	1.02	5.09	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
107-06-2	1,2-Dichloroethane	0.21	1.04	0.74	0.84	4.22	3.00	J
563-58-6	1,1-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
110-82-7	Cyclohexane	0.21	1.04	13.13	0.72	3.59	45.29	
71-43-2	Benzene	1.46	2.08	3.74	4.66	6.66	11.96	
56-23-5	Carbon tetrachloride	0.21	1.04	ND	1.31	6.56	ND	
994-05-8	t-Amyl methyl ether	0.42	2.08	ND	1.74	8.72	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.04	4.42	0.97	4.87	20.68	
142-82-5	n-Heptane	0.42	1.04	5.33	1.71	4.27	21.88	
78-87-5	1,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
123-91-1	1,4 Dioxane	0.42	2.08	ND	1.50	7.52	ND	
74-95-3	Dibromomethane	0.21	1.04	ND	1.48	7.42	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.04	0.28	0.56	5.61	1.49	J
75-27-4	Bromodichloromethane	0.21	1.04	ND	1.40	6.99	ND	
80-62-6	Methyl methacrylate	0.42	1.04	ND	1.71	4.27	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.33	0.75	1.71	13.68	3.09	J
10061-01-5	cis-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
108-88-3	Toluene	0.83	1.04	3.26	3.14	3.93	12.31	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
97-63-2	Ethyl methacrylate	0.42	1.04	ND	1.95	4.87	ND	
591-78-6	2-Hexanone	0.42	3.33	ND	1.71	13.68	ND	
142-28-9	1,3-Dichloropropane	0.21	2.92	ND	0.96	13.50	ND	
111-65-9	Octane	0.42	1.04	0.90	1.95	4.87	4.20	J
124-48-1	Dibromochloromethane	0.42	1.04	ND	3.55	8.89	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.04	ND	3.21	8.02	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.04	0.86	0.71	7.07	5.85	J
108-90-7	Chlorobenzene	0.42	1.04	ND	1.92	4.80	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.04	ND	2.86	7.16	ND	
100-41-4	Ethylbenzene	0.42	1.04	1.16	1.81	4.53	5.05	
1330-20-7	m,p-Xylenes	0.42	1.04	3.92	1.81	4.53	17.06	
111-84-2	Nonane	0.42	1.04	0.68	2.19	5.47	3.55	J
100-42-5	Styrene	0.63	1.04	ND	2.67	4.45	ND	
75-25-2	Bromoform	0.42	1.04	ND	4.31	10.78	ND	
95-47-6	o-Xylene	0.42	1.04	1.26	1.81	4.53	5.48	
79-34-5	1,1,2,2-Tetrachloroethane	0.83	2.08	ND	5.73	14.32	ND	
96-18-4	1,2,3-Trichloropropane	0.83	2.50	ND	5.03	15.09	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.83	2.50	ND	4.27	12.80	ND	
103-65-1	n-Propylbenzene	0.83	2.92	ND	4.10	14.36	ND	
98-82-8	Isopropylbenzene	0.83	2.92	ND	4.10	14.36	ND	
622-96-8	4-Ethyltoluene	0.83	6.67	ND	4.10	32.82	ND	
108-67-8	1,3,5-Trimethylbenzene	0.83	3.75	ND	4.10	18.46	ND	
124-18-5	Decane	0.83	2.50	ND	4.86	14.57	ND	
98-06-6	tert-butyl benzene	0.83	2.50	ND	4.58	13.74	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.83	3.75	ND	4.10	18.46	ND	
538-93-2	i-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
135-98-8	sec-butylbenzene	0.83	2.92	ND	4.58	16.03	ND	
541-73-1	1,3-Dichlorobenzene	0.83	3.33	ND	5.02	20.07	ND	
99-87-6	Isopropyltoluene	0.83	2.50	1.28	4.58	13.74	7.02	J
100-44-7	Benzyl chloride	0.83	2.08	ND	4.32	10.80	ND	
106-46-7	1,4-Dichlorobenzene	0.83	2.08	ND	5.02	12.54	ND	
104-51-8	n-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
95-50-1	1,2-Dichlorobenzene	0.83	2.92	ND	5.02	17.56	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.25	2.92	ND	12.10	28.23	ND	
120-82-1	1,2,4-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
91-20-3	Naphthalene	2.08	0.42	ND	10.94	2.19	ND	
87-61-6	1,2,3-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
87-68-3	Hexachlorobutadiene	1.04	1.25	ND	11.13	13.35	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	103	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**41**		
File Name:	2510041A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/21/25**	**Time:**	**9:22**
Sample ID:	T-305	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/03/25**	**Time:**	**21:09**
Anal Date:	3 Apr 125 9:09 pm	**SF:**	**2**	**QCbatch:**	**040325-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**660**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.25**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	SS	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	10.994	4.41	42.00	1886132
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	1.917	4.86	31.00	1469283
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.766	5.72	46.00	75945
107-02-8	Acrolein	12	TRG	0.487	6.32	56.00	44007
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	3.642	6.42	58.00	605552
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.138	6.45	45.00	95850
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.232	7.61	76.00	142686
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	2.491	8.75	72.00	347085
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	1.081	8.86	57.00	557130
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.871	9.72	72.00	129549
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.039	9.42	83.00	**19515**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.177	10.27	61.95	84635
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	3.152	10.74	56.00	1488134
71-43-2	Benzene	47	TRG	0.897	10.70	78.00	766465
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	1.061	11.25	57.00	1701668
142-82-5	n-Heptane	51	TRG	1.280	11.48	71.00	401811
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.067	10.70	130.00	25768
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.181	12.55	58.00	73373
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.783	13.50	91.00	935222
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.216	14.04	85.00	101664
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.207	14.69	166.00	121204
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.278	15.90	106	358042
1330-20-7	m,p-Xylenes	75	TRG	0.941	16.06	91.00	1081283
111-84-2	Nonane	76	TRG	0.162	16.43	57.00	149791
100-42-5	Styrene	77	TRG	0.075	16.61	104.00	60274
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.302	16.54	91.00	362857
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.085	18.31	105.00	119237
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.144	18.95	105.00	214418
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.306	19.53	119.00	645194
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**13944499**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**15916100**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**14445128**
2037-26-5	Toluene-d8	103	SURR	10.291	13.40	98.00	**10069497**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**		EDD SURR:	PERCENT		IS LCL	**50**		Gas Constant						
Laboratory Number:	**41**		Sam Type:	SA		IS UCL	**200**		T	24.5					
File Name:	2510041A.D		Instrument:	MA1		SUR LCL	**70**		P	**760**					
Run Method:	A1563_P.M		DETECT:	ND		SUR UCL	**130**		MV	24.417					
Can Factor:	1.25		Matrix:	AA		MDL Factor	**1.0**		GC	24.417					
Air Volume:	300.0	ml	Type:	TRG		E Flag	1.3								
Can/Tube Number:	660		Diluton:	0.3750											
Dilution Factor:	0.3750		Sig Figs:	2											
Base Volume:	1000	ml	MDLSF:	2											
Unit Factor (ppbv):	1000	PPBV	UG/M3		Fixed	Fixed	Fixed	Fixed		(1)	(2)	Calc	Calc	Calc	
	M.W.	Raw	ResultV	Result	Result	Result	ResultQ	ResultG		MDL	RL	MDL	MDL	RL	
Compound		Amount	PPBV	UG/M3	PPBV	UG/M3	UG/M3	UG/M3			PPBV	PPBV	UG/M3	PPBV	
Propylene	42.08	10.99	45.81	78.95	45.81	78.95	78.95	78.95		**0.100**	**0.250**	0.42	0.72	1.04	
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0			**0.150**	**0.250**	0.63	3.09	1.04	
Methanol	32.0	1.92	7.99	10.47	7.99	10.47	10.47	10.47		**0.500**	**0.600**	2.08	2.73	2.50	
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0			**0.150**	**0.250**	0.63	1.29	1.04	
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0			**0.100**	**0.250**	0.42	2.92	1.04	
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0			**0.050**	**0.250**	0.21	0.54	1.04	
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0			**0.050**	**0.250**	0.21	0.46	1.04	
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0			**0.100**	**0.250**	0.42	1.62	1.04	
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0			**0.100**	**0.250**	0.42	1.10	1.04	
Ethanol	46.1	0.77	3.19	6.02	3.19	6.02	6.02	6.02		**0.500**	**3.210**	2.08	3.93	13.38	
Acrolein	56.1	0.49	2.03	4.66	2.03	4.66	4.66	4.66		**0.100**	**0.300**	0.42	0.96	1.25	
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0			**0.100**	**0.250**	0.42	2.34	1.04	
Acetone	58.1	3.64	15.17	36.11	15.17	36.11	36.11	36.11		**0.500**	**0.600**	2.08	4.96	2.50	
2-propanol (isopropylalcohol)	60.1	0.14	0.58	1.42	ND	ND	0			**0.200**	**1.250**	0.83	2.05	5.21	
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0			**0.100**	**1.000**	0.42	1.26	4.17	
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0			**0.100**	**0.300**	0.42	2.44	1.25	
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0			**0.050**	**0.250**	0.21	0.83	1.04	
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0			**0.200**	**0.300**	0.83	1.81	1.25	
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0			**0.050**	**0.250**	0.21	1.60	1.04	
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0			**0.050**	**1.000**	0.21	0.65	4.17	
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0			**0.050**	**0.250**	0.21	0.72	1.04	
Carbon disulfide	76.1	0.23	0.97	3.01	0.97	3.01	3.01	3.01		**0.100**	**0.250**	0.42	1.30	1.04	
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0			**0.050**	**0.200**	0.21	0.83	0.83	
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0			**0.100**	**0.200**	0.42	1.50	0.83	
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0			**0.250**	**0.400**	1.04	2.35	1.67	
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0			**0.050**	**0.250**	0.21	0.84	1.04	
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0			**0.100**	**0.250**	0.42	1.74	1.04	
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0			**0.050**	**1.000**	0.21	0.73	4.17	
2-Butanone (MEK)	72.1	2.49	10.38	30.65	10.38	30.65	30.65	30.65		**0.100**	**0.300**	0.42	1.23	1.25	
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0			**0.100**	**0.600**	0.42	1.74	2.50	
Hexane	86.2	1.08	4.50	15.90	4.50	15.90	15.90	15.90		**0.100**	**0.250**	0.42	1.47	1.04	
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0			**0.100**	**0.250**	0.42	1.15	1.04	
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0			**0.100**	**0.250**	0.42	1.50	1.04	
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0			**0.050**	**0.250**	0.21	1.10	1.04	
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0			**0.100**	**0.500**	0.42	1.47	2.08	
Tetrahydrofuran	72.1	0.87	3.63	10.72	3.63	10.72	10.72	10.72		**0.050**	**0.300**	0.21	0.62	1.25	
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0			**0.200**	**0.800**	0.83	2.53	3.33	
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0			**0.050**	**0.250**	0.21	0.83	1.04	
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0			**0.050**	**0.250**	0.21	0.96	1.04	
Chloroform	119.4	0.04	0.16	0.80	ND	ND	0			**0.050**	**0.250**	0.21	1.02	1.04	
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0			**0.050**	**0.250**	0.21	1.14	1.04	
1,2-Dichloroethane	99.0	0.18	0.74	3.00	0.74	3.00	3.00	3.00		**0.050**	**0.250**	0.21	0.84	1.04	
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0			**0.050**	**0.250**	0.21	0.95	1.04	
Cyclohexane	84.2	3.15	13.13	45.29	13.13	45.29	45.29	45.29		**0.050**	**0.250**	0.21	0.72	1.04	
Benzene	78.1	0.90	3.74	11.96	3.74	11.96	11.96	11.96		**0.350**	**0.500**	1.46	4.66	2.08	
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0			**0.050**	**0.250**	0.21	1.31	1.04	
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0			**0.100**	**0.500**	0.42	1.74	2.08	
2,2,4-Trimethylpentane	114.2	1.06	4.42	20.68	4.42	20.68	20.68	20.68		**0.050**	**0.250**	0.21	0.97	1.04	
n-Heptane	100.2	1.28	5.33	21.88	5.33	21.88	21.88	21.88		**0.100**	**0.250**	0.42	1.71	1.04	

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.04
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.50	2.08
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.48	1.04
Trichloroethene (TCE)	131.4	0.07	0.28	1.49	0.28	1.49	1.49	1.49	0.025	0.250	0.10	0.56	1.04
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.40	1.04
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.71	1.04
4-Methyl-2-pentanone (MIBK)	100.2	0.18	0.75	3.09	0.75	3.09	3.09	3.09	0.100	0.800	0.42	1.71	3.33
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.04
Toluene	92.1	0.78	3.26	12.31	3.26	12.31	12.31	12.31	0.200	0.250	0.83	3.14	1.04
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.04
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.14	1.04
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.95	1.04
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.42	1.71	3.33
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.21	0.96	2.92
Octane	114.2	0.22	0.90	4.20	0.90	4.20	4.20	4.20	0.100	0.250	0.42	1.95	1.04
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.55	1.04
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.21	1.04
Tetrachloroethene (PCE)	165.8	0.21	0.86	5.85	0.86	5.85	5.85	5.85	0.025	0.250	0.10	0.71	1.04
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.92	1.04
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.86	1.04
Ethylbenzene	106.2	0.28	1.16	5.05	1.16	5.05	5.05	5.05	0.100	0.250	0.42	1.81	1.04
m,p-Xylenes	106.2	0.94	3.92	17.06	3.92	17.06	17.06	17.06	0.100	0.250	0.42	1.81	1.04
Nonane	128.3	0.16	0.68	3.55	0.68	3.55	3.55	3.55	0.100	0.250	0.42	2.19	1.04
Styrene	104.2	0.08	0.31	1.34	ND	ND	0		0.150	0.250	0.63	2.67	1.04
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	4.31	1.04
o-Xylene	106.2	0.30	1.26	5.48	1.26	5.48	5.48	5.48	0.100	0.250	0.42	1.81	1.04
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.83	5.73	2.08
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	5.03	2.50
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.27	2.50
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.10	2.92
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.10	2.92
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.83	4.10	6.67
1,3,5-Trimethylbenzene	120.2	0.08	0.35	1.74	ND	ND	0		0.200	0.900	0.83	4.10	3.75
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.86	2.50
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.58	2.50
1,2,4-Trimethylbenzene	120.2	0.14	0.60	2.95	ND	ND	0		0.200	0.900	0.83	4.10	3.75
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.58	2.50
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.58	2.92
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.83	5.02	3.33
Isopropyltoluene	134.2	0.31	1.28	7.02	1.28	7.02	7.02	7.02	0.200	0.600	0.83	4.58	2.50
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.83	4.32	2.08
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.83	5.02	2.08
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.58	2.50
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	5.02	2.92
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.25	12.10	2.92
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.25	9.29	2.08
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.08	10.94	0.42
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.25	9.29	2.08
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.04	11.13	1.25
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		10.29	103	103	103	103	103	103	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.80				=		Y	45.81	78.95
5.16	U	ND		ND		Y	0.00	0.00
3.28				=		Y	7.99	10.47
2.15	U	ND		ND		Y	0.00	0.00
7.29	U	ND		ND		Y	0.00	0.00
2.67	U	ND		ND		Y	0.00	0.00
2.31	U	ND		ND		Y	0.00	0.00
4.05	U	ND		ND		Y	0.00	0.00
2.75	U	ND		ND		Y	0.00	0.00
25.25	J	J		=		Y	3.19	6.02
2.87				=		Y	2.03	4.66
5.86	U	ND		ND		Y	0.00	0.00
5.95				=		Y	15.17	36.11
12.82	U	ND		ND		Y	0.00	0.00
12.64	U	ND		ND		Y	0.00	0.00
7.32	U	ND		ND		Y	0.00	0.00
4.13	U	ND		ND		Y	0.00	0.00
2.72	U	ND		ND		Y	0.00	0.00
7.99	U	ND		ND		Y	0.00	0.00
13.05	U	ND		ND		Y	0.00	0.00
3.62	U	ND		ND		Y	0.00	0.00
3.25	J	J		=		Y	0.97	3.01
3.31	U	ND		ND		Y	0.00	0.00
3.01	U	ND		ND		Y	0.00	0.00
3.76	U	ND		ND		Y	0.00	0.00
4.22	U	ND		ND		Y	0.00	0.00
4.36	U	ND		ND		Y	0.00	0.00
14.69	U	ND		ND		Y	0.00	0.00
3.69				=		Y	10.38	30.65
10.46	U	ND		ND		Y	0.00	0.00
3.68				=		Y	4.50	15.90
2.86	U	ND		ND		Y	0.00	0.00
3.76	U	ND		ND		Y	0.00	0.00
5.52	U	ND		ND		Y	0.00	0.00
7.35	U	ND		ND		Y	0.00	0.00
3.69				=		Y	3.63	10.72
10.12	U	ND		ND		Y	0.00	0.00
4.13	U	ND		ND		Y	0.00	0.00
4.82	U	ND		ND		Y	0.00	0.00
5.09	U	ND		ND		Y	0.00	0.00
5.69	U	ND		ND		Y	0.00	0.00
4.22	J	J		=		Y	0.74	3.00
4.74	U	ND		ND		Y	0.00	0.00
3.59				=		Y	13.13	45.29
6.66				=		Y	3.74	11.96
6.56	U	ND		ND		Y	0.00	0.00
8.72	U	ND		ND		Y	0.00	0.00
4.87				=		Y	4.42	20.68
4.27				=		Y	5.33	21.88

4.82	U	ND	ND	Y	0.00	0.00
7.52	U	ND	ND	Y	0.00	0.00
7.42	U	ND	ND	Y	0.00	0.00
5.61	J	J	=	Y	0.28	1.49
6.99	U	ND	ND	Y	0.00	0.00
4.27	U	ND	ND	Y	0.00	0.00
13.68	J	J	=	Y	0.75	3.09
4.74	U	ND	ND	Y	0.00	0.00
3.93			=	Y	3.26	12.31
4.74	U	ND	ND	Y	0.00	0.00
5.69	U	ND	ND	Y	0.00	0.00
4.87	U	ND	ND	Y	0.00	0.00
13.68	U	ND	ND	Y	0.00	0.00
13.50	U	ND	ND	Y	0.00	0.00
4.87	J	J	=	Y	0.90	4.20
8.89	U	ND	ND	Y	0.00	0.00
8.02	U	ND	ND	Y	0.00	0.00
7.07	J	J	=	Y	0.86	5.85
4.80	U	ND	ND	Y	0.00	0.00
7.16	U	ND	ND	Y	0.00	0.00
4.53			=	Y	1.16	5.05
4.53			=	Y	3.92	17.06
5.47	J	J	=	Y	0.68	3.55
4.45	U	ND	ND	Y	0.00	0.00
10.78	U	ND	ND	Y	0.00	0.00
4.53			=	Y	1.26	5.48
14.32	U	ND	ND	Y	0.00	0.00
15.09	U	ND	ND	Y	0.00	0.00
12.80	U	ND	ND	Y	0.00	0.00
14.36	U	ND	ND	Y	0.00	0.00
14.36	U	ND	ND	Y	0.00	0.00
32.82	U	ND	ND	Y	0.00	0.00
18.46	U	ND	ND	Y	0.00	0.00
14.57	U	ND	ND	Y	0.00	0.00
13.74	U	ND	ND	Y	0.00	0.00
18.46	U	ND	ND	Y	0.00	0.00
13.74	U	ND	ND	Y	0.00	0.00
16.03	U	ND	ND	Y	0.00	0.00
20.07	U	ND	ND	Y	0.00	0.00
13.74	J	J	=	Y	1.28	7.02
10.80	U	ND	ND	Y	0.00	0.00
12.54	U	ND	ND	Y	0.00	0.00
13.74	U	ND	ND	Y	0.00	0.00
17.56	U	ND	ND	Y	0.00	0.00
28.23	U	ND	ND	Y	0.00	0.00
15.48	U	ND	ND	Y	0.00	0.00
2.19	U	ND	ND	Y	0.00	0.00
15.48	U	ND	ND	Y	0.00	0.00
13.35	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**41**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.25
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum (Astdni) (Cistdi) / (Cstdni) (Aistdi) i — Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

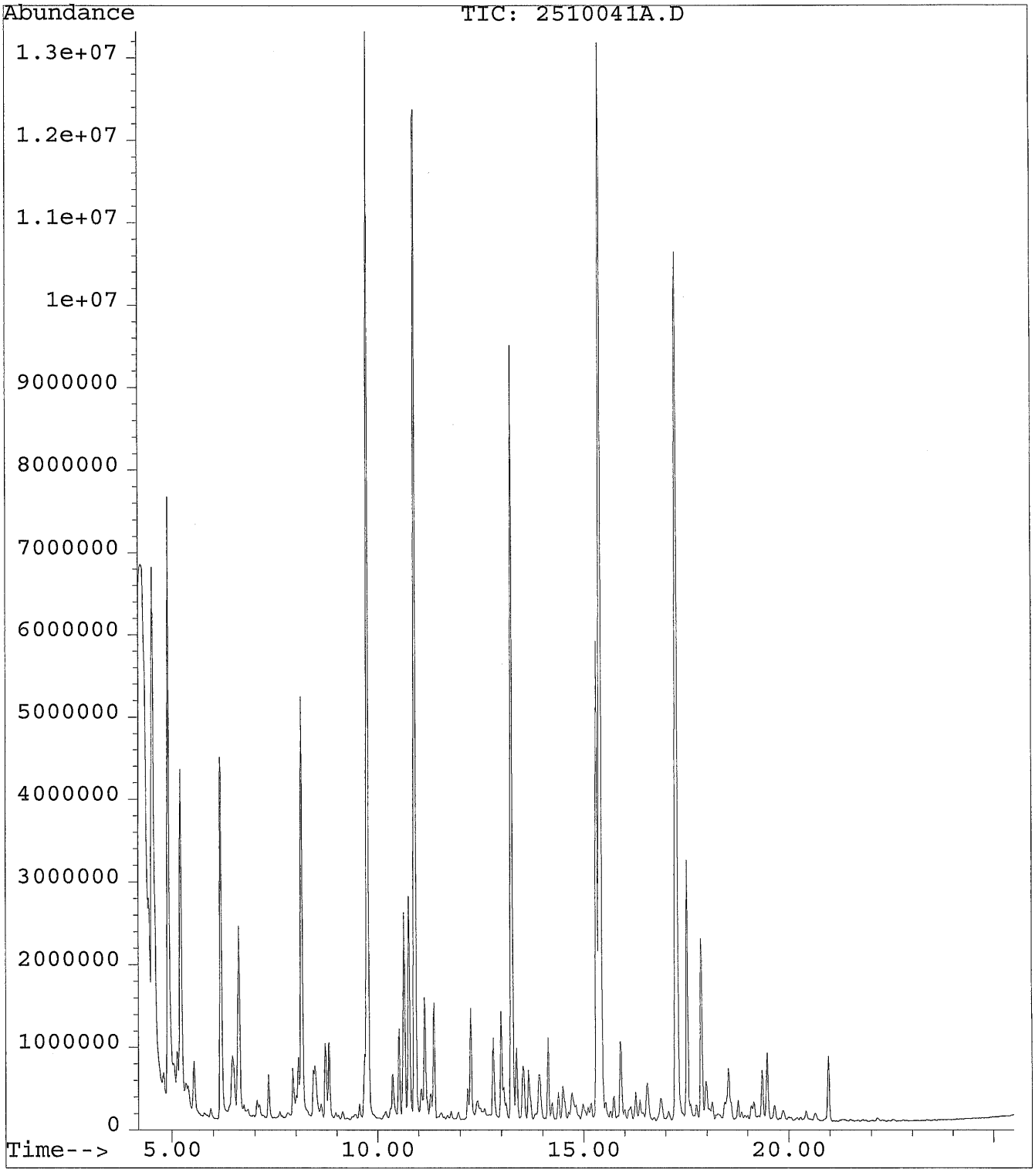
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	1886132	20.0	13944499	10.994	45.81	78.95
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	13944499	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	1469283	20.0	13944499	1.917	7.99	10.47
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	13944499	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	13944499	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	13944499	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	13944499	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	13944499	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	13944499	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	75945	20.0	13944499	0.766	3.19	6.02
12	Acrolein	PFB	TRG	56.1	0.130	44007	20.0	13944499	0.487	2.03	4.66
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	13944499	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	605552	20.0	13944499	3.642	15.17	36.11
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	95850	20.0	13944499	0.138	0.58	1.42
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	13944499	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	13944499	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	13944499	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	13944499	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	13944499	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	13944499	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	13944499	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	142686	20.0	13944499	0.232	0.97	3.01
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	13944499	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	13944499	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	13944499	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	13944499	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	13944499	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	13944499	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	347085	20.0	13944499	2.491	10.38	30.65
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	13944499	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	557130	20.0	13944499	1.081	4.50	15.90

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	13944499	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	13944499	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	13944499	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	13944499	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	129549	20.0	13944499	0.871	3.63	10.72
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	13944499	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	13944499	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	13944499	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	19515	20.0	13944499	0.039	0.16	0.80
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	15916100	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	84635	20.0	15916100	0.177	0.74	3.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	15916100	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	1488134	20.0	15916100	3.152	13.13	45.29
47	Benzene	14DF	TRG	78.1	1.074	766465	20.0	15916100	0.897	3.74	11.96
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	15916100	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	15916100	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	1701668	20.0	15916100	1.061	4.42	20.68
51	n-Heptane	14DF	TRG	100.2	0.395	401811	20.0	15916100	1.280	5.33	21.88
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	15916100	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	15916100	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	15916100	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	25768	20.0	15916100	0.067	0.28	1.49
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	15916100	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	15916100	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	73373	20.0	15916100	0.181	0.75	3.09
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	15916100	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	935222	20.0	15916100	0.783	3.26	12.31
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	15916100	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	15916100	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	15916100	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	15916100	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	15916100	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	101664	20.0	15916100	0.216	0.90	4.20
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	15916100	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	15916100	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	121204	20.0	15916100	0.207	0.86	5.85
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	14445128	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	14445128	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	358042	20.0	14445128	0.278	1.16	5.05
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	1081283	20.0	14445128	0.941	3.92	17.06
76	Nonane	d5CB	TRG	128.3	1.278	149791	20.0	14445128	0.162	0.68	3.55
77	Styrene	d5CB	TRG	104.2	1.106	60274	20.0	14445128	0.075	0.31	1.34
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	14445128	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	362857	20.0	14445128	0.302	1.26	5.48
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	14445128	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	14445128	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	14445128	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	14445128	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	14445128	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	14445128	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	119237	20.0	14445128	0.085	0.35	1.74
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	14445128	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	14445128	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	214418	20.0	14445128	0.144	0.60	2.95
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	14445128	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	14445128	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	14445128	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	645194	20.0	14445128	0.306	1.28	7.02
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	14445128	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	14445128	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	14445128	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	14445128	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	14445128	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	14445128	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	14445128	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	14445128	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	14445128	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	13944499	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	15916100	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	14445128	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	10069497	10.0		10.291	102.91	103

File : C:\MSCHEM\1\DATA\04035A_C\2510041A.D
Operator : SS
Acquired : 3 Apr 125 9:09 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-305
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number 225100

Lab Id Number 42

Client ID T-306

Analytical Method TO-15

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Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 42**

File Name: 2510042A.D **Date Sampled:** 03/21/25 **Time:** 09:13
Description: T-306 **Date Analyzed:** 04/02/25 **Time:** 18:29
Canister: 859 **Can Dilution Factor:** 1.21
QC_Batch: 040225-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	1.01	1.06	0.70	1.74	1.82	
75-71-8	Dichlorodifluoromethane	0.61	1.01	ND	3.00	4.99	ND	
67-56-1	Methanol	2.02	2.42	5.31	2.64	3.17	6.96	
74-87-3	Chloromethane	0.61	1.01	ND	1.25	2.09	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	1.01	ND	2.82	7.06	ND	
75-01-4	Vinyl chloride	0.20	1.01	ND	0.52	2.58	ND	
106-99-0	1,3-Butadiene	0.20	1.01	ND	0.45	2.23	ND	
74-83-9	Bromomethane	0.40	1.01	ND	1.57	3.92	ND	
75-00-3	Chloroethane	0.40	1.01	ND	1.07	2.66	ND	
64-17-5	Ethanol	2.02	12.95	ND	3.81	24.44	ND	
107-02-8	Acrolein	0.40	1.21	1.10	0.93	2.78	2.53	J
75-69-4	Trichlorofluoromethane	0.40	1.01	ND	2.27	5.67	ND	
67-64-1	Acetone	2.02	2.42	6.50	4.80	5.76	15.47	
67-63-0	2-propanol (isopropylalcohol)	0.81	5.04	ND	1.99	12.41	ND	
75-65-0	t-Butyl alcohol	0.40	4.03	ND	1.22	12.24	ND	
4227-95-6	Methyl iodide	0.40	1.21	ND	2.36	7.08	ND	
75-35-4	1,1-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
107-13-1	Acrylonitrile	0.81	1.21	ND	1.75	2.63	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.01	ND	1.55	7.74	ND	
107-05-1	Allyl chloride	0.20	4.03	ND	0.63	12.64	ND	
75-09-2	Methylene chloride	0.20	1.01	ND	0.70	3.51	ND	
75-15-0	Carbon disulfide	0.40	1.01	ND	1.26	3.14	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.81	ND	0.80	3.20	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.81	ND	1.46	2.91	ND	
107-12-0	Propionitrile	1.01	1.61	ND	2.28	3.64	ND	
75-34-3	1,1-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
637-92-3	Ethyl tert butyl ether	0.40	1.01	ND	1.69	4.22	ND	
108-05-4	Vinyl acetate	0.20	4.03	ND	0.71	14.22	ND	
78-93-3	2-Butanone (MEK)	0.40	1.21	0.54	1.19	3.57	1.61	J
108-20-3	Diisopropyl ether	0.40	2.42	ND	1.69	10.13	ND	
110-54-3	Hexane	0.40	1.01	ND	1.42	3.56	ND	
126-98-7	Methacrylonitrile	0.40	1.01	ND	1.11	2.77	ND	
141-78-6	Ethyl acetate	0.40	1.01	ND	1.46	3.64	ND	
74-97-5	Bromochloromethane	0.20	1.01	ND	1.07	5.34	ND	
96-33-3	Methyl acrylate	0.40	2.02	ND	1.42	7.11	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.21	ND	0.60	3.57	ND	
78-83-1	Isobutyl alcohol	0.81	3.23	ND	2.45	9.79	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
594-20-7	2,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
67-66-3	Chloroform	0.20	1.01	0.28	0.99	4.93	1.37	J
71-55-6	1,1,1-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
107-06-2	1,2-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
563-58-6	1,1-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
110-82-7	Cyclohexane	0.20	1.01	ND	0.70	3.48	ND	
71-43-2	Benzene	1.41	2.02	4.03	4.52	6.45	12.90	
56-23-5	Carbon tetrachloride	0.20	1.01	ND	1.27	6.35	ND	
994-05-8	t-Amyl methyl ether	0.40	2.02	ND	1.69	8.44	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.01	ND	0.94	4.72	ND	
142-82-5	n-Heptane	0.40	1.01	ND	1.66	4.14	ND	
78-87-5	1,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
123-91-1	1,4 Dioxane	0.40	2.02	ND	1.46	7.28	ND	
74-95-3	Dibromomethane	0.20	1.01	ND	1.44	7.18	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.01	ND	0.54	5.43	ND	
75-27-4	Bromodichloromethane	0.20	1.01	ND	1.35	6.76	ND	
80-62-6	Methyl methacrylate	0.40	1.01	ND	1.65	4.13	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.23	ND	1.66	13.24	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
108-88-3	Toluene	0.81	1.01	ND	3.04	3.80	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
97-63-2	Ethyl methacrylate	0.40	1.01	ND	1.89	4.72	ND	
591-78-6	2-Hexanone	0.40	3.23	ND	1.66	13.24	ND	
142-28-9	1,3-Dichloropropane	0.20	2.82	ND	0.93	13.07	ND	
111-65-9	Octane	0.40	1.01	ND	1.89	4.72	ND	
124-48-1	Dibromochloromethane	0.40	1.01	ND	3.44	8.60	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	1.01	ND	3.10	7.76	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.01	ND	0.68	6.85	ND	
108-90-7	Chlorobenzene	0.40	1.01	ND	1.86	4.65	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	1.01	ND	2.77	6.93	ND	
100-41-4	Ethylbenzene	0.40	1.01	ND	1.75	4.39	ND	
1330-20-7	m,p-Xylenes	0.40	1.01	ND	1.75	4.39	ND	
111-84-2	Nonane	0.40	1.01	ND	2.12	5.30	ND	
100-42-5	Styrene	0.61	1.01	ND	2.58	4.30	ND	
75-25-2	Bromoform	0.40	1.01	ND	4.17	10.44	ND	
95-47-6	o-Xylene	0.40	1.01	ND	1.75	4.39	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.81	2.02	ND	5.54	13.86	ND	
96-18-4	1,2,3-Trichloropropane	0.81	2.42	ND	4.87	14.61	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.81	2.42	ND	4.13	12.39	ND	
103-65-1	n-Propylbenzene	0.81	2.82	ND	3.97	13.90	ND	
98-82-8	Isopropylbenzene	0.81	2.82	ND	3.97	13.90	ND	
622-96-8	4-Ethyltoluene	0.81	6.45	ND	3.97	31.77	ND	
108-67-8	1,3,5-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
124-18-5	Decane	0.81	2.42	ND	4.70	14.10	ND	
98-06-6	tert-butyl benzene	0.81	2.42	ND	4.43	13.30	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
538-93-2	i-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
135-98-8	sec-butylbenzene	0.81	2.82	ND	4.43	15.52	ND	
541-73-1	1,3-Dichlorobenzene	0.81	3.23	ND	4.86	19.43	ND	
99-87-6	Isopropyltoluene	0.81	2.42	ND	4.43	13.30	ND	
100-44-7	Benzyl chloride	0.81	2.02	ND	4.18	10.46	ND	
106-46-7	1,4-Dichlorobenzene	0.81	2.02	ND	4.86	12.14	ND	
104-51-8	n-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
95-50-1	1,2-Dichlorobenzene	0.81	2.82	ND	4.86	17.00	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.21	2.82	ND	11.71	27.32	ND	
120-82-1	1,2,4-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
91-20-3	Naphthalene	2.02	0.40	ND	10.59	2.12	ND	
87-61-6	1,2,3-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
87-68-3	Hexachlorobutadiene	1.01	1.21	ND	10.77	12.92	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	102	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**42**		
File Name:	2510042A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/21/25**	**Time:**	**9:13**
Sample ID:	T-306	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/02/25**	**Time:**	**18:29**
Anal Date:	2 Apr 125 6:29 pm	**SF:**	**2**	**QCbatch:**	**040225-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**859**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.21**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	SS	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.262	4.41	42.00	46800
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	1.317	4.86	31.00	1052102
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.273	6.32	56.00	25673
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	1.612	6.42	58.00	279277
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.037	6.45	45.00	27042
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.135	8.75	72.00	19565
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.069	9.42	83.00	**36021**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	1.000	10.70	78.00	887164
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.036	12.55	58.00	15195
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.073	13.50	91.00	90096
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.017	15.90	106	23082
1330-20-7	m,p-Xylenes	75	TRG	0.020	16.06	91.00	24480
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.046	16.61	104.00	38316
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	0.00	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.020	18.31	105.00	28854
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.013	18.95	105.00	19949
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**14527514**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**16523392**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15110917**
2037-26-5	Toluene-d8	103	SURR	10.179	13.40	98.00	**10339266**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	2E+05
Laboratory Number:	42
File Name:	2510042A.D
Run Method:	A1563_P.M
Can Factor:	1.21
Air Volume:	300.0 ml
Can/Tube Number:	859
Dilution Factor:	0.3630
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR: PERCENT	
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3630
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.26	1.06	1.82	1.06	1.82	1.82	1.82	0.100	0.250	0.40	0.70	1.01
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.61	3.00	1.01
Methanol	32.0	1.32	5.31	6.96	5.31	6.96	6.96	6.96	0.500	0.600	2.02	2.64	2.42
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.61	1.25	1.01
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.82	1.01
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.52	1.01
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.45	1.01
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.57	1.01
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.07	1.01
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	2.02	3.81	12.95
Acrolein	56.1	0.27	1.10	2.53	1.10	2.53	2.53	2.53	0.100	0.300	0.40	0.93	1.21
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.27	1.01
Acetone	58.1	1.61	6.50	15.47	6.50	15.47	15.47	15.47	0.500	0.600	2.02	4.80	2.42
2-propanol (isopropylalcohol)	60.1	0.04	0.15	0.37	ND	ND	0		0.200	1.250	0.81	1.99	5.04
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.40	1.22	4.03
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.40	2.36	1.21
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.80	1.01
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.81	1.75	1.21
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.55	1.01
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.63	4.03
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.70	1.01
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.26	1.01
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.20	0.80	0.81
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.40	1.46	0.81
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.01	2.28	1.61
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.82	1.01
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.69	1.01
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.71	4.03
2-Butanone (MEK)	72.1	0.13	0.54	1.61	0.54	1.61	1.61	1.61	0.100	0.300	0.40	1.19	1.21
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.40	1.69	2.42
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.42	1.01
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.11	1.01
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.46	1.01
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.07	1.01
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.42	2.02
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.20	0.60	1.21
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.81	2.45	3.23
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.80	1.01
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.93	1.01
Chloroform	119.4	0.07	0.28	1.37	0.28	1.37	1.37	1.37	0.050	0.250	0.20	0.99	1.01
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.10	1.01
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.82	1.01
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	1.01
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.70	1.01
Benzene	78.1	1.00	4.03	12.90	4.03	12.90	12.90	12.90	0.350	0.500	1.41	4.52	2.02
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.27	1.01
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.69	2.02
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.94	1.01
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.66	1.01

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.93	1.01
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.46	2.02
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.44	1.01
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.54	1.01
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.35	1.01
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.65	1.01
4-Methyl-2-pentanone (MIBK)	100.2	0.04	0.15	0.60	ND	ND	0		0.100	0.800	0.40	1.66	3.23
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	1.01
Toluene	92.1	0.07	0.29	1.11	ND	ND	0		0.200	0.250	0.81	3.04	1.01
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	1.01
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.10	1.01
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.89	1.01
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.40	1.66	3.23
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.20	0.93	2.82
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.89	1.01
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	3.44	1.01
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	3.10	1.01
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.68	1.01
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.86	1.01
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.77	1.01
Ethylbenzene	106.2	0.02	0.07	0.30	ND	ND	0		0.100	0.250	0.40	1.75	1.01
m,p-Xylenes	106.2	0.02	0.08	0.36	ND	ND	0		0.100	0.250	0.40	1.75	1.01
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.12	1.01
Styrene	104.2	0.05	0.19	0.79	ND	ND	0		0.150	0.250	0.61	2.58	1.01
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	4.17	1.01
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.75	1.01
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.81	5.54	2.02
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.87	2.42
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.13	2.42
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	3.97	2.82
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	3.97	2.82
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.81	3.97	6.45
1,3,5-Trimethylbenzene	120.2	0.02	0.08	0.39	ND	ND	0		0.200	0.900	0.81	3.97	3.63
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.70	2.42
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.43	2.42
1,2,4-Trimethylbenzene	120.2	0.01	0.05	0.25	ND	ND	0		0.200	0.900	0.81	3.97	3.63
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.43	2.42
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	4.43	2.82
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.81	4.86	3.23
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.43	2.42
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.81	4.18	2.02
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.81	4.86	2.02
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.43	2.42
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	4.86	2.82
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.21	11.71	2.82
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.21	8.99	2.02
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.02	10.59	0.40
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.21	8.99	2.02
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.01	10.77	1.21
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		10.18	102	102	102	102	102	102	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.74				=		Y	1.06	1.82
4.99	U	ND		ND		Y	0.00	0.00
3.17				=		Y	5.31	6.96
2.09	U	ND		ND		Y	0.00	0.00
7.06	U	ND		ND		Y	0.00	0.00
2.58	U	ND		ND		Y	0.00	0.00
2.23	U	ND		ND		Y	0.00	0.00
3.92	U	ND		ND		Y	0.00	0.00
2.66	U	ND		ND		Y	0.00	0.00
24.44	U	ND		ND		Y	0.00	0.00
2.78	J	J		=		Y	1.10	2.53
5.67	U	ND		ND		Y	0.00	0.00
5.76				=		Y	6.50	15.47
12.41	U	ND		ND		Y	0.00	0.00
12.24	U	ND		ND		Y	0.00	0.00
7.08	U	ND		ND		Y	0.00	0.00
4.00	U	ND		ND		Y	0.00	0.00
2.63	U	ND		ND		Y	0.00	0.00
7.74	U	ND		ND		Y	0.00	0.00
12.64	U	ND		ND		Y	0.00	0.00
3.51	U	ND		ND		Y	0.00	0.00
3.14	U	ND		ND		Y	0.00	0.00
3.20	U	ND		ND		Y	0.00	0.00
2.91	U	ND		ND		Y	0.00	0.00
3.64	U	ND		ND		Y	0.00	0.00
4.09	U	ND		ND		Y	0.00	0.00
4.22	U	ND		ND		Y	0.00	0.00
14.22	U	ND		ND		Y	0.00	0.00
3.57	J	J		=		Y	0.54	1.61
10.13	U	ND		ND		Y	0.00	0.00
3.56	U	ND		ND		Y	0.00	0.00
2.77	U	ND		ND		Y	0.00	0.00
3.64	U	ND		ND		Y	0.00	0.00
5.34	U	ND		ND		Y	0.00	0.00
7.11	U	ND		ND		Y	0.00	0.00
3.57	U	ND		ND		Y	0.00	0.00
9.79	U	ND		ND		Y	0.00	0.00
4.00	U	ND		ND		Y	0.00	0.00
4.67	U	ND		ND		Y	0.00	0.00
4.93	J	J		=		Y	0.28	1.37
5.51	U	ND		ND		Y	0.00	0.00
4.09	U	ND		ND		Y	0.00	0.00
4.58	U	ND		ND		Y	0.00	0.00
3.48	U	ND		ND		Y	0.00	0.00
6.45				=		Y	4.03	12.90
6.35	U	ND		ND		Y	0.00	0.00
8.44	U	ND		ND		Y	0.00	0.00
4.72	U	ND		ND		Y	0.00	0.00
4.14	U	ND		ND		Y	0.00	0.00

4.67	U	ND	ND	Y	0.00	0.00
7.28	U	ND	ND	Y	0.00	0.00
7.18	U	ND	ND	Y	0.00	0.00
5.43	U	ND	ND	Y	0.00	0.00
6.76	U	ND	ND	Y	0.00	0.00
4.13	U	ND	ND	Y	0.00	0.00
13.24	U	ND	ND	Y	0.00	0.00
4.58	U	ND	ND	Y	0.00	0.00
3.80	U	ND	ND	Y	0.00	0.00
4.58	U	ND	ND	Y	0.00	0.00
5.51	U	ND	ND	Y	0.00	0.00
4.72	U	ND	ND	Y	0.00	0.00
13.24	U	ND	ND	Y	0.00	0.00
13.07	U	ND	ND	Y	0.00	0.00
4.72	U	ND	ND	Y	0.00	0.00
8.60	U	ND	ND	Y	0.00	0.00
7.76	U	ND	ND	Y	0.00	0.00
6.85	U	ND	ND	Y	0.00	0.00
4.65	U	ND	ND	Y	0.00	0.00
6.93	U	ND	ND	Y	0.00	0.00
4.39	U	ND	ND	Y	0.00	0.00
4.39	U	ND	ND	Y	0.00	0.00
5.30	U	ND	ND	Y	0.00	0.00
4.30	U	ND	ND	Y	0.00	0.00
10.44	U	ND	ND	Y	0.00	0.00
4.39	U	ND	ND	Y	0.00	0.00
13.86	U	ND	ND	Y	0.00	0.00
14.61	U	ND	ND	Y	0.00	0.00
12.39	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
31.77	U	ND	ND	Y	0.00	0.00
17.87	U	ND	ND	Y	0.00	0.00
14.10	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
17.87	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
15.52	U	ND	ND	Y	0.00	0.00
19.43	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
10.46	U	ND	ND	Y	0.00	0.00
12.14	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
17.00	U	ND	ND	Y	0.00	0.00
27.32	U	ND	ND	Y	0.00	0.00
14.98	U	ND	ND	Y	0.00	0.00
2.12	U	ND	ND	Y	0.00	0.00
14.98	U	ND	ND	Y	0.00	0.00
12.92	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**42**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.21
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum (Astdni) (Cistdi) / (Cstdni) (Aistdi) i — Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

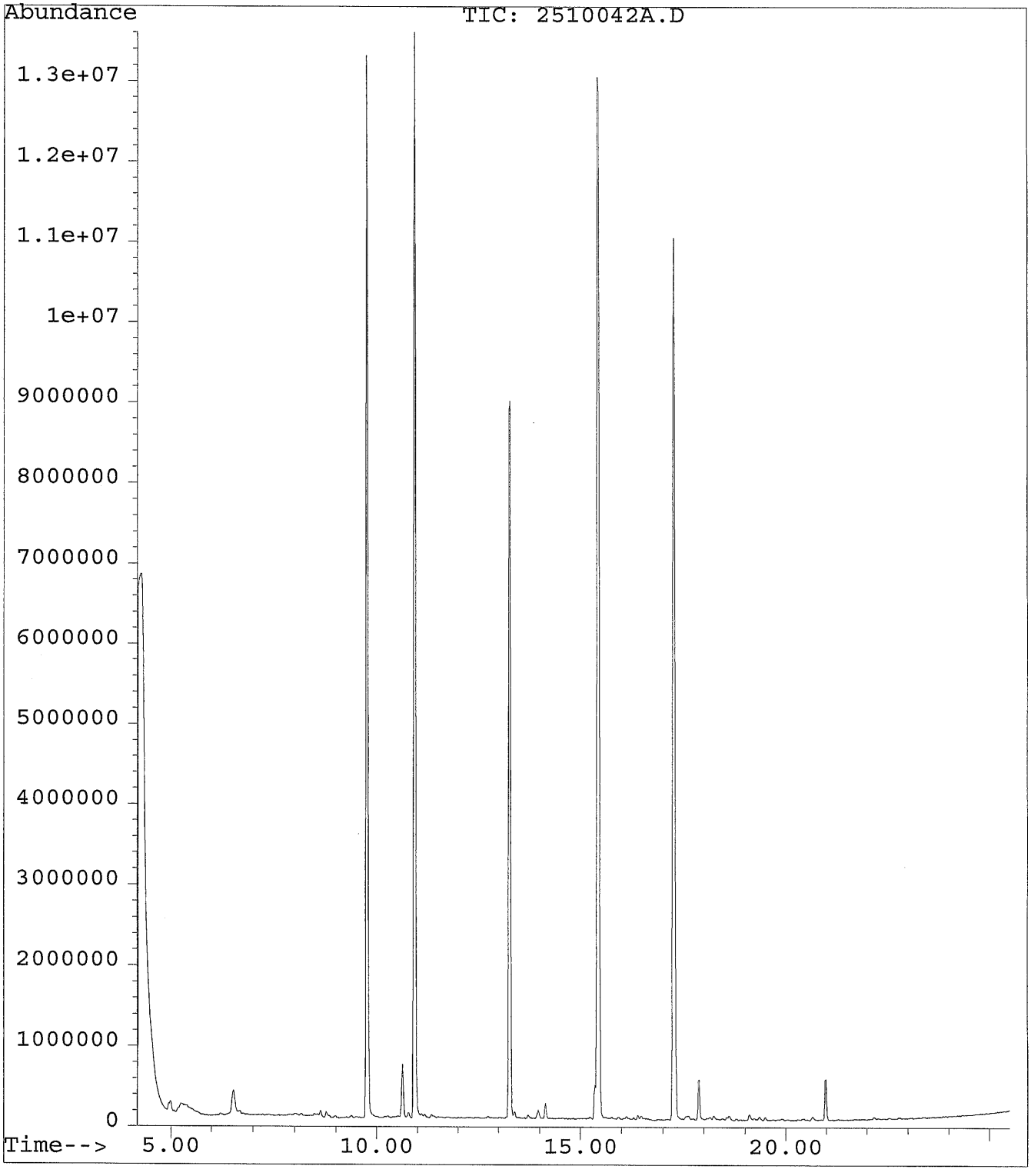
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	46800	20.0	14527514	0.262	1.06	1.82
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	14527514	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	1052102	20.0	14527514	1.317	5.31	6.96
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	14527514	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	14527514	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	14527514	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	14527514	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	14527514	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	14527514	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	0	20.0	14527514	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.130	25673	20.0	14527514	0.273	1.10	2.53
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	14527514	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	279277	20.0	14527514	1.612	6.50	15.47
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	27042	20.0	14527514	0.037	0.15	0.37
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	14527514	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	14527514	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	14527514	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	14527514	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	14527514	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	14527514	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	14527514	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	14527514	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	14527514	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	14527514	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	14527514	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	14527514	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	14527514	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	14527514	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	19565	20.0	14527514	0.135	0.54	1.61
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	14527514	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	14527514	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	14527514	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	14527514	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	14527514	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	14527514	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	14527514	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	14527514	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	14527514	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	14527514	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	36021	20.0	14527514	0.069	0.28	1.37
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	16523392	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	16523392	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	16523392	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	16523392	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	887164	20.0	16523392	1.000	4.03	12.90
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	16523392	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	16523392	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	16523392	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	16523392	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	16523392	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	16523392	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	16523392	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	16523392	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	16523392	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	16523392	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	15195	20.0	16523392	0.036	0.15	0.60
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	16523392	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	90096	20.0	16523392	0.073	0.29	1.11
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	16523392	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	16523392	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	16523392	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	16523392	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	16523392	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	16523392	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	16523392	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	16523392	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	16523392	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	15110917	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	15110917	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	23082	20.0	15110917	0.017	0.07	0.30
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	24480	20.0	15110917	0.020	0.08	0.36
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	15110917	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	38316	20.0	15110917	0.046	0.19	0.79
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	15110917	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	0	20.0	15110917	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	15110917	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	15110917	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	15110917	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	15110917	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	15110917	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	15110917	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	28854	20.0	15110917	0.020	0.08	0.39
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	15110917	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	15110917	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	19949	20.0	15110917	0.013	0.05	0.25
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	15110917	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	15110917	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	15110917	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	15110917	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	15110917	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	15110917	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	15110917	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	15110917	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	15110917	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	15110917	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	15110917	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	15110917	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	15110917	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	14527514	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	16523392	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15110917	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	10339266	10.0		10.179	101.79	102

File : C:\MSCHEM\1\DATA\04025A_C\2510042A.D
Operator : SS
Acquired : 2 Apr 125 6:29 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-306
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **43**

Client ID T-307

Analytical Method TO-15

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Analytical Report
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Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 43

File Name: 2510043A.D
Description: T-307
Canister: 636
QC_Batch: 040225-MA1

Date Sampled: 03/21/25 **Time:** 09:10
Date Analyzed: 04/02/25 **Time:** 19:16
Can Dilution Factor: 1.22
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.41	1.02	1.19	0.70	1.75	2.06	
75-71-8	Dichlorodifluoromethane	0.61	1.02	ND	3.02	5.03	ND	
67-56-1	Methanol	2.03	2.44	19.47	2.66	3.20	25.52	
74-87-3	Chloromethane	0.61	1.02	ND	1.26	2.10	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.41	1.02	ND	2.85	7.12	ND	
75-01-4	Vinyl chloride	0.20	1.02	ND	0.52	2.60	ND	
106-99-0	1,3-Butadiene	0.20	1.02	ND	0.45	2.25	ND	
74-83-9	Bromomethane	0.41	1.02	ND	1.58	3.95	ND	
75-00-3	Chloroethane	0.41	1.02	ND	1.07	2.69	ND	
64-17-5	Ethanol	2.03	13.05	ND	3.84	24.65	ND	
107-02-8	Acrolein	0.41	1.22	1.07	0.93	2.80	2.45	J
75-69-4	Trichlorofluoromethane	0.41	1.02	ND	2.29	5.72	ND	
67-64-1	Acetone	2.03	2.44	7.62	4.84	5.81	18.12	
67-63-0	2-propanol (isopropylalcohol)	0.81	5.08	0.83	2.00	12.51	2.04	J
75-65-0	t-Butyl alcohol	0.41	4.07	ND	1.23	12.34	ND	
4227-95-6	Methyl iodide	0.41	1.22	ND	2.38	7.14	ND	
75-35-4	1,1-Dichloroethene	0.20	1.02	ND	0.81	4.03	ND	
107-13-1	Acrylonitrile	0.81	1.22	ND	1.77	2.65	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.02	ND	1.56	7.80	ND	
107-05-1	Allyl chloride	0.20	4.07	ND	0.64	12.74	ND	
75-09-2	Methylene chloride	0.20	1.02	ND	0.71	3.54	ND	
75-15-0	Carbon disulfide	0.41	1.02	ND	1.27	3.17	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.81	ND	0.81	3.23	ND	
1634-04-4	Methyl tert butyl ether	0.41	0.81	ND	1.47	2.93	ND	
107-12-0	Propionitrile	1.02	1.63	ND	2.29	3.67	ND	
75-34-3	1,1-Dichloroethane	0.20	1.02	ND	0.82	4.12	ND	
637-92-3	Ethyl tert butyl ether	0.41	1.02	ND	1.70	4.26	ND	
108-05-4	Vinyl acetate	0.20	4.07	ND	0.72	14.34	ND	
78-93-3	2-Butanone (MEK)	0.41	1.22	2.95	1.20	3.60	8.72	
108-20-3	Diisopropyl ether	0.41	2.44	ND	1.70	10.21	ND	
110-54-3	Hexane	0.41	1.02	ND	1.44	3.59	ND	
126-98-7	Methacrylonitrile	0.41	1.02	ND	1.12	2.79	ND	
141-78-6	Ethyl acetate	0.41	1.02	ND	1.47	3.67	ND	
74-97-5	Bromochloromethane	0.20	1.02	ND	1.08	5.39	ND	
96-33-3	Methyl acrylate	0.41	2.03	ND	1.43	7.17	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.22	ND	0.60	3.60	ND	
78-83-1	Isobutyl alcohol	0.81	3.25	ND	2.47	9.87	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.02	ND	0.81	4.03	ND	
594-20-7	2,2-Dichloropropane	0.20	1.02	ND	0.94	4.71	ND	
67-66-3	Chloroform	0.20	1.02	ND	1.00	4.97	ND	
71-55-6	1,1,1-Trichloroethane	0.20	1.02	ND	1.11	5.55	ND	
107-06-2	1,2-Dichloroethane	0.20	1.02	ND	0.82	4.12	ND	
563-58-6	1,1-Dichloropropene	0.20	1.02	ND	0.92	4.62	ND	
110-82-7	Cyclohexane	0.20	1.02	ND	0.70	3.51	ND	
71-43-2	Benzene	1.42	2.03	4.20	4.55	6.50	13.42	
56-23-5	Carbon tetrachloride	0.20	1.02	ND	1.28	6.40	ND	
994-05-8	t-Amyl methyl ether	0.41	2.03	ND	1.70	8.51	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.02	ND	0.95	4.76	ND	
142-82-5	n-Heptane	0.41	1.02	ND	1.67	4.17	ND	
78-87-5	1,2-Dichloropropane	0.20	1.02	ND	0.94	4.71	ND	
123-91-1	1,4 Dioxane	0.41	2.03	ND	1.47	7.34	ND	
74-95-3	Dibromomethane	0.20	1.02	ND	1.45	7.24	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.02	ND	0.55	5.47	ND	
75-27-4	Bromodichloromethane	0.20	1.02	ND	1.36	6.82	ND	
80-62-6	Methyl methacrylate	0.41	1.02	ND	1.67	4.17	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.41	3.25	ND	1.67	13.35	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.02	ND	0.92	4.62	ND	
108-88-3	Toluene	0.81	1.02	ND	3.07	3.83	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.02	ND	0.92	4.62	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.02	ND	1.11	5.55	ND	
97-63-2	Ethyl methacrylate	0.41	1.02	ND	1.90	4.76	ND	
591-78-6	2-Hexanone	0.41	3.25	ND	1.67	13.35	ND	
142-28-9	1,3-Dichloropropane	0.20	2.85	ND	0.94	13.17	ND	
111-65-9	Octane	0.41	1.02	ND	1.90	4.76	ND	
124-48-1	Dibromochloromethane	0.41	1.02	ND	3.47	8.67	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.41	1.02	ND	3.13	7.82	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.02	ND	0.69	6.90	ND	
108-90-7	Chlorobenzene	0.41	1.02	ND	1.88	4.69	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.41	1.02	ND	2.79	6.99	ND	
100-41-4	Ethylbenzene	0.41	1.02	ND	1.77	4.42	ND	
1330-20-7	m,p-Xylenes	0.41	1.02	ND	1.77	4.42	ND	
111-84-2	Nonane	0.41	1.02	ND	2.14	5.34	ND	
100-42-5	Styrene	0.61	1.02	ND	2.60	4.34	ND	
75-25-2	Bromoform	0.41	1.02	ND	4.21	10.52	ND	
95-47-6	o-Xylene	0.41	1.02	ND	1.77	4.42	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.81	2.03	ND	5.59	13.97	ND	
96-18-4	1,2,3-Trichloropropane	0.81	2.44	ND	4.91	14.73	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.81	2.44	ND	4.16	12.49	ND	
103-65-1	n-Propylbenzene	0.81	2.85	ND	4.00	14.01	ND	
98-82-8	Isopropylbenzene	0.81	2.85	ND	4.00	14.01	ND	
622-96-8	4-Ethyltoluene	0.81	6.51	ND	4.00	32.03	ND	
108-67-8	1,3,5-Trimethylbenzene	0.81	3.66	ND	4.00	18.02	ND	
124-18-5	Decane	0.81	2.44	ND	4.74	14.22	ND	
98-06-6	tert-butyl benzene	0.81	2.44	ND	4.47	13.41	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.81	3.66	ND	4.00	18.02	ND	
538-93-2	i-Butylbenzene	0.81	2.44	ND	4.47	13.41	ND	
135-98-8	sec-butylbenzene	0.81	2.85	ND	4.47	15.65	ND	
541-73-1	1,3-Dichlorobenzene	0.81	3.25	ND	4.90	19.59	ND	
99-87-6	Isopropyltoluene	0.81	2.44	ND	4.47	13.41	ND	
100-44-7	Benzyl chloride	0.81	2.03	ND	4.22	10.54	ND	
106-46-7	1,4-Dichlorobenzene	0.81	2.03	ND	4.90	12.24	ND	
104-51-8	n-Butylbenzene	0.81	2.44	ND	4.47	13.41	ND	
95-50-1	1,2-Dichlorobenzene	0.81	2.85	ND	4.90	17.14	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.22	2.85	ND	11.81	27.55	ND	
120-82-1	1,2,4-Trichlorobenzene	1.22	2.03	ND	9.06	15.11	ND	
91-20-3	Naphthalene	2.03	0.41	ND	10.68	2.14	ND	
87-61-6	1,2,3-Trichlorobenzene	1.22	2.03	ND	9.06	15.11	ND	
87-68-3	Hexachlorobutadiene	1.02	1.22	ND	10.86	13.03	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	97	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**43**		
File Name:	2510043A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/21/25**	**Time:**	**9:10**
Sample ID:	T-307	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/02/25**	**Time:**	**19:16**
Anal Date:	2 Apr 125 7:16 pm	**SF:**	**2**	**QCbatch:**	**040225-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**636**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.22**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	SS	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.293	4.41	42.00	41759
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	4.789	4.86	31.00	3046708
74-87-3	Chloromethane	5	TRG	0.002	4.77	50.00	469
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.262	6.32	56.00	19656
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	1.873	6.42	58.00	258476
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.203	6.45	45.00	117140
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.726	8.75	72.00	83957
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	1.032	10.70	78.00	735905
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.084	13.50	91.00	83250
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.023	15.90	106	25308
1330-20-7	m,p-Xylenes	75	TRG	0.036	16.06	91.00	34730
111-84-2	Nonane	76	TRG	0.020	16.43	57.00	15647
100-42-5	Styrene	77	TRG	0.062	16.61	104.00	41585
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	0.00	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.000	18.31	105.00	0
124-18-5	Decane	87	TRG	0.012	18.60	57.00	16780
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.013	18.95	105.00	15941
538-93-2	i-Butylbenzene	90	TRG	0.009	19.24	91.00	15161
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.022	19.53	119.00	39268
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**11572501**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**13287483**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**12197909**
2037-26-5	Toluene-d8	103	SURR	9.704	13.40	98.00	**7926680**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**43**
File Name:	2510043A.D
Run Method:	A1563_P.M
Can Factor:	1.22
Air Volume:	300.0 ml
Can/Tube Number:	636
Dilution Factor:	0.3660
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3660
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.29	1.19	2.06	1.19	2.06	2.06	2.06	0.100	0.250	0.41	0.70	1.02
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.61	3.02	1.02
Methanol	32.0	4.79	19.47	25.52	19.47	25.52	25.52	25.52	0.500	0.600	2.03	2.66	2.44
Chloromethane	50.5	0.00	0.01	0.02	ND	ND	0		0.150	0.250	0.61	1.26	1.02
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.85	1.02
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.52	1.02
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.45	1.02
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.58	1.02
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.07	1.02
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	2.03	3.84	13.05
Acrolein	56.1	0.26	1.07	2.45	1.07	2.45	2.45	2.45	0.100	0.300	0.41	0.93	1.22
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.29	1.02
Acetone	58.1	1.87	7.62	18.12	7.62	18.12	18.12	18.12	0.500	0.600	2.03	4.84	2.44
2-propanol (isopropylalcohol)	60.1	0.20	0.83	2.04	0.83	2.04	2.04	2.04	0.200	1.250	0.81	2.00	5.08
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.41	1.23	4.07
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.41	2.38	1.22
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.81	1.02
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.81	1.77	1.22
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.56	1.02
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.64	4.07
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.71	1.02
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.27	1.02
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.20	0.81	0.81
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.41	1.47	0.81
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.02	2.29	1.63
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.82	1.02
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.70	1.02
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.72	4.07
2-Butanone (MEK)	72.1	0.73	2.95	8.72	2.95	8.72	8.72	8.72	0.100	0.300	0.41	1.20	1.22
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.41	1.70	2.44
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.44	1.02
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.12	1.02
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.47	1.02
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.08	1.02
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.43	2.03
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.20	0.60	1.22
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.81	2.47	3.25
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.81	1.02
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.94	1.02
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.00	1.02
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.11	1.02
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.82	1.02
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	1.02
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.70	1.02
Benzene	78.1	1.03	4.20	13.42	4.20	13.42	13.42	13.42	0.350	0.500	1.42	4.55	2.03
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.28	1.02
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.70	2.03
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.95	1.02
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.67	1.02

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.94	1.02
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.47	2.03
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.45	1.02
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.55	1.02
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.36	1.02
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.67	1.02
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.41	1.67	3.25
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	1.02
Toluene	92.1	0.08	0.34	1.28	ND	ND	0		0.200	0.250	0.81	3.07	1.02
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	1.02
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.11	1.02
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.90	1.02
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.41	1.67	3.25
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.20	0.94	2.85
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.90	1.02
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	3.47	1.02
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	3.13	1.02
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.69	1.02
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.88	1.02
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.79	1.02
Ethylbenzene	106.2	0.02	0.09	0.41	ND	ND	0		0.100	0.250	0.41	1.77	1.02
m,p-Xylenes	106.2	0.04	0.15	0.63	ND	ND	0		0.100	0.250	0.41	1.77	1.02
Nonane	128.3	0.02	0.08	0.43	ND	ND	0		0.100	0.250	0.41	2.14	1.02
Styrene	104.2	0.06	0.25	1.07	ND	ND	0		0.150	0.250	0.61	2.60	1.02
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	4.21	1.02
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.77	1.02
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.81	5.59	2.03
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.91	2.44
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.16	2.44
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	4.00	2.85
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	4.00	2.85
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.81	4.00	6.51
1,3,5-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.81	4.00	3.66
Decane	142.3	0.01	0.05	0.28	ND	ND	0		0.200	0.600	0.81	4.74	2.44
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.47	2.44
1,2,4-Trimethylbenzene	120.2	0.01	0.05	0.25	ND	ND	0		0.200	0.900	0.81	4.00	3.66
i-Butylbenzene	134.2	0.01	0.03	0.19	ND	ND	0		0.200	0.600	0.81	4.47	2.44
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	4.47	2.85
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.81	4.90	3.25
Isopropyltoluene	134.2	0.02	0.09	0.49	ND	ND	0		0.200	0.600	0.81	4.47	2.44
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.81	4.22	2.03
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.81	4.90	2.03
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.47	2.44
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	4.90	2.85
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.22	11.81	2.85
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.22	9.06	2.03
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.03	10.68	0.41
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.22	9.06	2.03
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.02	10.86	1.22
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		9.70	97	97	97	97	97	97	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.75				=		Y	1.19	2.06
5.03	U	ND		ND		Y	0.00	0.00
3.20				=		Y	19.47	25.52
2.10	U	ND		ND		Y	0.00	0.00
7.12	U	ND		ND		Y	0.00	0.00
2.60	U	ND		ND		Y	0.00	0.00
2.25	U	ND		ND		Y	0.00	0.00
3.95	U	ND		ND		Y	0.00	0.00
2.69	U	ND		ND		Y	0.00	0.00
24.65	U	ND		ND		Y	0.00	0.00
2.80	J	J		=		Y	1.07	2.45
5.72	U	ND		ND		Y	0.00	0.00
5.81				=		Y	7.62	18.12
12.51	J	J		=		Y	0.83	2.04
12.34	U	ND		ND		Y	0.00	0.00
7.14	U	ND		ND		Y	0.00	0.00
4.03	U	ND		ND		Y	0.00	0.00
2.65	U	ND		ND		Y	0.00	0.00
7.80	U	ND		ND		Y	0.00	0.00
12.74	U	ND		ND		Y	0.00	0.00
3.54	U	ND		ND		Y	0.00	0.00
3.17	U	ND		ND		Y	0.00	0.00
3.23	U	ND		ND		Y	0.00	0.00
2.93	U	ND		ND		Y	0.00	0.00
3.67	U	ND		ND		Y	0.00	0.00
4.12	U	ND		ND		Y	0.00	0.00
4.26	U	ND		ND		Y	0.00	0.00
14.34	U	ND		ND		Y	0.00	0.00
3.60				=		Y	2.95	8.72
10.21	U	ND		ND		Y	0.00	0.00
3.59	U	ND		ND		Y	0.00	0.00
2.79	U	ND		ND		Y	0.00	0.00
3.67	U	ND		ND		Y	0.00	0.00
5.39	U	ND		ND		Y	0.00	0.00
7.17	U	ND		ND		Y	0.00	0.00
3.60	U	ND		ND		Y	0.00	0.00
9.87	U	ND		ND		Y	0.00	0.00
4.03	U	ND		ND		Y	0.00	0.00
4.71	U	ND		ND		Y	0.00	0.00
4.97	U	ND		ND		Y	0.00	0.00
5.55	U	ND		ND		Y	0.00	0.00
4.12	U	ND		ND		Y	0.00	0.00
4.62	U	ND		ND		Y	0.00	0.00
3.51	U	ND		ND		Y	0.00	0.00
6.50				=		Y	4.20	13.42
6.40	U	ND		ND		Y	0.00	0.00
8.51	U	ND		ND		Y	0.00	0.00
4.76	U	ND		ND		Y	0.00	0.00
4.17	U	ND		ND		Y	0.00	0.00

4.71	U	ND	ND	Y	0.00	0.00
7.34	U	ND	ND	Y	0.00	0.00
7.24	U	ND	ND	Y	0.00	0.00
5.47	U	ND	ND	Y	0.00	0.00
6.82	U	ND	ND	Y	0.00	0.00
4.17	U	ND	ND	Y	0.00	0.00
13.35	U	ND	ND	Y	0.00	0.00
4.62	U	ND	ND	Y	0.00	0.00
3.83	U	ND	ND	Y	0.00	0.00
4.62	U	ND	ND	Y	0.00	0.00
5.55	U	ND	ND	Y	0.00	0.00
4.76	U	ND	ND	Y	0.00	0.00
13.35	U	ND	ND	Y	0.00	0.00
13.17	U	ND	ND	Y	0.00	0.00
4.76	U	ND	ND	Y	0.00	0.00
8.67	U	ND	ND	Y	0.00	0.00
7.82	U	ND	ND	Y	0.00	0.00
6.90	U	ND	ND	Y	0.00	0.00
4.69	U	ND	ND	Y	0.00	0.00
6.99	U	ND	ND	Y	0.00	0.00
4.42	U	ND	ND	Y	0.00	0.00
4.42	U	ND	ND	Y	0.00	0.00
5.34	U	ND	ND	Y	0.00	0.00
4.34	U	ND	ND	Y	0.00	0.00
10.52	U	ND	ND	Y	0.00	0.00
4.42	U	ND	ND	Y	0.00	0.00
13.97	U	ND	ND	Y	0.00	0.00
14.73	U	ND	ND	Y	0.00	0.00
12.49	U	ND	ND	Y	0.00	0.00
14.01	U	ND	ND	Y	0.00	0.00
14.01	U	ND	ND	Y	0.00	0.00
32.03	U	ND	ND	Y	0.00	0.00
18.02	U	ND	ND	Y	0.00	0.00
14.22	U	ND	ND	Y	0.00	0.00
13.41	U	ND	ND	Y	0.00	0.00
18.02	U	ND	ND	Y	0.00	0.00
13.41	U	ND	ND	Y	0.00	0.00
15.65	U	ND	ND	Y	0.00	0.00
19.59	U	ND	ND	Y	0.00	0.00
13.41	U	ND	ND	Y	0.00	0.00
10.54	U	ND	ND	Y	0.00	0.00
12.24	U	ND	ND	Y	0.00	0.00
13.41	U	ND	ND	Y	0.00	0.00
17.14	U	ND	ND	Y	0.00	0.00
27.55	U	ND	ND	Y	0.00	0.00
15.11	U	ND	ND	Y	0.00	0.00
2.14	U	ND	ND	Y	0.00	0.00
15.11	U	ND	ND	Y	0.00	0.00
13.03	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**43**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.22	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) / (Avg RFn) × (Cistdi) / (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) × 1000 / (SV) × (CDF)

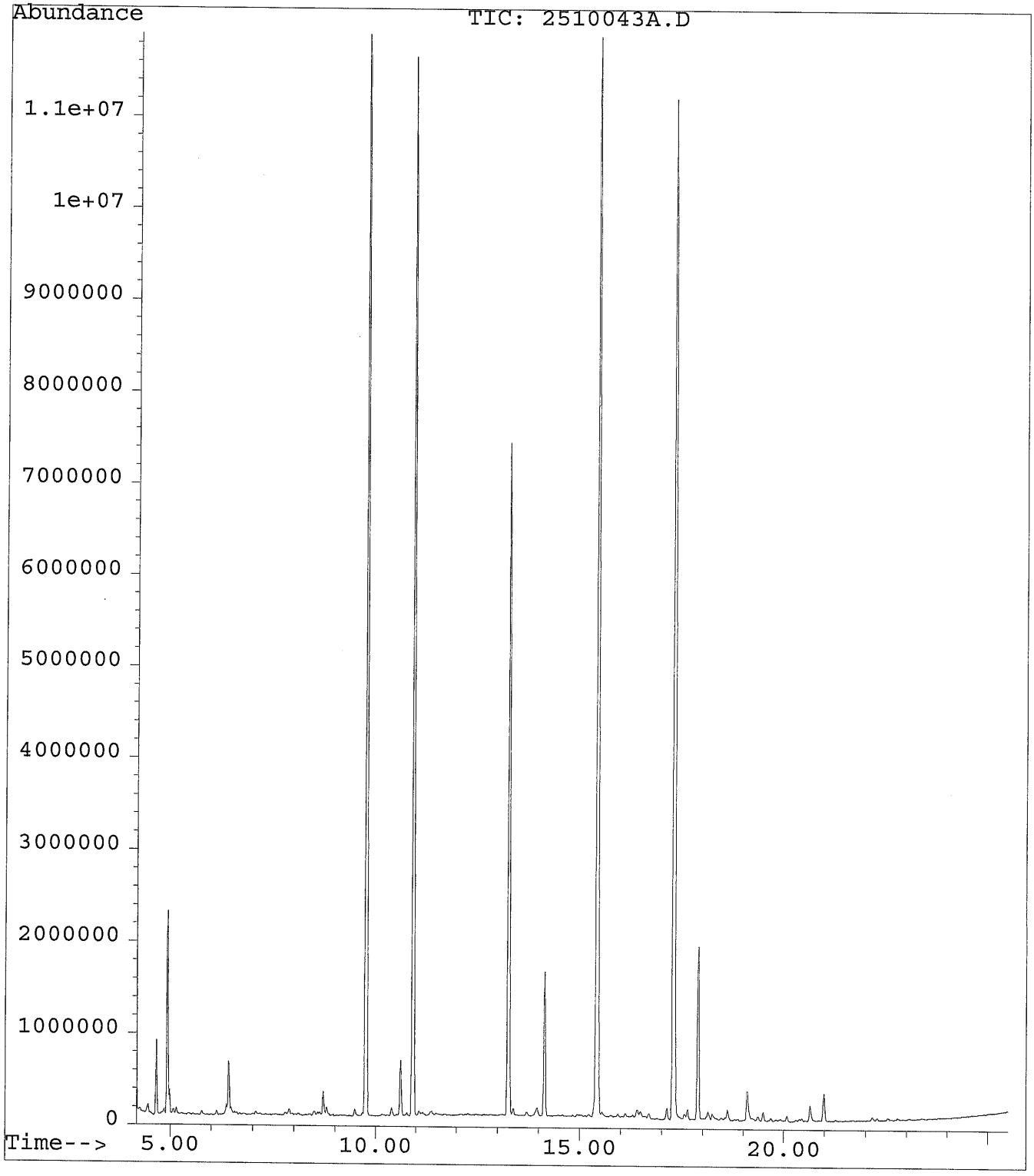
4) Amount ug/m3 = (amt(ppbv) × MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	41759	20.0	11572501	0.293	1.19	2.06
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	11572501	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	3046708	20.0	11572501	4.789	19.47	25.52
5	Chloromethane	PFB	TRG	50.5	0.391	469	20.0	11572501	0.002	0.01	0.02
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	11572501	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	11572501	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	11572501	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	11572501	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	11572501	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	0	20.0	11572501	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.130	19656	20.0	11572501	0.262	1.07	2.45
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	11572501	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	258476	20.0	11572501	1.873	7.62	18.12
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	117140	20.0	11572501	0.203	0.83	2.04
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	11572501	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	11572501	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	11572501	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	11572501	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	11572501	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	11572501	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	11572501	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	11572501	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	11572501	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	11572501	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	11572501	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	11572501	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	11572501	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	11572501	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	83957	20.0	11572501	0.726	2.95	8.72
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	11572501	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	11572501	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	11572501	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	11572501	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	11572501	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	11572501	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	11572501	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	11572501	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	11572501	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	11572501	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	11572501	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	13287483	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	13287483	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	13287483	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	13287483	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	735905	20.0	13287483	1.032	4.20	13.42
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	13287483	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	13287483	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	13287483	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	13287483	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	13287483	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	13287483	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	13287483	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	13287483	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	13287483	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	13287483	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	13287483	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	13287483	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	83250	20.0	13287483	0.084	0.34	1.28
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	13287483	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	13287483	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	13287483	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	13287483	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	13287483	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	13287483	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	13287483	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	13287483	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	13287483	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	12197909	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	12197909	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	25308	20.0	12197909	0.023	0.09	0.41
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	34730	20.0	12197909	0.036	0.15	0.63
76	Nonane	d5CB	TRG	128.3	1.278	15647	20.0	12197909	0.020	0.08	0.43
77	Styrene	d5CB	TRG	104.2	1.106	41585	20.0	12197909	0.062	0.25	1.07
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	12197909	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	0	20.0	12197909	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	12197909	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	12197909	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	12197909	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	12197909	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	12197909	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	12197909	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	0	20.0	12197909	0.000	0.00	0.00
87	Decane	d5CB	TRG	142.3	2.327	16780	20.0	12197909	0.012	0.05	0.28
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	12197909	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	15941	20.0	12197909	0.013	0.05	0.25
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	15161	20.0	12197909	0.009	0.03	0.19
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	12197909	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	12197909	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	39268	20.0	12197909	0.022	0.09	0.49
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	12197909	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	12197909	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	12197909	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	12197909	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	12197909	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	12197909	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	12197909	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	12197909	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	12197909	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	11572501	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	13287483	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	12197909	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	7926680	10.0		9.704	97.04	97

File : C:\MSCHEM\1\DATA\04025A_C\2510043A.D
Operator : SS
Acquired : 2 Apr 125 7:16 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-307
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **44**

Client ID T-308

Analytical Method TO-15

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Analytical Report
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Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 44

File Name: 2510044A.D
Description: T-308
Canister: 661
QC_Batch: 040225-MA1

Date Sampled: 03/21/25 **Time:** 09:18
Date Analyzed: 04/02/25 **Time:** 21:18
Can Dilution Factor: 1.22
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.41	1.02	2.20	0.70	1.75	3.78	
75-71-8	Dichlorodifluoromethane	0.61	1.02	ND	3.02	5.03	ND	
67-56-1	Methanol	2.03	2.44	5.05	2.66	3.20	6.62	
74-87-3	Chloromethane	0.61	1.02	ND	1.26	2.10	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.41	1.02	ND	2.85	7.12	ND	
75-01-4	Vinyl chloride	0.20	1.02	ND	0.52	2.60	ND	
106-99-0	1,3-Butadiene	0.20	1.02	ND	0.45	2.25	ND	
74-83-9	Bromomethane	0.41	1.02	ND	1.58	3.95	ND	
75-00-3	Chloroethane	0.41	1.02	ND	1.07	2.69	ND	
64-17-5	Ethanol	2.03	13.05	ND	3.84	24.65	ND	
107-02-8	Acrolein	0.41	1.22	0.79	0.93	2.80	1.81	J
75-69-4	Trichlorofluoromethane	0.41	1.02	ND	2.29	5.72	ND	
67-64-1	Acetone	2.03	2.44	6.58	4.84	5.81	15.66	
67-63-0	2-propanol (isopropylalcohol)	0.81	5.08	ND	2.00	12.51	ND	
75-65-0	t-Butyl alcohol	0.41	4.07	ND	1.23	12.34	ND	
4227-95-6	Methyl iodide	0.41	1.22	ND	2.38	7.14	ND	
75-35-4	1,1-Dichloroethene	0.20	1.02	ND	0.81	4.03	ND	
107-13-1	Acrylonitrile	0.81	1.22	ND	1.77	2.65	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.02	ND	1.56	7.80	ND	
107-05-1	Allyl chloride	0.20	4.07	ND	0.64	12.74	ND	
75-09-2	Methylene chloride	0.20	1.02	ND	0.71	3.54	ND	
75-15-0	Carbon disulfide	0.41	1.02	ND	1.27	3.17	ND	
156-60-5	trans-1,2-Dichloroethene	0.20	0.81	ND	0.81	3.23	ND	
1634-04-4	Methyl tert butyl ether	0.41	0.81	ND	1.47	2.93	ND	
107-12-0	Propionitrile	1.02	1.63	ND	2.29	3.67	ND	
75-34-3	1,1-Dichloroethane	0.20	1.02	ND	0.82	4.12	ND	
637-92-3	Ethyl tert butyl ether	0.41	1.02	ND	1.70	4.26	ND	
108-05-4	Vinyl acetate	0.20	4.07	ND	0.72	14.34	ND	
78-93-3	2-Butanone (MEK)	0.41	1.22	0.96	1.20	3.60	2.83	J
108-20-3	Diisopropyl ether	0.41	2.44	ND	1.70	10.21	ND	
110-54-3	Hexane	0.41	1.02	0.95	1.44	3.59	3.37	J
126-98-7	Methacrylonitrile	0.41	1.02	ND	1.12	2.79	ND	
141-78-6	Ethyl acetate	0.41	1.02	ND	1.47	3.67	ND	
74-97-5	Bromochloromethane	0.20	1.02	ND	1.08	5.39	ND	
96-33-3	Methyl acrylate	0.41	2.03	ND	1.43	7.17	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.22	ND	0.60	3.60	ND	
78-83-1	Isobutyl alcohol	0.81	3.25	ND	2.47	9.87	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.02	ND	0.81	4.03	ND	
594-20-7	2,2-Dichloropropane	0.20	1.02	ND	0.94	4.71	ND	
67-66-3	Chloroform	0.20	1.02	ND	1.00	4.97	ND	
71-55-6	1,1,1-Trichloroethane	0.20	1.02	ND	1.11	5.55	ND	
107-06-2	1,2-Dichloroethane	0.20	1.02	ND	0.82	4.12	ND	
563-58-6	1,1-Dichloropropene	0.20	1.02	ND	0.92	4.62	ND	
110-82-7	Cyclohexane	0.20	1.02	ND	0.70	3.51	ND	
71-43-2	Benzene	1.42	2.03	3.94	4.55	6.50	12.60	
56-23-5	Carbon tetrachloride	0.20	1.02	ND	1.28	6.40	ND	
994-05-8	t-Amyl methyl ether	0.41	2.03	ND	1.70	8.51	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.02	ND	0.95	4.76	ND	
142-82-5	n-Heptane	0.41	1.02	ND	1.67	4.17	ND	
78-87-5	1,2-Dichloropropane	0.20	1.02	ND	0.94	4.71	ND	
123-91-1	1,4 Dioxane	0.41	2.03	ND	1.47	7.34	ND	
74-95-3	Dibromomethane	0.20	1.02	ND	1.45	7.24	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.02	ND	0.55	5.47	ND	
75-27-4	Bromodichloromethane	0.20	1.02	ND	1.36	6.82	ND	
80-62-6	Methyl methacrylate	0.41	1.02	ND	1.67	4.17	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.41	3.25	ND	1.67	13.35	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.02	ND	0.92	4.62	ND	
108-88-3	Toluene	0.81	1.02	ND	3.07	3.83	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.02	ND	0.92	4.62	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.02	ND	1.11	5.55	ND	
97-63-2	Ethyl methacrylate	0.41	1.02	ND	1.90	4.76	ND	
591-78-6	2-Hexanone	0.41	3.25	ND	1.67	13.35	ND	
142-28-9	1,3-Dichloropropane	0.20	2.85	ND	0.94	13.17	ND	
111-65-9	Octane	0.41	1.02	ND	1.90	4.76	ND	
124-48-1	Dibromochloromethane	0.41	1.02	ND	3.47	8.67	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.41	1.02	ND	3.13	7.82	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.02	ND	0.69	6.90	ND	
108-90-7	Chlorobenzene	0.41	1.02	ND	1.88	4.69	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.41	1.02	ND	2.79	6.99	ND	
100-41-4	Ethylbenzene	0.41	1.02	ND	1.77	4.42	ND	
1330-20-7	m,p-Xylenes	0.41	1.02	ND	1.77	4.42	ND	
111-84-2	Nonane	0.41	1.02	ND	2.14	5.34	ND	
100-42-5	Styrene	0.61	1.02	ND	2.60	4.34	ND	
75-25-2	Bromoform	0.41	1.02	ND	4.21	10.52	ND	
95-47-6	o-Xylene	0.41	1.02	ND	1.77	4.42	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.81	2.03	ND	5.59	13.97	ND	
96-18-4	1,2,3-Trichloropropane	0.81	2.44	ND	4.91	14.73	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.81	2.44	ND	4.16	12.49	ND	
103-65-1	n-Propylbenzene	0.81	2.85	ND	4.00	14.01	ND	
98-82-8	Isopropylbenzene	0.81	2.85	ND	4.00	14.01	ND	
622-96-8	4-Ethyltoluene	0.81	6.51	ND	4.00	32.03	ND	
108-67-8	1,3,5-Trimethylbenzene	0.81	3.66	ND	4.00	18.02	ND	
124-18-5	Decane	0.81	2.44	ND	4.74	14.22	ND	
98-06-6	tert-butyl benzene	0.81	2.44	ND	4.47	13.41	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.81	3.66	ND	4.00	18.02	ND	
538-93-2	i-Butylbenzene	0.81	2.44	ND	4.47	13.41	ND	
135-98-8	sec-butylbenzene	0.81	2.85	ND	4.47	15.65	ND	
541-73-1	1,3-Dichlorobenzene	0.81	3.25	ND	4.90	19.59	ND	
99-87-6	Isopropyltoluene	0.81	2.44	ND	4.47	13.41	ND	
100-44-7	Benzyl chloride	0.81	2.03	ND	4.22	10.54	ND	
106-46-7	1,4-Dichlorobenzene	0.81	2.03	ND	4.90	12.24	ND	
104-51-8	n-Butylbenzene	0.81	2.44	ND	4.47	13.41	ND	
95-50-1	1,2-Dichlorobenzene	0.81	2.85	ND	4.90	17.14	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.22	2.85	ND	11.81	27.55	ND	
120-82-1	1,2,4-Trichlorobenzene	1.22	2.03	ND	9.06	15.11	ND	
91-20-3	Naphthalene	2.03	0.41	ND	10.68	2.14	ND	
87-61-6	1,2,3-Trichlorobenzene	1.22	2.03	ND	9.06	15.11	ND	
87-68-3	Hexachlorobutadiene	1.02	1.22	ND	10.86	13.03	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	120	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**44**		
File Name:	2510044A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/21/25**	**Time:**	**9:18**
Sample ID:	T-308	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/02/25**	**Time:**	**21:18**
Anal Date:	2 Apr 125 9:18 pm	**SF:**	**2**	**QCbatch:**	**040225-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**661**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.22**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	SS	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.540	4.41	42.00	80024
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	1.243	4.86	31.00	823060
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.193	6.32	56.00	15095
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	1.619	6.42	58.00	232543
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.039	6.45	45.00	23360
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.235	8.75	72.00	28345
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.235	8.86	57.00	104445
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.044	9.42	83.00	**18767**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.969	10.70	78.00	730179
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.090	13.50	91.00	95017
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.018	15.90	106	23640
1330-20-7	m,p-Xylenes	75	TRG	0.023	16.06	91.00	27335
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.053	16.61	104.00	43736
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.016	16.56	91.00	20507
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.000	18.31	105.00	0
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.011	18.95	105.00	16953
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**12046349**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**14039531**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**14997051**
2037-26-5	Toluene-d8	103	SURR	12.024	13.40	98.00	**10378085**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 2E+05
Laboratory Number: 44
File Name: 2510044A.D
Run Method: A1563_P.M
Can Factor: 1.22
Air Volume: 300.0 ml
Can/Tube Number: 661
Dilution Factor: 0.3660
Base Volume: 1000 ml
Unit Factor (ppbv): 1000 PPBV UG/M3

EDD SURR: PERCENT
Sam Type: SA
Instrument: MA1
DETECT: ND
Matrix: AA
Type: TRG
Diluton: 0.3660
Sig Figs: 2
MDLSF: 2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.54	2.20	3.78	2.20	3.78	3.78	3.78	0.100	0.250	0.41	0.70	1.02
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.61	3.02	1.02
Methanol	32.0	1.24	5.05	6.62	5.05	6.62	6.62	6.62	0.500	0.600	2.03	2.66	2.44
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.61	1.26	1.02
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.85	1.02
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.52	1.02
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.45	1.02
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.58	1.02
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.07	1.02
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	2.03	3.84	13.05
Acrolein	56.1	0.19	0.79	1.81	0.79	1.81	1.81	1.81	0.100	0.300	0.41	0.93	1.22
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.29	1.02
Acetone	58.1	1.62	6.58	15.66	6.58	15.66	15.66	15.66	0.500	0.600	2.03	4.84	2.44
2-propanol (isopropylalcohol)	60.1	0.04	0.16	0.39	ND	ND	0		0.200	1.250	0.81	2.00	5.08
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.41	1.23	4.07
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.41	2.38	1.22
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.81	1.02
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.81	1.77	1.22
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.56	1.02
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.64	4.07
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.71	1.02
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.27	1.02
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.20	0.81	0.81
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.41	1.47	0.81
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.02	2.29	1.63
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.82	1.02
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.70	1.02
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.72	4.07
2-Butanone (MEK)	72.1	0.24	0.96	2.83	0.96	2.83	2.83	2.83	0.100	0.300	0.41	1.20	1.22
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.41	1.70	2.44
Hexane	86.2	0.23	0.95	3.37	0.95	3.37	3.37	3.37	0.100	0.250	0.41	1.44	1.02
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.12	1.02
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.47	1.02
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.08	1.02
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.43	2.03
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.20	0.60	1.22
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.81	2.47	3.25
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.81	1.02
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.94	1.02
Chloroform	119.4	0.04	0.18	0.87	ND	ND	0		0.050	0.250	0.20	1.00	1.02
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.11	1.02
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.82	1.02
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	1.02
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.70	1.02
Benzene	78.1	0.97	3.94	12.60	3.94	12.60	12.60	12.60	0.350	0.500	1.42	4.55	2.03
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.28	1.02
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.70	2.03
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.95	1.02
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.67	1.02

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.94	1.02
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.41	1.47	2.03
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.45	1.02
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.55	1.02
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.36	1.02
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.67	1.02
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.41	1.67	3.25
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	1.02
Toluene	92.1	0.09	0.37	1.38	ND	ND	0		0.200	0.250	0.81	3.07	1.02
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	1.02
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.11	1.02
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.90	1.02
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.41	1.67	3.25
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.20	0.94	2.85
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.90	1.02
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	3.47	1.02
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	3.13	1.02
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.69	1.02
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	1.88	1.02
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.79	1.02
Ethylbenzene	106.2	0.02	0.07	0.31	ND	ND	0		0.100	0.250	0.41	1.77	1.02
m,p-Xylenes	106.2	0.02	0.09	0.41	ND	ND	0		0.100	0.250	0.41	1.77	1.02
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	2.14	1.02
Styrene	104.2	0.05	0.21	0.92	ND	ND	0		0.150	0.250	0.61	2.60	1.02
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.41	4.21	1.02
o-Xylene	106.2	0.02	0.07	0.29	ND	ND	0		0.100	0.250	0.41	1.77	1.02
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.81	5.59	2.03
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.91	2.44
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.16	2.44
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	4.00	2.85
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	4.00	2.85
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.81	4.00	6.51
1,3,5-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.81	4.00	3.66
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.74	2.44
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.47	2.44
1,2,4-Trimethylbenzene	120.2	0.01	0.04	0.22	ND	ND	0		0.200	0.900	0.81	4.00	3.66
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.47	2.44
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	4.47	2.85
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.81	4.90	3.25
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.47	2.44
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.81	4.22	2.03
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.81	4.90	2.03
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.47	2.44
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	4.90	2.85
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.22	11.81	2.85
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.22	9.06	2.03
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.03	10.68	0.41
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.22	9.06	2.03
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.02	10.86	1.22
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		12.02	120	120	120	120	120	120	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.75				=		Y	2.20	3.78
5.03	U	ND		ND		Y	0.00	0.00
3.20				=		Y	5.05	6.62
2.10	U	ND		ND		Y	0.00	0.00
7.12	U	ND		ND		Y	0.00	0.00
2.60	U	ND		ND		Y	0.00	0.00
2.25	U	ND		ND		Y	0.00	0.00
3.95	U	ND		ND		Y	0.00	0.00
2.69	U	ND		ND		Y	0.00	0.00
24.65	U	ND		ND		Y	0.00	0.00
2.80	J	J		=		Y	0.79	1.81
5.72	U	ND		ND		Y	0.00	0.00
5.81				=		Y	6.58	15.66
12.51	U	ND		ND		Y	0.00	0.00
12.34	U	ND		ND		Y	0.00	0.00
7.14	U	ND		ND		Y	0.00	0.00
4.03	U	ND		ND		Y	0.00	0.00
2.65	U	ND		ND		Y	0.00	0.00
7.80	U	ND		ND		Y	0.00	0.00
12.74	U	ND		ND		Y	0.00	0.00
3.54	U	ND		ND		Y	0.00	0.00
3.17	U	ND		ND		Y	0.00	0.00
3.23	U	ND		ND		Y	0.00	0.00
2.93	U	ND		ND		Y	0.00	0.00
3.67	U	ND		ND		Y	0.00	0.00
4.12	U	ND		ND		Y	0.00	0.00
4.26	U	ND		ND		Y	0.00	0.00
14.34	U	ND		ND		Y	0.00	0.00
3.60	J	J		=		Y	0.96	2.83
10.21	U	ND		ND		Y	0.00	0.00
3.59	J	J		=		Y	0.95	3.37
2.79	U	ND		ND		Y	0.00	0.00
3.67	U	ND		ND		Y	0.00	0.00
5.39	U	ND		ND		Y	0.00	0.00
7.17	U	ND		ND		Y	0.00	0.00
3.60	U	ND		ND		Y	0.00	0.00
9.87	U	ND		ND		Y	0.00	0.00
4.03	U	ND		ND		Y	0.00	0.00
4.71	U	ND		ND		Y	0.00	0.00
4.97	U	ND		ND		Y	0.00	0.00
5.55	U	ND		ND		Y	0.00	0.00
4.12	U	ND		ND		Y	0.00	0.00
4.62	U	ND		ND		Y	0.00	0.00
3.51	U	ND		ND		Y	0.00	0.00
6.50				=		Y	3.94	12.60
6.40	U	ND		ND		Y	0.00	0.00
8.51	U	ND		ND		Y	0.00	0.00
4.76	U	ND		ND		Y	0.00	0.00
4.17	U	ND		ND		Y	0.00	0.00

4.71	U	ND	ND	Y	0.00	0.00
7.34	U	ND	ND	Y	0.00	0.00
7.24	U	ND	ND	Y	0.00	0.00
5.47	U	ND	ND	Y	0.00	0.00
6.82	U	ND	ND	Y	0.00	0.00
4.17	U	ND	ND	Y	0.00	0.00
13.35	U	ND	ND	Y	0.00	0.00
4.62	U	ND	ND	Y	0.00	0.00
3.83	U	ND	ND	Y	0.00	0.00
4.62	U	ND	ND	Y	0.00	0.00
5.55	U	ND	ND	Y	0.00	0.00
4.76	U	ND	ND	Y	0.00	0.00
13.35	U	ND	ND	Y	0.00	0.00
13.17	U	ND	ND	Y	0.00	0.00
4.76	U	ND	ND	Y	0.00	0.00
8.67	U	ND	ND	Y	0.00	0.00
7.82	U	ND	ND	Y	0.00	0.00
6.90	U	ND	ND	Y	0.00	0.00
4.69	U	ND	ND	Y	0.00	0.00
6.99	U	ND	ND	Y	0.00	0.00
4.42	U	ND	ND	Y	0.00	0.00
4.42	U	ND	ND	Y	0.00	0.00
5.34	U	ND	ND	Y	0.00	0.00
4.34	U	ND	ND	Y	0.00	0.00
10.52	U	ND	ND	Y	0.00	0.00
4.42	U	ND	ND	Y	0.00	0.00
13.97	U	ND	ND	Y	0.00	0.00
14.73	U	ND	ND	Y	0.00	0.00
12.49	U	ND	ND	Y	0.00	0.00
14.01	U	ND	ND	Y	0.00	0.00
14.01	U	ND	ND	Y	0.00	0.00
32.03	U	ND	ND	Y	0.00	0.00
18.02	U	ND	ND	Y	0.00	0.00
14.22	U	ND	ND	Y	0.00	0.00
13.41	U	ND	ND	Y	0.00	0.00
18.02	U	ND	ND	Y	0.00	0.00
13.41	U	ND	ND	Y	0.00	0.00
15.65	U	ND	ND	Y	0.00	0.00
19.59	U	ND	ND	Y	0.00	0.00
13.41	U	ND	ND	Y	0.00	0.00
10.54	U	ND	ND	Y	0.00	0.00
12.24	U	ND	ND	Y	0.00	0.00
13.41	U	ND	ND	Y	0.00	0.00
17.14	U	ND	ND	Y	0.00	0.00
27.55	U	ND	ND	Y	0.00	0.00
15.11	U	ND	ND	Y	0.00	0.00
2.14	U	ND	ND	Y	0.00	0.00
15.11	U	ND	ND	Y	0.00	0.00
13.03	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**44**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.22	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) / (Avg RFn) × (Cistdi) / (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) × 1000 / (SV) (CDF)

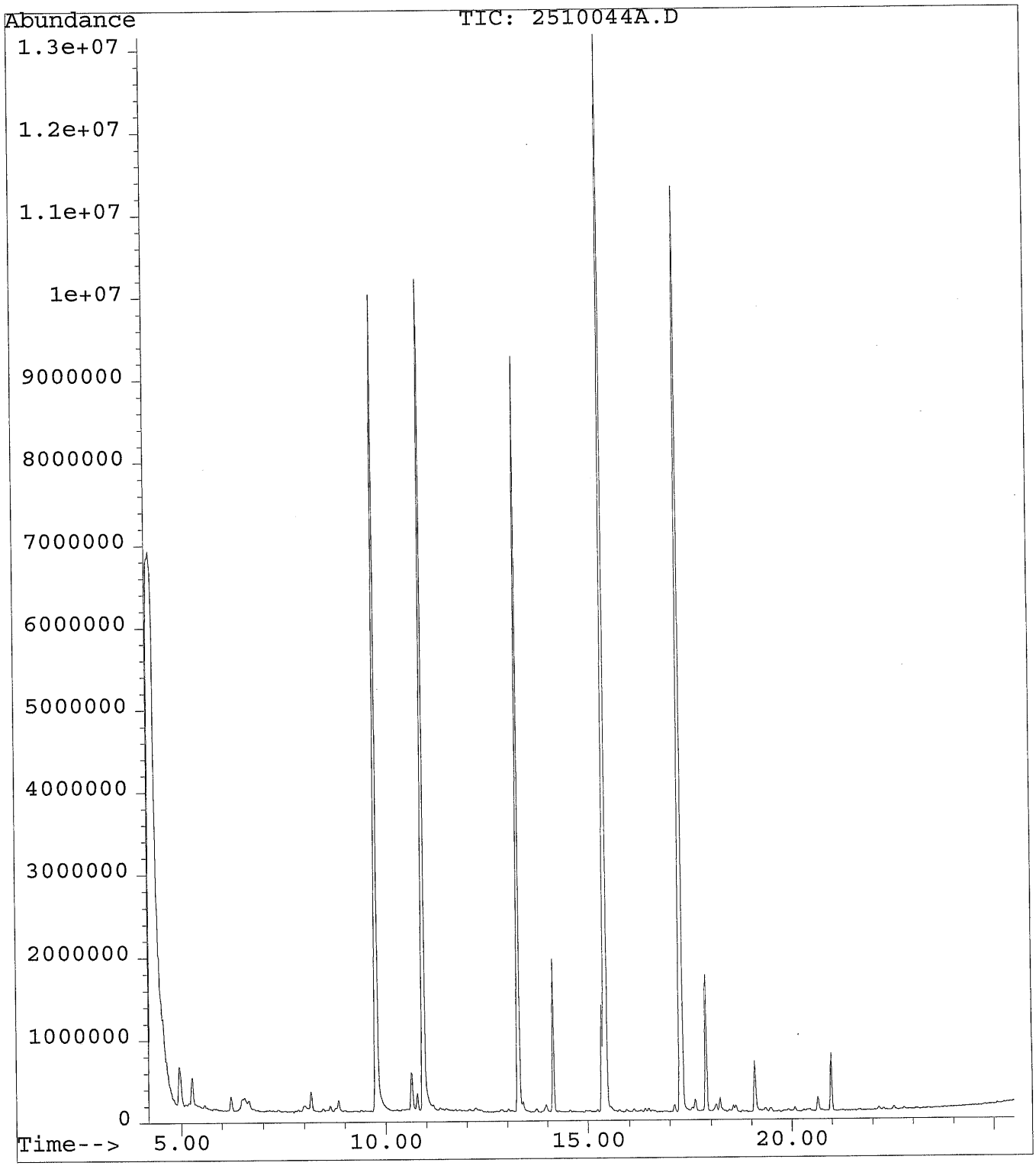
4) Amount ug/m3 = (amt(ppbv) × MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	80024	20.0	12046349	0.540	2.20	3.78
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	12046349	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	823060	20.0	12046349	1.243	5.05	6.62
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	12046349	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	12046349	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	12046349	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	12046349	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	12046349	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	12046349	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	0	20.0	12046349	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.130	15095	20.0	12046349	0.193	0.79	1.81
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	12046349	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	232543	20.0	12046349	1.619	6.58	15.66
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	23360	20.0	12046349	0.039	0.16	0.39
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	12046349	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	12046349	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	12046349	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	12046349	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	12046349	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	12046349	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	12046349	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	12046349	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	12046349	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	12046349	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	12046349	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	12046349	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	12046349	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	12046349	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	28345	20.0	12046349	0.235	0.96	2.83
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	12046349	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	104445	20.0	12046349	0.235	0.95	3.37

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	12046349	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	12046349	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	12046349	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	12046349	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	12046349	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	12046349	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	12046349	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	12046349	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	18767	20.0	12046349	0.044	0.18	0.87
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	14039531	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	14039531	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	14039531	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	14039531	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	730179	20.0	14039531	0.969	3.94	12.60
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	14039531	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	14039531	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	14039531	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	14039531	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	14039531	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	14039531	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	14039531	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	14039531	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	14039531	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	14039531	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	14039531	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	14039531	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	95017	20.0	14039531	0.090	0.37	1.38
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	14039531	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	14039531	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	14039531	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	14039531	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	14039531	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	14039531	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	14039531	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	14039531	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	14039531	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	14997051	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	14997051	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	23640	20.0	14997051	0.018	0.07	0.31
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	27335	20.0	14997051	0.023	0.09	0.41
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	14997051	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	43736	20.0	14997051	0.053	0.21	0.92
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	14997051	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	20507	20.0	14997051	0.016	0.07	0.29
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	14997051	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	14997051	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	14997051	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	14997051	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	14997051	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	14997051	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	0	20.0	14997051	0.000	0.00	0.00
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	14997051	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	14997051	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	16953	20.0	14997051	0.011	0.04	0.22
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	14997051	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	14997051	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	14997051	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	14997051	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	14997051	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	14997051	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	14997051	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	14997051	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	14997051	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	14997051	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	14997051	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	14997051	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	14997051	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	12046349	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	14039531	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	14997051	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	10378085	10.0		12.024	120.24	120

File : C:\MSCHEM\1\DATA\04025A_C\2510044A.D
Operator : SS
Acquired : 2 Apr 125 9:18 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-308
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **45**

Client ID T-309

Analytical Method TO-15

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Analytical Report
Quantitation Report
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Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 45**

File Name: 2510045A.D **Date Sampled:** 03/21/25 **Time:** 09:24
Description: T-309 **Date Analyzed:** 04/03/25 **Time:** 13:27
Canister: 579 **Can Dilution Factor:** 1.21
QC_Batch: 040325-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.40	1.01	1.42	0.70	1.74	2.44	
75-71-8	Dichlorodifluoromethane	0.61	1.01	ND	3.00	4.99	ND	
67-56-1	Methanol	2.02	2.42	6.42	2.64	3.17	8.41	
74-87-3	Chloromethane	0.61	1.01	ND	1.25	2.09	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.40	1.01	ND	2.82	7.06	ND	
75-01-4	Vinyl chloride	0.20	1.01	ND	0.52	2.58	ND	
106-99-0	1,3-Butadiene	0.20	1.01	ND	0.45	2.23	ND	
74-83-9	Bromomethane	0.40	1.01	ND	1.57	3.92	ND	
75-00-3	Chloroethane	0.40	1.01	ND	1.07	2.66	ND	
64-17-5	Ethanol	2.02	12.95	ND	3.81	24.44	ND	
107-02-8	Acrolein	0.40	1.21	1.25	0.93	2.78	2.86	
75-69-4	Trichlorofluoromethane	0.40	1.01	ND	2.27	5.67	ND	
67-64-1	Acetone	2.02	2.42	6.47	4.80	5.76	15.39	
67-63-0	2-propanol (isopropylalcohol)	0.81	5.04	ND	1.99	12.41	ND	
75-65-0	t-Butyl alcohol	0.40	4.03	ND	1.22	12.24	ND	
4227-95-6	Methyl iodide	0.40	1.21	ND	2.36	7.08	ND	
75-35-4	1,1-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
107-13-1	Acrylonitrile	0.81	1.21	ND	1.75	2.63	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.20	1.01	ND	1.55	7.74	ND	
107-05-1	Allyl chloride	0.20	4.03	ND	0.63	12.64	ND	
75-09-2	Methylene chloride	0.20	1.01	ND	0.70	3.51	ND	
75-15-0	Carbon disulfide	0.40	1.01	1.30	1.26	3.14	4.06	
156-60-5	trans-1,2-Dichloroethene	0.20	0.81	ND	0.80	3.20	ND	
1634-04-4	Methyl tert butyl ether	0.40	0.81	ND	1.46	2.91	ND	
107-12-0	Propionitrile	1.01	1.61	ND	2.28	3.64	ND	
75-34-3	1,1-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
637-92-3	Ethyl tert butyl ether	0.40	1.01	ND	1.69	4.22	ND	
108-05-4	Vinyl acetate	0.20	4.03	ND	0.71	14.22	ND	
78-93-3	2-Butanone (MEK)	0.40	1.21	0.80	1.19	3.57	2.38	J
108-20-3	Diisopropyl ether	0.40	2.42	ND	1.69	10.13	ND	
110-54-3	Hexane	0.40	1.01	ND	1.42	3.56	ND	
126-98-7	Methacrylonitrile	0.40	1.01	ND	1.11	2.77	ND	
141-78-6	Ethyl acetate	0.40	1.01	ND	1.46	3.64	ND	
74-97-5	Bromochloromethane	0.20	1.01	ND	1.07	5.34	ND	
96-33-3	Methyl acrylate	0.40	2.02	ND	1.42	7.11	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.20	1.21	ND	0.60	3.57	ND	
78-83-1	Isobutyl alcohol	0.81	3.23	ND	2.45	9.79	ND	
156-59-2	cis-1,2-Dichloroethene	0.20	1.01	ND	0.80	4.00	ND	
594-20-7	2,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
67-66-3	Chloroform	0.20	1.01	ND	0.99	4.93	ND	
71-55-6	1,1,1-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
107-06-2	1,2-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	
563-58-6	1,1-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
110-82-7	Cyclohexane	0.20	1.01	ND	0.70	3.48	ND	
71-43-2	Benzene	1.41	2.02	3.26	4.52	6.45	10.44	
56-23-5	Carbon tetrachloride	0.20	1.01	ND	1.27	6.35	ND	
994-05-8	t-Amyl methyl ether	0.40	2.02	ND	1.69	8.44	ND	
540-84-1	2,2,4-Trimethylpentane	0.20	1.01	ND	0.94	4.72	ND	
142-82-5	n-Heptane	0.40	1.01	ND	1.66	4.14	ND	
78-87-5	1,2-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	
123-91-1	1,4 Dioxane	0.40	2.02	ND	1.46	7.28	ND	
74-95-3	Dibromomethane	0.20	1.01	ND	1.44	7.18	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.01	ND	0.54	5.43	ND	
75-27-4	Bromodichloromethane	0.20	1.01	ND	1.35	6.76	ND	
80-62-6	Methyl methacrylate	0.40	1.01	ND	1.65	4.13	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.40	3.23	ND	1.66	13.24	ND	
10061-01-5	cis-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
108-88-3	Toluene	0.81	1.01	ND	3.04	3.80	ND	
10061-02-6	trans-1,3-Dichloropropene	0.20	1.01	ND	0.92	4.58	ND	
79-00-5	1,1,2-Trichloroethane	0.20	1.01	ND	1.10	5.51	ND	
97-63-2	Ethyl methacrylate	0.40	1.01	ND	1.89	4.72	ND	
591-78-6	2-Hexanone	0.40	3.23	ND	1.66	13.24	ND	
142-28-9	1,3-Dichloropropane	0.20	2.82	ND	0.93	13.07	ND	
111-65-9	Octane	0.40	1.01	ND	1.89	4.72	ND	
124-48-1	Dibromochloromethane	0.40	1.01	ND	3.44	8.60	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.40	1.01	ND	3.10	7.76	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.01	ND	0.68	6.85	ND	
108-90-7	Chlorobenzene	0.40	1.01	ND	1.86	4.65	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.40	1.01	ND	2.77	6.93	ND	
100-41-4	Ethylbenzene	0.40	1.01	ND	1.75	4.39	ND	
1330-20-7	m,p-Xylenes	0.40	1.01	ND	1.75	4.39	ND	
111-84-2	Nonane	0.40	1.01	ND	2.12	5.30	ND	
100-42-5	Styrene	0.61	1.01	ND	2.58	4.30	ND	
75-25-2	Bromoform	0.40	1.01	ND	4.17	10.44	ND	
95-47-6	o-Xylene	0.40	1.01	ND	1.75	4.39	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.81	2.02	ND	5.54	13.86	ND	
96-18-4	1,2,3-Trichloropropane	0.81	2.42	ND	4.87	14.61	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.81	2.42	ND	4.13	12.39	ND	
103-65-1	n-Propylbenzene	0.81	2.82	ND	3.97	13.90	ND	
98-82-8	Isopropylbenzene	0.81	2.82	ND	3.97	13.90	ND	
622-96-8	4-Ethyltoluene	0.81	6.45	ND	3.97	31.77	ND	
108-67-8	1,3,5-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
124-18-5	Decane	0.81	2.42	ND	4.70	14.10	ND	
98-06-6	tert-butyl benzene	0.81	2.42	ND	4.43	13.30	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.81	3.63	ND	3.97	17.87	ND	
538-93-2	i-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
135-98-8	sec-butylbenzene	0.81	2.82	ND	4.43	15.52	ND	
541-73-1	1,3-Dichlorobenzene	0.81	3.23	ND	4.86	19.43	ND	
99-87-6	Isopropyltoluene	0.81	2.42	ND	4.43	13.30	ND	
100-44-7	Benzyl chloride	0.81	2.02	ND	4.18	10.46	ND	
106-46-7	1,4-Dichlorobenzene	0.81	2.02	ND	4.86	12.14	ND	
104-51-8	n-Butylbenzene	0.81	2.42	ND	4.43	13.30	ND	
95-50-1	1,2-Dichlorobenzene	0.81	2.82	ND	4.86	17.00	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.21	2.82	ND	11.71	27.32	ND	
120-82-1	1,2,4-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
91-20-3	Naphthalene	2.02	0.40	ND	10.59	2.12	ND	
87-61-6	1,2,3-Trichlorobenzene	1.21	2.02	ND	8.99	14.98	ND	
87-68-3	Hexachlorobutadiene	1.01	1.21	ND	10.77	12.92	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	117	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**45**		
File Name:	2510045A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/21/25**	**Time:**	**9:24**
Sample ID:	T-309	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/03/25**	**Time:**	**13:27**
Anal Date:	3 Apr 125 1:27 pm	**SF:**	**2**	**QCbatch:**	**040325-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**579**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.21**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	MM	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.351	4.41	42.00	49483
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	1.591	4.86	31.00	1001219
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.432	5.72	46.00	35216
107-02-8	Acrolein	12	TRG	0.309	6.32	56.00	22915
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	1.603	6.42	58.00	218871
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.091	6.45	45.00	51709
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.323	7.61	76.00	163406
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.199	8.75	72.00	22810
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.044	9.42	83.00	**18105**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.809	10.70	78.00	582345
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.071	13.50	91.00	71778
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.023	15.90	106	28745
1330-20-7	m,p-Xylenes	75	TRG	0.039	16.06	91.00	44108
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.066	16.61	104.00	51615
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.024	16.55	91.00	28052
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.030	18.23	105.00	45610
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.035	18.31	105.00	47709
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.029	18.95	105.00	41782
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	23.54	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**11446796**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**13410229**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**14168391**
2037-26-5	Toluene-d8	103	SURR	11.737	13.40	98.00	**9676213**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**
Laboratory Number:	**45**
File Name:	2510045A.D
Run Method:	A1563_P.M
Can Factor:	1.21
Air Volume:	300.0 ml
Can/Tube Number:	579
Dilution Factor:	0.3630
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3630
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.35	1.42	2.44	1.42	2.44	2.44	2.44	0.100	0.250	0.40	0.70	1.01
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.61	3.00	1.01
Methanol	32.0	1.59	6.42	8.41	6.42	8.41	8.41	8.41	0.500	0.600	2.02	2.64	2.42
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.61	1.25	1.01
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.82	1.01
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.52	1.01
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.45	1.01
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.57	1.01
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.07	1.01
Ethanol	46.1	0.43	1.74	3.29	ND	ND	0		0.500	3.210	2.02	3.81	12.95
Acrolein	56.1	0.31	1.25	2.86	1.25	2.86	2.86	2.86	0.100	0.300	0.40	0.93	1.21
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.27	1.01
Acetone	58.1	1.60	6.47	15.39	6.47	15.39	15.39	15.39	0.500	0.600	2.02	4.80	2.42
2-propanol (isopropylalcohol)	60.1	0.09	0.37	0.90	ND	ND	0		0.200	1.250	0.81	1.99	5.04
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.40	1.22	4.03
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.40	2.36	1.21
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.80	1.01
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.81	1.75	1.21
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.55	1.01
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.63	4.03
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.70	1.01
Carbon disulfide	76.1	0.32	1.30	4.06	1.30	4.06	4.06	4.06	0.100	0.250	0.40	1.26	1.01
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.20	0.80	0.81
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.40	1.46	0.81
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.01	2.28	1.61
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.82	1.01
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.69	1.01
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.20	0.71	4.03
2-Butanone (MEK)	72.1	0.20	0.80	2.38	0.80	2.38	2.38	2.38	0.100	0.300	0.40	1.19	1.21
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.40	1.69	2.42
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.42	1.01
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.11	1.01
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.46	1.01
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.07	1.01
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.42	2.02
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.20	0.60	1.21
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.81	2.45	3.23
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.80	1.01
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.93	1.01
Chloroform	119.4	0.04	0.18	0.87	ND	ND	0		0.050	0.250	0.20	0.99	1.01
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.10	1.01
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.82	1.01
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	1.01
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.70	1.01
Benzene	78.1	0.81	3.26	10.44	3.26	10.44	10.44	10.44	0.350	0.500	1.41	4.52	2.02
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.27	1.01
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.69	2.02
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.94	1.01
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.66	1.01

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.93	1.01
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.40	1.46	2.02
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.44	1.01
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.54	1.01
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.35	1.01
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.65	1.01
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.40	1.66	3.23
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	1.01
Toluene	92.1	0.07	0.29	1.09	ND	ND	0		0.200	0.250	0.81	3.04	1.01
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	0.92	1.01
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.20	1.10	1.01
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.89	1.01
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.40	1.66	3.23
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.20	0.93	2.82
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.89	1.01
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	3.44	1.01
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	3.10	1.01
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.68	1.01
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	1.86	1.01
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.77	1.01
Ethylbenzene	106.2	0.02	0.09	0.40	ND	ND	0		0.100	0.250	0.40	1.75	1.01
m,p-Xylenes	106.2	0.04	0.16	0.69	ND	ND	0		0.100	0.250	0.40	1.75	1.01
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	2.12	1.01
Styrene	104.2	0.07	0.27	1.13	ND	ND	0		0.150	0.250	0.61	2.58	1.01
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.40	4.17	1.01
o-Xylene	106.2	0.02	0.10	0.42	ND	ND	0		0.100	0.250	0.40	1.75	1.01
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.81	5.54	2.02
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.87	2.42
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.13	2.42
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	3.97	2.82
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	3.97	2.82
4-Ethyltoluene	120.2	0.03	0.12	0.59	ND	ND	0		0.200	1.600	0.81	3.97	6.45
1,3,5-Trimethylbenzene	120.2	0.03	0.14	0.69	ND	ND	0		0.200	0.900	0.81	3.97	3.63
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.70	2.42
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.43	2.42
1,2,4-Trimethylbenzene	120.2	0.03	0.12	0.57	ND	ND	0		0.200	0.900	0.81	3.97	3.63
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.43	2.42
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	4.43	2.82
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.81	4.86	3.23
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.43	2.42
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.81	4.18	2.02
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.81	4.86	2.02
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.81	4.43	2.42
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.81	4.86	2.82
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.21	11.71	2.82
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.21	8.99	2.02
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.02	10.59	0.40
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.21	8.99	2.02
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.01	10.77	1.21
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		11.74	117	117	117	117	117	117	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.74				=		Y	1.42	2.44
4.99	U	ND		ND		Y	0.00	0.00
3.17				=		Y	6.42	8.41
2.09	U	ND		ND		Y	0.00	0.00
7.06	U	ND		ND		Y	0.00	0.00
2.58	U	ND		ND		Y	0.00	0.00
2.23	U	ND		ND		Y	0.00	0.00
3.92	U	ND		ND		Y	0.00	0.00
2.66	U	ND		ND		Y	0.00	0.00
24.44	U	ND		ND		Y	0.00	0.00
2.78				=		Y	1.25	2.86
5.67	U	ND		ND		Y	0.00	0.00
5.76				=		Y	6.47	15.39
12.41	U	ND		ND		Y	0.00	0.00
12.24	U	ND		ND		Y	0.00	0.00
7.08	U	ND		ND		Y	0.00	0.00
4.00	U	ND		ND		Y	0.00	0.00
2.63	U	ND		ND		Y	0.00	0.00
7.74	U	ND		ND		Y	0.00	0.00
12.64	U	ND		ND		Y	0.00	0.00
3.51	U	ND		ND		Y	0.00	0.00
3.14				=		Y	1.30	4.06
3.20	U	ND		ND		Y	0.00	0.00
2.91	U	ND		ND		Y	0.00	0.00
3.64	U	ND		ND		Y	0.00	0.00
4.09	U	ND		ND		Y	0.00	0.00
4.22	U	ND		ND		Y	0.00	0.00
14.22	U	ND		ND		Y	0.00	0.00
3.57	J	J		=		Y	0.80	2.38
10.13	U	ND		ND		Y	0.00	0.00
3.56	U	ND		ND		Y	0.00	0.00
2.77	U	ND		ND		Y	0.00	0.00
3.64	U	ND		ND		Y	0.00	0.00
5.34	U	ND		ND		Y	0.00	0.00
7.11	U	ND		ND		Y	0.00	0.00
3.57	U	ND		ND		Y	0.00	0.00
9.79	U	ND		ND		Y	0.00	0.00
4.00	U	ND		ND		Y	0.00	0.00
4.67	U	ND		ND		Y	0.00	0.00
4.93	U	ND		ND		Y	0.00	0.00
5.51	U	ND		ND		Y	0.00	0.00
4.09	U	ND		ND		Y	0.00	0.00
4.58	U	ND		ND		Y	0.00	0.00
3.48	U	ND		ND		Y	0.00	0.00
6.45				=		Y	3.26	10.44
6.35	U	ND		ND		Y	0.00	0.00
8.44	U	ND		ND		Y	0.00	0.00
4.72	U	ND		ND		Y	0.00	0.00
4.14	U	ND		ND		Y	0.00	0.00

4.67	U	ND	ND	Y	0.00	0.00
7.28	U	ND	ND	Y	0.00	0.00
7.18	U	ND	ND	Y	0.00	0.00
5.43	U	ND	ND	Y	0.00	0.00
6.76	U	ND	ND	Y	0.00	0.00
4.13	U	ND	ND	Y	0.00	0.00
13.24	U	ND	ND	Y	0.00	0.00
4.58	U	ND	ND	Y	0.00	0.00
3.80	U	ND	ND	Y	0.00	0.00
4.58	U	ND	ND	Y	0.00	0.00
5.51	U	ND	ND	Y	0.00	0.00
4.72	U	ND	ND	Y	0.00	0.00
13.24	U	ND	ND	Y	0.00	0.00
13.07	U	ND	ND	Y	0.00	0.00
4.72	U	ND	ND	Y	0.00	0.00
8.60	U	ND	ND	Y	0.00	0.00
7.76	U	ND	ND	Y	0.00	0.00
6.85	U	ND	ND	Y	0.00	0.00
4.65	U	ND	ND	Y	0.00	0.00
6.93	U	ND	ND	Y	0.00	0.00
4.39	U	ND	ND	Y	0.00	0.00
4.39	U	ND	ND	Y	0.00	0.00
5.30	U	ND	ND	Y	0.00	0.00
4.30	U	ND	ND	Y	0.00	0.00
10.44	U	ND	ND	Y	0.00	0.00
4.39	U	ND	ND	Y	0.00	0.00
13.86	U	ND	ND	Y	0.00	0.00
14.61	U	ND	ND	Y	0.00	0.00
12.39	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
13.90	U	ND	ND	Y	0.00	0.00
31.77	U	ND	ND	Y	0.00	0.00
17.87	U	ND	ND	Y	0.00	0.00
14.10	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
17.87	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
15.52	U	ND	ND	Y	0.00	0.00
19.43	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
10.46	U	ND	ND	Y	0.00	0.00
12.14	U	ND	ND	Y	0.00	0.00
13.30	U	ND	ND	Y	0.00	0.00
17.00	U	ND	ND	Y	0.00	0.00
27.32	U	ND	ND	Y	0.00	0.00
14.98	U	ND	ND	Y	0.00	0.00
2.12	U	ND	ND	Y	0.00	0.00
14.98	U	ND	ND	Y	0.00	0.00
12.92	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**45**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.21	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) / (Avg RFn) × (Cistdi) / (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) × 1000 / (SV) × (CDF)

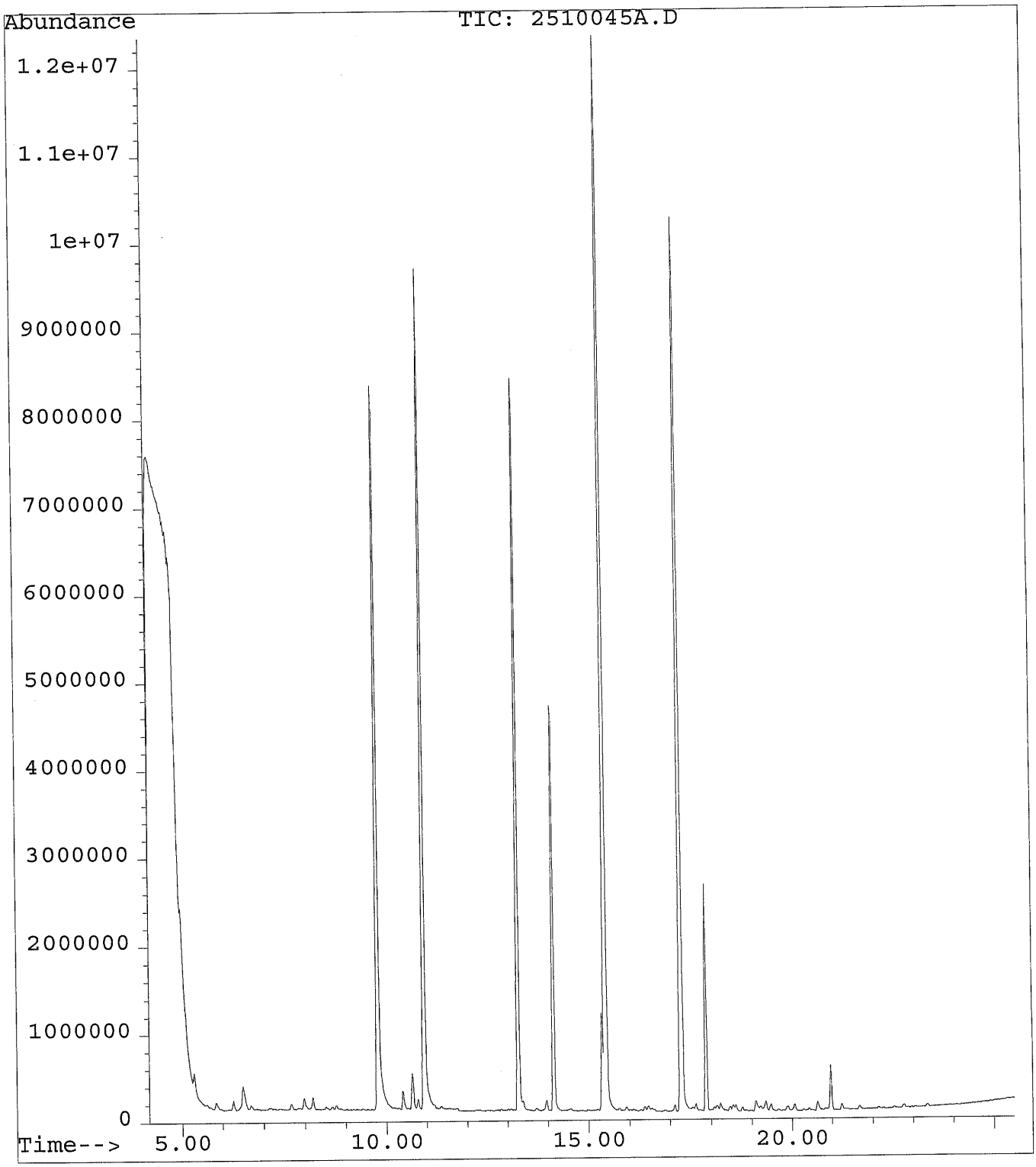
4) Amount ug/m3 = (amt(ppbv) × MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	49483	20.0	11446796	0.351	1.42	2.44
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	11446796	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	1001219	20.0	11446796	1.591	6.42	8.41
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	11446796	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	11446796	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	11446796	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	11446796	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	11446796	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	11446796	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	35216	20.0	11446796	0.432	1.74	3.29
12	Acrolein	PFB	TRG	56.1	0.130	22915	20.0	11446796	0.309	1.25	2.86
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	11446796	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	218871	20.0	11446796	1.603	6.47	15.39
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	51709	20.0	11446796	0.091	0.37	0.90
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	11446796	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	11446796	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	11446796	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	11446796	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	11446796	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	11446796	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	11446796	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	163406	20.0	11446796	0.323	1.30	4.06
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	11446796	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	11446796	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	11446796	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	11446796	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	11446796	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	11446796	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	22810	20.0	11446796	0.199	0.80	2.38
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	11446796	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	11446796	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	11446796	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	11446796	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	11446796	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	11446796	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	11446796	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	11446796	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	11446796	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	11446796	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	18105	20.0	11446796	0.044	0.18	0.87
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	13410229	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	13410229	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	13410229	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	13410229	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	582345	20.0	13410229	0.809	3.26	10.44
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	13410229	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	13410229	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	13410229	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	13410229	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	13410229	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	13410229	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	13410229	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	13410229	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	13410229	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	13410229	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	13410229	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	13410229	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	71778	20.0	13410229	0.071	0.29	1.09
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	13410229	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	13410229	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	13410229	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	13410229	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	13410229	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	13410229	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	13410229	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	13410229	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	13410229	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	14168391	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	14168391	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	28745	20.0	14168391	0.023	0.09	0.40
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	44108	20.0	14168391	0.039	0.16	0.69
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	14168391	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	51615	20.0	14168391	0.066	0.27	1.13
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	14168391	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	28052	20.0	14168391	0.024	0.10	0.42
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	14168391	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	14168391	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	14168391	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	14168391	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	14168391	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	45610	20.0	14168391	0.030	0.12	0.59
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	47709	20.0	14168391	0.035	0.14	0.69
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	14168391	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	14168391	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	41782	20.0	14168391	0.029	0.12	0.57
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	14168391	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	14168391	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	14168391	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	14168391	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	14168391	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	14168391	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	14168391	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	14168391	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	14168391	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	14168391	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	14168391	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	14168391	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	14168391	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	11446796	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	13410229	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	14168391	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9676213	10.0		11.737	117.37	117

File : C:\MSCHEM\1\DATA\04035A_C\2510045A.D
Operator : MM
Acquired : 3 Apr 125 1:27 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-309
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **46**

Client ID T-310

Analytical Method TO-15

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Analytical Report
Quantitation Report
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Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 46

File Name: 2510046A.D
Description: T-310
Canister: 771
QC_Batch: 033125-MA1

Date Sampled: 03/21/25 **Time:** 10:48
Date Analyzed: 03/31/25 **Time:** 14:34
Can Dilution Factor: 1.29
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.43	1.08	ND	0.74	1.85	ND	
75-71-8	Dichlorodifluoromethane	0.65	1.08	ND	3.19	5.32	ND	
67-56-1	Methanol	2.15	2.58	ND	2.82	3.38	ND	
74-87-3	Chloromethane	0.65	1.08	ND	1.33	2.22	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.43	1.08	ND	3.01	7.52	ND	
75-01-4	Vinyl chloride	0.22	1.08	ND	0.55	2.75	ND	
106-99-0	1,3-Butadiene	0.22	1.08	ND	0.48	2.38	ND	
74-83-9	Bromomethane	0.43	1.08	ND	1.67	4.18	ND	
75-00-3	Chloroethane	0.43	1.08	ND	1.14	2.84	ND	
64-17-5	Ethanol	2.15	13.80	ND	4.06	26.06	ND	
107-02-8	Acrolein	0.43	1.29	ND	0.99	2.96	ND	
75-69-4	Trichlorofluoromethane	0.43	1.08	ND	2.42	6.05	ND	
67-64-1	Acetone	2.15	2.58	ND	5.12	6.14	ND	
67-63-0	2-propanol (isopropylalcohol)	0.86	5.38	ND	2.12	13.23	ND	
75-65-0	t-Butyl alcohol	0.43	4.30	ND	1.30	13.05	ND	
4227-95-6	Methyl iodide	0.43	1.29	ND	2.52	7.55	ND	
75-35-4	1,1-Dichloroethene	0.22	1.08	ND	0.85	4.27	ND	
107-13-1	Acrylonitrile	0.86	1.29	ND	1.87	2.81	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.22	1.08	ND	1.65	8.25	ND	
107-05-1	Allyl chloride	0.22	4.30	ND	0.67	13.47	ND	
75-09-2	Methylene chloride	0.22	1.08	ND	0.75	3.74	ND	
75-15-0	Carbon disulfide	0.43	1.08	ND	1.34	3.35	ND	
156-60-5	trans-1,2-Dichloroethene	0.22	0.86	ND	0.85	3.41	ND	
1634-04-4	Methyl tert butyl ether	0.43	0.86	ND	1.55	3.10	ND	
107-12-0	Propionitrile	1.08	1.72	ND	2.43	3.88	ND	
75-34-3	1,1-Dichloroethane	0.21	1.08	ND	0.87	4.36	ND	
637-92-3	Ethyl tert butyl ether	0.43	1.08	ND	1.80	4.50	ND	
108-05-4	Vinyl acetate	0.22	4.30	ND	0.76	15.16	ND	
78-93-3	2-Butanone (MEK)	0.43	1.29	ND	1.27	3.81	ND	
108-20-3	Diisopropyl ether	0.43	2.58	ND	1.80	10.80	ND	
110-54-3	Hexane	0.43	1.08	ND	1.52	3.80	ND	
126-98-7	Methacrylonitrile	0.43	1.08	ND	1.18	2.95	ND	
141-78-6	Ethyl acetate	0.43	1.08	ND	1.55	3.88	ND	
74-97-5	Bromochloromethane	0.22	1.08	ND	1.14	5.70	ND	
96-33-3	Methyl acrylate	0.43	2.15	ND	1.52	7.58	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.22	1.29	ND	0.64	3.81	ND	
78-83-1	Isobutyl alcohol	0.86	3.44	ND	2.61	10.44	ND	
156-59-2	cis-1,2-Dichloroethene	0.22	1.08	ND	0.85	4.27	ND	
594-20-7	2,2-Dichloropropane	0.22	1.08	ND	1.00	4.98	ND	
67-66-3	Chloroform	0.22	1.08	ND	1.05	5.26	ND	
71-55-6	1,1,1-Trichloroethane	0.22	1.08	ND	1.17	5.87	ND	
107-06-2	1,2-Dichloroethane	0.22	1.08	ND	0.87	4.36	ND	
563-58-6	1,1-Dichloropropene	0.22	1.08	ND	0.98	4.89	ND	
110-82-7	Cyclohexane	0.22	1.08	ND	0.74	3.71	ND	
71-43-2	Benzene	1.51	2.15	ND	4.81	6.88	ND	
56-23-5	Carbon tetrachloride	0.22	1.08	ND	1.35	6.77	ND	
994-05-8	t-Amyl methyl ether	0.43	2.15	ND	1.80	9.00	ND	
540-84-1	2,2,4-Trimethylpentane	0.22	1.08	ND	1.01	5.03	ND	
142-82-5	n-Heptane	0.43	1.08	ND	1.76	4.41	ND	
78-87-5	1,2-Dichloropropane	0.22	1.08	ND	1.00	4.98	ND	
123-91-1	1,4 Dioxane	0.43	2.15	ND	1.55	7.76	ND	
74-95-3	Dibromomethane	0.22	1.08	ND	1.53	7.65	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.08	ND	0.58	5.79	ND	
75-27-4	Bromodichloromethane	0.22	1.08	ND	1.44	7.21	ND	
80-62-6	Methyl methacrylate	0.43	1.08	ND	1.76	4.41	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.43	3.44	ND	1.76	14.12	ND	
10061-01-5	cis-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.89	ND	
108-88-3	Toluene	0.86	1.08	ND	3.24	4.05	ND	
10061-02-6	trans-1,3-Dichloropropene	0.22	1.08	ND	0.98	4.89	ND	
79-00-5	1,1,2-Trichloroethane	0.22	1.08	ND	1.17	5.87	ND	
97-63-2	Ethyl methacrylate	0.43	1.08	ND	2.01	5.03	ND	
591-78-6	2-Hexanone	0.43	3.44	ND	1.76	14.12	ND	
142-28-9	1,3-Dichloropropane	0.22	3.01	ND	1.00	13.93	ND	
111-65-9	Octane	0.43	1.08	ND	2.01	5.03	ND	
124-48-1	Dibromochloromethane	0.43	1.08	ND	3.67	9.17	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.43	1.08	ND	3.31	8.27	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.08	ND	0.73	7.30	ND	
108-90-7	Chlorobenzene	0.43	1.08	ND	1.98	4.96	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.43	1.08	ND	2.96	7.39	ND	
100-41-4	Ethylbenzene	0.43	1.08	ND	1.87	4.68	ND	
1330-20-7	m,p-Xylenes	0.43	1.08	ND	1.87	4.68	ND	
111-84-2	Nonane	0.43	1.08	ND	2.26	5.65	ND	
100-42-5	Styrene	0.65	1.08	ND	2.75	4.59	ND	
75-25-2	Bromoform	0.43	1.08	ND	4.45	11.13	ND	
95-47-6	o-Xylene	0.43	1.08	ND	1.87	4.68	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.86	2.15	ND	5.91	14.78	ND	
96-18-4	1,2,3-Trichloropropane	0.86	2.58	ND	5.19	15.57	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.86	2.58	ND	4.40	13.21	ND	
103-65-1	n-Propylbenzene	0.86	3.01	ND	4.23	14.82	ND	
98-82-8	Isopropylbenzene	0.86	3.01	ND	4.23	14.82	ND	
622-96-8	4-Ethyltoluene	0.86	6.88	ND	4.23	33.87	ND	
108-67-8	1,3,5-Trimethylbenzene	0.86	3.87	ND	4.23	19.05	ND	
124-18-5	Decane	0.86	2.58	ND	5.01	15.04	ND	
98-06-6	tert-butyl benzene	0.86	2.58	ND	4.73	14.18	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.86	3.87	ND	4.23	19.05	ND	
538-93-2	i-Butylbenzene	0.86	2.58	ND	4.73	14.18	ND	
135-98-8	sec-butylbenzene	0.86	3.01	ND	4.73	16.54	ND	
541-73-1	1,3-Dichlorobenzene	0.86	3.44	ND	5.18	20.71	ND	
99-87-6	Isopropyltoluene	0.86	2.58	ND	4.73	14.18	ND	
100-44-7	Benzyl chloride	0.86	2.15	ND	4.46	11.15	ND	
106-46-7	1,4-Dichlorobenzene	0.86	2.15	ND	5.18	12.94	ND	
104-51-8	n-Butylbenzene	0.86	2.58	ND	4.73	14.18	ND	
95-50-1	1,2-Dichlorobenzene	0.86	3.01	ND	5.18	18.12	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.29	3.01	ND	12.48	29.13	ND	
120-82-1	1,2,4-Trichlorobenzene	1.29	2.15	ND	9.58	15.97	ND	
91-20-3	Naphthalene	2.15	0.43	ND	11.29	2.26	ND	
87-61-6	1,2,3-Trichlorobenzene	1.29	2.15	ND	9.58	15.97	ND	
87-68-3	Hexachlorobutadiene	1.08	1.29	ND	11.48	13.78	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	101	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	225100		
				EAS ID:	46		
File Name:	2510046A.D	Method:	TO-15	Date Sampled:	03/21/25	Time:	10:48
Sample ID:	T-310	Matrix:	AA	Date Received:	03/21/25	Time:	14:30
MiscInfo-Vol:	SCHMIDT	Detect:	ND	Date Analyzed:	03/31/25	Time:	14:34
Anal Date:	31 Mar 125 2:34 pm	SF:	2	QCbatch:	033125-MA1		
Quant Method:	A15CS2_P.M	MDLSF:	2	Volume:	300.0		
Run Method:	A1563_P.M	Type:	TRG	Can (Vial) No:	771		
Cal Update:	Fri Mar 28 11:07:25 2025	Instrument:	MA1	Can Factor:	1.29		
Instrument:	5970 - MS	EDD SURR:	PERCENT	SamType:	SA		
Analyst:	DA	UnitDil:	1000	PPBV			
Template:	A15CHIQ.MA1	MDL FAC	1	UG/M3			
Temp 24.5		EFLAG:	1.3				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.000	4.41	42.00	0
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.000	4.86	31.00	0
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	0.000	6.42	58.00	0
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.000	10.70	78.00	0
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.000	13.50	91.00	0
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.000	15.90	106	0
1330-20-7	m,p-Xylenes	75	TRG	0.000	16.06	91.00	0
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.000	16.61	104.00	0
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	0.00	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.000	18.31	105.00	0
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.000	18.95	105.00	0
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**12554276**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**15560981**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**17087659**
2037-26-5	Toluene-d8	103	SURR	10.083	13.40	98.00	**9646015**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 2E+05
Laboratory Number: 46
File Name: 2510046A.D
Run Method: A1563_P.M
Can Factor: 1.29
Air Volume: 300.0 ml
Can/Tube Number: 771
Dilution Factor: 0.3870
Base Volume: 1000 ml
Unit Factor (ppbv): 1000 PPBV UG/M3

EDD SURR: PERCENT
Sam Type: SA
Instrument: MA1
DETECT: ND
Matrix: AA
Type: TRG
Diluton: 0.3870
Sig Figs: 2
MDLSF: 2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	0.74	1.08
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.65	3.19	1.08
Methanol	32.0	0.00	0.00	0.00	ND	ND	0		0.500	0.600	2.15	2.82	2.58
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.65	1.33	1.08
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	3.01	1.08
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.55	1.08
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.48	1.08
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.67	1.08
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.14	1.08
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	2.15	4.06	13.80
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.43	0.99	1.29
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.42	1.08
Acetone	58.1	0.00	0.00	0.00	ND	ND	0		0.500	0.600	2.15	5.12	2.58
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		0.200	1.250	0.86	2.12	5.38
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.43	1.30	4.30
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.43	2.52	1.29
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.85	1.08
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.86	1.87	1.29
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.65	1.08
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.22	0.67	4.30
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.75	1.08
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.34	1.08
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.22	0.85	0.86
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.43	1.55	0.86
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.08	2.43	1.72
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.87	1.08
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.80	1.08
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.22	0.76	4.30
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.43	1.27	1.29
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.43	1.80	2.58
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.52	1.08
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.18	1.08
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.55	1.08
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.14	1.08
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.43	1.52	2.15
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.22	0.64	1.29
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.86	2.61	3.44
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.85	1.08
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.00	1.08
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.05	1.08
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.17	1.08
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.87	1.08
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.98	1.08
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.74	1.08
Benzene	78.1	0.00	0.00	0.00	ND	ND	0		0.350	0.500	1.51	4.81	2.15
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.35	1.08
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.43	1.80	2.15
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.01	1.08
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.76	1.08

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.00	1.08
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.43	1.55	2.15
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.53	1.08
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.58	1.08
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.44	1.08
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.76	1.08
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.43	1.76	3.44
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.98	1.08
Toluene	92.1	0.00	0.00	0.00	ND	ND	0		0.200	0.250	0.86	3.24	1.08
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.98	1.08
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.17	1.08
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.01	1.08
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.43	1.76	3.44
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.22	1.00	3.01
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.01	1.08
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	3.67	1.08
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	3.31	1.08
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.73	1.08
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.98	1.08
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.96	1.08
Ethylbenzene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.87	1.08
m,p-Xylenes	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.87	1.08
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.26	1.08
Styrene	104.2	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.65	2.75	1.08
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	4.45	1.08
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.87	1.08
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.86	5.91	2.15
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	5.19	2.58
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	4.40	2.58
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.86	4.23	3.01
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.86	4.23	3.01
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.86	4.23	6.88
1,3,5-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.86	4.23	3.87
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	5.01	2.58
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	4.73	2.58
1,2,4-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.86	4.23	3.87
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	4.73	2.58
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.86	4.73	3.01
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.86	5.18	3.44
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	4.73	2.58
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.86	4.46	2.15
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.86	5.18	2.15
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.86	4.73	2.58
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.86	5.18	3.01
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.29	12.48	3.01
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.29	9.58	2.15
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.15	11.29	0.43
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.29	9.58	2.15
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.08	11.48	1.29
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		10.08	101	101	101	101	101	101	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.85	U	ND		ND		Y	0.00	0.00
5.32	U	ND		ND		Y	0.00	0.00
3.38	U	ND		ND		Y	0.00	0.00
2.22	U	ND		ND		Y	0.00	0.00
7.52	U	ND		ND		Y	0.00	0.00
2.75	U	ND		ND		Y	0.00	0.00
2.38	U	ND		ND		Y	0.00	0.00
4.18	U	ND		ND		Y	0.00	0.00
2.84	U	ND		ND		Y	0.00	0.00
26.06	U	ND		ND		Y	0.00	0.00
2.96	U	ND		ND		Y	0.00	0.00
6.05	U	ND		ND		Y	0.00	0.00
6.14	U	ND		ND		Y	0.00	0.00
13.23	U	ND		ND		Y	0.00	0.00
13.05	U	ND		ND		Y	0.00	0.00
7.55	U	ND		ND		Y	0.00	0.00
4.27	U	ND		ND		Y	0.00	0.00
2.81	U	ND		ND		Y	0.00	0.00
8.25	U	ND		ND		Y	0.00	0.00
13.47	U	ND		ND		Y	0.00	0.00
3.74	U	ND		ND		Y	0.00	0.00
3.35	U	ND		ND		Y	0.00	0.00
3.41	U	ND		ND		Y	0.00	0.00
3.10	U	ND		ND		Y	0.00	0.00
3.88	U	ND		ND		Y	0.00	0.00
4.36	U	ND		ND		Y	0.00	0.00
4.50	U	ND		ND		Y	0.00	0.00
15.16	U	ND		ND		Y	0.00	0.00
3.81	U	ND		ND		Y	0.00	0.00
10.80	U	ND		ND		Y	0.00	0.00
3.80	U	ND		ND		Y	0.00	0.00
2.95	U	ND		ND		Y	0.00	0.00
3.88	U	ND		ND		Y	0.00	0.00
5.70	U	ND		ND		Y	0.00	0.00
7.58	U	ND		ND		Y	0.00	0.00
3.81	U	ND		ND		Y	0.00	0.00
10.44	U	ND		ND		Y	0.00	0.00
4.27	U	ND		ND		Y	0.00	0.00
4.98	U	ND		ND		Y	0.00	0.00
5.26	U	ND		ND		Y	0.00	0.00
5.87	U	ND		ND		Y	0.00	0.00
4.36	U	ND		ND		Y	0.00	0.00
4.89	U	ND		ND		Y	0.00	0.00
3.71	U	ND		ND		Y	0.00	0.00
6.88	U	ND		ND		Y	0.00	0.00
6.77	U	ND		ND		Y	0.00	0.00
9.00	U	ND		ND		Y	0.00	0.00
5.03	U	ND		ND		Y	0.00	0.00
4.41	U	ND		ND		Y	0.00	0.00

4.98	U	ND	ND	Y	0.00	0.00
7.76	U	ND	ND	Y	0.00	0.00
7.65	U	ND	ND	Y	0.00	0.00
5.79	U	ND	ND	Y	0.00	0.00
7.21	U	ND	ND	Y	0.00	0.00
4.41	U	ND	ND	Y	0.00	0.00
14.12	U	ND	ND	Y	0.00	0.00
4.89	U	ND	ND	Y	0.00	0.00
4.05	U	ND	ND	Y	0.00	0.00
4.89	U	ND	ND	Y	0.00	0.00
5.87	U	ND	ND	Y	0.00	0.00
5.03	U	ND	ND	Y	0.00	0.00
14.12	U	ND	ND	Y	0.00	0.00
13.93	U	ND	ND	Y	0.00	0.00
5.03	U	ND	ND	Y	0.00	0.00
9.17	U	ND	ND	Y	0.00	0.00
8.27	U	ND	ND	Y	0.00	0.00
7.30	U	ND	ND	Y	0.00	0.00
4.96	U	ND	ND	Y	0.00	0.00
7.39	U	ND	ND	Y	0.00	0.00
4.68	U	ND	ND	Y	0.00	0.00
4.68	U	ND	ND	Y	0.00	0.00
5.65	U	ND	ND	Y	0.00	0.00
4.59	U	ND	ND	Y	0.00	0.00
11.13	U	ND	ND	Y	0.00	0.00
4.68	U	ND	ND	Y	0.00	0.00
14.78	U	ND	ND	Y	0.00	0.00
15.57	U	ND	ND	Y	0.00	0.00
13.21	U	ND	ND	Y	0.00	0.00
14.82	U	ND	ND	Y	0.00	0.00
14.82	U	ND	ND	Y	0.00	0.00
33.87	U	ND	ND	Y	0.00	0.00
19.05	U	ND	ND	Y	0.00	0.00
15.04	U	ND	ND	Y	0.00	0.00
14.18	U	ND	ND	Y	0.00	0.00
19.05	U	ND	ND	Y	0.00	0.00
14.18	U	ND	ND	Y	0.00	0.00
16.54	U	ND	ND	Y	0.00	0.00
20.71	U	ND	ND	Y	0.00	0.00
14.18	U	ND	ND	Y	0.00	0.00
11.15	U	ND	ND	Y	0.00	0.00
12.94	U	ND	ND	Y	0.00	0.00
14.18	U	ND	ND	Y	0.00	0.00
18.12	U	ND	ND	Y	0.00	0.00
29.13	U	ND	ND	Y	0.00	0.00
15.97	U	ND	ND	Y	0.00	0.00
2.26	U	ND	ND	Y	0.00	0.00
15.97	U	ND	ND	Y	0.00	0.00
13.78	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**46**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.29
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = $\frac{\text{Sum}\ \frac{(\text{Astdni})}{(\text{Cstdni})}\ \frac{(\text{Cistdi})}{(\text{Aistdi})}}{i}$ Note: 1

2) Raw Amt = $\frac{(\text{Ansamp})}{(\text{Avg RFn})}\ \frac{(\text{Cistdi})}{(\text{Aistdi})}$ **= Cn**

3) Amount ppbv = $\frac{(\text{Raw Amt})\ 1000}{(\text{SV})}\ (\text{CDF})$

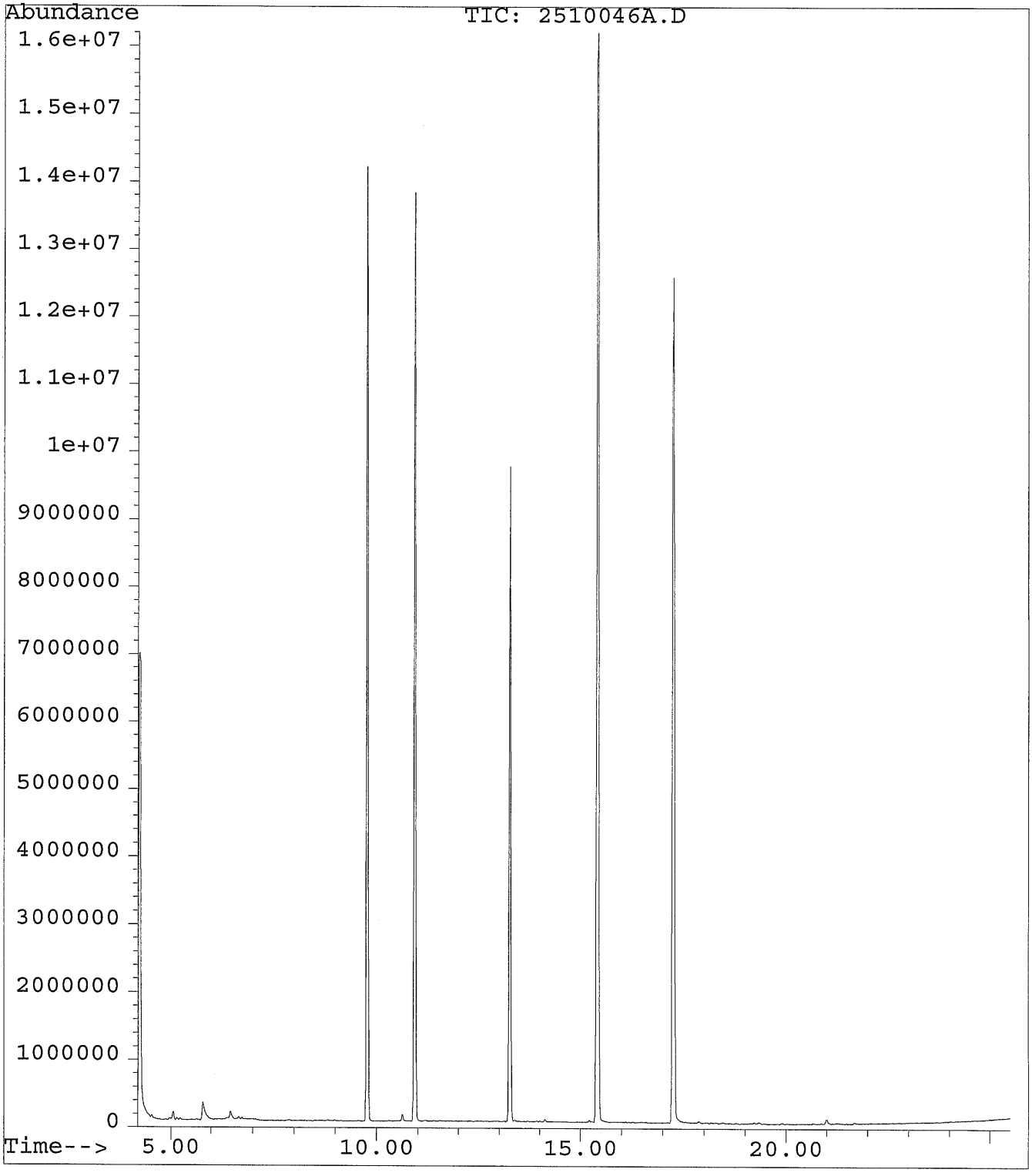
4) Amount ug/m3 = $\frac{(\text{amt(ppbv)})\ \text{MW}}{24.42}$

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	0	20.0	12554276	0.000	0.00	0.00
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	12554276	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	0	20.0	12554276	0.000	0.00	0.00
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	12554276	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	12554276	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	12554276	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	12554276	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	12554276	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	12554276	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	0	20.0	12554276	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.130	0	20.0	12554276	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	12554276	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	0	20.0	12554276	0.000	0.00	0.00
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	0	20.0	12554276	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	12554276	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	12554276	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	12554276	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	12554276	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	12554276	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	12554276	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	12554276	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	12554276	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	12554276	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	12554276	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	12554276	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	12554276	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	12554276	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	12554276	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	0	20.0	12554276	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	12554276	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	12554276	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	12554276	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	12554276	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	12554276	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	12554276	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	12554276	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	12554276	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	12554276	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	12554276	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	12554276	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	15560981	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	15560981	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	15560981	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	15560981	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	0	20.0	15560981	0.000	0.00	0.00
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	15560981	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	15560981	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	15560981	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	15560981	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	15560981	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	15560981	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	15560981	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	15560981	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	15560981	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	15560981	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	15560981	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	15560981	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	0	20.0	15560981	0.000	0.00	0.00
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	15560981	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	15560981	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	15560981	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	15560981	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	15560981	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	15560981	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	15560981	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	15560981	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	0	20.0	15560981	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	17087659	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	17087659	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	0	20.0	17087659	0.000	0.00	0.00
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	0	20.0	17087659	0.000	0.00	0.00
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	17087659	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	0	20.0	17087659	0.000	0.00	0.00
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	17087659	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	0	20.0	17087659	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	17087659	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	17087659	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	17087659	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	17087659	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	17087659	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	17087659	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	0	20.0	17087659	0.000	0.00	0.00
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	17087659	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	17087659	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	0	20.0	17087659	0.000	0.00	0.00
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	17087659	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	17087659	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	17087659	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	17087659	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	17087659	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	17087659	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	17087659	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	17087659	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	17087659	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	17087659	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	17087659	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	17087659	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	17087659	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	12554276	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	15560981	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	17087659	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9646015	10.0		10.083	100.83	101

File : C:\MSCHEM\1\DATA\03315A_C\2510046A.D
Operator : DA
Acquired : 31 Mar 125 2:34 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-310
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **47**

Client ID T-311

Analytical Method TO-15

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Analytical Report
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Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 47**

File Name: 2510047A.D
Description: T-311
Canister: 605
QC_Batch: 040325-MA1

Date Sampled: 03/21/25 **Time:** 10:35
Date Analyzed: 04/03/25 **Time:** 14:03
Can Dilution Factor: 1.28
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.43	1.07	0.96	0.74	1.84	1.66	J
75-71-8	Dichlorodifluoromethane	0.64	1.07	ND	3.17	5.28	ND	
67-56-1	Methanol	2.13	2.56	9.11	2.80	3.36	11.94	
74-87-3	Chloromethane	0.64	1.07	ND	1.32	2.21	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.43	1.07	ND	2.99	7.47	ND	
75-01-4	Vinyl chloride	0.21	1.07	ND	0.55	2.73	ND	
106-99-0	1,3-Butadiene	0.21	1.07	ND	0.48	2.36	ND	
74-83-9	Bromomethane	0.43	1.07	ND	1.66	4.15	ND	
75-00-3	Chloroethane	0.43	1.07	ND	1.13	2.82	ND	
64-17-5	Ethanol	2.13	13.70	ND	4.03	25.86	ND	
107-02-8	Acrolein	0.43	1.28	1.77	0.98	2.94	4.06	
75-69-4	Trichlorofluoromethane	0.43	1.07	ND	2.40	6.00	ND	
67-64-1	Acetone	2.13	2.56	9.36	5.08	6.09	22.27	
67-63-0	2-propanol (isopropylalcohol)	0.85	5.33	ND	2.10	13.13	ND	
75-65-0	t-Butyl alcohol	0.43	4.27	ND	1.29	12.95	ND	
4227-95-6	Methyl iodide	0.43	1.28	ND	2.50	7.49	ND	
75-35-4	1,1-Dichloroethene	0.21	1.07	ND	0.85	4.23	ND	
107-13-1	Acrylonitrile	0.85	1.28	ND	1.86	2.78	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.07	ND	1.64	8.19	ND	
107-05-1	Allyl chloride	0.21	4.27	ND	0.67	13.37	ND	
75-09-2	Methylene chloride	0.21	1.07	ND	0.74	3.71	ND	
75-15-0	Carbon disulfide	0.43	1.07	ND	1.33	3.32	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.85	ND	0.85	3.39	ND	
1634-04-4	Methyl tert butyl ether	0.43	0.85	ND	1.54	3.08	ND	
107-12-0	Propionitrile	1.07	1.71	ND	2.41	3.85	ND	
75-34-3	1,1-Dichloroethane	0.21	1.07	ND	0.86	4.32	ND	
637-92-3	Ethyl tert butyl ether	0.43	1.07	ND	1.79	4.46	ND	
108-05-4	Vinyl acetate	0.21	4.27	ND	0.75	15.05	ND	
78-93-3	2-Butanone (MEK)	0.43	1.28	0.81	1.26	3.78	2.40	J
108-20-3	Diisopropyl ether	0.43	2.56	ND	1.79	10.72	ND	
110-54-3	Hexane	0.43	1.07	ND	1.51	3.77	ND	
126-98-7	Methacrylonitrile	0.43	1.07	ND	1.17	2.93	ND	
141-78-6	Ethyl acetate	0.43	1.07	ND	1.54	3.85	ND	
74-97-5	Bromochloromethane	0.21	1.07	ND	1.13	5.65	ND	
96-33-3	Methyl acrylate	0.43	2.13	ND	1.50	7.52	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.28	ND	0.63	3.78	ND	
78-83-1	Isobutyl alcohol	0.85	3.41	ND	2.59	10.36	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.07	ND	0.85	4.23	ND	
594-20-7	2,2-Dichloropropane	0.21	1.07	ND	0.99	4.94	ND	
67-66-3	Chloroform	0.21	1.07	ND	1.05	5.22	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.07	ND	1.17	5.83	ND	
107-06-2	1,2-Dichloroethane	0.21	1.07	ND	0.86	4.32	ND	
563-58-6	1,1-Dichloropropene	0.21	1.07	ND	0.97	4.85	ND	
110-82-7	Cyclohexane	0.21	1.07	ND	0.74	3.68	ND	
71-43-2	Benzene	1.49	2.13	3.91	4.78	6.82	12.51	
56-23-5	Carbon tetrachloride	0.21	1.07	ND	1.34	6.72	ND	
994-05-8	t-Amyl methyl ether	0.43	2.13	ND	1.79	8.93	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.07	ND	1.00	4.99	ND	
142-82-5	n-Heptane	0.43	1.07	ND	1.75	4.38	ND	
78-87-5	1,2-Dichloropropane	0.21	1.07	ND	0.99	4.94	ND	
123-91-1	1,4 Dioxane	0.43	2.13	ND	1.54	7.70	ND	
74-95-3	Dibromomethane	0.21	1.07	ND	1.52	7.59	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.07	ND	0.57	5.74	ND	
75-27-4	Bromodichloromethane	0.21	1.07	ND	1.43	7.16	ND	
80-62-6	Methyl methacrylate	0.43	1.07	ND	1.75	4.37	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.43	3.41	ND	1.75	14.01	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.07	ND	0.97	4.85	ND	
108-88-3	Toluene	0.85	1.07	ND	3.22	4.02	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.07	ND	0.97	4.85	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.07	ND	1.17	5.83	ND	
97-63-2	Ethyl methacrylate	0.43	1.07	ND	2.00	4.99	ND	
591-78-6	2-Hexanone	0.43	3.41	ND	1.75	14.01	ND	
142-28-9	1,3-Dichloropropane	0.21	2.99	ND	0.99	13.82	ND	
111-65-9	Octane	0.43	1.07	ND	2.00	4.99	ND	
124-48-1	Dibromochloromethane	0.43	1.07	ND	3.64	9.10	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.43	1.07	ND	3.28	8.21	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.07	0.18	0.72	7.24	1.25	J
108-90-7	Chlorobenzene	0.43	1.07	ND	1.97	4.92	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.43	1.07	ND	2.93	7.33	ND	
100-41-4	Ethylbenzene	0.43	1.07	ND	1.86	4.64	ND	
1330-20-7	m,p-Xylenes	0.43	1.07	ND	1.86	4.64	ND	
111-84-2	Nonane	0.43	1.07	ND	2.24	5.60	ND	
100-42-5	Styrene	0.64	1.07	ND	2.73	4.55	ND	
75-25-2	Bromoform	0.43	1.07	ND	4.42	11.04	ND	
95-47-6	o-Xylene	0.43	1.07	ND	1.86	4.64	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.85	2.13	ND	5.86	14.66	ND	
96-18-4	1,2,3-Trichloropropane	0.85	2.56	ND	5.15	15.45	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.85	2.56	ND	4.37	13.11	ND	
103-65-1	n-Propylbenzene	0.85	2.99	ND	4.20	14.70	ND	
98-82-8	Isopropylbenzene	0.85	2.99	ND	4.20	14.70	ND	
622-96-8	4-Ethyltoluene	0.85	6.83	ND	4.20	33.61	ND	
108-67-8	1,3,5-Trimethylbenzene	0.85	3.84	ND	4.20	18.90	ND	
124-18-5	Decane	0.85	2.56	ND	4.97	14.92	ND	
98-06-6	tert-butyl benzene	0.85	2.56	ND	4.69	14.07	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.85	3.84	ND	4.20	18.90	ND	
538-93-2	i-Butylbenzene	0.85	2.56	ND	4.69	14.07	ND	
135-98-8	sec-butylbenzene	0.85	2.99	ND	4.69	16.42	ND	
541-73-1	1,3-Dichlorobenzene	0.85	3.41	ND	5.14	20.55	ND	
99-87-6	Isopropyltoluene	0.85	2.56	ND	4.69	14.07	ND	
100-44-7	Benzyl chloride	0.85	2.13	ND	4.42	11.06	ND	
106-46-7	1,4-Dichlorobenzene	0.85	2.13	ND	5.14	12.84	ND	
104-51-8	n-Butylbenzene	0.85	2.56	ND	4.69	14.07	ND	
95-50-1	1,2-Dichlorobenzene	0.85	2.99	ND	5.14	17.98	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.28	2.99	ND	12.39	28.90	ND	
120-82-1	1,2,4-Trichlorobenzene	1.28	2.13	ND	9.51	15.85	ND	
91-20-3	Naphthalene	2.13	0.43	ND	11.20	2.24	ND	
87-61-6	1,2,3-Trichlorobenzene	1.28	2.13	ND	9.51	15.85	ND	
87-68-3	Hexachlorobutadiene	1.07	1.28	ND	11.39	13.67	ND	

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	122	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**47**		
File Name:	2510047A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/21/25**	**Time:**	**10:35**
Sample ID:	T-311	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/03/25**	**Time:**	**14:03**
Anal Date:	3 Apr 125 2:03 pm	**SF:**	**2**	**QCbatch:**	**040325-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**605**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.28**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	MM	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.226	4.41	42.00	27764
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	2.136	4.86	31.00	1173470
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.454	5.72	46.00	32250
107-02-8	Acrolein	12	TRG	0.414	6.32	56.00	26826
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	2.193	6.42	58.00	261387
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.075	6.45	45.00	37064
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.045	7.61	76.00	19841
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.190	8.75	72.00	18997
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.917	10.70	78.00	566302
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.063	13.50	91.00	54405
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.043	14.69	166.00	18336
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.016	15.90	106	18117
1330-20-7	m,p-Xylenes	75	TRG	0.023	16.06	91.00	23523
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.053	16.61	104.00	37241
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	0.00	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.023	18.23	105.00	31116
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.032	18.31	105.00	38868
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.021	18.95	105.00	27321
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.044	20.07	146.00	42895
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	23.58	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**9994267**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**11504942**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**12627579**
2037-26-5	Toluene-d8	103	SURR	12.157	13.40	98.00	**8598048**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**	EDD SURR:	PERCENT	IS LCL	50	Gas Constant	
Laboratory Number:	**47**	Sam Type:	SA	IS UCL	200	T	24.5
File Name:	2510047A.D	Instrument:	MA1	SUR LCL	70	P	760
Run Method:	A1563_P.M	DETECT:	ND	SUR UCL	130	MV	24.417
Can Factor:	1.28	Matrix:	AA	MDL Factor	1.0	GC	24.417
Air Volume:	300.0 ml	Type:	TRG	E Flag	1.3		
Can/Tube Number:	605	Diluton:	0.3840				
Dilution Factor:	0.3840	Sig Figs:	2				
Base Volume:	1000 ml	MDLSF:	2				

Unit Factor (ppbv):	1000	PPBV	UG/M3		Fixed	Fixed	Fixed	Fixed	(1)	(2)	Calc	Calc	Calc
	M.W.	Raw	ResultV	Result	Result	Result	ResultQ	ResultG	MDL	RL	MDL	MDL	RL
Compound		Amount	PPBV	UG/M3	PPBV	UG/M3	UG/M3	UG/M3		PPBV	PPBV	UG/M3	PPBV
Propylene	42.08	0.23	0.96	1.66	0.96	1.66	1.66	1.66	**0.100**	**0.250**	0.43	0.74	1.07
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	0.64	3.17	1.07
Methanol	32.0	2.14	9.11	11.94	9.11	11.94	11.94	11.94	**0.500**	**0.600**	2.13	2.80	2.56
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	0.64	1.32	1.07
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.43	2.99	1.07
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.55	1.07
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.48	1.07
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.43	1.66	1.07
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.43	1.13	1.07
Ethanol	46.1	0.45	1.94	3.65	ND	ND	0		**0.500**	**3.210**	2.13	4.03	13.70
Acrolein	56.1	0.41	1.77	4.06	1.77	4.06	4.06	4.06	**0.100**	**0.300**	0.43	0.98	1.28
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.43	2.40	1.07
Acetone	58.1	2.19	9.36	22.27	9.36	22.27	22.27	22.27	**0.500**	**0.600**	2.13	5.08	2.56
2-propanol (isopropylalcohol)	60.1	0.07	0.32	0.78	ND	ND	0		**0.200**	**1.250**	0.85	2.10	5.33
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**1.000**	0.43	1.29	4.27
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	0.43	2.50	1.28
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.85	1.07
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.300**	0.85	1.86	1.28
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.64	1.07
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	0.21	0.67	4.27
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.74	1.07
Carbon disulfide	76.1	0.04	0.19	0.60	ND	ND	0		**0.100**	**0.250**	0.43	1.33	1.07
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.200**	0.21	0.85	0.85
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.200**	0.43	1.54	0.85
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		**0.250**	**0.400**	1.07	2.41	1.71
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.86	1.07
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.43	1.79	1.07
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	0.21	0.75	4.27
2-Butanone (MEK)	72.1	0.19	0.81	2.40	0.81	2.40	2.40	2.40	**0.100**	**0.300**	0.43	1.26	1.28
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.600**	0.43	1.79	2.56
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.43	1.51	1.07
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.43	1.17	1.07
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.43	1.54	1.07
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.13	1.07
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.43	1.50	2.13
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.300**	0.21	0.63	1.28
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.800**	0.85	2.59	3.41
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.85	1.07
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.99	1.07
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.05	1.07
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.17	1.07
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.86	1.07
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.97	1.07
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	0.74	1.07
Benzene	78.1	0.92	3.91	12.51	3.91	12.51	12.51	12.51	**0.350**	**0.500**	1.49	4.78	2.13
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.34	1.07
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.43	1.79	2.13
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.21	1.00	1.07
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.43	1.75	1.07

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.99	1.07
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.43	1.54	2.13
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.52	1.07
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.57	1.07
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.43	1.07
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.75	1.07
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.43	1.75	3.41
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.97	1.07
Toluene	92.1	0.06	0.27	1.01	ND	ND	0		0.200	0.250	0.85	3.22	1.07
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.97	1.07
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.17	1.07
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.00	1.07
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.43	1.75	3.41
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.21	0.99	2.99
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.00	1.07
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	3.64	1.07
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	3.28	1.07
Tetrachloroethene (PCE)	165.8	0.04	0.18	1.25	0.18	1.25	1.25	1.25	0.025	0.250	0.11	0.72	1.07
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.97	1.07
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.93	1.07
Ethylbenzene	106.2	0.02	0.07	0.30	ND	ND	0		0.100	0.250	0.43	1.86	1.07
m,p-Xylenes	106.2	0.02	0.10	0.43	ND	ND	0		0.100	0.250	0.43	1.86	1.07
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	2.24	1.07
Styrene	104.2	0.05	0.23	0.97	ND	ND	0		0.150	0.250	0.64	2.73	1.07
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	4.42	1.07
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.43	1.86	1.07
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	5.86	2.13
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	5.15	2.56
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.37	2.56
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.20	2.99
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.20	2.99
4-Ethyltoluene	120.2	0.02	0.10	0.48	ND	ND	0		0.200	1.600	0.85	4.20	6.83
1,3,5-Trimethylbenzene	120.2	0.03	0.13	0.66	ND	ND	0		0.200	0.900	0.85	4.20	3.84
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.97	2.56
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.69	2.56
1,2,4-Trimethylbenzene	120.2	0.02	0.09	0.44	ND	ND	0		0.200	0.900	0.85	4.20	3.84
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.69	2.56
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.85	4.69	2.99
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.85	5.14	3.41
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.69	2.56
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	4.42	2.13
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.85	5.14	2.13
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.85	4.69	2.56
1,2-Dichlorobenzene	147.0	0.04	0.19	1.14	ND	ND	0		0.200	0.700	0.85	5.14	2.99
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.28	12.39	2.99
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.28	9.51	2.13
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.13	11.20	0.43
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.28	9.51	2.13
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.07	11.39	1.28
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		12.16	122	122	122	122	122	122	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.84	J	J		=		Y	0.96	1.66
5.28	U	ND		ND		Y	0.00	0.00
3.36				=		Y	9.11	11.94
2.21	U	ND		ND		Y	0.00	0.00
7.47	U	ND		ND		Y	0.00	0.00
2.73	U	ND		ND		Y	0.00	0.00
2.36	U	ND		ND		Y	0.00	0.00
4.15	U	ND		ND		Y	0.00	0.00
2.82	U	ND		ND		Y	0.00	0.00
25.86	U	ND		ND		Y	0.00	0.00
2.94				=		Y	1.77	4.06
6.00	U	ND		ND		Y	0.00	0.00
6.09				=		Y	9.36	22.27
13.13	U	ND		ND		Y	0.00	0.00
12.95	U	ND		ND		Y	0.00	0.00
7.49	U	ND		ND		Y	0.00	0.00
4.23	U	ND		ND		Y	0.00	0.00
2.78	U	ND		ND		Y	0.00	0.00
8.19	U	ND		ND		Y	0.00	0.00
13.37	U	ND		ND		Y	0.00	0.00
3.71	U	ND		ND		Y	0.00	0.00
3.32	U	ND		ND		Y	0.00	0.00
3.39	U	ND		ND		Y	0.00	0.00
3.08	U	ND		ND		Y	0.00	0.00
3.85	U	ND		ND		Y	0.00	0.00
4.32	U	ND		ND		Y	0.00	0.00
4.46	U	ND		ND		Y	0.00	0.00
15.05	U	ND		ND		Y	0.00	0.00
3.78	J	J		=		Y	0.81	2.40
10.72	U	ND		ND		Y	0.00	0.00
3.77	U	ND		ND		Y	0.00	0.00
2.93	U	ND		ND		Y	0.00	0.00
3.85	U	ND		ND		Y	0.00	0.00
5.65	U	ND		ND		Y	0.00	0.00
7.52	U	ND		ND		Y	0.00	0.00
3.78	U	ND		ND		Y	0.00	0.00
10.36	U	ND		ND		Y	0.00	0.00
4.23	U	ND		ND		Y	0.00	0.00
4.94	U	ND		ND		Y	0.00	0.00
5.22	U	ND		ND		Y	0.00	0.00
5.83	U	ND		ND		Y	0.00	0.00
4.32	U	ND		ND		Y	0.00	0.00
4.85	U	ND		ND		Y	0.00	0.00
3.68	U	ND		ND		Y	0.00	0.00
6.82				=		Y	3.91	12.51
6.72	U	ND		ND		Y	0.00	0.00
8.93	U	ND		ND		Y	0.00	0.00
4.99	U	ND		ND		Y	0.00	0.00
4.38	U	ND		ND		Y	0.00	0.00

4.94	U	ND	ND	Y	0.00	0.00
7.70	U	ND	ND	Y	0.00	0.00
7.59	U	ND	ND	Y	0.00	0.00
5.74	U	ND	ND	Y	0.00	0.00
7.16	U	ND	ND	Y	0.00	0.00
4.37	U	ND	ND	Y	0.00	0.00
14.01	U	ND	ND	Y	0.00	0.00
4.85	U	ND	ND	Y	0.00	0.00
4.02	U	ND	ND	Y	0.00	0.00
4.85	U	ND	ND	Y	0.00	0.00
5.83	U	ND	ND	Y	0.00	0.00
4.99	U	ND	ND	Y	0.00	0.00
14.01	U	ND	ND	Y	0.00	0.00
13.82	U	ND	ND	Y	0.00	0.00
4.99	U	ND	ND	Y	0.00	0.00
9.10	U	ND	ND	Y	0.00	0.00
8.21	U	ND	ND	Y	0.00	0.00
7.24	J	J	=	Y	0.18	1.25
4.92	U	ND	ND	Y	0.00	0.00
7.33	U	ND	ND	Y	0.00	0.00
4.64	U	ND	ND	Y	0.00	0.00
4.64	U	ND	ND	Y	0.00	0.00
5.60	U	ND	ND	Y	0.00	0.00
4.55	U	ND	ND	Y	0.00	0.00
11.04	U	ND	ND	Y	0.00	0.00
4.64	U	ND	ND	Y	0.00	0.00
14.66	U	ND	ND	Y	0.00	0.00
15.45	U	ND	ND	Y	0.00	0.00
13.11	U	ND	ND	Y	0.00	0.00
14.70	U	ND	ND	Y	0.00	0.00
14.70	U	ND	ND	Y	0.00	0.00
33.61	U	ND	ND	Y	0.00	0.00
18.90	U	ND	ND	Y	0.00	0.00
14.92	U	ND	ND	Y	0.00	0.00
14.07	U	ND	ND	Y	0.00	0.00
18.90	U	ND	ND	Y	0.00	0.00
14.07	U	ND	ND	Y	0.00	0.00
16.42	U	ND	ND	Y	0.00	0.00
20.55	U	ND	ND	Y	0.00	0.00
14.07	U	ND	ND	Y	0.00	0.00
11.06	U	ND	ND	Y	0.00	0.00
12.84	U	ND	ND	Y	0.00	0.00
14.07	U	ND	ND	Y	0.00	0.00
17.98	U	ND	ND	Y	0.00	0.00
28.90	U	ND	ND	Y	0.00	0.00
15.85	U	ND	ND	Y	0.00	0.00
2.24	U	ND	ND	Y	0.00	0.00
15.85	U	ND	ND	Y	0.00	0.00
13.67	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**	
Laboratory Number:		**47**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.28	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) **= Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

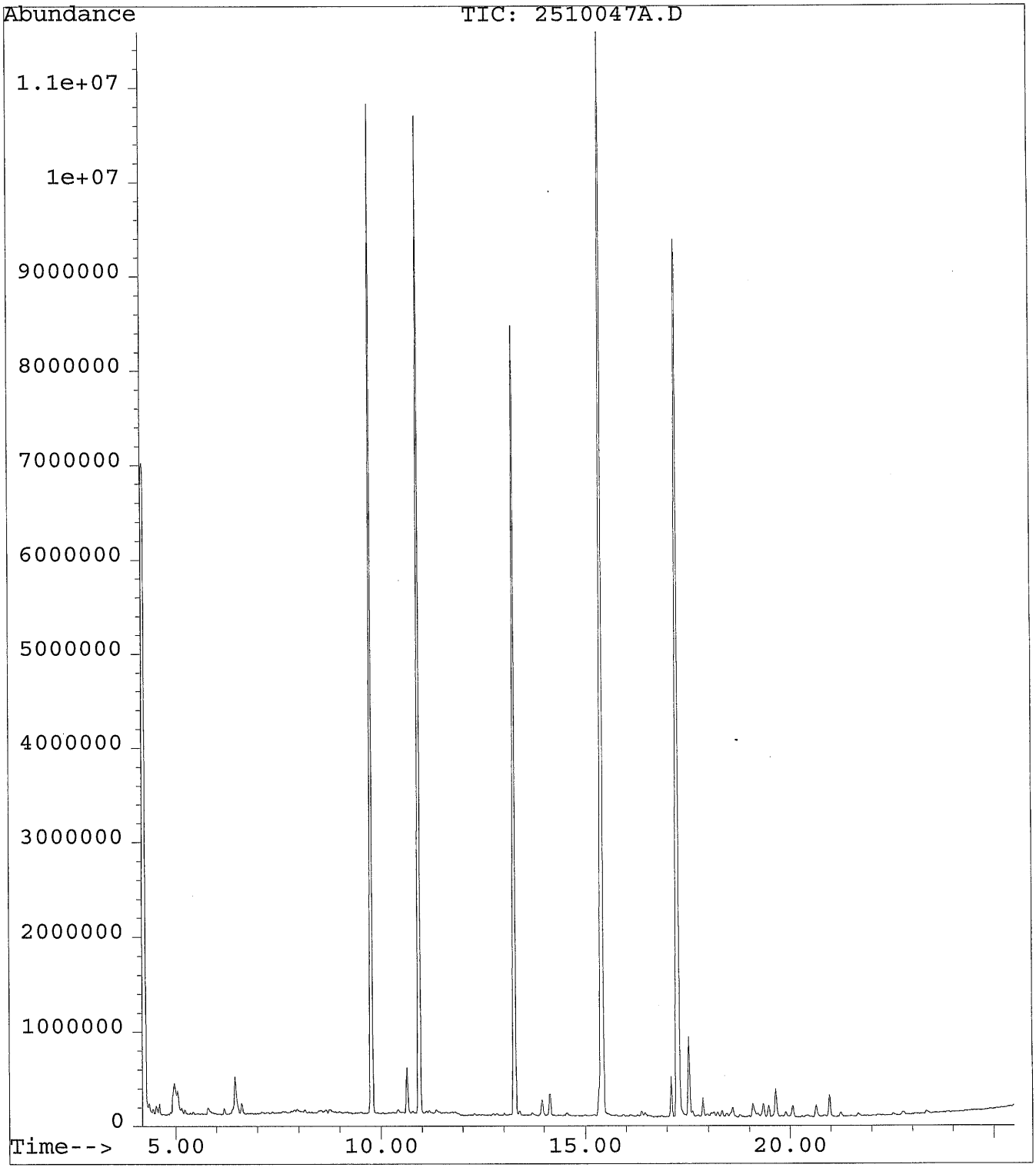
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	27764	20.0	9994267	0.226	0.96	1.66
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	9994267	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	1173470	20.0	9994267	2.136	9.11	11.94
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	9994267	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	9994267	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	9994267	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	9994267	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	9994267	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	9994267	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	32250	20.0	9994267	0.454	1.94	3.65
12	Acrolein	PFB	TRG	56.1	0.130	26826	20.0	9994267	0.414	1.77	4.06
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	9994267	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	261387	20.0	9994267	2.193	9.36	22.27
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	37064	20.0	9994267	0.075	0.32	0.78
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	9994267	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	9994267	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	9994267	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	9994267	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	9994267	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	9994267	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	9994267	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	19841	20.0	9994267	0.045	0.19	0.60
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	9994267	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	9994267	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	9994267	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	9994267	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	9994267	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	9994267	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	18997	20.0	9994267	0.190	0.81	2.40
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	9994267	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	9994267	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	9994267	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	9994267	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	9994267	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	9994267	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	9994267	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	9994267	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	9994267	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	9994267	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	9994267	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	11504942	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	11504942	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	11504942	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	11504942	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	566302	20.0	11504942	0.917	3.91	12.51
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	11504942	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	11504942	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	11504942	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	11504942	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	11504942	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	11504942	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	11504942	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	11504942	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	11504942	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	11504942	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	11504942	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	11504942	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	54405	20.0	11504942	0.063	0.27	1.01
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	11504942	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	11504942	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	11504942	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	11504942	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	11504942	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	11504942	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	11504942	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	11504942	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	18336	20.0	11504942	0.043	0.18	1.25
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	12627579	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	12627579	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	18117	20.0	12627579	0.016	0.07	0.30
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	23523	20.0	12627579	0.023	0.10	0.43
76	Nonane	d5CB	TRG	128.3	1.278	0	20.0	12627579	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.106	37241	20.0	12627579	0.053	0.23	0.97
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	12627579	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	0	20.0	12627579	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	12627579	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	12627579	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	12627579	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	12627579	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	12627579	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	31116	20.0	12627579	0.023	0.10	0.48
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	38868	20.0	12627579	0.032	0.13	0.66
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	12627579	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	12627579	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	27321	20.0	12627579	0.021	0.09	0.44
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	12627579	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	12627579	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	12627579	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	0	20.0	12627579	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	12627579	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	12627579	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	12627579	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	42895	20.0	12627579	0.044	0.19	1.14
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	12627579	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	12627579	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	12627579	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	12627579	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	12627579	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	9994267	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	11504942	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	12627579	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	8598048	10.0		12.157	121.57	122

File : C:\MSCHEM\1\DATA\04035A_C\2510047A.D
Operator : MM
Acquired : 3 Apr 125 2:03 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-311
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **48**

Client ID T-312

Analytical Method TO-15

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Analytical Report
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Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 48**

File Name:	2510048A.D	**Date Sampled:**	03/21/25	**Time:**	10:30
Description:	T-312	**Date Analyzed:**	04/03/25	**Time:**	15:05
Canister:	990	**Can Dilution Factor:**	1.33		
QC_Batch:	040325-MA1	**Air Volume:**	300 ml		

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.44	1.11	2.02	0.76	1.91	3.49	
75-71-8	Dichlorodifluoromethane	0.67	1.11	ND	3.29	5.49	ND	
67-56-1	Methanol	2.22	2.66	21.10	2.91	3.49	27.65	
74-87-3	Chloromethane	0.67	1.11	ND	1.38	2.29	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.44	1.11	ND	3.10	7.76	ND	
75-01-4	Vinyl chloride	0.22	1.11	ND	0.57	2.84	ND	
106-99-0	1,3-Butadiene	0.22	1.11	ND	0.49	2.46	ND	
74-83-9	Bromomethane	0.44	1.11	ND	1.72	4.31	ND	
75-00-3	Chloroethane	0.44	1.11	ND	1.17	2.93	ND	
64-17-5	Ethanol	2.22	14.23	5.65	4.19	26.87	10.67	J
107-02-8	Acrolein	0.44	1.33	2.95	1.02	3.06	6.78	
75-69-4	Trichlorofluoromethane	0.44	1.11	ND	2.49	6.24	ND	
67-64-1	Acetone	2.22	2.66	123.17	5.27	6.33	293.09	
67-63-0	2-propanol (isopropylalcohol)	0.89	5.54	4.71	2.18	13.64	11.58	J
75-65-0	t-Butyl alcohol	0.44	4.43	ND	1.35	13.45	ND	
4227-95-6	Methyl iodide	0.44	1.33	ND	2.59	7.78	ND	
75-35-4	1,1-Dichloroethene	0.22	1.11	ND	0.88	4.40	ND	
107-13-1	Acrylonitrile	0.89	1.33	ND	1.93	2.89	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.22	1.11	ND	1.70	8.51	ND	
107-05-1	Allyl chloride	0.22	4.43	ND	0.69	13.89	ND	
75-09-2	Methylene chloride	0.22	1.11	ND	0.77	3.85	ND	
75-15-0	Carbon disulfide	0.44	1.11	ND	1.38	3.45	ND	
156-60-5	trans-1,2-Dichloroethene	0.22	0.89	ND	0.88	3.52	ND	
1634-04-4	Methyl tert butyl ether	0.44	0.89	ND	1.60	3.20	ND	
107-12-0	Propionitrile	1.11	1.77	ND	2.50	4.00	ND	
75-34-3	1,1-Dichloroethane	0.22	1.11	ND	0.90	4.49	ND	
637-92-3	Ethyl tert butyl ether	0.44	1.11	ND	1.86	4.64	ND	
108-05-4	Vinyl acetate	0.22	4.43	ND	0.78	15.63	ND	
78-93-3	2-Butanone (MEK)	0.44	1.33	91.40	1.31	3.93	269.90	
108-20-3	Diisopropyl ether	0.44	2.66	ND	1.86	11.13	ND	
110-54-3	Hexane	0.44	1.11	ND	1.57	3.91	ND	
126-98-7	Methacrylonitrile	0.44	1.11	ND	1.22	3.05	ND	
141-78-6	Ethyl acetate	0.44	1.11	10.36	1.60	4.00	37.39	
74-97-5	Bromochloromethane	0.22	1.11	ND	1.17	5.87	ND	
96-33-3	Methyl acrylate	0.44	2.22	ND	1.56	7.82	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.22	1.33	2.65	0.66	3.93	7.83	
78-83-1	Isobutyl alcohol	0.89	3.55	ND	2.69	10.76	ND	
156-59-2	cis-1,2-Dichloroethene	0.22	1.11	ND	0.88	4.40	ND	
594-20-7	2,2-Dichloropropane	0.22	1.11	ND	1.03	5.13	ND	
67-66-3	Chloroform	0.22	1.11	ND	1.09	5.42	ND	
71-55-6	1,1,1-Trichloroethane	0.22	1.11	ND	1.21	6.06	ND	
107-06-2	1,2-Dichloroethane	0.22	1.11	0.76	0.90	4.49	3.08	J
563-58-6	1,1-Dichloropropene	0.22	1.11	ND	1.01	5.04	ND	
110-82-7	Cyclohexane	0.22	1.11	ND	0.76	3.82	ND	
71-43-2	Benzene	1.55	2.22	4.26	4.96	7.09	13.62	
56-23-5	Carbon tetrachloride	0.22	1.11	ND	1.40	6.98	ND	
994-05-8	t-Amyl methyl ether	0.44	2.22	ND	1.86	9.28	ND	
540-84-1	2,2,4-Trimethylpentane	0.22	1.11	ND	1.04	5.18	ND	
142-82-5	n-Heptane	0.44	1.11	ND	1.82	4.55	ND	
78-87-5	1,2-Dichloropropane	0.22	1.11	ND	1.03	5.13	ND	
123-91-1	1,4 Dioxane	0.44	2.22	ND	1.60	8.00	ND	
74-95-3	Dibromomethane	0.22	1.11	ND	1.58	7.89	ND	
79-01-6	Trichloroethene (TCE)	0.11	1.11	ND	0.60	5.96	ND	
75-27-4	Bromodichloromethane	0.22	1.11	ND	1.49	7.44	ND	
80-62-6	Methyl methacrylate	0.44	1.11	ND	1.82	4.54	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.44	3.55	ND	1.82	14.55	ND	
10061-01-5	cis-1,3-Dichloropropene	0.22	1.11	ND	1.01	5.04	ND	
108-88-3	Toluene	0.89	1.11	ND	3.34	4.18	ND	
10061-02-6	trans-1,3-Dichloropropene	0.22	1.11	ND	1.01	5.04	ND	
79-00-5	1,1,2-Trichloroethane	0.22	1.11	ND	1.21	6.06	ND	
97-63-2	Ethyl methacrylate	0.44	1.11	ND	2.07	5.18	ND	
591-78-6	2-Hexanone	0.44	3.55	0.56	1.82	14.55	2.31	J
142-28-9	1,3-Dichloropropane	0.22	3.10	ND	1.03	14.36	ND	
111-65-9	Octane	0.44	1.11	ND	2.07	5.18	ND	
124-48-1	Dibromochloromethane	0.44	1.11	ND	3.78	9.46	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.44	1.11	ND	3.41	8.53	ND	
127-18-4	Tetrachloroethene (PCE)	0.11	1.11	2.34	0.75	7.53	15.88	
108-90-7	Chlorobenzene	0.44	1.11	ND	2.04	5.11	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.44	1.11	ND	3.05	7.62	ND	
100-41-4	Ethylbenzene	0.44	1.11	ND	1.93	4.82	ND	
1330-20-7	m,p-Xylenes	0.44	1.11	0.70	1.93	4.82	3.03	J
111-84-2	Nonane	0.44	1.11	ND	2.33	5.82	ND	
100-42-5	Styrene	0.67	1.11	ND	2.84	4.73	ND	
75-25-2	Bromoform	0.44	1.11	ND	4.59	11.47	ND	
95-47-6	o-Xylene	0.44	1.11	0.53	1.93	4.82	2.29	J
79-34-5	1,1,2,2-Tetrachloroethane	0.89	2.22	ND	6.09	15.23	ND	
96-18-4	1,2,3-Trichloropropane	0.89	2.66	ND	5.35	16.06	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.89	2.66	ND	4.54	13.62	ND	
103-65-1	n-Propylbenzene	0.89	3.10	ND	4.36	15.28	ND	
98-82-8	Isopropylbenzene	0.89	3.10	ND	4.36	15.28	ND	
622-96-8	4-Ethyltoluene	0.89	7.09	ND	4.36	34.92	ND	
108-67-8	1,3,5-Trimethylbenzene	0.89	3.99	ND	4.36	19.64	ND	
124-18-5	Decane	0.89	2.66	ND	5.17	15.50	ND	
98-06-6	tert-butyl benzene	0.89	2.66	ND	4.87	14.62	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.89	3.99	ND	4.36	19.64	ND	
538-93-2	i-Butylbenzene	0.89	2.66	ND	4.87	14.62	ND	
135-98-8	sec-butylbenzene	0.89	3.10	ND	4.87	17.06	ND	
541-73-1	1,3-Dichlorobenzene	0.89	3.55	ND	5.34	21.35	ND	
99-87-6	Isopropyltoluene	0.89	2.66	4.43	4.87	14.62	24.37	
100-44-7	Benzyl chloride	0.89	2.22	ND	4.60	11.49	ND	
106-46-7	1,4-Dichlorobenzene	0.89	2.22	ND	5.34	13.35	ND	
104-51-8	n-Butylbenzene	0.89	2.66	ND	4.87	14.62	ND	
95-50-1	1,2-Dichlorobenzene	0.89	3.10	ND	5.34	18.68	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.33	3.10	ND	12.87	30.03	ND	
120-82-1	1,2,4-Trichlorobenzene	1.33	2.22	ND	9.88	16.47	ND	
91-20-3	Naphthalene	2.22	0.44	ND	11.64	2.33	ND	
87-61-6	1,2,3-Trichlorobenzene	1.33	2.22	ND	9.88	16.47	ND	
87-68-3	Hexachlorobutadiene	1.11	1.33	ND	11.84	14.21	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	127	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**48**		
File Name:	2510048A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/21/25**	**Time:**	**10:30**
Sample ID:	T-312	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/03/25**	**Time:**	**15:05**
Anal Date:	3 Apr 125 3:05 pm	**SF:**	**2**	**QCbatch:**	**040325-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**990**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.33**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	DA	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.5**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.456	4.41	42.00	62264
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	4.760	4.86	31.00	2901869
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	1.275	5.72	46.00	100549
107-02-8	Acrolein	12	TRG	0.666	6.32	56.00	47848
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	27.783	6.42	58.00	3674036
67-63-0	2-propanol (isopropylalcoh	15	TRG	1.062	6.45	45.00	586021
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	20.617	8.75	72.00	2284539
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	2.337	9.17	61.00	999548
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.598	9.72	72.00	70696
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.171	10.27	61.95	65252
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.961	10.70	78.00	655479
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.139	13.50	91.00	132503
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.127	13.79	58.00	68679
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.528	14.69	166.00	246839
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.043	15.90	106	55942
1330-20-7	m,p-Xylenes	75	TRG	0.157	16.06	91.00	182440
111-84-2	Nonane	76	TRG	0.053	16.43	57.00	49790
100-42-5	Styrene	77	TRG	0.069	16.61	104.00	55648
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.119	16.55	91.00	144250
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.022	18.23	105.00	35316
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.034	18.31	105.00	47973
124-18-5	Decane	87	TRG	0.185	18.60	57.00	314565
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.023	18.95	105.00	33938
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	1.000	19.53	119.00	2128611
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**11089671**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**12711271**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**14606963**
2037-26-5	Toluene-d8	103	SURR	12.730	13.40	98.00	**9947922**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 2E+05
Laboratory Number: 48
File Name: 2510048A.D
Run Method: A1563_P.M
Can Factor: 1.33
Air Volume: 300.0 ml
Can/Tube Number: 990
Dilution Factor: 0.3990
Base Volume: 1000 ml
Unit Factor (ppbv): 1000 PPBV UG/M3

EDD SURR: PERCENT
Sam Type: SA
Instrument: MA1
DETECT: ND
Matrix: AA
Type: TRG
Diluton: 0.3990
Sig Figs: 2
MDLSF: 2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.5

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	ResultQ UG/M3	ResultG UG/M3	(1) MDL	RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.46	2.02	3.49	2.02	3.49	3.49	3.49	0.100	0.250	0.44	0.76	1.11
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.67	3.29	1.11
Methanol	32.0	4.76	21.10	27.65	21.10	27.65	27.65	27.65	0.500	0.600	2.22	2.91	2.66
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.67	1.38	1.11
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	3.10	1.11
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.57	1.11
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.49	1.11
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.72	1.11
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.17	1.11
Ethanol	46.1	1.27	5.65	10.67	5.65	10.67	10.67	10.67	0.500	3.210	2.22	4.19	14.23
Acrolein	56.1	0.67	2.95	6.78	2.95	6.78	6.78	6.78	0.100	0.300	0.44	1.02	1.33
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	2.49	1.11
Acetone	58.1	27.78	123.17	293.09	123.17	293.09	293.09	293.09	0.500	0.600	2.22	5.27	2.66
2-propanol (isopropylalcohol)	60.1	1.06	4.71	11.58	4.71	11.58	11.58	11.58	0.200	1.250	0.89	2.18	5.54
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.44	1.35	4.43
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.44	2.59	1.33
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.88	1.11
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.89	1.93	1.33
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.70	1.11
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.22	0.69	4.43
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.77	1.11
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.38	1.11
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.22	0.88	0.89
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.44	1.60	0.89
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.11	2.50	1.77
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.90	1.11
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.86	1.11
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.22	0.78	4.43
2-Butanone (MEK)	72.1	20.62	91.40	269.90	91.40	269.90	269.90	269.90	0.100	0.300	0.44	1.31	1.33
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.44	1.86	2.66
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.57	1.11
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.22	1.11
Ethyl acetate	88.1	2.34	10.36	37.39	10.36	37.39	37.39	37.39	0.100	0.250	0.44	1.60	1.11
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.17	1.11
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.44	1.56	2.22
Tetrahydrofuran	72.1	0.60	2.65	7.83	2.65	7.83	7.83	7.83	0.050	0.300	0.22	0.66	1.33
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.89	2.69	3.55
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.88	1.11
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.03	1.11
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.09	1.11
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.21	1.11
1,2-Dichloroethane	99.0	0.17	0.76	3.08	0.76	3.08	3.08	3.08	0.050	0.250	0.22	0.90	1.11
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.01	1.11
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	0.76	1.11
Benzene	78.1	0.96	4.26	13.62	4.26	13.62	13.62	13.62	0.350	0.500	1.55	4.96	2.22
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.40	1.11
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.44	1.86	2.22
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.04	1.11
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.82	1.11

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.03	1.11
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.44	1.60	2.22
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.58	1.11
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.11	0.60	1.11
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.49	1.11
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	1.82	1.11
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.44	1.82	3.55
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.01	1.11
Toluene	92.1	0.14	0.62	2.32	ND	ND	0		0.200	0.250	0.89	3.34	1.11
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.01	1.11
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.22	1.21	1.11
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	2.07	1.11
2-Hexanone	100.2	0.13	0.56	2.31	0.56	2.31	2.31	2.31	0.100	0.800	0.44	1.82	3.55
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.22	1.03	3.10
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	2.07	1.11
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	3.78	1.11
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	3.41	1.11
Tetrachloroethene (PCE)	165.8	0.53	2.34	15.88	2.34	15.88	15.88	15.88	0.025	0.250	0.11	0.75	1.11
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	2.04	1.11
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	3.05	1.11
Ethylbenzene	106.2	0.04	0.19	0.83	ND	ND	0		0.100	0.250	0.44	1.93	1.11
m,p-Xylenes	106.2	0.16	0.70	3.03	0.70	3.03	3.03	3.03	0.100	0.250	0.44	1.93	1.11
Nonane	128.3	0.05	0.24	1.24	ND	ND	0		0.100	0.250	0.44	2.33	1.11
Styrene	104.2	0.07	0.31	1.30	ND	ND	0		0.150	0.250	0.67	2.84	1.11
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.44	4.59	1.11
o-Xylene	106.2	0.12	0.53	2.29	0.53	2.29	2.29	2.29	0.100	0.250	0.44	1.93	1.11
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.89	6.09	2.22
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.89	5.35	2.66
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.89	4.54	2.66
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.89	4.36	3.10
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.89	4.36	3.10
4-Ethyltoluene	120.2	0.02	0.10	0.49	ND	ND	0		0.200	1.600	0.89	4.36	7.09
1,3,5-Trimethylbenzene	120.2	0.03	0.15	0.73	ND	ND	0		0.200	0.900	0.89	4.36	3.99
Decane	142.3	0.19	0.82	4.78	ND	ND	0		0.200	0.600	0.89	5.17	2.66
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.89	4.87	2.66
1,2,4-Trimethylbenzene	120.2	0.02	0.10	0.49	ND	ND	0		0.200	0.900	0.89	4.36	3.99
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.89	4.87	2.66
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.89	4.87	3.10
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.89	5.34	3.55
Isopropyltoluene	134.2	1.00	4.43	24.37	4.43	24.37	24.37	24.37	0.200	0.600	0.89	4.87	2.66
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.89	4.60	2.22
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.89	5.34	2.22
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.89	4.87	2.66
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.89	5.34	3.10
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.33	12.87	3.10
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.33	9.88	2.22
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.22	11.64	0.44
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.33	9.88	2.22
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.11	11.84	1.33
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		12.73	127	127	127	127	127	127	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.91				=		Y	2.02	3.49
5.49	U	ND		ND		Y	0.00	0.00
3.49				=		Y	21.10	27.65
2.29	U	ND		ND		Y	0.00	0.00
7.76	U	ND		ND		Y	0.00	0.00
2.84	U	ND		ND		Y	0.00	0.00
2.46	U	ND		ND		Y	0.00	0.00
4.31	U	ND		ND		Y	0.00	0.00
2.93	U	ND		ND		Y	0.00	0.00
26.87	J	J		=		Y	5.65	10.67
3.06				=		Y	2.95	6.78
6.24	U	ND		ND		Y	0.00	0.00
6.33				=		Y	123.17	293.09
13.64	J	J		=		Y	4.71	11.58
13.45	U	ND		ND		Y	0.00	0.00
7.78	U	ND		ND		Y	0.00	0.00
4.40	U	ND		ND		Y	0.00	0.00
2.89	U	ND		ND		Y	0.00	0.00
8.51	U	ND		ND		Y	0.00	0.00
13.89	U	ND		ND		Y	0.00	0.00
3.85	U	ND		ND		Y	0.00	0.00
3.45	U	ND		ND		Y	0.00	0.00
3.52	U	ND		ND		Y	0.00	0.00
3.20	U	ND		ND		Y	0.00	0.00
4.00	U	ND		ND		Y	0.00	0.00
4.49	U	ND		ND		Y	0.00	0.00
4.64	U	ND		ND		Y	0.00	0.00
15.63	U	ND		ND		Y	0.00	0.00
3.93				=		Y	91.40	269.90
11.13	U	ND		ND		Y	0.00	0.00
3.91	U	ND		ND		Y	0.00	0.00
3.05	U	ND		ND		Y	0.00	0.00
4.00				=		Y	10.36	37.39
5.87	U	ND		ND		Y	0.00	0.00
7.82	U	ND		ND		Y	0.00	0.00
3.93				=		Y	2.65	7.83
10.76	U	ND		ND		Y	0.00	0.00
4.40	U	ND		ND		Y	0.00	0.00
5.13	U	ND		ND		Y	0.00	0.00
5.42	U	ND		ND		Y	0.00	0.00
6.06	U	ND		ND		Y	0.00	0.00
4.49	J	J		=		Y	0.76	3.08
5.04	U	ND		ND		Y	0.00	0.00
3.82	U	ND		ND		Y	0.00	0.00
7.09				=		Y	4.26	13.62
6.98	U	ND		ND		Y	0.00	0.00
9.28	U	ND		ND		Y	0.00	0.00
5.18	U	ND		ND		Y	0.00	0.00
4.55	U	ND		ND		Y	0.00	0.00

5.13	U	ND	ND	Y	0.00	0.00
8.00	U	ND	ND	Y	0.00	0.00
7.89	U	ND	ND	Y	0.00	0.00
5.96	U	ND	ND	Y	0.00	0.00
7.44	U	ND	ND	Y	0.00	0.00
4.54	U	ND	ND	Y	0.00	0.00
14.55	U	ND	ND	Y	0.00	0.00
5.04	U	ND	ND	Y	0.00	0.00
4.18	U	ND	ND	Y	0.00	0.00
5.04	U	ND	ND	Y	0.00	0.00
6.06	U	ND	ND	Y	0.00	0.00
5.18	U	ND	ND	Y	0.00	0.00
14.55	J	J	=	Y	0.56	2.31
14.36	U	ND	ND	Y	0.00	0.00
5.18	U	ND	ND	Y	0.00	0.00
9.46	U	ND	ND	Y	0.00	0.00
8.53	U	ND	ND	Y	0.00	0.00
7.53			=	Y	2.34	15.88
5.11	U	ND	ND	Y	0.00	0.00
7.62	U	ND	ND	Y	0.00	0.00
4.82	U	ND	ND	Y	0.00	0.00
4.82	J	J	=	Y	0.70	3.03
5.82	U	ND	ND	Y	0.00	0.00
4.73	U	ND	ND	Y	0.00	0.00
11.47	U	ND	ND	Y	0.00	0.00
4.82	J	J	=	Y	0.53	2.29
15.23	U	ND	ND	Y	0.00	0.00
16.06	U	ND	ND	Y	0.00	0.00
13.62	U	ND	ND	Y	0.00	0.00
15.28	U	ND	ND	Y	0.00	0.00
15.28	U	ND	ND	Y	0.00	0.00
34.92	U	ND	ND	Y	0.00	0.00
19.64	U	ND	ND	Y	0.00	0.00
15.50	U	ND	ND	Y	0.00	0.00
14.62	U	ND	ND	Y	0.00	0.00
19.64	U	ND	ND	Y	0.00	0.00
14.62	U	ND	ND	Y	0.00	0.00
17.06	U	ND	ND	Y	0.00	0.00
21.35	U	ND	ND	Y	0.00	0.00
14.62			=	Y	4.43	24.37
11.49	U	ND	ND	Y	0.00	0.00
13.35	U	ND	ND	Y	0.00	0.00
14.62	U	ND	ND	Y	0.00	0.00
18.68	U	ND	ND	Y	0.00	0.00
30.03	U	ND	ND	Y	0.00	0.00
16.47	U	ND	ND	Y	0.00	0.00
2.33	U	ND	ND	Y	0.00	0.00
16.47	U	ND	ND	Y	0.00	0.00
14.21	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**48**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.33
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\frac{(Astdni)\ (Cistdi)}{(Cstdni)\ (Aistdi)}$ Note: 1 i

2) Raw Amt = $\frac{(Ansamp)\ (Cistdi)}{(Avg\ RFn)\ (Aistdi)}$ **= Cn**

3) Amount ppbv = $\frac{(Raw\ Amt)\ 1000\ (CDF)}{(SV)}$

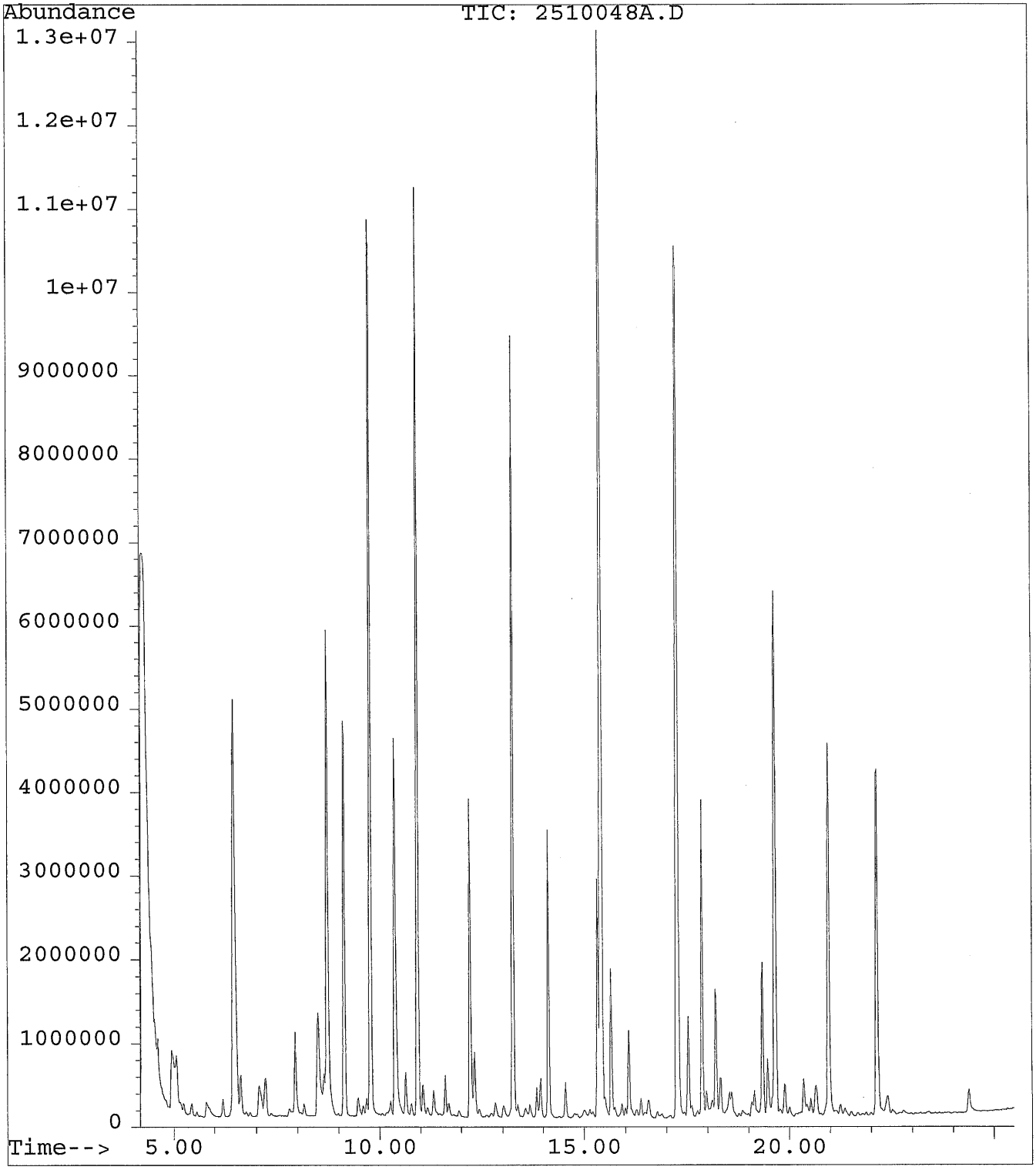
4) Amount ug/m3 = $\frac{(amt(ppbv)\ MW}{24.42}$

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	62264	20.0	11089671	0.456	2.02	3.49
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	11089671	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	2901869	20.0	11089671	4.760	21.10	27.65
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	11089671	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	11089671	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	11089671	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	11089671	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	11089671	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	11089671	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	100549	20.0	11089671	1.275	5.65	10.67
12	Acrolein	PFB	TRG	56.1	0.130	47848	20.0	11089671	0.666	2.95	6.78
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	11089671	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	3674036	20.0	11089671	27.783	123.17	293.09
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	586021	20.0	11089671	1.062	4.71	11.58
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	11089671	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	11089671	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	11089671	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	11089671	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	11089671	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	11089671	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	11089671	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	11089671	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	11089671	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	11089671	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	11089671	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	11089671	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	11089671	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	11089671	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	2284539	20.0	11089671	20.617	91.40	269.90
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	11089671	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	11089671	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	11089671	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	999548	20.0	11089671	2.337	10.36	37.39
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	11089671	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	11089671	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	70696	20.0	11089671	0.598	2.65	7.83
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	11089671	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	11089671	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	11089671	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	11089671	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	12711271	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	65252	20.0	12711271	0.171	0.76	3.08
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	12711271	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	12711271	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	655479	20.0	12711271	0.961	4.26	13.62
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	12711271	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	12711271	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	12711271	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	12711271	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	12711271	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	12711271	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	12711271	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	12711271	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	12711271	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	12711271	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	12711271	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	12711271	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	132503	20.0	12711271	0.139	0.62	2.32
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	12711271	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	12711271	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	12711271	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	68679	20.0	12711271	0.127	0.56	2.31
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	12711271	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	12711271	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	12711271	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	12711271	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	246839	20.0	12711271	0.528	2.34	15.88
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	14606963	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	14606963	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	55942	20.0	14606963	0.043	0.19	0.83
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	182440	20.0	14606963	0.157	0.70	3.03
76	Nonane	d5CB	TRG	128.3	1.278	49790	20.0	14606963	0.053	0.24	1.24
77	Styrene	d5CB	TRG	104.2	1.106	55648	20.0	14606963	0.069	0.31	1.30
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	14606963	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	144250	20.0	14606963	0.119	0.53	2.29
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	14606963	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	14606963	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	14606963	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	14606963	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	14606963	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	35316	20.0	14606963	0.022	0.10	0.49
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	47973	20.0	14606963	0.034	0.15	0.73
87	Decane	d5CB	TRG	142.3	2.327	314565	20.0	14606963	0.185	0.82	4.78
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	14606963	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	33938	20.0	14606963	0.023	0.10	0.49
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	14606963	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	14606963	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	14606963	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	2128611	20.0	14606963	1.000	4.43	24.37
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	14606963	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	14606963	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	14606963	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	14606963	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	14606963	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	14606963	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	14606963	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	14606963	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	14606963	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	11089671	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	12711271	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	14606963	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9947922	10.0		12.730	127.30	127

File : C:\MSCHEM\1\DATA\04035A_C\2510048A.D
Operator : DA
Acquired : 3 Apr 125 3:05 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-312
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **49**

Client ID T-313

Analytical Method TO-15

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 49

File Name: 2510049A.D
Description: T-313
Canister: 549
QC_Batch: 040325-MA1

Date Sampled: 03/21/25 **Time:** 10:31
Date Analyzed: 04/03/25 **Time:** 15:43
Can Dilution Factor: 1.25
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.04	1.08	0.72	1.80	1.85	
75-71-8	Dichlorodifluoromethane	0.63	1.04	ND	3.09	5.16	ND	
67-56-1	Methanol	2.08	2.50	15.44	2.73	3.28	20.24	
74-87-3	Chloromethane	0.63	1.04	ND	1.29	2.15	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.04	ND	2.92	7.29	ND	
75-01-4	Vinyl chloride	0.21	1.04	ND	0.54	2.67	ND	
106-99-0	1,3-Butadiene	0.21	1.04	ND	0.46	2.31	ND	
74-83-9	Bromomethane	0.42	1.04	ND	1.62	4.05	ND	
75-00-3	Chloroethane	0.42	1.04	ND	1.10	2.75	ND	
64-17-5	Ethanol	2.08	13.38	ND	3.93	25.25	ND	
107-02-8	Acrolein	0.42	1.25	3.89	0.96	2.87	8.94	
75-69-4	Trichlorofluoromethane	0.42	1.04	ND	2.34	5.86	ND	
67-64-1	Acetone	2.08	2.50	11.68	4.96	5.95	27.78	
67-63-0	2-propanol (isopropylalcohol)	0.83	5.21	ND	2.05	12.82	ND	
75-65-0	t-Butyl alcohol	0.42	4.17	ND	1.26	12.64	ND	
4227-95-6	Methyl iodide	0.42	1.25	ND	2.44	7.32	ND	
75-35-4	1,1-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
107-13-1	Acrylonitrile	0.83	1.25	ND	1.81	2.72	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.04	ND	1.60	7.99	ND	
107-05-1	Allyl chloride	0.21	4.17	ND	0.65	13.05	ND	
75-09-2	Methylene chloride	0.21	1.04	ND	0.72	3.62	ND	
75-15-0	Carbon disulfide	0.42	1.04	ND	1.30	3.25	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.83	ND	0.83	3.31	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.83	ND	1.50	3.01	ND	
107-12-0	Propionitrile	1.04	1.67	ND	2.35	3.76	ND	
75-34-3	1,1-Dichloroethane	0.21	1.04	ND	0.84	4.22	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.04	ND	1.74	4.36	ND	
108-05-4	Vinyl acetate	0.21	4.17	ND	0.73	14.69	ND	
78-93-3	2-Butanone (MEK)	0.42	1.25	1.69	1.23	3.69	4.98	
108-20-3	Diisopropyl ether	0.42	2.50	ND	1.74	10.46	ND	
110-54-3	Hexane	0.42	1.04	ND	1.47	3.68	ND	
126-98-7	Methacrylonitrile	0.42	1.04	ND	1.15	2.86	ND	
141-78-6	Ethyl acetate	0.42	1.04	ND	1.50	3.76	ND	
74-97-5	Bromochloromethane	0.21	1.04	ND	1.10	5.52	ND	
96-33-3	Methyl acrylate	0.42	2.08	ND	1.47	7.35	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.25	ND	0.62	3.69	ND	
78-83-1	Isobutyl alcohol	0.83	3.33	ND	2.53	10.12	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
594-20-7	2,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
67-66-3	Chloroform	0.21	1.04	ND	1.02	5.09	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
107-06-2	1,2-Dichloroethane	0.21	1.04	ND	0.84	4.22	ND	
563-58-6	1,1-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
110-82-7	Cyclohexane	0.21	1.04	ND	0.72	3.59	ND	
71-43-2	Benzene	1.46	2.08	3.44	4.66	6.66	11.01	
56-23-5	Carbon tetrachloride	0.21	1.04	ND	1.31	6.56	ND	
994-05-8	t-Amyl methyl ether	0.42	2.08	ND	1.74	8.72	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.04	ND	0.97	4.87	ND	
142-82-5	n-Heptane	0.42	1.04	ND	1.71	4.27	ND	
78-87-5	1,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
123-91-1	1,4 Dioxane	0.42	2.08	ND	1.50	7.52	ND	
74-95-3	Dibromomethane	0.21	1.04	ND	1.48	7.42	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.04	ND	0.56	5.61	ND	
75-27-4	Bromodichloromethane	0.21	1.04	ND	1.40	6.99	ND	
80-62-6	Methyl methacrylate	0.42	1.04	ND	1.71	4.27	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.33	0.61	1.71	13.68	2.49	J
10061-01-5	cis-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
108-88-3	Toluene	0.83	1.04	ND	3.14	3.93	ND	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
97-63-2	Ethyl methacrylate	0.42	1.04	ND	1.95	4.87	ND	
591-78-6	2-Hexanone	0.42	3.33	ND	1.71	13.68	ND	
142-28-9	1,3-Dichloropropane	0.21	2.92	ND	0.96	13.50	ND	
111-65-9	Octane	0.42	1.04	ND	1.95	4.87	ND	
124-48-1	Dibromochloromethane	0.42	1.04	ND	3.55	8.89	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.04	ND	3.21	8.02	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.04	0.43	0.71	7.07	2.90	J
108-90-7	Chlorobenzene	0.42	1.04	ND	1.92	4.80	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.04	ND	2.86	7.16	ND	
100-41-4	Ethylbenzene	0.42	1.04	ND	1.81	4.53	ND	
1330-20-7	m,p-Xylenes	0.42	1.04	ND	1.81	4.53	ND	
111-84-2	Nonane	0.42	1.04	ND	2.19	5.47	ND	
100-42-5	Styrene	0.63	1.04	ND	2.67	4.45	ND	
75-25-2	Bromoform	0.42	1.04	ND	4.31	10.78	ND	
95-47-6	o-Xylene	0.42	1.04	ND	1.81	4.53	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.83	2.08	ND	5.73	14.32	ND	
96-18-4	1,2,3-Trichloropropane	0.83	2.50	ND	5.03	15.09	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.83	2.50	ND	4.27	12.80	ND	
103-65-1	n-Propylbenzene	0.83	2.92	ND	4.10	14.36	ND	
98-82-8	Isopropylbenzene	0.83	2.92	ND	4.10	14.36	ND	
622-96-8	4-Ethyltoluene	0.83	6.67	ND	4.10	32.82	ND	
108-67-8	1,3,5-Trimethylbenzene	0.83	3.75	ND	4.10	18.46	ND	
124-18-5	Decane	0.83	2.50	ND	4.86	14.57	ND	
98-06-6	tert-butyl benzene	0.83	2.50	ND	4.58	13.74	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.83	3.75	ND	4.10	18.46	ND	
538-93-2	i-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
135-98-8	sec-butylbenzene	0.83	2.92	ND	4.58	16.03	ND	
541-73-1	1,3-Dichlorobenzene	0.83	3.33	ND	5.02	20.07	ND	
99-87-6	Isopropyltoluene	0.83	2.50	ND	4.58	13.74	ND	
100-44-7	Benzyl chloride	0.83	2.08	ND	4.32	10.80	ND	
106-46-7	1,4-Dichlorobenzene	0.83	2.08	ND	5.02	12.54	ND	
104-51-8	n-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
95-50-1	1,2-Dichlorobenzene	0.83	2.92	ND	5.02	17.56	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.25	2.92	ND	12.10	28.23	ND	
120-82-1	1,2,4-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
91-20-3	Naphthalene	2.08	0.42	ND	10.94	2.19	ND	
87-61-6	1,2,3-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
87-68-3	Hexachlorobutadiene	1.04	1.25	ND	11.13	13.35	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	128	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**49**		
File Name:	2510049A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/21/25**	**Time:**	**10:31**
Sample ID:	T-313	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/03/25**	**Time:**	**15:43**
Anal Date:	3 Apr 125 3:43 pm	**SF:**	**2**	**QCbatch:**	**040325-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**549**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.25**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	DA	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.5**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.258	4.41	42.00	33140
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	3.706	4.86	31.00	2125735
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.370	5.72	46.00	27443
107-02-8	Acrolein	12	TRG	0.934	6.32	56.00	63127
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	2.802	6.42	58.00	348619
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.065	6.45	45.00	33855
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.405	8.75	72.00	42221
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.826	10.70	78.00	544245
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.146	12.55	58.00	45646
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.069	13.50	91.00	63979
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.103	14.69	166.00	46371
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.018	15.90	106	20566
1330-20-7	m,p-Xylenes	75	TRG	0.029	16.06	91.00	30213
111-84-2	Nonane	76	TRG	0.023	16.43	57.00	19244
100-42-5	Styrene	77	TRG	0.045	16.61	104.00	32594
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.019	16.55	91.00	20312
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.000	18.31	105.00	0
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.020	18.95	105.00	26736
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.094	19.53	119.00	179682
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**10432606**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**12277107**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**13122435**
2037-26-5	Toluene-d8	103	SURR	12.839	13.40	98.00	**9689913**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 2E+05
Laboratory Number: 49
File Name: 2510049A.D
Run Method: A1563_P.M
Can Factor: 1.25
Air Volume: 300.0 ml
Can/Tube Number: 549
Dilution Factor: 0.3750
Base Volume: 1000 ml
Unit Factor (ppbv): 1000 PPBV UG/M3

EDD SURR: PERCENT
Sam Type: SA
Instrument: MA1
DETECT: ND
Matrix: AA
Type: TRG
Diluton: 0.3750
Sig Figs: 2
MDLSF: 2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.5

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.26	1.08	1.85	1.08	1.85	1.85	1.85	0.100	0.250	0.42	0.72	1.04
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.63	3.09	1.04
Methanol	32.0	3.71	15.44	20.24	15.44	20.24	20.24	20.24	0.500	0.600	2.08	2.73	2.50
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.63	1.29	1.04
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.92	1.04
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.54	1.04
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.46	1.04
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.62	1.04
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.10	1.04
Ethanol	46.1	0.37	1.54	2.91	ND	ND	0		0.500	3.210	2.08	3.93	13.38
Acrolein	56.1	0.93	3.89	8.94	3.89	8.94	8.94	8.94	0.100	0.300	0.42	0.96	1.25
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.34	1.04
Acetone	58.1	2.80	11.68	27.78	11.68	27.78	27.78	27.78	0.500	0.600	2.08	4.96	2.50
2-propanol (isopropylalcohol)	60.1	0.07	0.27	0.67	ND	ND	0		0.200	1.250	0.83	2.05	5.21
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.42	1.26	4.17
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.42	2.44	1.25
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.83	1.04
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.83	1.81	1.25
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.60	1.04
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.65	4.17
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.72	1.04
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.30	1.04
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.21	0.83	0.83
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.42	1.50	0.83
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.04	2.35	1.67
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.04
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.74	1.04
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.73	4.17
2-Butanone (MEK)	72.1	0.41	1.69	4.98	1.69	4.98	4.98	4.98	0.100	0.300	0.42	1.23	1.25
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.42	1.74	2.50
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.47	1.04
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.15	1.04
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.50	1.04
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.10	1.04
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.47	2.08
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.21	0.62	1.25
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.83	2.53	3.33
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.83	1.04
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.04
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.02	1.04
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.14	1.04
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.04
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.04
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.72	1.04
Benzene	78.1	0.83	3.44	11.01	3.44	11.01	11.01	11.01	0.350	0.500	1.46	4.66	2.08
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.31	1.04
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.74	2.08
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.97	1.04
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.71	1.04

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.04
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.50	2.08
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.48	1.04
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.56	1.04
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.40	1.04
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.71	1.04
4-Methyl-2-pentanone (MIBK)	100.2	0.15	0.61	2.49	0.61	2.49	2.49	2.49	0.100	0.800	0.42	1.71	3.33
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.04
Toluene	92.1	0.07	0.29	1.09	ND	ND	0		0.200	0.250	0.83	3.14	1.04
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.04
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.14	1.04
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.95	1.04
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.42	1.71	3.33
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.21	0.96	2.92
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.95	1.04
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.55	1.04
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.21	1.04
Tetrachloroethene (PCE)	165.8	0.10	0.43	2.90	0.43	2.90	2.90	2.90	0.025	0.250	0.10	0.71	1.04
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.92	1.04
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.86	1.04
Ethylbenzene	106.2	0.02	0.07	0.32	ND	ND	0		0.100	0.250	0.42	1.81	1.04
m,p-Xylenes	106.2	0.03	0.12	0.52	ND	ND	0		0.100	0.250	0.42	1.81	1.04
Nonane	128.3	0.02	0.10	0.50	ND	ND	0		0.100	0.250	0.42	2.19	1.04
Styrene	104.2	0.04	0.19	0.80	ND	ND	0		0.150	0.250	0.63	2.67	1.04
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	4.31	1.04
o-Xylene	106.2	0.02	0.08	0.34	ND	ND	0		0.100	0.250	0.42	1.81	1.04
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.83	5.73	2.08
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	5.03	2.50
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.27	2.50
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.10	2.92
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.10	2.92
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	1.600	0.83	4.10	6.67
1,3,5-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.900	0.83	4.10	3.75
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.86	2.50
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.58	2.50
1,2,4-Trimethylbenzene	120.2	0.02	0.08	0.41	ND	ND	0		0.200	0.900	0.83	4.10	3.75
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.58	2.50
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.58	2.92
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.83	5.02	3.33
Isopropyltoluene	134.2	0.09	0.39	2.15	ND	ND	0		0.200	0.600	0.83	4.58	2.50
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.83	4.32	2.08
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.83	5.02	2.08
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.58	2.50
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	5.02	2.92
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.25	12.10	2.92
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.25	9.29	2.08
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.08	10.94	0.42
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.25	9.29	2.08
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.04	11.13	1.25
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		12.84	128	128	128	128	128	128	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.80				=		Y	1.08	1.85
5.16	U	ND		ND		Y	0.00	0.00
3.28				=		Y	15.44	20.24
2.15	U	ND		ND		Y	0.00	0.00
7.29	U	ND		ND		Y	0.00	0.00
2.67	U	ND		ND		Y	0.00	0.00
2.31	U	ND		ND		Y	0.00	0.00
4.05	U	ND		ND		Y	0.00	0.00
2.75	U	ND		ND		Y	0.00	0.00
25.25	U	ND		ND		Y	0.00	0.00
2.87				=		Y	3.89	8.94
5.86	U	ND		ND		Y	0.00	0.00
5.95				=		Y	11.68	27.78
12.82	U	ND		ND		Y	0.00	0.00
12.64	U	ND		ND		Y	0.00	0.00
7.32	U	ND		ND		Y	0.00	0.00
4.13	U	ND		ND		Y	0.00	0.00
2.72	U	ND		ND		Y	0.00	0.00
7.99	U	ND		ND		Y	0.00	0.00
13.05	U	ND		ND		Y	0.00	0.00
3.62	U	ND		ND		Y	0.00	0.00
3.25	U	ND		ND		Y	0.00	0.00
3.31	U	ND		ND		Y	0.00	0.00
3.01	U	ND		ND		Y	0.00	0.00
3.76	U	ND		ND		Y	0.00	0.00
4.22	U	ND		ND		Y	0.00	0.00
4.36	U	ND		ND		Y	0.00	0.00
14.69	U	ND		ND		Y	0.00	0.00
3.69				=		Y	1.69	4.98
10.46	U	ND		ND		Y	0.00	0.00
3.68	U	ND		ND		Y	0.00	0.00
2.86	U	ND		ND		Y	0.00	0.00
3.76	U	ND		ND		Y	0.00	0.00
5.52	U	ND		ND		Y	0.00	0.00
7.35	U	ND		ND		Y	0.00	0.00
3.69	U	ND		ND		Y	0.00	0.00
10.12	U	ND		ND		Y	0.00	0.00
4.13	U	ND		ND		Y	0.00	0.00
4.82	U	ND		ND		Y	0.00	0.00
5.09	U	ND		ND		Y	0.00	0.00
5.69	U	ND		ND		Y	0.00	0.00
4.22	U	ND		ND		Y	0.00	0.00
4.74	U	ND		ND		Y	0.00	0.00
3.59	U	ND		ND		Y	0.00	0.00
6.66				=		Y	3.44	11.01
6.56	U	ND		ND		Y	0.00	0.00
8.72	U	ND		ND		Y	0.00	0.00
4.87	U	ND		ND		Y	0.00	0.00
4.27	U	ND		ND		Y	0.00	0.00

4.82	U	ND	ND	Y	0.00	0.00
7.52	U	ND	ND	Y	0.00	0.00
7.42	U	ND	ND	Y	0.00	0.00
5.61	U	ND	ND	Y	0.00	0.00
6.99	U	ND	ND	Y	0.00	0.00
4.27	U	ND	ND	Y	0.00	0.00
13.68	J	J	=	Y	0.61	2.49
4.74	U	ND	ND	Y	0.00	0.00
3.93	U	ND	ND	Y	0.00	0.00
4.74	U	ND	ND	Y	0.00	0.00
5.69	U	ND	ND	Y	0.00	0.00
4.87	U	ND	ND	Y	0.00	0.00
13.68	U	ND	ND	Y	0.00	0.00
13.50	U	ND	ND	Y	0.00	0.00
4.87	U	ND	ND	Y	0.00	0.00
8.89	U	ND	ND	Y	0.00	0.00
8.02	U	ND	ND	Y	0.00	0.00
7.07	J	J	=	Y	0.43	2.90
4.80	U	ND	ND	Y	0.00	0.00
7.16	U	ND	ND	Y	0.00	0.00
4.53	U	ND	ND	Y	0.00	0.00
4.53	U	ND	ND	Y	0.00	0.00
5.47	U	ND	ND	Y	0.00	0.00
4.45	U	ND	ND	Y	0.00	0.00
10.78	U	ND	ND	Y	0.00	0.00
4.53	U	ND	ND	Y	0.00	0.00
14.32	U	ND	ND	Y	0.00	0.00
15.09	U	ND	ND	Y	0.00	0.00
12.80	U	ND	ND	Y	0.00	0.00
14.36	U	ND	ND	Y	0.00	0.00
14.36	U	ND	ND	Y	0.00	0.00
32.82	U	ND	ND	Y	0.00	0.00
18.46	U	ND	ND	Y	0.00	0.00
14.57	U	ND	ND	Y	0.00	0.00
13.74	U	ND	ND	Y	0.00	0.00
18.46	U	ND	ND	Y	0.00	0.00
13.74	U	ND	ND	Y	0.00	0.00
16.03	U	ND	ND	Y	0.00	0.00
20.07	U	ND	ND	Y	0.00	0.00
13.74	U	ND	ND	Y	0.00	0.00
10.80	U	ND	ND	Y	0.00	0.00
12.54	U	ND	ND	Y	0.00	0.00
13.74	U	ND	ND	Y	0.00	0.00
17.56	U	ND	ND	Y	0.00	0.00
28.23	U	ND	ND	Y	0.00	0.00
15.48	U	ND	ND	Y	0.00	0.00
2.19	U	ND	ND	Y	0.00	0.00
15.48	U	ND	ND	Y	0.00	0.00
13.35	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**49**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.25
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

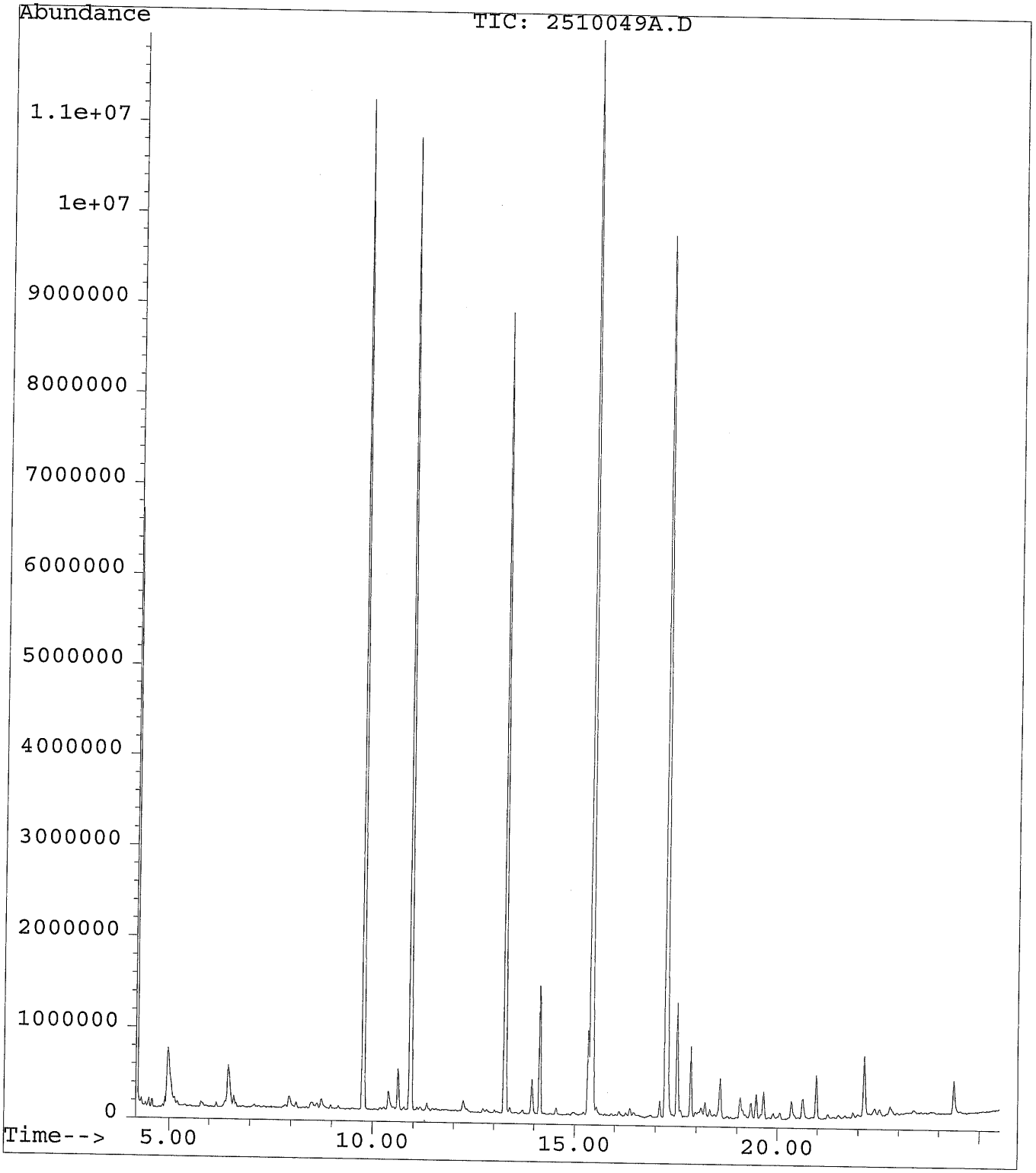
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	33140	20.0	10432606	0.258	1.08	1.85
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	10432606	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	2125735	20.0	10432606	3.706	15.44	20.24
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	10432606	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	10432606	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	10432606	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	10432606	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	10432606	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	10432606	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	27443	20.0	10432606	0.370	1.54	2.91
12	Acrolein	PFB	TRG	56.1	0.130	63127	20.0	10432606	0.934	3.89	8.94
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	10432606	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	348619	20.0	10432606	2.802	11.68	27.78
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	33855	20.0	10432606	0.065	0.27	0.67
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	10432606	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	10432606	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	10432606	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	10432606	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	10432606	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	10432606	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	10432606	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	10432606	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	10432606	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	10432606	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	10432606	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	10432606	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	10432606	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	10432606	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	42221	20.0	10432606	0.405	1.69	4.98
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	10432606	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	10432606	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	10432606	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	10432606	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	10432606	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	10432606	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	10432606	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	10432606	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	10432606	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	10432606	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	10432606	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	12277107	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	12277107	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	12277107	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	12277107	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	544245	20.0	12277107	0.826	3.44	11.01
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	12277107	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	12277107	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	0	20.0	12277107	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.395	0	20.0	12277107	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	12277107	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	12277107	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	12277107	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	12277107	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	12277107	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	12277107	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	45646	20.0	12277107	0.146	0.61	2.49
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	12277107	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	63979	20.0	12277107	0.069	0.29	1.09
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	12277107	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	12277107	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	12277107	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	12277107	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	12277107	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	12277107	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	12277107	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	12277107	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	46371	20.0	12277107	0.103	0.43	2.90
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	13122435	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	13122435	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	20566	20.0	13122435	0.018	0.07	0.32
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	30213	20.0	13122435	0.029	0.12	0.52
76	Nonane	d5CB	TRG	128.3	1.278	19244	20.0	13122435	0.023	0.10	0.50
77	Styrene	d5CB	TRG	104.2	1.106	32594	20.0	13122435	0.045	0.19	0.80
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	13122435	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	20312	20.0	13122435	0.019	0.08	0.34
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	13122435	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	13122435	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	13122435	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	13122435	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	13122435	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	0	20.0	13122435	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	0	20.0	13122435	0.000	0.00	0.00
87	Decane	d5CB	TRG	142.3	2.327	0	20.0	13122435	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	13122435	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	26736	20.0	13122435	0.020	0.08	0.41
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	13122435	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	13122435	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	13122435	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	179682	20.0	13122435	0.094	0.39	2.15
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	13122435	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	13122435	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	13122435	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	13122435	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	13122435	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	13122435	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	13122435	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	13122435	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	13122435	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	10432606	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	12277107	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	13122435	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9689913	10.0		12.839	128.39	128

File : C:\MSCHEM\1\DATA\04035A_C\2510049A.D
Operator : DA
Acquired : 3 Apr 125 3:43 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-313
Misc Info : SCHMIDT
Vial Number: 1



Sample Data Packages

SDG Number **225100**

Lab Id Number **50**

Client ID T-314

Analytical Method TO-15

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Analytical Report
Quantitation Report
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Sample Calculations
Instrument Quant Report
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 225100

Analytical Method: TO-15 **Laboratory ID: 50**

File Name: 2510050A.D **Date Sampled:** 03/21/25 **Time:** 10:38
Description: T-314 **Date Analyzed:** 04/03/25 **Time:**
Canister: 784 **Can Dilution Factor:** 1.25
QC_Batch: 040325-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.42	1.04	1.64	0.72	1.80	2.83	
75-71-8	Dichlorodifluoromethane	0.63	1.04	ND	3.09	5.16	ND	
67-56-1	Methanol	2.08	2.50	20.10	2.73	3.28	26.34	
74-87-3	Chloromethane	0.63	1.04	ND	1.29	2.15	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.42	1.04	ND	2.92	7.29	ND	
75-01-4	Vinyl chloride	0.21	1.04	ND	0.54	2.67	ND	
106-99-0	1,3-Butadiene	0.21	1.04	ND	0.46	2.31	ND	
74-83-9	Bromomethane	0.42	1.04	ND	1.62	4.05	ND	
75-00-3	Chloroethane	0.42	1.04	ND	1.10	2.75	ND	
64-17-5	Ethanol	2.08	13.38	ND	3.93	25.25	ND	
107-02-8	Acrolein	0.42	1.25	3.24	0.96	2.87	7.44	
75-69-4	Trichlorofluoromethane	0.42	1.04	ND	2.34	5.86	ND	
67-64-1	Acetone	2.08	2.50	20.52	4.96	5.95	48.82	
67-63-0	2-propanol (isopropylalcohol)	0.83	5.21	31.97	2.05	12.82	78.68	
75-65-0	t-Butyl alcohol	0.42	4.17	ND	1.26	12.64	ND	
4227-95-6	Methyl iodide	0.42	1.25	ND	2.44	7.32	ND	
75-35-4	1,1-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
107-13-1	Acrylonitrile	0.83	1.25	ND	1.81	2.72	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	1.04	ND	1.60	7.99	ND	
107-05-1	Allyl chloride	0.21	4.17	ND	0.65	13.05	ND	
75-09-2	Methylene chloride	0.21	1.04	ND	0.72	3.62	ND	
75-15-0	Carbon disulfide	0.42	1.04	ND	1.30	3.25	ND	
156-60-5	trans-1,2-Dichloroethene	0.21	0.83	ND	0.83	3.31	ND	
1634-04-4	Methyl tert butyl ether	0.42	0.83	ND	1.50	3.01	ND	
107-12-0	Propionitrile	1.04	1.67	ND	2.35	3.76	ND	
75-34-3	1,1-Dichloroethane	0.21	1.04	ND	0.84	4.22	ND	
637-92-3	Ethyl tert butyl ether	0.42	1.04	ND	1.74	4.36	ND	
108-05-4	Vinyl acetate	0.21	4.17	ND	0.73	14.69	ND	
78-93-3	2-Butanone (MEK)	0.42	1.25	2.11	1.23	3.69	6.23	
108-20-3	Diisopropyl ether	0.42	2.50	ND	1.74	10.46	ND	
110-54-3	Hexane	0.42	1.04	ND	1.47	3.68	ND	
126-98-7	Methacrylonitrile	0.42	1.04	ND	1.15	2.86	ND	
141-78-6	Ethyl acetate	0.42	1.04	ND	1.50	3.76	ND	
74-97-5	Bromochloromethane	0.21	1.04	ND	1.10	5.52	ND	
96-33-3	Methyl acrylate	0.42	2.08	ND	1.47	7.35	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.21	1.25	ND	0.62	3.69	ND	
78-83-1	Isobutyl alcohol	0.83	3.33	ND	2.53	10.12	ND	
156-59-2	cis-1,2-Dichloroethene	0.21	1.04	ND	0.83	4.13	ND	
594-20-7	2,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
67-66-3	Chloroform	0.21	1.04	ND	1.02	5.09	ND	
71-55-6	1,1,1-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
107-06-2	1,2-Dichloroethane	0.21	1.04	ND	0.84	4.22	ND	
563-58-6	1,1-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
110-82-7	Cyclohexane	0.21	1.04	ND	0.72	3.59	ND	
71-43-2	Benzene	1.46	2.08	3.35	4.66	6.66	10.72	
56-23-5	Carbon tetrachloride	0.21	1.04	ND	1.31	6.56	ND	
994-05-8	t-Amyl methyl ether	0.42	2.08	ND	1.74	8.72	ND	
540-84-1	2,2,4-Trimethylpentane	0.21	1.04	2.48	0.97	4.87	11.59	
142-82-5	n-Heptane	0.42	1.04	0.86	1.71	4.27	3.52	J
78-87-5	1,2-Dichloropropane	0.21	1.04	ND	0.96	4.82	ND	
123-91-1	1,4 Dioxane	0.42	2.08	ND	1.50	7.52	ND	
74-95-3	Dibromomethane	0.21	1.04	ND	1.48	7.42	ND	
79-01-6	Trichloroethene (TCE)	0.10	1.04	ND	0.56	5.61	ND	
75-27-4	Bromodichloromethane	0.21	1.04	ND	1.40	6.99	ND	
80-62-6	Methyl methacrylate	0.42	1.04	ND	1.71	4.27	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.42	3.33	ND	1.71	13.68	ND	
10061-01-5	cis-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
108-88-3	Toluene	0.83	1.04	1.33	3.14	3.93	5.00	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.04	ND	0.95	4.74	ND	
79-00-5	1,1,2-Trichloroethane	0.21	1.04	ND	1.14	5.69	ND	
97-63-2	Ethyl methacrylate	0.42	1.04	ND	1.95	4.87	ND	
591-78-6	2-Hexanone	0.42	3.33	ND	1.71	13.68	ND	
142-28-9	1,3-Dichloropropane	0.21	2.92	ND	0.96	13.50	ND	
111-65-9	Octane	0.42	1.04	ND	1.95	4.87	ND	
124-48-1	Dibromochloromethane	0.42	1.04	ND	3.55	8.89	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.42	1.04	ND	3.21	8.02	ND	
127-18-4	Tetrachloroethene (PCE)	0.10	1.04	2.50	0.71	7.07	16.96	
108-90-7	Chlorobenzene	0.42	1.04	ND	1.92	4.80	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.42	1.04	ND	2.86	7.16	ND	
100-41-4	Ethylbenzene	0.42	1.04	0.42	1.81	4.53	1.82	J
1330-20-7	m,p-Xylenes	0.42	1.04	1.82	1.81	4.53	7.91	
111-84-2	Nonane	0.42	1.04	17.44	2.19	5.47	91.64	
100-42-5	Styrene	0.63	1.04	ND	2.67	4.45	ND	
75-25-2	Bromoform	0.42	1.04	ND	4.31	10.78	ND	
95-47-6	o-Xylene	0.42	1.04	1.03	1.81	4.53	4.47	J
79-34-5	1,1,2,2-Tetrachloroethane	0.83	2.08	ND	5.73	14.32	ND	
96-18-4	1,2,3-Trichloropropane	0.83	2.50	ND	5.03	15.09	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.83	2.50	ND	4.27	12.80	ND	
103-65-1	n-Propylbenzene	0.83	2.92	ND	4.10	14.36	ND	
98-82-8	Isopropylbenzene	0.83	2.92	ND	4.10	14.36	ND	
622-96-8	4-Ethyltoluene	0.83	6.67	2.68	4.10	32.82	13.17	J
108-67-8	1,3,5-Trimethylbenzene	0.83	3.75	2.24	4.10	18.46	11.04	J
124-18-5	Decane	0.83	2.50	12.25	4.86	14.57	71.38	
98-06-6	tert-butyl benzene	0.83	2.50	ND	4.58	13.74	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.83	3.75	3.08	4.10	18.46	15.17	J
538-93-2	i-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
135-98-8	sec-butylbenzene	0.83	2.92	ND	4.58	16.03	ND	
541-73-1	1,3-Dichlorobenzene	0.83	3.33	ND	5.02	20.07	ND	
99-87-6	Isopropyltoluene	0.83	2.50	16.57	4.58	13.74	91.10	
100-44-7	Benzyl chloride	0.83	2.08	ND	4.32	10.80	ND	
106-46-7	1,4-Dichlorobenzene	0.83	2.08	ND	5.02	12.54	ND	
104-51-8	n-Butylbenzene	0.83	2.50	ND	4.58	13.74	ND	
95-50-1	1,2-Dichlorobenzene	0.83	2.92	ND	5.02	17.56	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.25	2.92	ND	12.10	28.23	ND	
120-82-1	1,2,4-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
91-20-3	Naphthalene	2.08	0.42	ND	10.94	2.19	ND	
87-61-6	1,2,3-Trichlorobenzene	1.25	2.08	ND	9.29	15.48	ND	
87-68-3	Hexachlorobutadiene	1.04	1.25	ND	11.13	13.35	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	129	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**225100**		
				EAS ID:	**50**		
File Name:	2510050A.D	**Method:**	**TO-15**	**Date Sampled:**	**03/21/25**	**Time:**	**10:38**
Sample ID:	T-314	**Matrix:**	**AA**	**Date Received:**	**03/21/25**	**Time:**	**14:30**
MiscInfo-Vol:	SCHMIDT	**Detect:**	**ND**	**Date Analyzed:**	**04/03/25**	**Time:**	**16:21**
Anal Date:	3 Apr 125 4:21 pm	**SF:**	**2**	**QCbatch:**	**040325-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**784**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.25**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	DA	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.5**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.394	4.41	42.00	48892
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	4.824	4.86	31.00	2676878
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.777	6.32	56.00	50851
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	4.924	6.42	58.00	592628
67-63-0	2-propanol (isopropylalcoh	15	TRG	7.672	6.45	45.00	3853970
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.506	8.75	72.00	51030
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.804	10.70	78.00	529421
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.595	11.25	57.00	734481
142-82-5	n-Heptane	51	TRG	0.206	11.48	71.00	49807
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.318	13.50	91.00	292647
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.600	14.69	166.00	270585
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.100	15.90	106	112884
1330-20-7	m,p-Xylenes	75	TRG	0.436	16.06	91.00	438726
111-84-2	Nonane	76	TRG	4.186	16.43	57.00	3382551
100-42-5	Styrene	77	TRG	0.105	16.61	104.00	73160
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.247	16.54	91.00	259015
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.642	18.23	105.00	880286
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.538	18.31	105.00	664124
124-18-5	Decane	87	TRG	2.940	18.60	57.00	4324276
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.740	18.95	105.00	963868
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	3.978	19.53	119.00	7330017
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**10092599**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**12261260**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**12644229**
2037-26-5	Toluene-d8	103	SURR	12.888	13.40	98.00	**9714414**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**2E+05**	EDD SURR:	PERCENT
Laboratory Number:	**50**	Sam Type:	SA
File Name:	2510050A.D	Instrument:	MA1
Run Method:	A1563_P.M	DETECT:	ND
Can Factor:	1.25	Matrix:	AA
Air Volume:	300.0 ml	Type:	TRG
Can/Tube Number:	784	Diluton:	0.3750
Dilution Factor:	0.3750	Sig Figs:	2
Base Volume:	1000 ml	MDLSF:	2
Unit Factor (ppbv):	1000 PPBV	UG/M3	

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.5

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed Result PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV
Propylene	42.08	0.39	1.64	2.83	1.64	2.83	2.83	2.83	0.100	0.250	0.42	0.72	1.04
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.63	3.09	1.04
Methanol	32.0	4.82	20.10	26.34	20.10	26.34	26.34	26.34	0.500	0.600	2.08	2.73	2.50
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.63	1.29	1.04
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.92	1.04
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.54	1.04
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.46	1.04
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.62	1.04
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.10	1.04
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	2.08	3.93	13.38
Acrolein	56.1	0.78	3.24	7.44	3.24	7.44	7.44	7.44	0.100	0.300	0.42	0.96	1.25
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.34	1.04
Acetone	58.1	4.92	20.52	48.82	20.52	48.82	48.82	48.82	0.500	0.600	2.08	4.96	2.50
2-propanol (isopropylalcohol)	60.1	7.67	31.97	78.68	31.97	78.68	78.68	78.68	0.200	1.250	0.83	2.05	5.21
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.42	1.26	4.17
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.42	2.44	1.25
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.83	1.04
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.83	1.81	1.25
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.60	1.04
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.65	4.17
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.72	1.04
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.30	1.04
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.21	0.83	0.83
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.42	1.50	0.83
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.04	2.35	1.67
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.04
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.74	1.04
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.21	0.73	4.17
2-Butanone (MEK)	72.1	0.51	2.11	6.23	2.11	6.23	6.23	6.23	0.100	0.300	0.42	1.23	1.25
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.42	1.74	2.50
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.47	1.04
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.15	1.04
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.50	1.04
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.10	1.04
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.47	2.08
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.21	0.62	1.25
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.83	2.53	3.33
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.83	1.04
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.04
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.02	1.04
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.14	1.04
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.84	1.04
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.04
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.72	1.04
Benzene	78.1	0.80	3.35	10.72	3.35	10.72	10.72	10.72	0.350	0.500	1.46	4.66	2.08
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.31	1.04
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.74	2.08
2,2,4-Trimethylpentane	114.2	0.59	2.48	11.59	2.48	11.59	11.59	11.59	0.050	0.250	0.21	0.97	1.04
n-Heptane	100.2	0.21	0.86	3.52	0.86	3.52	3.52	3.52	0.100	0.250	0.42	1.71	1.04

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.96	1.04
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.42	1.50	2.08
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.48	1.04
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.10	0.56	1.04
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.40	1.04
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.71	1.04
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.42	1.71	3.33
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.04
Toluene	92.1	0.32	1.33	5.00	1.33	5.00	5.00	5.00	0.200	0.250	0.83	3.14	1.04
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	0.95	1.04
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.21	1.14	1.04
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.95	1.04
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.42	1.71	3.33
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.21	0.96	2.92
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.95	1.04
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.55	1.04
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	3.21	1.04
Tetrachloroethene (PCE)	165.8	0.60	2.50	16.96	2.50	16.96	16.96	16.96	0.025	0.250	0.10	0.71	1.04
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	1.92	1.04
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	2.86	1.04
Ethylbenzene	106.2	0.10	0.42	1.82	0.42	1.82	1.82	1.82	0.100	0.250	0.42	1.81	1.04
m,p-Xylenes	106.2	0.44	1.82	7.91	1.82	7.91	7.91	7.91	0.100	0.250	0.42	1.81	1.04
Nonane	128.3	4.19	17.44	91.64	17.44	91.64	91.64	91.64	0.100	0.250	0.42	2.19	1.04
Styrene	104.2	0.10	0.44	1.86	ND	ND	0		0.150	0.250	0.63	2.67	1.04
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.42	4.31	1.04
o-Xylene	106.2	0.25	1.03	4.47	1.03	4.47	4.47	4.47	0.100	0.250	0.42	1.81	1.04
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.83	5.73	2.08
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	5.03	2.50
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.27	2.50
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.10	2.92
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.10	2.92
4-Ethyltoluene	120.2	0.64	2.68	13.17	2.68	13.17	13.17	13.17	0.200	1.600	0.83	4.10	6.67
1,3,5-Trimethylbenzene	120.2	0.54	2.24	11.04	2.24	11.04	11.04	11.04	0.200	0.900	0.83	4.10	3.75
Decane	142.3	2.94	12.25	71.38	12.25	71.38	71.38	71.38	0.200	0.600	0.83	4.86	2.50
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.58	2.50
1,2,4-Trimethylbenzene	120.2	0.74	3.08	15.17	3.08	15.17	15.17	15.17	0.200	0.900	0.83	4.10	3.75
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.58	2.50
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	4.58	2.92
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.83	5.02	3.33
Isopropyltoluene	134.2	3.98	16.57	91.10	16.57	91.10	91.10	91.10	0.200	0.600	0.83	4.58	2.50
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.83	4.32	2.08
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.83	5.02	2.08
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.83	4.58	2.50
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.83	5.02	2.92
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.25	12.10	2.92
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.25	9.29	2.08
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.08	10.94	0.42
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.25	9.29	2.08
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.04	11.13	1.25
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		12.89	129	129	129	129	129	129	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.80				=		Y	1.64	2.83
5.16	U	ND		ND		Y	0.00	0.00
3.28				=		Y	20.10	26.34
2.15	U	ND		ND		Y	0.00	0.00
7.29	U	ND		ND		Y	0.00	0.00
2.67	U	ND		ND		Y	0.00	0.00
2.31	U	ND		ND		Y	0.00	0.00
4.05	U	ND		ND		Y	0.00	0.00
2.75	U	ND		ND		Y	0.00	0.00
25.25	U	ND		ND		Y	0.00	0.00
2.87				=		Y	3.24	7.44
5.86	U	ND		ND		Y	0.00	0.00
5.95				=		Y	20.52	48.82
12.82				=		Y	31.97	78.68
12.64	U	ND		ND		Y	0.00	0.00
7.32	U	ND		ND		Y	0.00	0.00
4.13	U	ND		ND		Y	0.00	0.00
2.72	U	ND		ND		Y	0.00	0.00
7.99	U	ND		ND		Y	0.00	0.00
13.05	U	ND		ND		Y	0.00	0.00
3.62	U	ND		ND		Y	0.00	0.00
3.25	U	ND		ND		Y	0.00	0.00
3.31	U	ND		ND		Y	0.00	0.00
3.01	U	ND		ND		Y	0.00	0.00
3.76	U	ND		ND		Y	0.00	0.00
4.22	U	ND		ND		Y	0.00	0.00
4.36	U	ND		ND		Y	0.00	0.00
14.69	U	ND		ND		Y	0.00	0.00
3.69				=		Y	2.11	6.23
10.46	U	ND		ND		Y	0.00	0.00
3.68	U	ND		ND		Y	0.00	0.00
2.86	U	ND		ND		Y	0.00	0.00
3.76	U	ND		ND		Y	0.00	0.00
5.52	U	ND		ND		Y	0.00	0.00
7.35	U	ND		ND		Y	0.00	0.00
3.69	U	ND		ND		Y	0.00	0.00
10.12	U	ND		ND		Y	0.00	0.00
4.13	U	ND		ND		Y	0.00	0.00
4.82	U	ND		ND		Y	0.00	0.00
5.09	U	ND		ND		Y	0.00	0.00
5.69	U	ND		ND		Y	0.00	0.00
4.22	U	ND		ND		Y	0.00	0.00
4.74	U	ND		ND		Y	0.00	0.00
3.59	U	ND		ND		Y	0.00	0.00
6.66				=		Y	3.35	10.72
6.56	U	ND		ND		Y	0.00	0.00
8.72	U	ND		ND		Y	0.00	0.00
4.87				=		Y	2.48	11.59
4.27	J	J		=		Y	0.86	3.52

4.82	U	ND	ND	Y	0.00	0.00
7.52	U	ND	ND	Y	0.00	0.00
7.42	U	ND	ND	Y	0.00	0.00
5.61	U	ND	ND	Y	0.00	0.00
6.99	U	ND	ND	Y	0.00	0.00
4.27	U	ND	ND	Y	0.00	0.00
13.68	U	ND	ND	Y	0.00	0.00
4.74	U	ND	ND	Y	0.00	0.00
3.93			=	Y	1.33	5.00
4.74	U	ND	ND	Y	0.00	0.00
5.69	U	ND	ND	Y	0.00	0.00
4.87	U	ND	ND	Y	0.00	0.00
13.68	U	ND	ND	Y	0.00	0.00
13.50	U	ND	ND	Y	0.00	0.00
4.87	U	ND	ND	Y	0.00	0.00
8.89	U	ND	ND	Y	0.00	0.00
8.02	U	ND	ND	Y	0.00	0.00
7.07			=	Y	2.50	16.96
4.80	U	ND	ND	Y	0.00	0.00
7.16	U	ND	ND	Y	0.00	0.00
4.53	J	J	=	Y	0.42	1.82
4.53			=	Y	1.82	7.91
5.47			=	Y	17.44	91.64
4.45	U	ND	ND	Y	0.00	0.00
10.78	U	ND	ND	Y	0.00	0.00
4.53	J	J	=	Y	1.03	4.47
14.32	U	ND	ND	Y	0.00	0.00
15.09	U	ND	ND	Y	0.00	0.00
12.80	U	ND	ND	Y	0.00	0.00
14.36	U	ND	ND	Y	0.00	0.00
14.36	U	ND	ND	Y	0.00	0.00
32.82	J	J	=	Y	2.68	13.17
18.46	J	J	=	Y	2.24	11.04
14.57			=	Y	12.25	71.38
13.74	U	ND	ND	Y	0.00	0.00
18.46	J	J	=	Y	3.08	15.17
13.74	U	ND	ND	Y	0.00	0.00
16.03	U	ND	ND	Y	0.00	0.00
20.07	U	ND	ND	Y	0.00	0.00
13.74			=	Y	16.57	91.10
10.80	U	ND	ND	Y	0.00	0.00
12.54	U	ND	ND	Y	0.00	0.00
13.74	U	ND	ND	Y	0.00	0.00
17.56	U	ND	ND	Y	0.00	0.00
28.23	U	ND	ND	Y	0.00	0.00
15.48	U	ND	ND	Y	0.00	0.00
2.19	U	ND	ND	Y	0.00	0.00
15.48	U	ND	ND	Y	0.00	0.00
13.35	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**2E+05**
Laboratory Number:		**50**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.25
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\left|\frac{(Astdni)}{(Cstdni)}\right|\left|\frac{(Cistdi)}{(Aistdi)}\right|$ Note: 1 i

2) Raw Amt = $\frac{(Ansamp)}{(Avg\ RFn)} \times \frac{(Cistdi)}{(Aistdi)}$ = **Cn**

3) Amount ppbv = $\frac{(Raw\ Amt) \times 1000 \times (CDF)}{(SV)}$

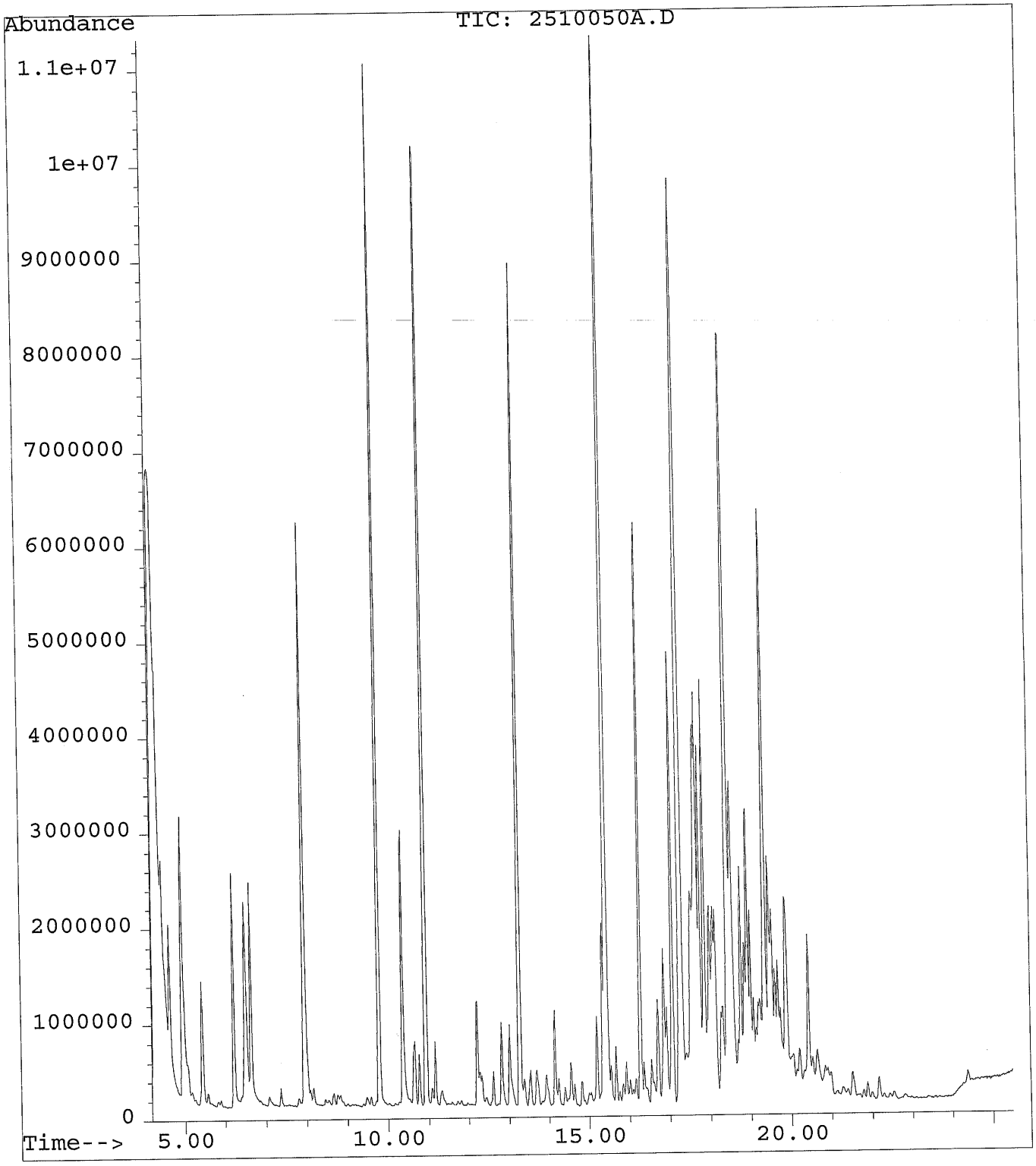
4) Amount ug/m3 = $\frac{(amt(ppbv) \times MW}{24.42}$

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.246	48892	20.0	10092599	0.394	1.64	2.83
3	Dichlorodifluoromethane	PFB	TRG	120.9	1.109	0	20.0	10092599	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	1.100	2676878	20.0	10092599	4.824	20.10	26.34
5	Chloromethane	PFB	TRG	50.5	0.391	0	20.0	10092599	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.898	0	20.0	10092599	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.389	0	20.0	10092599	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.339	0	20.0	10092599	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.318	0	20.0	10092599	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.192	0	20.0	10092599	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.142	0	20.0	10092599	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.130	50851	20.0	10092599	0.777	3.24	7.44
13	Trichlorofluoromethane	PFB	TRG	137.4	0.737	0	20.0	10092599	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.238	592628	20.0	10092599	4.924	20.52	48.82
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.996	3853970	20.0	10092599	7.672	31.97	78.68
16	t-Butyl alcohol	PFB	TRG	74.1	0.910	0	20.0	10092599	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.749	0	20.0	10092599	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.673	0	20.0	10092599	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.332	0	20.0	10092599	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.453	0	20.0	10092599	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.172	0	20.0	10092599	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.239	0	20.0	10092599	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.883	0	20.0	10092599	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.334	0	20.0	10092599	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	1.105	0	20.0	10092599	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.327	0	20.0	10092599	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.796	0	20.0	10092599	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	1.308	0	20.0	10092599	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.747	0	20.0	10092599	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.200	51030	20.0	10092599	0.506	2.11	6.23
31	Diisopropyl ether	PFB	TRG	102.2	0.270	0	20.0	10092599	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.739	0	20.0	10092599	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.219	0	20.0	10092599	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.771	0	20.0	10092599	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.803	0	20.0	10092599	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.497	0	20.0	10092599	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.213	0	20.0	10092599	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.081	0	20.0	10092599	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.374	0	20.0	10092599	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.774	0	20.0	10092599	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.715	0	20.0	10092599	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.658	0	20.0	12261260	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.600	0	20.0	12261260	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.549	0	20.0	12261260	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.593	0	20.0	12261260	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	1.074	529421	20.0	12261260	0.804	3.35	10.72
48	Carbon tetrachloride	14DF	TRG	153.8	0.437	0	20.0	12261260	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	1.421	0	20.0	12261260	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	2.015	734481	20.0	12261260	0.595	2.48	11.59
51	n-Heptane	14DF	TRG	100.2	0.395	49807	20.0	12261260	0.206	0.86	3.52
52	1,2-Dichloropropane	14DF	TRG	113.0	0.464	0	20.0	12261260	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.298	0	20.0	12261260	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.467	0	20.0	12261260	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.487	0	20.0	12261260	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.683	0	20.0	12261260	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.368	0	20.0	12261260	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.510	0	20.0	12261260	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.584	0	20.0	12261260	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.500	292647	20.0	12261260	0.318	1.33	5.00
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.587	0	20.0	12261260	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.373	0	20.0	12261260	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.700	0	20.0	12261260	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	0.852	0	20.0	12261260	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.878	0	20.0	12261260	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.593	0	20.0	12261260	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.752	0	20.0	12261260	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.932	0	20.0	12261260	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	0.736	270585	20.0	12261260	0.600	2.50	16.96
72	Chlorobenzene	d5CB	TRG	112.6	1.009	0	20.0	12644229	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.429	0	20.0	12644229	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.781	112884	20.0	12644229	0.100	0.42	1.82
75	m,p-Xylenes	d5CB	TRG	106.2	1.591	438726	20.0	12644229	0.436	1.82	7.91
76	Nonane	d5CB	TRG	128.3	1.278	3382551	20.0	12644229	4.186	17.44	91.64
77	Styrene	d5CB	TRG	104.2	1.106	73160	20.0	12644229	0.105	0.44	1.86
78	Bromoform	d5CB	TRG	252.7	0.671	0	20.0	12644229	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.662	259015	20.0	12644229	0.247	1.03	4.47
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.356	0	20.0	12644229	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.366	0	20.0	12644229	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.169	0	20.0	12644229	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	3.012	0	20.0	12644229	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.234	0	20.0	12644229	0.000	0.00	0.00

85	4-Ethyltoluene	d5CB	TRG	120.2	2.169	880286	20.0	12644229	0.642	2.68	13.17
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.952	664124	20.0	12644229	0.538	2.24	11.04
87	Decane	d5CB	TRG	142.3	2.327	4324276	20.0	12644229	2.940	12.25	71.38
88	tert-butyl benzene	d5CB	TRG	134.2	2.295	0	20.0	12644229	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	2.061	963868	20.0	12644229	0.740	3.08	15.17
90	i-Butylbenzene	d5CB	TRG	134.2	2.908	0	20.0	12644229	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	3.135	0	20.0	12644229	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	1.314	0	20.0	12644229	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.915	7330017	20.0	12644229	3.978	16.57	91.10
94	Benzyl chloride	d5CB	TRG	126.6	1.033	0	20.0	12644229	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	1.196	0	20.0	12644229	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	3.264	0	20.0	12644229	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	1.531	0	20.0	12644229	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.307	0	20.0	12644229	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.098	0	20.0	12644229	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.103	0	20.0	12644229	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.015	0	20.0	12644229	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	1.138	0	20.0	12644229	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	10092599	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	12261260	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	12644229	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9714414	10.0		12.888	128.88	129

File : C:\MSCHEM\1\DATA\04035A_C\2510050A.D
Operator : DA
Acquired : 3 Apr 125 4:21 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-314
Misc Info : SCHMIDT
Vial Number: 1



Method Blank Data Packages

Samples are analyzed in a Daily Analytical Batch (DAB) on an instrument. The DAB identifier is on each analytial report in the field called QC Batch. There will be one Method Blank QC Batch report for each DAB in this SDG.

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Analytical Report
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Sample Calculations
Chromatogram

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC
Laboratory ID: B03315

File Name: B03315D.D
Description: METHOD BLANK
Canister:
QC_Batch: 033125-MA1

Date Sampled:
Date Analyzed: 3/31/2025
Can Dilution Factor: 1.00
Air Volume: 200 ml

Time:
Time: 11:43

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.50	1.25	ND	0.86	2.15	ND	
75-71-8	Dichlorodifluoromethane	0.75	1.25	ND	3.71	6.19	ND	
67-56-1	Methanol	2.50	3.00	ND	3.28	3.93	ND	
74-87-3	Chloromethane	0.75	1.25	ND	1.55	2.59	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.50	1.25	ND	3.50	8.75	ND	
75-01-4	Vinyl chloride	0.25	1.25	ND	0.64	3.20	ND	
106-99-0	1,3-Butadiene	0.25	1.25	ND	0.56	2.77	ND	
74-83-9	Bromomethane	0.50	1.25	ND	1.94	4.86	ND	
75-00-3	Chloroethane	0.50	1.25	ND	1.32	3.30	ND	
64-17-5	Ethanol	2.50	16.05	ND	4.72	30.30	ND	
107-02-8	Acrolein	0.50	1.50	ND	1.15	3.45	ND	
75-69-4	Trichlorofluoromethane	0.50	1.25	ND	2.81	7.03	ND	
67-64-1	Acetone	2.50	3.00	ND	5.95	7.14	ND	
67-63-0	2-propanol (isopropylalcohol)	1.00	6.25	ND	2.46	15.38	ND	
75-65-0	t-Butyl alcohol	0.50	5.00	ND	1.52	15.17	ND	
4227-95-6	Methyl iodide	0.50	1.50	ND	2.93	8.78	ND	
75-35-4	1,1-Dichloroethene	0.25	1.25	ND	0.99	4.96	ND	
107-13-1	Acrylonitrile	1.00	1.50	ND	2.17	3.26	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	1.25	ND	1.92	9.59	ND	
107-05-1	Allyl chloride	0.25	5.00	ND	0.78	15.67	ND	
75-09-2	Methylene chloride	0.25	1.25	ND	0.87	4.35	ND	
75-15-0	Carbon disulfide	0.50	1.25	ND	1.56	3.90	ND	
156-60-5	trans-1,2-Dichloroethene	0.25	1.00	ND	0.99	3.97	ND	
1634-04-4	Methyl tert butyl ether	0.50	1.00	ND	1.80	3.61	ND	
107-12-0	Propionitrile	1.25	2.00	ND	2.82	4.51	ND	
75-34-3	1,1-Dichloroethane	0.25	1.25	ND	1.01	5.07	ND	
637-92-3	Ethyl tert butyl ether	0.50	1.25	ND	2.09	5.23	ND	
108-05-4	Vinyl acetate	0.25	5.00	ND	0.88	17.63	ND	
78-93-3	2-Butanone (MEK)	0.50	1.50	ND	1.48	4.43	ND	
108-20-3	Diisopropyl ether	0.50	3.00	ND	2.09	12.56	ND	
110-54-3	Hexane	0.50	1.25	ND	1.77	4.41	ND	
126-98-7	Methacrylonitrile	0.50	1.25	ND	1.37	3.44	ND	
141-78-6	Ethyl acetate	0.50	1.25	ND	1.80	4.51	ND	
74-97-5	Bromochloromethane	0.25	1.25	ND	1.32	6.62	ND	
96-33-3	Methyl acrylate	0.50	2.50	ND	1.76	8.82	ND	
109-99-9	Tetrahydrofuran	0.25	1.50	ND	0.74	4.43	ND	
78-83-1	Isobutyl alcohol	1.00	4.00	ND	3.03	12.14	ND	
156-59-2	cis-1,2-Dichloroethene	0.25	1.25	ND	0.99	4.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
594-20-7	2,2-Dichloropropane	0.25	1.25	ND	1.16	5.78	ND	
67-66-3	Chloroform	0.25	1.25	ND	1.23	6.11	ND	
71-55-6	1,1,1-Trichloroethane	0.25	1.25	ND	1.37	6.83	ND	
107-06-2	1,2-Dichloroethane	0.25	1.25	ND	1.01	5.07	ND	
563-58-6	1,1-Dichloropropene	0.25	1.25	ND	1.14	5.68	ND	
110-82-7	Cyclohexane	0.25	1.25	ND	0.86	4.31	ND	
71-43-2	Benzene	1.75	2.50	ND	5.60	8.00	ND	
56-23-5	Carbon tetrachloride	0.25	1.25	ND	1.57	7.87	ND	
994-05-8	t-Amyl methyl ether	0.50	2.50	ND	2.09	10.46	ND	
540-84-1	2,2,4-Trimethylpentane	0.25	1.25	ND	1.17	5.85	ND	
142-82-5	n-Heptane	0.50	1.25	ND	2.05	5.13	ND	
78-87-5	1,2-Dichloropropane	0.25	1.25	ND	1.16	5.78	ND	
123-91-1	1,4 Dioxane	0.50	2.50	ND	1.80	9.02	ND	
74-95-3	Dibromomethane	0.25	1.25	ND	1.78	8.90	ND	
79-01-6	Trichloroethene (TCE)	0.13	1.25	ND	0.67	6.73	ND	
75-27-4	Bromodichloromethane	0.25	1.25	ND	1.68	8.39	ND	
80-62-6	Methyl methacrylate	0.50	1.25	ND	2.05	5.12	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.50	4.00	ND	2.05	16.41	ND	
10061-01-5	cis-1,3-Dichloropropene	0.25	1.25	ND	1.14	5.68	ND	
108-88-3	Toluene	1.00	1.25	ND	3.77	4.71	ND	
10061-02-6	trans-1,3-Dichloropropene	0.25	1.25	ND	1.14	5.68	ND	
79-00-5	1,1,2-Trichloroethane	0.25	1.25	ND	1.37	6.83	ND	
97-63-2	Ethyl methacrylate	0.50	1.25	ND	2.34	5.85	ND	
591-78-6	2-Hexanone	0.50	4.00	ND	2.05	16.41	ND	
142-28-9	1,3-Dichloropropane	0.25	3.50	ND	1.16	16.20	ND	
111-65-9	Octane	0.50	1.25	ND	2.34	5.85	ND	
124-48-1	Dibromochloromethane	0.50	1.25	ND	4.27	10.66	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.50	1.25	ND	3.85	9.62	ND	
127-18-4	Tetrachloroethene (PCE)	0.13	1.25	ND	0.85	8.49	ND	
108-90-7	Chlorobenzene	0.50	1.25	ND	2.31	5.76	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.50	1.25	ND	3.44	8.59	ND	
100-41-4	Ethylbenzene	0.50	1.25	ND	2.17	5.44	ND	
1330-20-7	m,p-Xylenes	0.50	1.25	ND	2.17	5.44	ND	
111-84-2	Nonane	0.50	1.25	ND	2.63	6.57	ND	
100-42-5	Styrene	0.75	1.25	ND	3.20	5.33	ND	
75-25-2	Bromoform	0.50	1.25	ND	5.17	12.94	ND	
95-47-6	o-Xylene	0.50	1.25	ND	2.17	5.44	ND	
79-34-5	1,1,2,2-Tetrachloroethane	1.00	2.50	ND	6.87	17.18	ND	
96-18-4	1,2,3-Trichloropropane	1.00	3.00	ND	6.04	18.11	ND	
110-57-6	t-1,4-Dichloro-2-butene	1.00	3.00	ND	5.12	15.36	ND	
103-65-1	n-Propylbenzene	1.00	3.50	ND	4.92	17.23	ND	
98-82-8	Isopropylbenzene	1.00	3.50	ND	4.92	17.23	ND	
622-96-8	4-Ethyltoluene	1.00	8.00	ND	4.92	39.38	ND	
108-67-8	1,3,5-Trimethylbenzene	1.00	4.50	ND	4.92	22.15	ND	
124-18-5	Decane	1.00	3.00	ND	5.83	17.48	ND	
98-06-6	tert-butyl benzene	1.00	3.00	ND	5.50	16.49	ND	
95-63-6	1,2,4-Trimethylbenzene	1.00	4.50	ND	4.92	22.15	ND	
538-93-2	i-Butylbenzene	1.00	3.00	ND	5.50	16.49	ND	
135-98-8	sec-butylbenzene	1.00	3.50	ND	5.50	19.24	ND	
541-73-1	1,3-Dichlorobenzene	1.00	4.00	ND	6.02	24.08	ND	
99-87-6	Isopropyltoluene	1.00	3.00	ND	5.50	16.49	ND	
100-44-7	Benzyl chloride	1.00	2.50	ND	5.18	12.96	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
106-46-7	1,4-Dichlorobenzene	1.00	2.50	ND	6.02	15.05	ND	
104-51-8	n-Butylbenzene	1.00	3.00	ND	5.50	16.49	ND	
95-50-1	1,2-Dichlorobenzene	1.00	3.50	ND	6.02	21.07	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.50	3.50	ND	14.52	33.87	ND	
120-82-1	1,2,4-Trichlorobenzene	1.50	2.50	ND	11.14	18.57	ND	
91-20-3	Naphthalene	2.50	0.50	ND	13.13	2.63	ND	
87-61-6	1,2,3-Trichlorobenzene	1.50	2.50	ND	11.14	18.57	ND	
87-68-3	Hexachlorobutadiene	1.25	1.50	ND	13.35	16.02	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	98	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**LABQC**		
				EAS ID:	**B03315**		
File Name:	B03315D.D	**Method:**	**TO-15**	**Date Sampled:**	**NA**	**Time:**	**NA**
Sample ID:	METHOD BLANK	**Matrix:**	**AA**	**Date Received:**	**NA**	**Time:**	**NA**
MiscInfo-Vol:		**Detect:**	**ND**	**Date Analyzed:**	**3/31/2025**	**Time:**	**11:43**
Anal Date:	31 Mar 125 11:43 am	**SF:**	**2**	**QCbatch:**	**033125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**200.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**NA**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.00**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**MB**		
Analyst:	MM	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.000	4.41	42.00	0
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.031	4.86	31.00	18754
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroethar	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	0.171	6.42	58.00	22660
67-63-0	2-propanol (isopropylalcohc	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroethar	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.186	10.70	78.00	138507
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MIB	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.028	13.50	91.00	29574
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.052	13.63	69.00	24986
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.018	15.90	106	24649
1330-20-7	m,p-Xylenes	75	TRG	0.000	16.06	91.00	0
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.026	16.61	104.00	21658
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	0.00	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.009	18.23	105.00	22425
622-96-8	4-Ethyltoluene	85	TRG	0.014	18.23	105.00	22425
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.015	18.31	105.00	22425
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.015	18.95	105.00	23084
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.024	19.39	146.00	24003
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
106-46-7	1,4-Dichlorobenzene	95	TRG	0.026	19.39	146.00	24003
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.023	20.07	146.00	26691
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.255	23.23	128.00	20110
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**11109217**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**13862194**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15304673**
2037-26-5	Toluene-d8	103	SURR	9.828	13.40	98.00	**8374971**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**LABQC**
Laboratory Number:	**B03315**
File Name:	B03315D.D
Run Method:	A1563_P.M
Can Factor:	1.00
Air Volume:	200.0 ml
Can/Tube Number:	NA
Dilution Factor:	0.2000
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	MB
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.2000
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed ResultV PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV	Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
Propylene	42.08	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.50	0.86	1.25	2.15	U	ND		ND		Y	0.00	0.00
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.75	3.71	1.25	6.19	U	ND		ND		Y	0.00	0.00
Methanol	32.0	0.03	0.15	0.20	ND	ND	0		0.500	0.600	2.50	3.28	3.00	3.93	U	ND		ND		Y	0.00	0.00
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.75	1.55	1.25	2.59	U	ND		ND		Y	0.00	0.00
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.50	3.50	1.25	8.75	U	ND		ND		Y	0.00	0.00
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	0.64	1.25	3.20	U	ND		ND		Y	0.00	0.00
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	0.56	1.25	2.77	U	ND		ND		Y	0.00	0.00
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.50	1.94	1.25	4.86	U	ND		ND		Y	0.00	0.00
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.50	1.32	1.25	3.30	U	ND		ND		Y	0.00	0.00
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	2.50	4.72	16.05	30.30	U	ND		ND		Y	0.00	0.00
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.50	1.15	1.50	3.45	U	ND		ND		Y	0.00	0.00
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.50	2.81	1.25	7.03	U	ND		ND		Y	0.00	0.00
Acetone	58.1	0.17	0.86	2.04	ND	ND	0		0.500	0.600	2.50	5.95	3.00	7.14	U	ND		ND		Y	0.00	0.00
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		0.200	1.250	1.00	2.46	6.25	15.38	U	ND		ND		Y	0.00	0.00
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.50	1.52	5.00	15.17	U	ND		ND		Y	0.00	0.00
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.50	2.93	1.50	8.78	U	ND		ND		Y	0.00	0.00
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	0.99	1.25	4.96	U	ND		ND		Y	0.00	0.00
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	1.00	2.17	1.50	3.26	U	ND		ND		Y	0.00	0.00
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.92	1.25	9.59	U	ND		ND		Y	0.00	0.00
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.25	0.78	5.00	15.67	U	ND		ND		Y	0.00	0.00
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	0.87	1.25	4.35	U	ND		ND		Y	0.00	0.00
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.50	1.56	1.25	3.90	U	ND		ND		Y	0.00	0.00
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.25	0.99	1.00	3.97	U	ND		ND		Y	0.00	0.00
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.50	1.80	1.00	3.61	U	ND		ND		Y	0.00	0.00
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	1.25	2.82	2.00	4.51	U	ND		ND		Y	0.00	0.00
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.01	1.25	5.07	U	ND		ND		Y	0.00	0.00
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.50	2.09	1.25	5.23	U	ND		ND		Y	0.00	0.00
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.25	0.88	5.00	17.63	U	ND		ND		Y	0.00	0.00
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.50	1.48	1.50	4.43	U	ND		ND		Y	0.00	0.00
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.50	2.09	3.00	12.56	U	ND		ND		Y	0.00	0.00
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.50	1.77	1.25	4.41	U	ND		ND		Y	0.00	0.00
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.50	1.37	1.25	3.44	U	ND		ND		Y	0.00	0.00
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.50	1.80	1.25	4.51	U	ND		ND		Y	0.00	0.00
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.32	1.25	6.62	U	ND		ND		Y	0.00	0.00

Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0	0.100	0.500	0.50	1.76	2.50	8.82	U	ND	ND	Y	0.00	0.00
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0	0.050	0.300	0.25	0.74	1.50	4.43	U	ND	ND	Y	0.00	0.00
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0	0.200	0.800	1.00	3.03	4.00	12.14	U	ND	ND	Y	0.00	0.00
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.25	0.99	1.25	4.96	U	ND	ND	Y	0.00	0.00
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.25	1.16	1.25	5.78	U	ND	ND	Y	0.00	0.00
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.25	1.23	1.25	6.11	U	ND	ND	Y	0.00	0.00
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.25	1.37	1.25	6.83	U	ND	ND	Y	0.00	0.00
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.25	1.01	1.25	5.07	U	ND	ND	Y	0.00	0.00
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.25	1.14	1.25	5.68	U	ND	ND	Y	0.00	0.00
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.25	0.86	1.25	4.31	U	ND	ND	Y	0.00	0.00
Benzene	78.1	0.19	0.93	2.98	ND	ND	0	0.350	0.500	1.75	5.60	2.50	8.00	U	ND	ND	Y	0.00	0.00
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.25	1.57	1.25	7.87	U	ND	ND	Y	0.00	0.00
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0	0.100	0.500	0.50	2.09	2.50	10.46	U	ND	ND	Y	0.00	0.00
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.25	1.17	1.25	5.85	U	ND	ND	Y	0.00	0.00
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.50	2.05	1.25	5.13	U	ND	ND	Y	0.00	0.00
1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.25	1.16	1.25	5.78	U	ND	ND	Y	0.00	0.00
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0	0.100	0.500	0.50	1.80	2.50	9.02	U	ND	ND	Y	0.00	0.00
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.25	1.78	1.25	8.90	U	ND	ND	Y	0.00	0.00
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0	0.025	0.250	0.13	0.67	1.25	6.73	U	ND	ND	Y	0.00	0.00
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.25	1.68	1.25	8.39	U	ND	ND	Y	0.00	0.00
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.50	2.05	1.25	5.12	U	ND	ND	Y	0.00	0.00
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0	0.100	0.800	0.50	2.05	4.00	16.41	U	ND	ND	Y	0.00	0.00
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.25	1.14	1.25	5.68	U	ND	ND	Y	0.00	0.00
Toluene	92.1	0.03	0.14	0.54	ND	ND	0	0.200	0.250	1.00	3.77	1.25	4.71	U	ND	ND	Y	0.00	0.00
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.25	1.14	1.25	5.68	U	ND	ND	Y	0.00	0.00
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.25	1.37	1.25	6.83	U	ND	ND	Y	0.00	0.00
Ethyl methacrylate	114.2	0.05	0.26	1.20	ND	ND	0	0.100	0.250	0.50	2.34	1.25	5.85	U	ND	ND	Y	0.00	0.00
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0	0.100	0.800	0.50	2.05	4.00	16.41	U	ND	ND	Y	0.00	0.00
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0	0.050	0.700	0.25	1.16	3.50	16.20	U	ND	ND	Y	0.00	0.00
Octane	114.2	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.50	2.34	1.25	5.85	U	ND	ND	Y	0.00	0.00
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.50	4.27	1.25	10.66	U	ND	ND	Y	0.00	0.00
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.50	3.85	1.25	9.62	U	ND	ND	Y	0.00	0.00
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0	0.025	0.250	0.13	0.85	1.25	8.49	U	ND	ND	Y	0.00	0.00
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.50	2.31	1.25	5.76	U	ND	ND	Y	0.00	0.00
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.50	3.44	1.25	8.59	U	ND	ND	Y	0.00	0.00
Ethylbenzene	106.2	0.02	0.09	0.39	ND	ND	0	0.100	0.250	0.50	2.17	1.25	5.44	U	ND	ND	Y	0.00	0.00
m,p-Xylenes	106.2	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.50	2.17	1.25	5.44	U	ND	ND	Y	0.00	0.00
Nonane	128.3	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.50	2.63	1.25	6.57	U	ND	ND	Y	0.00	0.00
Styrene	104.2	0.03	0.13	0.55	ND	ND	0	0.150	0.250	0.75	3.20	1.25	5.33	U	ND	ND	Y	0.00	0.00
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.50	5.17	1.25	12.94	U	ND	ND	Y	0.00	0.00
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.50	2.17	1.25	5.44	U	ND	ND	Y	0.00	0.00
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0	0.200	0.500	1.00	6.87	2.50	17.18	U	ND	ND	Y	0.00	0.00
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0	0.200	0.600	1.00	6.04	3.00	18.11	U	ND	ND	Y	0.00	0.00
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0	0.200	0.600	1.00	5.12	3.00	15.36	U	ND	ND	Y	0.00	0.00
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0	0.200	0.700	1.00	4.92	3.50	17.23	U	ND	ND	Y	0.00	0.00
Isopropylbenzene	120.2	0.01	0.05	0.22	ND	ND	0	0.200	0.700	1.00	4.92	3.50	17.23	U	ND	ND	Y	0.00	0.00
4-Ethyltoluene	120.2	0.01	0.07	0.33	ND	ND	0	0.200	1.600	1.00	4.92	8.00	39.38	U	ND	ND	Y	0.00	0.00
1,3,5-Trimethylbenzene	120.2	0.02	0.08	0.37	ND	ND	0	0.200	0.900	1.00	4.92	4.50	22.15	U	ND	ND	Y	0.00	0.00
Decane	142.3	0.00	0.00	0.00	ND	ND	0	0.200	0.600	1.00	5.83	3.00	17.48	U	ND	ND	Y	0.00	0.00
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0	0.200	0.600	1.00	5.50	3.00	16.49	U	ND	ND	Y	0.00	0.00
1,2,4-Trimethylbenzene	120.2	0.01	0.07	0.36	ND	ND	0	0.200	0.900	1.00	4.92	4.50	22.15	U	ND	ND	Y	0.00	0.00
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0	0.200	0.600	1.00	5.50	3.00	16.49	U	ND	ND	Y	0.00	0.00

sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	1.00	5.50	3.50	19.24	U	ND	ND	Y	0.00	0.00
1,3-Dichlorobenzene	147.0	0.02	0.12	0.72	ND	ND	0		0.200	0.800	1.00	6.02	4.00	24.08	U	ND	ND	Y	0.00	0.00
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	1.00	5.50	3.00	16.49	U	ND	ND	Y	0.00	0.00
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	1.00	5.18	2.50	12.96	U	ND	ND	Y	0.00	0.00
1,4-Dichlorobenzene	147.0	0.03	0.13	0.79	ND	ND	0		0.200	0.500	1.00	6.02	2.50	15.05	U	ND	ND	Y	0.00	0.00
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	1.00	5.50	3.00	16.49	U	ND	ND	Y	0.00	0.00
1,2-Dichlorobenzene	147.0	0.02	0.11	0.69	ND	ND	0		0.200	0.700	1.00	6.02	3.50	21.07	U	ND	ND	Y	0.00	0.00
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.50	14.52	3.50	33.87	U	ND	ND	Y	0.00	0.00
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.50	11.14	2.50	18.57	U	ND	ND	Y	0.00	0.00
Naphthalene	128.2	0.26	1.28	6.71	ND	ND	0		0.500	0.100	2.50	13.13	0.50	2.63	U	ND	ND	Y	0.00	0.00
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.50	11.14	2.50	18.57	U	ND	ND	Y	0.00	0.00
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.25	13.35	1.50	16.02	U	ND	ND	Y	0.00	0.00
Pentafluorobenzene		20.00							20.0	20.0							=	Y		
1,4-Difluorobenzene		20.00							20.0	20.0							=	Y		
Chlorobenzene-d5		20.00							20.0	20.0							=	Y		
Toluene-d8		9.83	98	98	98	98	98	98	10.0	10.0							=	Y		
0																				
0																				
0																				

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**LABQC**	
Laboratory Number:		**B03315**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	200	ml
Can Dilution Factor	CDF	1.00	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) / (Avg RFn) × (Cistdi) / (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) × 1000 / (SV) × (CDF)

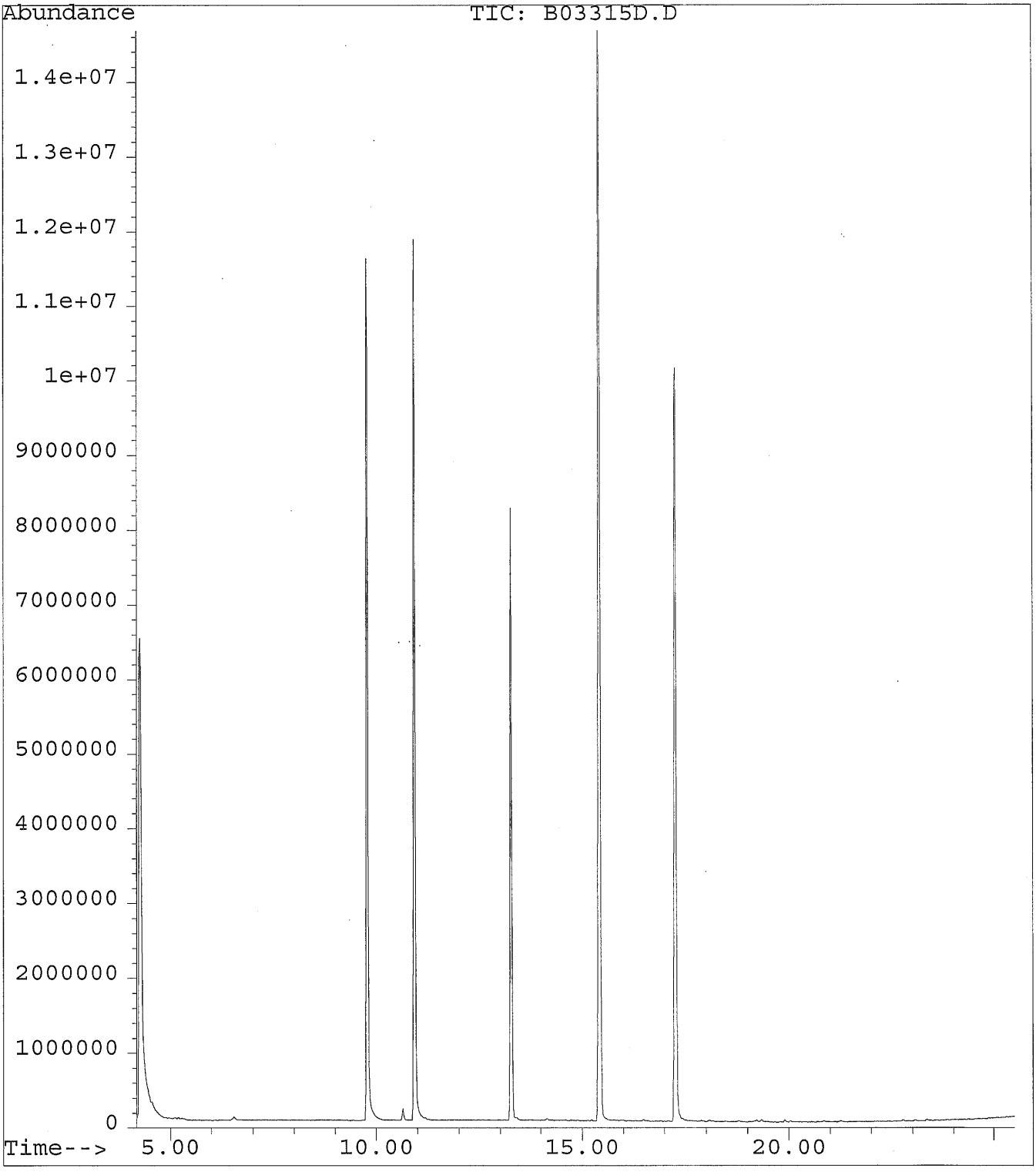
4) Amount ug/m3 = (amt(ppbv) × MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	Cn ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.077	0	20.0	11109217	0.000	0.00	0.00
3	Dichlorodifluoromethane	PFB	TRG	120.9	0.388	0	20.0	11109217	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	0.325	18754	20.0	11109217	0.031	0.15	0.20
5	Chloromethane	PFB	TRG	50.5	0.125	0	20.0	11109217	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.338	0	20.0	11109217	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.154	0	20.0	11109217	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.136	0	20.0	11109217	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.175	0	20.0	11109217	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.080	0	20.0	11109217	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.013	0	20.0	11109217	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.057	0	20.0	11109217	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.349	0	20.0	11109217	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.109	22660	20.0	11109217	0.171	0.86	2.04
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.402	0	20.0	11109217	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.524	0	20.0	11109217	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.638	0	20.0	11109217	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.299	0	20.0	11109217	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.127	0	20.0	11109217	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.400	0	20.0	11109217	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.111	0	20.0	11109217	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.132	0	20.0	11109217	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.400	0	20.0	11109217	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.208	0	20.0	11109217	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	0.433	0	20.0	11109217	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.147	0	20.0	11109217	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.326	0	20.0	11109217	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	0.429	0	20.0	11109217	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.076	0	20.0	11109217	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.110	0	20.0	11109217	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.141	0	20.0	11109217	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.286	0	20.0	11109217	0.000	0.00	0.00
33	Methacrylonitrile	PFB	TRG	67.1	0.099	0	20.0	11109217	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.350	0	20.0	11109217	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.316	0	20.0	11109217	0.000	0.00	0.00

36	Methyl acrylate	PFB	TRG	86.1	0.208	0	20.0	11109217	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.123	0	20.0	11109217	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.059	0	20.0	11109217	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.239	0	20.0	11109217	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.284	0	20.0	11109217	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.339	0	20.0	11109217	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DFB	TRG	133.4	0.477	0	20.0	13862194	0.000	0.00	0.00
44	1,2-Dichloroethane	14DFB	TRG	99.0	0.376	0	20.0	13862194	0.000	0.00	0.00
45	1,1-Dichloropropene	14DFB	TRG	111.0	0.398	0	20.0	13862194	0.000	0.00	0.00
46	Cyclohexane	14DFB	TRG	84.2	0.364	0	20.0	13862194	0.000	0.00	0.00
47	Benzene	14DFB	TRG	78.1	0.823	138507	20.0	13862194	0.186	0.93	2.98
48	Carbon tetrachloride	14DFB	TRG	153.8	0.366	0	20.0	13862194	0.000	0.00	0.00
49	t-Amyl methyl ether	14DFB	TRG	102.2	0.938	0	20.0	13862194	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DFB	TRG	114.2	1.306	0	20.0	13862194	0.000	0.00	0.00
51	n-Heptane	14DFB	TRG	100.2	0.276	0	20.0	13862194	0.000	0.00	0.00
52	1,2-Dichloropropane	14DFB	TRG	113.0	0.312	0	20.0	13862194	0.000	0.00	0.00
53	1,4 Dioxane	14DFB	TRG	88.1	0.337	0	20.0	13862194	0.000	0.00	0.00
54	Dibromomethane	14DFB	TRG	173.8	0.984	0	20.0	13862194	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DFB	TRG	131.4	0.699	0	20.0	13862194	0.000	0.00	0.00
56	Bromodichloromethane	14DFB	TRG	163.8	0.413	0	20.0	13862194	0.000	0.00	0.00
57	Methyl methacrylate	14DFB	TRG	100.1	0.241	0	20.0	13862194	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DFB	TRG	100.2	0.434	0	20.0	13862194	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DFB	TRG	111.0	0.357	0	20.0	13862194	0.000	0.00	0.00
61	Toluene	14DFB	TRG	92.1	1.215	29574	20.0	13862194	0.028	0.14	0.54
62	trans-1,3-Dichloropropene	14DFB	TRG	111.0	0.346	0	20.0	13862194	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DFB	TRG	133.4	0.246	0	20.0	13862194	0.000	0.00	0.00
64	Ethyl methacrylate	14DFB	TRG	114.2	0.481	24986	20.0	13862194	0.052	0.26	1.20
65	2-Hexanone	14DFB	TRG	100.2	0.784	0	20.0	13862194	0.000	0.00	0.00
66	1,3-Dichloropropane	14DFB	TRG	113.0	0.677	0	20.0	13862194	0.000	0.00	0.00
67	Octane	14DFB	TRG	114.2	0.387	0	20.0	13862194	0.000	0.00	0.00
68	Dibromochloromethane	14DFB	TRG	208.3	0.711	0	20.0	13862194	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DFB	TRG	187.9	0.842	0	20.0	13862194	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DFB	TRG	165.8	1.398	0	20.0	13862194	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.145	0	20.0	15304673	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.488	0	20.0	15304673	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.497	24649	20.0	15304673	0.018	0.09	0.39
75	m,p-Xylenes	d5CB	TRG	106.2	1.297	0	20.0	15304673	0.000	0.00	0.00
76	Nonane	d5CB	TRG	128.3	0.575	0	20.0	15304673	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.008	21658	20.0	15304673	0.026	0.13	0.55
78	Bromoform	d5CB	TRG	252.7	0.957	0	20.0	15304673	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.314	0	20.0	15304673	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.186	0	20.0	15304673	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.502	0	20.0	15304673	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.081	0	20.0	15304673	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	2.144	0	20.0	15304673	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.882	22425	20.0	15304673	0.009	0.05	0.22
85	4-Ethyltoluene	d5CB	TRG	120.2	1.613	22425	20.0	15304673	0.014	0.07	0.33
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.810	22425	20.0	15304673	0.015	0.08	0.37
87	Decane	d5CB	TRG	142.3	0.882	0	20.0	15304673	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.678	0	20.0	15304673	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	1.453	23084	20.0	15304673	0.015	0.07	0.36
90	i-Butylbenzene	d5CB	TRG	134.2	1.786	0	20.0	15304673	0.000	0.00	0.00

91	sec-butylbenzene	d5CB	TRG	134.2	2.164	0	20.0	15304673	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	2.201	24003	20.0	15304673	0.024	0.12	0.72
93	Isopropyltoluene	d5CB	TRG	134.2	2.356	0	20.0	15304673	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	0.660	0	20.0	15304673	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	2.004	24003	20.0	15304673	0.026	0.13	0.79
96	n-Butylbenzene	d5CB	TRG	134.2	2.242	0	20.0	15304673	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	2.676	26691	20.0	15304673	0.023	0.11	0.69
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.196	0	20.0	15304673	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.750	0	20.0	15304673	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.424	20110	20.0	15304673	0.255	1.28	6.71
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.175	0	20.0	15304673	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	3.485	0	20.0	15304673	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	11109217	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	13862194	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15304673	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	8374971	10.0		9.828	98.28	98

File : C:\MSCHEM\1\DATA\03315A\B03315D.D
Operator : MM
Acquired : 31 Mar 125 11:43 am using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: METHOD BLANK
Misc Info :
Vial Number: 1



METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC
Laboratory ID: B04015

File Name: B04015D.D
Description: METHOD BLANK
Canister:
QC_Batch: 040125-MA1

Date Sampled:
Date Analyzed: 4/1/2025
Can Dilution Factor: 1.00
Air Volume: 300 ml

Time:
Time: 12:10

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.33	0.83	ND	0.57	1.44	ND	
75-71-8	Dichlorodifluoromethane	0.50	0.83	ND	2.48	4.13	ND	
67-56-1	Methanol	1.67	2.00	ND	2.18	2.62	ND	
74-87-3	Chloromethane	0.50	0.83	ND	1.03	1.72	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.33	0.83	ND	2.33	5.83	ND	
75-01-4	Vinyl chloride	0.17	0.83	ND	0.43	2.13	ND	
106-99-0	1,3-Butadiene	0.17	0.83	ND	0.37	1.85	ND	
74-83-9	Bromomethane	0.33	0.83	ND	1.30	3.24	ND	
75-00-3	Chloroethane	0.33	0.83	ND	0.88	2.20	ND	
64-17-5	Ethanol	1.67	10.70	ND	3.15	20.20	ND	
107-02-8	Acrolein	0.33	1.00	ND	0.77	2.30	ND	
75-69-4	Trichlorofluoromethane	0.33	0.83	ND	1.88	4.69	ND	
67-64-1	Acetone	1.67	2.00	ND	3.97	4.76	ND	
67-63-0	2-propanol (isopropylalcohol)	0.67	4.17	ND	1.64	10.26	ND	
75-65-0	t-Butyl alcohol	0.33	3.33	ND	1.01	10.12	ND	
4227-95-6	Methyl iodide	0.33	1.00	ND	1.95	5.85	ND	
75-35-4	1,1-Dichloroethene	0.17	0.83	ND	0.66	3.31	ND	
107-13-1	Acrylonitrile	0.67	1.00	ND	1.45	2.17	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.17	0.83	ND	1.28	6.40	ND	
107-05-1	Allyl chloride	0.17	3.33	ND	0.52	10.44	ND	
75-09-2	Methylene chloride	0.17	0.83	ND	0.58	2.90	ND	
75-15-0	Carbon disulfide	0.33	0.83	ND	1.04	2.60	ND	
156-60-5	trans-1,2-Dichloroethene	0.17	0.67	ND	0.66	2.65	ND	
1634-04-4	Methyl tert butyl ether	0.33	0.67	ND	1.20	2.41	ND	
107-12-0	Propionitrile	0.83	1.33	ND	1.88	3.01	ND	
75-34-3	1,1-Dichloroethane	0.17	0.83	ND	0.67	3.38	ND	
637-92-3	Ethyl tert butyl ether	0.33	0.83	ND	1.40	3.49	ND	
108-05-4	Vinyl acetate	0.17	3.33	ND	0.59	11.75	ND	
78-93-3	2-Butanone (MEK)	0.33	1.00	ND	0.98	2.95	ND	
108-20-3	Diisopropyl ether	0.33	2.00	ND	1.40	8.37	ND	
110-54-3	Hexane	0.33	0.83	ND	1.18	2.94	ND	
126-98-7	Methacrylonitrile	0.33	0.83	ND	0.92	2.29	ND	
141-78-6	Ethyl acetate	0.33	0.83	ND	1.20	3.01	ND	
74-97-5	Bromochloromethane	0.17	0.83	ND	0.88	4.42	ND	
96-33-3	Methyl acrylate	0.33	1.67	ND	1.18	5.88	ND	
109-99-9	Tetrahydrofuran	0.17	1.00	ND	0.50	2.95	ND	
78-83-1	Isobutyl alcohol	0.67	2.67	ND	2.02	8.09	ND	
156-59-2	cis-1,2-Dichloroethene	0.17	0.83	ND	0.66	3.31	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
594-20-7	2,2-Dichloropropane	0.17	0.83	ND	0.77	3.86	ND	
67-66-3	Chloroform	0.17	0.83	ND	0.82	4.08	ND	
71-55-6	1,1,1-Trichloroethane	0.17	0.83	ND	0.91	4.55	ND	
107-06-2	1,2-Dichloroethane	0.17	0.83	ND	0.68	3.38	ND	
563-58-6	1,1-Dichloropropene	0.17	0.83	ND	0.76	3.79	ND	
110-82-7	Cyclohexane	0.17	0.83	ND	0.57	2.87	ND	
71-43-2	Benzene	1.17	1.67	ND	3.73	5.33	ND	
56-23-5	Carbon tetrachloride	0.17	0.83	ND	1.05	5.25	ND	
994-05-8	t-Amyl methyl ether	0.33	1.67	ND	1.40	6.98	ND	
540-84-1	2,2,4-Trimethylpentane	0.17	0.83	ND	0.78	3.90	ND	
142-82-5	n-Heptane	0.33	0.83	ND	1.37	3.42	ND	
78-87-5	1,2-Dichloropropane	0.17	0.83	ND	0.77	3.86	ND	
123-91-1	1,4 Dioxane	0.33	1.67	ND	1.20	6.01	ND	
74-95-3	Dibromomethane	0.17	0.83	ND	1.19	5.93	ND	
79-01-6	Trichloroethene (TCE)	0.08	0.83	ND	0.45	4.48	ND	
75-27-4	Bromodichloromethane	0.17	0.83	ND	1.12	5.59	ND	
80-62-6	Methyl methacrylate	0.33	0.83	ND	1.37	3.42	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.33	2.67	ND	1.37	10.94	ND	
10061-01-5	cis-1,3-Dichloropropene	0.17	0.83	ND	0.76	3.79	ND	
108-88-3	Toluene	0.67	0.83	ND	2.51	3.14	ND	
10061-02-6	trans-1,3-Dichloropropene	0.17	0.83	ND	0.76	3.79	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.83	ND	0.91	4.55	ND	
97-63-2	Ethyl methacrylate	0.33	0.83	ND	1.56	3.90	ND	
591-78-6	2-Hexanone	0.33	2.67	ND	1.37	10.94	ND	
142-28-9	1,3-Dichloropropane	0.17	2.33	ND	0.77	10.80	ND	
111-65-9	Octane	0.33	0.83	ND	1.56	3.90	ND	
124-48-1	Dibromochloromethane	0.33	0.83	ND	2.84	7.11	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.33	0.83	ND	2.57	6.41	ND	
127-18-4	Tetrachloroethene (PCE)	0.08	0.83	ND	0.57	5.66	ND	
108-90-7	Chlorobenzene	0.33	0.83	ND	1.54	3.84	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.33	0.83	ND	2.29	5.73	ND	
100-41-4	Ethylbenzene	0.33	0.83	ND	1.45	3.62	ND	
1330-20-7	m,p-Xylenes	0.33	0.83	ND	1.45	3.62	ND	
111-84-2	Nonane	0.33	0.83	ND	1.75	4.38	ND	
100-42-5	Styrene	0.50	0.83	ND	2.13	3.56	ND	
75-25-2	Bromoform	0.33	0.83	ND	3.45	8.62	ND	
95-47-6	o-Xylene	0.33	0.83	ND	1.45	3.62	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.67	1.67	ND	4.58	11.45	ND	
96-18-4	1,2,3-Trichloropropane	0.67	2.00	ND	4.02	12.07	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.67	2.00	ND	3.41	10.24	ND	
103-65-1	n-Propylbenzene	0.67	2.33	ND	3.28	11.49	ND	
98-82-8	Isopropylbenzene	0.67	2.33	ND	3.28	11.49	ND	
622-96-8	4-Ethyltoluene	0.67	5.33	ND	3.28	26.25	ND	
108-67-8	1,3,5-Trimethylbenzene	0.67	3.00	ND	3.28	14.77	ND	
124-18-5	Decane	0.67	2.00	ND	3.89	11.66	ND	
98-06-6	tert-butyl benzene	0.67	2.00	ND	3.66	10.99	ND	
95-63-6	1,2,4-Trimethylbenzene	0.67	3.00	ND	3.28	14.77	ND	
538-93-2	i-Butylbenzene	0.67	2.00	ND	3.66	10.99	ND	
135-98-8	sec-butylbenzene	0.67	2.33	ND	3.66	12.82	ND	
541-73-1	1,3-Dichlorobenzene	0.67	2.67	ND	4.01	16.05	ND	
99-87-6	Isopropyltoluene	0.67	2.00	ND	3.66	10.99	ND	
100-44-7	Benzyl chloride	0.67	1.67	ND	3.46	8.64	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
106-46-7	1,4-Dichlorobenzene	0.67	1.67	ND	4.01	10.03	ND	
104-51-8	n-Butylbenzene	0.67	2.00	ND	3.66	10.99	ND	
95-50-1	1,2-Dichlorobenzene	0.67	2.33	ND	4.01	14.05	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.00	2.33	ND	9.68	22.58	ND	
120-82-1	1,2,4-Trichlorobenzene	1.00	1.67	ND	7.43	12.38	ND	
91-20-3	Naphthalene	1.67	0.33	ND	8.75	1.75	ND	
87-61-6	1,2,3-Trichlorobenzene	1.00	1.67	ND	7.43	12.38	ND	
87-68-3	Hexachlorobutadiene	0.83	1.00	ND	8.90	10.68	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	99	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**LABQC**		
				EAS ID:	**B04015**		
File Name:	B04015D.D	**Method:**	**TO-15**	**Date Sampled:**	**NA**	**Time:**	**NA**
Sample ID:	METHOD BLANK	**Matrix:**	**AA**	**Date Received:**	**NA**	**Time:**	**NA**
MiscInfo-Vol:		**Detect:**	**ND**	**Date Analyzed:**	**4/1/2025**	**Time:**	**12:10**
Anal Date:	1 Apr 125 12:10 pm	**SF:**	**2**	**QCbatch:**	**040125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**NA**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.00**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**MB**		
Analyst:	MM	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.000	4.41	42.00	0
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.000	4.86	31.00	0
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroethar	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	0.000	6.42	58.00	0
67-63-0	2-propanol (isopropylalcohc	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroethar	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.000	10.70	78.00	0
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MIB	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.000	13.50	91.00	0
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.000	15.90	106	0
1330-20-7	m,p-Xylenes	75	TRG	0.000	16.06	91.00	0
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.000	16.61	104.00	0
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	0.00	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.000	18.23	105.00	0
622-96-8	4-Ethyltoluene	85	TRG	0.000	18.23	105.00	0
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.000	18.31	105.00	0
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.000	18.95	105.00	0
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.000	19.39	146.00	0
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
106-46-7	1,4-Dichlorobenzene	95	TRG	0.000	19.39	146.00	0
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.000	20.07	146.00	0
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**11846590**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**14296015**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15231462**
2037-26-5	Toluene-d8	103	SURR	9.865	13.40	98.00	**8669735**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**LABQC**
Laboratory Number:	**B04015**
File Name:	B04015D.D
Run Method:	A1563_P.M
Can Factor:	1.00
Air Volume:	300.0 ml
Can/Tube Number:	NA
Dilution Factor:	0.3000
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR: PERCENT	
Sam Type:	MB
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.3000
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.3

Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed ResultV PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV	Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
Propylene	42.08	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	0.57	0.83	1.44	U	ND		ND		Y	0.00	0.00
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.50	2.48	0.83	4.13	U	ND		ND		Y	0.00	0.00
Methanol	32.0	0.00	0.00	0.00	ND	ND	0		0.500	0.600	1.67	2.18	2.00	2.62	U	ND		ND		Y	0.00	0.00
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.50	1.03	0.83	1.72	U	ND		ND		Y	0.00	0.00
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	2.33	0.83	5.83	U	ND		ND		Y	0.00	0.00
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.43	0.83	2.13	U	ND		ND		Y	0.00	0.00
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.37	0.83	1.85	U	ND		ND		Y	0.00	0.00
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.30	0.83	3.24	U	ND		ND		Y	0.00	0.00
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	0.88	0.83	2.20	U	ND		ND		Y	0.00	0.00
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	1.67	3.15	10.70	20.20	U	ND		ND		Y	0.00	0.00
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.33	0.77	1.00	2.30	U	ND		ND		Y	0.00	0.00
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.88	0.83	4.69	U	ND		ND		Y	0.00	0.00
Acetone	58.1	0.00	0.00	0.00	ND	ND	0		0.500	0.600	1.67	3.97	2.00	4.76	U	ND		ND		Y	0.00	0.00
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		0.200	1.250	0.67	1.64	4.17	10.26	U	ND		ND		Y	0.00	0.00
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.33	1.01	3.33	10.12	U	ND		ND		Y	0.00	0.00
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.33	1.95	1.00	5.85	U	ND		ND		Y	0.00	0.00
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.66	0.83	3.31	U	ND		ND		Y	0.00	0.00
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.67	1.45	1.00	2.17	U	ND		ND		Y	0.00	0.00
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	1.28	0.83	6.40	U	ND		ND		Y	0.00	0.00
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.17	0.52	3.33	10.44	U	ND		ND		Y	0.00	0.00
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.58	0.83	2.90	U	ND		ND		Y	0.00	0.00
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.04	0.83	2.60	U	ND		ND		Y	0.00	0.00
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.17	0.66	0.67	2.65	U	ND		ND		Y	0.00	0.00
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.33	1.20	0.67	2.41	U	ND		ND		Y	0.00	0.00
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	0.83	1.88	1.33	3.01	U	ND		ND		Y	0.00	0.00
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.67	0.83	3.38	U	ND		ND		Y	0.00	0.00
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.40	0.83	3.49	U	ND		ND		Y	0.00	0.00
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.17	0.59	3.33	11.75	U	ND		ND		Y	0.00	0.00
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.33	0.98	1.00	2.95	U	ND		ND		Y	0.00	0.00
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.33	1.40	2.00	8.37	U	ND		ND		Y	0.00	0.00
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.18	0.83	2.94	U	ND		ND		Y	0.00	0.00
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	0.92	0.83	2.29	U	ND		ND		Y	0.00	0.00
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.20	0.83	3.01	U	ND		ND		Y	0.00	0.00
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.88	0.83	4.42	U	ND		ND		Y	0.00	0.00

Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0	0.100	0.500	0.33	1.18	1.67	5.88	U	ND	ND	Y	0.00	0.00
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0	0.050	0.300	0.17	0.50	1.00	2.95	U	ND	ND	Y	0.00	0.00
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0	0.200	0.800	0.67	2.02	2.67	8.09	U	ND	ND	Y	0.00	0.00
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.17	0.66	0.83	3.31	U	ND	ND	Y	0.00	0.00
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.17	0.77	0.83	3.86	U	ND	ND	Y	0.00	0.00
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.17	0.82	0.83	4.08	U	ND	ND	Y	0.00	0.00
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.17	0.91	0.83	4.55	U	ND	ND	Y	0.00	0.00
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.17	0.68	0.83	3.38	U	ND	ND	Y	0.00	0.00
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.17	0.76	0.83	3.79	U	ND	ND	Y	0.00	0.00
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.17	0.57	0.83	2.87	U	ND	ND	Y	0.00	0.00
Benzene	78.1	0.00	0.00	0.00	ND	ND	0	0.350	0.500	1.17	3.73	1.67	5.33	U	ND	ND	Y	0.00	0.00
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.17	1.05	0.83	5.25	U	ND	ND	Y	0.00	0.00
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0	0.100	0.500	0.33	1.40	1.67	6.98	U	ND	ND	Y	0.00	0.00
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.17	0.78	0.83	3.90	U	ND	ND	Y	0.00	0.00
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.33	1.37	0.83	3.42	U	ND	ND	Y	0.00	0.00
1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.17	0.77	0.83	3.86	U	ND	ND	Y	0.00	0.00
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0	0.100	0.500	0.33	1.20	1.67	6.01	U	ND	ND	Y	0.00	0.00
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.17	1.19	0.83	5.93	U	ND	ND	Y	0.00	0.00
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0	0.025	0.250	0.08	0.45	0.83	4.48	U	ND	ND	Y	0.00	0.00
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.17	1.12	0.83	5.59	U	ND	ND	Y	0.00	0.00
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.33	1.37	0.83	3.42	U	ND	ND	Y	0.00	0.00
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0	0.100	0.800	0.33	1.37	2.67	10.94	U	ND	ND	Y	0.00	0.00
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.17	0.76	0.83	3.79	U	ND	ND	Y	0.00	0.00
Toluene	92.1	0.00	0.00	0.00	ND	ND	0	0.200	0.250	0.67	2.51	0.83	3.14	U	ND	ND	Y	0.00	0.00
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.17	0.76	0.83	3.79	U	ND	ND	Y	0.00	0.00
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0	0.050	0.250	0.17	0.91	0.83	4.55	U	ND	ND	Y	0.00	0.00
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.33	1.56	0.83	3.90	U	ND	ND	Y	0.00	0.00
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0	0.100	0.800	0.33	1.37	2.67	10.94	U	ND	ND	Y	0.00	0.00
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0	0.050	0.700	0.17	0.77	2.33	10.80	U	ND	ND	Y	0.00	0.00
Octane	114.2	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.33	1.56	0.83	3.90	U	ND	ND	Y	0.00	0.00
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.33	2.84	0.83	7.11	U	ND	ND	Y	0.00	0.00
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.33	2.57	0.83	6.41	U	ND	ND	Y	0.00	0.00
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0	0.025	0.250	0.08	0.57	0.83	5.66	U	ND	ND	Y	0.00	0.00
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.33	1.54	0.83	3.84	U	ND	ND	Y	0.00	0.00
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.33	2.29	0.83	5.73	U	ND	ND	Y	0.00	0.00
Ethylbenzene	106.2	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.33	1.45	0.83	3.62	U	ND	ND	Y	0.00	0.00
m,p-Xylenes	106.2	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.33	1.45	0.83	3.62	U	ND	ND	Y	0.00	0.00
Nonane	128.3	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.33	1.75	0.83	4.38	U	ND	ND	Y	0.00	0.00
Styrene	104.2	0.00	0.00	0.00	ND	ND	0	0.150	0.250	0.50	2.13	0.83	3.56	U	ND	ND	Y	0.00	0.00
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.33	3.45	0.83	8.62	U	ND	ND	Y	0.00	0.00
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0	0.100	0.250	0.33	1.45	0.83	3.62	U	ND	ND	Y	0.00	0.00
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0	0.200	0.500	0.67	4.58	1.67	11.45	U	ND	ND	Y	0.00	0.00
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0	0.200	0.600	0.67	4.02	2.00	12.07	U	ND	ND	Y	0.00	0.00
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0	0.200	0.600	0.67	3.41	2.00	10.24	U	ND	ND	Y	0.00	0.00
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0	0.200	0.700	0.67	3.28	2.33	11.49	U	ND	ND	Y	0.00	0.00
Isopropylbenzene	120.2	0.00	0.00	0.00	ND	ND	0	0.200	0.700	0.67	3.28	2.33	11.49	U	ND	ND	Y	0.00	0.00
4-Ethyltoluene	120.2	0.00	0.00	0.00	ND	ND	0	0.200	1.600	0.67	3.28	5.33	26.25	U	ND	ND	Y	0.00	0.00
1,3,5-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0	0.200	0.900	0.67	3.28	3.00	14.77	U	ND	ND	Y	0.00	0.00
Decane	142.3	0.00	0.00	0.00	ND	ND	0	0.200	0.600	0.67	3.89	2.00	11.66	U	ND	ND	Y	0.00	0.00
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0	0.200	0.600	0.67	3.66	2.00	10.99	U	ND	ND	Y	0.00	0.00
1,2,4-Trimethylbenzene	120.2	0.00	0.00	0.00	ND	ND	0	0.200	0.900	0.67	3.28	3.00	14.77	U	ND	ND	Y	0.00	0.00
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0	0.200	0.600	0.67	3.66	2.00	10.99	U	ND	ND	Y	0.00	0.00

sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.67	3.66	2.33	12.82	U	ND	ND	Y	0.00	0.00
1,3-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.67	4.01	2.67	16.05	U	ND	ND	Y	0.00	0.00
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.67	3.66	2.00	10.99	U	ND	ND	Y	0.00	0.00
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.67	3.46	1.67	8.64	U	ND	ND	Y	0.00	0.00
1,4-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.67	4.01	1.67	10.03	U	ND	ND	Y	0.00	0.00
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.67	3.66	2.00	10.99	U	ND	ND	Y	0.00	0.00
1,2-Dichlorobenzene	147.0	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.67	4.01	2.33	14.05	U	ND	ND	Y	0.00	0.00
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.00	9.68	2.33	22.58	U	ND	ND	Y	0.00	0.00
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.00	7.43	1.67	12.38	U	ND	ND	Y	0.00	0.00
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	1.67	8.75	0.33	1.75	U	ND	ND	Y	0.00	0.00
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.00	7.43	1.67	12.38	U	ND	ND	Y	0.00	0.00
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	0.83	8.90	1.00	10.68	U	ND	ND	Y	0.00	0.00
Pentafluorobenzene		20.00							20.0	20.0							=	Y		
1,4-Difluorobenzene		20.00							20.0	20.0							=	Y		
Chlorobenzene-d5		20.00							20.0	20.0							=	Y		
Toluene-d8		9.86	99	99	99	99	99	99	10.0	10.0							=	Y		
0																				
0																				
0																				

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**LABQC**	
Laboratory Number:		**B04015**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.00	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)]$_i$ Note: 1

2) Raw Amt = (Ansamp) / (Avg RFn) × (Cistdi) / (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) × 1000 / (SV) × (CDF)

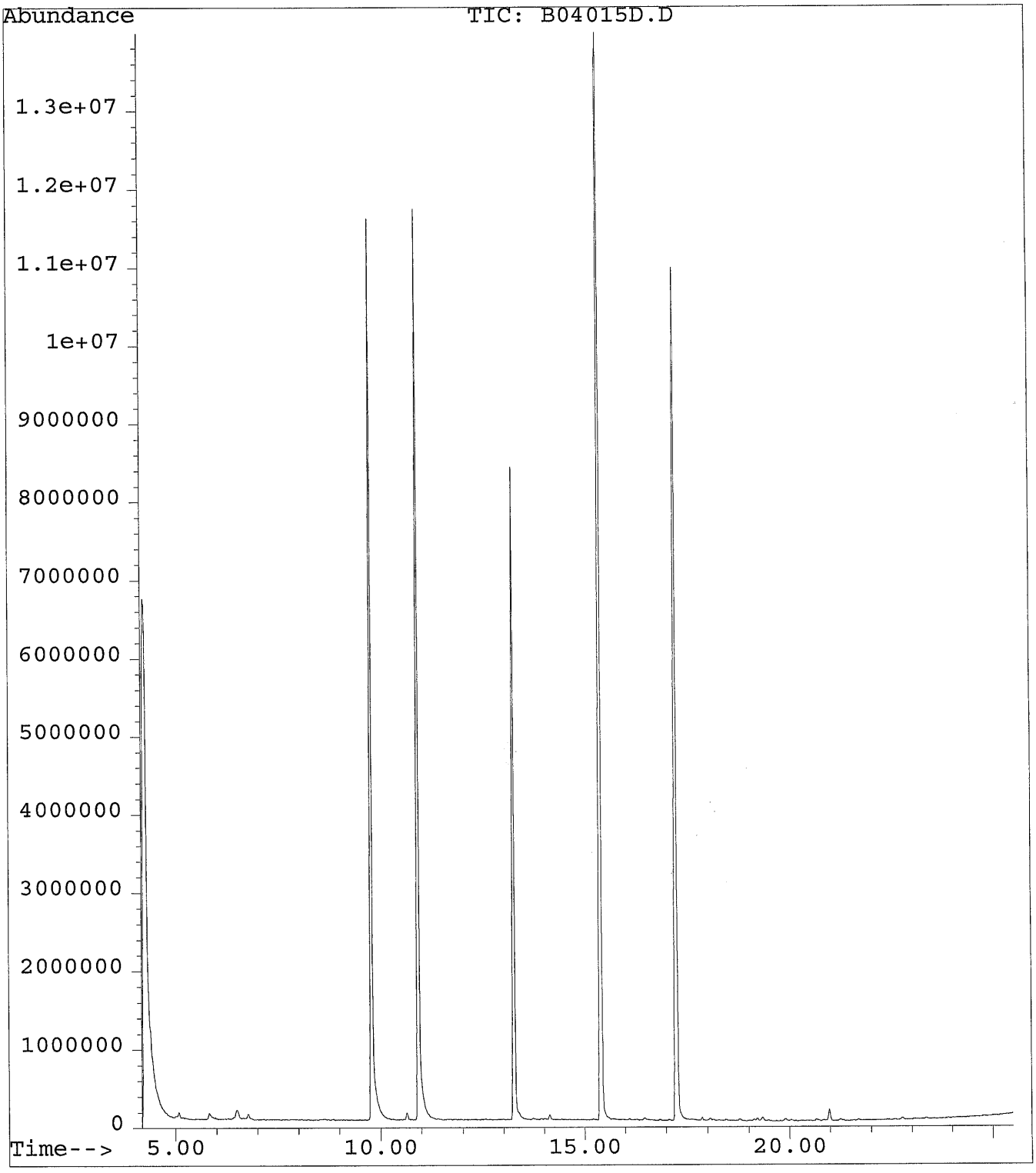
4) Amount ug/m3 = (amt(ppbv) × MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.077	0	20.0	11846590	0.000	0.00	0.00
3	Dichlorodifluoromethane	PFB	TRG	120.9	0.388	0	20.0	11846590	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	0.325	0	20.0	11846590	0.000	0.00	0.00
5	Chloromethane	PFB	TRG	50.5	0.125	0	20.0	11846590	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.338	0	20.0	11846590	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.154	0	20.0	11846590	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.136	0	20.0	11846590	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.175	0	20.0	11846590	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.080	0	20.0	11846590	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.013	0	20.0	11846590	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.057	0	20.0	11846590	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.349	0	20.0	11846590	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.109	0	20.0	11846590	0.000	0.00	0.00
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.402	0	20.0	11846590	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.524	0	20.0	11846590	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.638	0	20.0	11846590	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.299	0	20.0	11846590	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.127	0	20.0	11846590	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.400	0	20.0	11846590	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.111	0	20.0	11846590	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.132	0	20.0	11846590	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.400	0	20.0	11846590	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.208	0	20.0	11846590	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	0.433	0	20.0	11846590	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.147	0	20.0	11846590	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.326	0	20.0	11846590	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	0.429	0	20.0	11846590	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.076	0	20.0	11846590	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.110	0	20.0	11846590	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.141	0	20.0	11846590	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.286	0	20.0	11846590	0.000	0.00	0.00
33	Methacrylonitrile	PFB	TRG	67.1	0.099	0	20.0	11846590	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.350	0	20.0	11846590	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.316	0	20.0	11846590	0.000	0.00	0.00

36	Methyl acrylate	PFB	TRG	86.1	0.208	0	20.0	11846590	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.123	0	20.0	11846590	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.059	0	20.0	11846590	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.239	0	20.0	11846590	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.284	0	20.0	11846590	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.339	0	20.0	11846590	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DFB	TRG	133.4	0.477	0	20.0	14296015	0.000	0.00	0.00
44	1,2-Dichloroethane	14DFB	TRG	99.0	0.376	0	20.0	14296015	0.000	0.00	0.00
45	1,1-Dichloropropene	14DFB	TRG	111.0	0.398	0	20.0	14296015	0.000	0.00	0.00
46	Cyclohexane	14DFB	TRG	84.2	0.364	0	20.0	14296015	0.000	0.00	0.00
47	Benzene	14DFB	TRG	78.1	0.823	0	20.0	14296015	0.000	0.00	0.00
48	Carbon tetrachloride	14DFB	TRG	153.8	0.366	0	20.0	14296015	0.000	0.00	0.00
49	t-Amyl methyl ether	14DFB	TRG	102.2	0.938	0	20.0	14296015	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DFB	TRG	114.2	1.306	0	20.0	14296015	0.000	0.00	0.00
51	n-Heptane	14DFB	TRG	100.2	0.276	0	20.0	14296015	0.000	0.00	0.00
52	1,2-Dichloropropane	14DFB	TRG	113.0	0.312	0	20.0	14296015	0.000	0.00	0.00
53	1,4 Dioxane	14DFB	TRG	88.1	0.337	0	20.0	14296015	0.000	0.00	0.00
54	Dibromomethane	14DFB	TRG	173.8	0.984	0	20.0	14296015	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DFB	TRG	131.4	0.699	0	20.0	14296015	0.000	0.00	0.00
56	Bromodichloromethane	14DFB	TRG	163.8	0.413	0	20.0	14296015	0.000	0.00	0.00
57	Methyl methacrylate	14DFB	TRG	100.1	0.241	0	20.0	14296015	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DFB	TRG	100.2	0.434	0	20.0	14296015	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DFB	TRG	111.0	0.357	0	20.0	14296015	0.000	0.00	0.00
61	Toluene	14DFB	TRG	92.1	1.215	0	20.0	14296015	0.000	0.00	0.00
62	trans-1,3-Dichloropropene	14DFB	TRG	111.0	0.346	0	20.0	14296015	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DFB	TRG	133.4	0.246	0	20.0	14296015	0.000	0.00	0.00
64	Ethyl methacrylate	14DFB	TRG	114.2	0.481	0	20.0	14296015	0.000	0.00	0.00
65	2-Hexanone	14DFB	TRG	100.2	0.784	0	20.0	14296015	0.000	0.00	0.00
66	1,3-Dichloropropane	14DFB	TRG	113.0	0.677	0	20.0	14296015	0.000	0.00	0.00
67	Octane	14DFB	TRG	114.2	0.387	0	20.0	14296015	0.000	0.00	0.00
68	Dibromochloromethane	14DFB	TRG	208.3	0.711	0	20.0	14296015	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DFB	TRG	187.9	0.842	0	20.0	14296015	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DFB	TRG	165.8	1.398	0	20.0	14296015	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.145	0	20.0	15231462	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.488	0	20.0	15231462	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.497	0	20.0	15231462	0.000	0.00	0.00
75	m,p-Xylenes	d5CB	TRG	106.2	1.297	0	20.0	15231462	0.000	0.00	0.00
76	Nonane	d5CB	TRG	128.3	0.575	0	20.0	15231462	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.008	0	20.0	15231462	0.000	0.00	0.00
78	Bromoform	d5CB	TRG	252.7	0.957	0	20.0	15231462	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.314	0	20.0	15231462	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.186	0	20.0	15231462	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.502	0	20.0	15231462	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.081	0	20.0	15231462	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	2.144	0	20.0	15231462	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.882	0	20.0	15231462	0.000	0.00	0.00
85	4-Ethyltoluene	d5CB	TRG	120.2	1.613	0	20.0	15231462	0.000	0.00	0.00
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.810	0	20.0	15231462	0.000	0.00	0.00
87	Decane	d5CB	TRG	142.3	0.882	0	20.0	15231462	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.678	0	20.0	15231462	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	1.453	0	20.0	15231462	0.000	0.00	0.00
90	i-Butylbenzene	d5CB	TRG	134.2	1.786	0	20.0	15231462	0.000	0.00	0.00

91	sec-butylbenzene	d5CB	TRG	134.2	2.164	0	20.0	15231462	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	2.201	0	20.0	15231462	0.000	0.00	0.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.356	0	20.0	15231462	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	0.660	0	20.0	15231462	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	2.004	0	20.0	15231462	0.000	0.00	0.00
96	n-Butylbenzene	d5CB	TRG	134.2	2.242	0	20.0	15231462	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	2.676	0	20.0	15231462	0.000	0.00	0.00
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.196	0	20.0	15231462	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.750	0	20.0	15231462	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	0.424	0	20.0	15231462	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.175	0	20.0	15231462	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	3.485	0	20.0	15231462	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	11846590	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	14296015	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15231462	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	8669735	10.0		9.865	98.65	99

File : C:\MSCHEM\1\DATA\04015A_C\B04015D.D
Operator : MM
Acquired : 1 Apr 125 12:10 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: METHOD BLANK
Misc Info :
Vial Number: 1



METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC
Laboratory ID: B04025

File Name: B04025D.D
Description: METHOD BLANK
Canister:
QC_Batch: 040225-MA1

Date Sampled: **Time:**
Date Analyzed: 04/02/25 **Time:** 11:10
Can Dilution Factor: 1.00
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.33	0.83	ND	0.57	1.44	ND	
75-71-8	Dichlorodifluoromethane	0.50	0.83	ND	2.48	4.13	ND	
67-56-1	Methanol	1.67	2.00	ND	2.18	2.62	ND	
74-87-3	Chloromethane	0.50	0.83	ND	1.03	1.72	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.33	0.83	ND	2.33	5.83	ND	
75-01-4	Vinyl chloride	0.17	0.83	ND	0.43	2.13	ND	
106-99-0	1,3-Butadiene	0.17	0.83	ND	0.37	1.85	ND	
74-83-9	Bromomethane	0.33	0.83	ND	1.30	3.24	ND	
75-00-3	Chloroethane	0.33	0.83	ND	0.88	2.20	ND	
64-17-5	Ethanol	1.67	10.70	ND	3.15	20.20	ND	
107-02-8	Acrolein	0.33	1.00	ND	0.77	2.30	ND	
75-69-4	Trichlorofluoromethane	0.33	0.83	ND	1.88	4.69	ND	
67-64-1	Acetone	1.67	2.00	ND	3.97	4.76	ND	
67-63-0	2-propanol (isopropylalcohol)	0.67	4.17	ND	1.64	10.26	ND	
75-65-0	t-Butyl alcohol	0.33	3.33	ND	1.01	10.12	ND	
4227-95-6	Methyl iodide	0.33	1.00	ND	1.95	5.85	ND	
75-35-4	1,1-Dichloroethene	0.17	0.83	ND	0.66	3.31	ND	
107-13-1	Acrylonitrile	0.67	1.00	ND	1.45	2.17	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.17	0.83	ND	1.28	6.40	ND	
107-05-1	Allyl chloride	0.17	3.33	ND	0.52	10.44	ND	
75-09-2	Methylene chloride	0.17	0.83	ND	0.58	2.90	ND	
75-15-0	Carbon disulfide	0.33	0.83	ND	1.04	2.60	ND	
156-60-5	trans-1,2-Dichloroethene	0.17	0.67	ND	0.66	2.65	ND	
1634-04-4	Methyl tert butyl ether	0.33	0.67	ND	1.20	2.41	ND	
107-12-0	Propionitrile	0.83	1.33	ND	1.88	3.01	ND	
75-34-3	1,1-Dichloroethane	0.17	0.83	ND	0.67	3.38	ND	
637-92-3	Ethyl tert butyl ether	0.33	0.83	ND	1.40	3.49	ND	
108-05-4	Vinyl acetate	0.17	3.33	ND	0.59	11.75	ND	
78-93-3	2-Butanone (MEK)	0.33	1.00	ND	0.98	2.95	ND	
108-20-3	Diisopropyl ether	0.33	2.00	ND	1.40	8.37	ND	
110-54-3	Hexane	0.33	0.83	ND	1.18	2.94	ND	
126-98-7	Methacrylonitrile	0.33	0.83	ND	0.92	2.29	ND	
141-78-6	Ethyl acetate	0.33	0.83	ND	1.20	3.01	ND	
74-97-5	Bromochloromethane	0.17	0.83	ND	0.88	4.42	ND	
96-33-3	Methyl acrylate	0.33	1.67	ND	1.18	5.88	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.17	1.00	ND	0.50	2.95	ND	
78-83-1	Isobutyl alcohol	0.67	2.67	ND	2.02	8.09	ND	
156-59-2	cis-1,2-Dichloroethene	0.17	0.83	ND	0.66	3.31	ND	
594-20-7	2,2-Dichloropropane	0.17	0.83	ND	0.77	3.86	ND	
67-66-3	Chloroform	0.17	0.83	ND	0.82	4.08	ND	
71-55-6	1,1,1-Trichloroethane	0.17	0.83	ND	0.91	4.55	ND	
107-06-2	1,2-Dichloroethane	0.17	0.83	ND	0.68	3.38	ND	
563-58-6	1,1-Dichloropropene	0.17	0.83	ND	0.76	3.79	ND	
110-82-7	Cyclohexane	0.17	0.83	ND	0.57	2.87	ND	
71-43-2	Benzene	1.17	1.67	ND	3.73	5.33	ND	
56-23-5	Carbon tetrachloride	0.17	0.83	ND	1.05	5.25	ND	
994-05-8	t-Amyl methyl ether	0.33	1.67	ND	1.40	6.98	ND	
540-84-1	2,2,4-Trimethylpentane	0.17	0.83	ND	0.78	3.90	ND	
142-82-5	n-Heptane	0.33	0.83	ND	1.37	3.42	ND	
78-87-5	1,2-Dichloropropane	0.17	0.83	ND	0.77	3.86	ND	
123-91-1	1,4 Dioxane	0.33	1.67	ND	1.20	6.01	ND	
74-95-3	Dibromomethane	0.17	0.83	ND	1.19	5.93	ND	
79-01-6	Trichloroethene (TCE)	0.08	0.83	ND	0.45	4.48	ND	
75-27-4	Bromodichloromethane	0.17	0.83	ND	1.12	5.59	ND	
80-62-6	Methyl methacrylate	0.33	0.83	ND	1.37	3.42	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.33	2.67	ND	1.37	10.94	ND	
10061-01-5	cis-1,3-Dichloropropene	0.17	0.83	ND	0.76	3.79	ND	
108-88-3	Toluene	0.67	0.83	ND	2.51	3.14	ND	
10061-02-6	trans-1,3-Dichloropropene	0.17	0.83	ND	0.76	3.79	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.83	ND	0.91	4.55	ND	
97-63-2	Ethyl methacrylate	0.33	0.83	ND	1.56	3.90	ND	
591-78-6	2-Hexanone	0.33	2.67	ND	1.37	10.94	ND	
142-28-9	1,3-Dichloropropane	0.17	2.33	ND	0.77	10.80	ND	
111-65-9	Octane	0.33	0.83	ND	1.56	3.90	ND	
124-48-1	Dibromochloromethane	0.33	0.83	ND	2.84	7.11	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.33	0.83	ND	2.57	6.41	ND	
127-18-4	Tetrachloroethene (PCE)	0.08	0.83	ND	0.57	5.66	ND	
108-90-7	Chlorobenzene	0.33	0.83	ND	1.54	3.84	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.33	0.83	ND	2.29	5.73	ND	
100-41-4	Ethylbenzene	0.33	0.83	ND	1.45	3.62	ND	
1330-20-7	m,p-Xylenes	0.33	0.83	ND	1.45	3.62	ND	
111-84-2	Nonane	0.33	0.83	ND	1.75	4.38	ND	
100-42-5	Styrene	0.50	0.83	ND	2.13	3.56	ND	
75-25-2	Bromoform	0.33	0.83	ND	3.45	8.62	ND	
95-47-6	o-Xylene	0.33	0.83	ND	1.45	3.62	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.67	1.67	ND	4.58	11.45	ND	
96-18-4	1,2,3-Trichloropropane	0.67	2.00	ND	4.02	12.07	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.67	2.00	ND	3.41	10.24	ND	
103-65-1	n-Propylbenzene	0.67	2.33	ND	3.28	11.49	ND	
98-82-8	Isopropylbenzene	0.67	2.33	ND	3.28	11.49	ND	
622-96-8	4-Ethyltoluene	0.67	5.33	ND	3.28	26.25	ND	
108-67-8	1,3,5-Trimethylbenzene	0.67	3.00	ND	3.28	14.77	ND	
124-18-5	Decane	0.67	2.00	ND	3.89	11.66	ND	
98-06-6	tert-butyl benzene	0.67	2.00	ND	3.66	10.99	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.67	3.00	ND	3.28	14.77	ND	
538-93-2	i-Butylbenzene	0.67	2.00	ND	3.66	10.99	ND	
135-98-8	sec-butylbenzene	0.67	2.33	ND	3.66	12.82	ND	
541-73-1	1,3-Dichlorobenzene	0.67	2.67	ND	4.01	16.05	ND	
99-87-6	Isopropyltoluene	0.67	2.00	ND	3.66	10.99	ND	
100-44-7	Benzyl chloride	0.67	1.67	ND	3.46	8.64	ND	
106-46-7	1,4-Dichlorobenzene	0.67	1.67	ND	4.01	10.03	ND	
104-51-8	n-Butylbenzene	0.67	2.00	ND	3.66	10.99	ND	
95-50-1	1,2-Dichlorobenzene	0.67	2.33	ND	4.01	14.05	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.00	2.33	ND	9.68	22.58	ND	
120-82-1	1,2,4-Trichlorobenzene	1.00	1.67	ND	7.43	12.38	ND	
91-20-3	Naphthalene	1.67	0.33	ND	8.75	1.75	ND	
87-61-6	1,2,3-Trichlorobenzene	1.00	1.67	ND	7.43	12.38	ND	
87-68-3	Hexachlorobutadiene	0.83	1.00	ND	8.90	10.68	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	101	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**LABQC**		
				EAS ID:	**B04025**		
File Name:	B04025D.D	**Method:**	**TO-15**	**Date Sampled:**	**NA**	**Time:**	**NA**
Sample ID:	METHOD BLANK	**Matrix:**	**AA**	**Date Received:**	**NA**	**Time:**	**NA**
MiscInfo-Vol:		**Detect:**	**ND**	**Date Analyzed:**	**04/02/25**	**Time:**	**11:10**
Anal Date:	2 Apr 125 11:10 am	**SF:**	**2**	**QCbatch:**	**040225-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**NA**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.00**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**MB**		
Analyst:	DA	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.3**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.000	4.41	42.00	0
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.045	4.86	31.00	32526
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	0.228	6.42	58.00	35779
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.142	10.70	78.00	119651
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.017	13.50	91.00	20503
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.000	13.63	69.00	0
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.000	15.62	112.00	0
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.000	15.90	106	0
1330-20-7	m,p-Xylenes	75	TRG	0.000	16.06	91.00	0
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.029	16.61	104.00	25585
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	0.00	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.008	18.23	105.00	21721
622-96-8	4-Ethyltoluene	85	TRG	0.013	18.23	105.00	21721
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.014	18.31	105.00	21721
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.014	18.95	105.00	22936
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.009	19.32	105.00	22936
541-73-1	1,3-Dichlorobenzene	92	TRG	0.024	19.39	146.00	25102
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.026	19.39	146.00	25102
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.021	20.07	146.00	25573
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.000	22.95	180.00	0
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**13141153**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**15673592**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15885093**
2037-26-5	Toluene-d8	103	SURR	10.139	13.40	98.00	**9769062**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**LABQC**	EDD SURR:	PERCENT	IS LCL	50	Gas Constant	
Laboratory Number:	**B04025**	Sam Type:	MB	IS UCL	200	T	24.5
File Name:	B04025D.D	Instrument:	MA1	SUR LCL	70	P	760
Run Method:	A1563_P.M	DETECT:	ND	SUR UCL	130	MV	24.417
Can Factor:	1.00	Matrix:	AA	MDL Factor	1.0	GC	24.417
Air Volume:	300.0 ml	Type:	TRG	E Flag	1.3		
Can/Tube Number:	NA	Diluton:	0.3000				
Dilution Factor:	0.3000	Sig Figs:	2				
Base Volume:	1000 ml	MDLSF:	2				

Unit Factor (ppbv):	1000	PPBV	UG/M3		Fixed	Fixed	Fixed	Fixed	(1)	(2)	Calc	Calc	Calc
Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Result PPBV	Result UG/M3	ResultQ UG/M3	ResultG UG/M3	MDL	RL PPBV	MDL PPBV	MDL UG/M3	RL PPBV
Propylene	42.08	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	0.57	0.83
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.50	2.48	0.83
Methanol	32.0	0.05	0.15	0.20	ND	ND	0		0.500	0.600	1.67	2.18	2.00
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		0.150	0.250	0.50	1.03	0.83
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	2.33	0.83
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.43	0.83
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.37	0.83
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.30	0.83
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	0.88	0.83
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		0.500	3.210	1.67	3.15	10.70
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.33	0.77	1.00
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.88	0.83
Acetone	58.1	0.23	0.76	1.81	ND	ND	0		0.500	0.600	1.67	3.97	2.00
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		0.200	1.250	0.67	1.64	4.17
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.100	1.000	0.33	1.01	3.33
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.33	1.95	1.00
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.66	0.83
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		0.200	0.300	0.67	1.45	1.00
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	1.28	0.83
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.17	0.52	3.33
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.58	0.83
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.04	0.83
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.200	0.17	0.66	0.67
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.200	0.33	1.20	0.67
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		0.250	0.400	0.83	1.88	1.33
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.67	0.83
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.40	0.83
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		0.050	1.000	0.17	0.59	3.33
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		0.100	0.300	0.33	0.98	1.00
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.600	0.33	1.40	2.00
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.18	0.83
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	0.92	0.83
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.20	0.83
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.88	0.83
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.33	1.18	1.67
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		0.050	0.300	0.17	0.50	1.00
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		0.200	0.800	0.67	2.02	2.67
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.66	0.83
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.77	0.83
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.82	0.83
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.91	0.83
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.68	0.83
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.76	0.83
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.57	0.83
Benzene	78.1	0.14	0.47	1.52	ND	ND	0		0.350	0.500	1.17	3.73	1.67
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	1.05	0.83
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.33	1.40	1.67
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.78	0.83
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.37	0.83

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.77	0.83
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.33	1.20	1.67
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	1.19	0.83
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.08	0.45	0.83
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	1.12	0.83
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.37	0.83
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.33	1.37	2.67
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.76	0.83
Toluene	92.1	0.02	0.06	0.22	ND	ND	0		0.200	0.250	0.67	2.51	0.83
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.76	0.83
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.91	0.83
Ethyl methacrylate	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.56	0.83
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.33	1.37	2.67
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.17	0.77	2.33
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.56	0.83
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	2.84	0.83
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	2.57	0.83
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.08	0.57	0.83
Chlorobenzene	112.6	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.54	0.83
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	2.29	0.83
Ethylbenzene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.45	0.83
m,p-Xylenes	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.45	0.83
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.75	0.83
Styrene	104.2	0.03	0.10	0.41	ND	ND	0		0.150	0.250	0.50	2.13	0.83
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	3.45	0.83
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.45	0.83
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.67	4.58	1.67
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.67	4.02	2.00
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.67	3.41	2.00
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.67	3.28	2.33
Isopropylbenzene	120.2	0.01	0.03	0.14	ND	ND	0		0.200	0.700	0.67	3.28	2.33
4-Ethyltoluene	120.2	0.01	0.04	0.21	ND	ND	0		0.200	1.600	0.67	3.28	5.33
1,3,5-Trimethylbenzene	120.2	0.01	0.05	0.23	ND	ND	0		0.200	0.900	0.67	3.28	3.00
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.67	3.89	2.00
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.67	3.66	2.00
1,2,4-Trimethylbenzene	120.2	0.01	0.05	0.23	ND	ND	0		0.200	0.900	0.67	3.28	3.00
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.67	3.66	2.00
sec-butylbenzene	134.2	0.01	0.03	0.17	ND	ND	0		0.200	0.700	0.67	3.66	2.33
1,3-Dichlorobenzene	147.0	0.02	0.08	0.48	ND	ND	0		0.200	0.800	0.67	4.01	2.67
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.67	3.66	2.00
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.67	3.46	1.67
1,4-Dichlorobenzene	147.0	0.03	0.09	0.53	ND	ND	0		0.200	0.500	0.67	4.01	1.67
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.67	3.66	2.00
1,2-Dichlorobenzene	147.0	0.02	0.07	0.42	ND	ND	0		0.200	0.700	0.67	4.01	2.33
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.00	9.68	2.33
1,2,4-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.00	7.43	1.67
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	1.67	8.75	0.33
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.00	7.43	1.67
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	0.83	8.90	1.00
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		10.14	101	101	101	101	101	101	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.44	U	ND		ND		Y	0.00	0.00
4.13	U	ND		ND		Y	0.00	0.00
2.62	U	ND		ND		Y	0.00	0.00
1.72	U	ND		ND		Y	0.00	0.00
5.83	U	ND		ND		Y	0.00	0.00
2.13	U	ND		ND		Y	0.00	0.00
1.85	U	ND		ND		Y	0.00	0.00
3.24	U	ND		ND		Y	0.00	0.00
2.20	U	ND		ND		Y	0.00	0.00
20.20	U	ND		ND		Y	0.00	0.00
2.30	U	ND		ND		Y	0.00	0.00
4.69	U	ND		ND		Y	0.00	0.00
4.76	U	ND		ND		Y	0.00	0.00
10.26	U	ND		ND		Y	0.00	0.00
10.12	U	ND		ND		Y	0.00	0.00
5.85	U	ND		ND		Y	0.00	0.00
3.31	U	ND		ND		Y	0.00	0.00
2.17	U	ND		ND		Y	0.00	0.00
6.40	U	ND		ND		Y	0.00	0.00
10.44	U	ND		ND		Y	0.00	0.00
2.90	U	ND		ND		Y	0.00	0.00
2.60	U	ND		ND		Y	0.00	0.00
2.65	U	ND		ND		Y	0.00	0.00
2.41	U	ND		ND		Y	0.00	0.00
3.01	U	ND		ND		Y	0.00	0.00
3.38	U	ND		ND		Y	0.00	0.00
3.49	U	ND		ND		Y	0.00	0.00
11.75	U	ND		ND		Y	0.00	0.00
2.95	U	ND		ND		Y	0.00	0.00
8.37	U	ND		ND		Y	0.00	0.00
2.94	U	ND		ND		Y	0.00	0.00
2.29	U	ND		ND		Y	0.00	0.00
3.01	U	ND		ND		Y	0.00	0.00
4.42	U	ND		ND		Y	0.00	0.00
5.88	U	ND		ND		Y	0.00	0.00
2.95	U	ND		ND		Y	0.00	0.00
8.09	U	ND		ND		Y	0.00	0.00
3.31	U	ND		ND		Y	0.00	0.00
3.86	U	ND		ND		Y	0.00	0.00
4.08	U	ND		ND		Y	0.00	0.00
4.55	U	ND		ND		Y	0.00	0.00
3.38	U	ND		ND		Y	0.00	0.00
3.79	U	ND		ND		Y	0.00	0.00
2.87	U	ND		ND		Y	0.00	0.00
5.33	U	ND		ND		Y	0.00	0.00
5.25	U	ND		ND		Y	0.00	0.00
6.98	U	ND		ND		Y	0.00	0.00
3.90	U	ND		ND		Y	0.00	0.00
3.42	U	ND		ND		Y	0.00	0.00

3.86	U	ND	ND	Y	0.00	0.00
6.01	U	ND	ND	Y	0.00	0.00
5.93	U	ND	ND	Y	0.00	0.00
4.48	U	ND	ND	Y	0.00	0.00
5.59	U	ND	ND	Y	0.00	0.00
3.42	U	ND	ND	Y	0.00	0.00
10.94	U	ND	ND	Y	0.00	0.00
3.79	U	ND	ND	Y	0.00	0.00
3.14	U	ND	ND	Y	0.00	0.00
3.79	U	ND	ND	Y	0.00	0.00
4.55	U	ND	ND	Y	0.00	0.00
3.90	U	ND	ND	Y	0.00	0.00
10.94	U	ND	ND	Y	0.00	0.00
10.80	U	ND	ND	Y	0.00	0.00
3.90	U	ND	ND	Y	0.00	0.00
7.11	U	ND	ND	Y	0.00	0.00
6.41	U	ND	ND	Y	0.00	0.00
5.66	U	ND	ND	Y	0.00	0.00
3.84	U	ND	ND	Y	0.00	0.00
5.73	U	ND	ND	Y	0.00	0.00
3.62	U	ND	ND	Y	0.00	0.00
3.62	U	ND	ND	Y	0.00	0.00
4.38	U	ND	ND	Y	0.00	0.00
3.56	U	ND	ND	Y	0.00	0.00
8.62	U	ND	ND	Y	0.00	0.00
3.62	U	ND	ND	Y	0.00	0.00
11.45	U	ND	ND	Y	0.00	0.00
12.07	U	ND	ND	Y	0.00	0.00
10.24	U	ND	ND	Y	0.00	0.00
11.49	U	ND	ND	Y	0.00	0.00
11.49	U	ND	ND	Y	0.00	0.00
26.25	U	ND	ND	Y	0.00	0.00
14.77	U	ND	ND	Y	0.00	0.00
11.66	U	ND	ND	Y	0.00	0.00
10.99	U	ND	ND	Y	0.00	0.00
14.77	U	ND	ND	Y	0.00	0.00
10.99	U	ND	ND	Y	0.00	0.00
12.82	U	ND	ND	Y	0.00	0.00
16.05	U	ND	ND	Y	0.00	0.00
10.99	U	ND	ND	Y	0.00	0.00
8.64	U	ND	ND	Y	0.00	0.00
10.03	U	ND	ND	Y	0.00	0.00
10.99	U	ND	ND	Y	0.00	0.00
14.05	U	ND	ND	Y	0.00	0.00
22.58	U	ND	ND	Y	0.00	0.00
12.38	U	ND	ND	Y	0.00	0.00
1.75	U	ND	ND	Y	0.00	0.00
12.38	U	ND	ND	Y	0.00	0.00
10.68	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**LABQC**
Laboratory Number:		**B04025**
Standard Volume	STV	10.0 ml
Sample Volume	SV	300 ml
Can Dilution Factor	CDF	1.00
Gas Constant		24.42
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

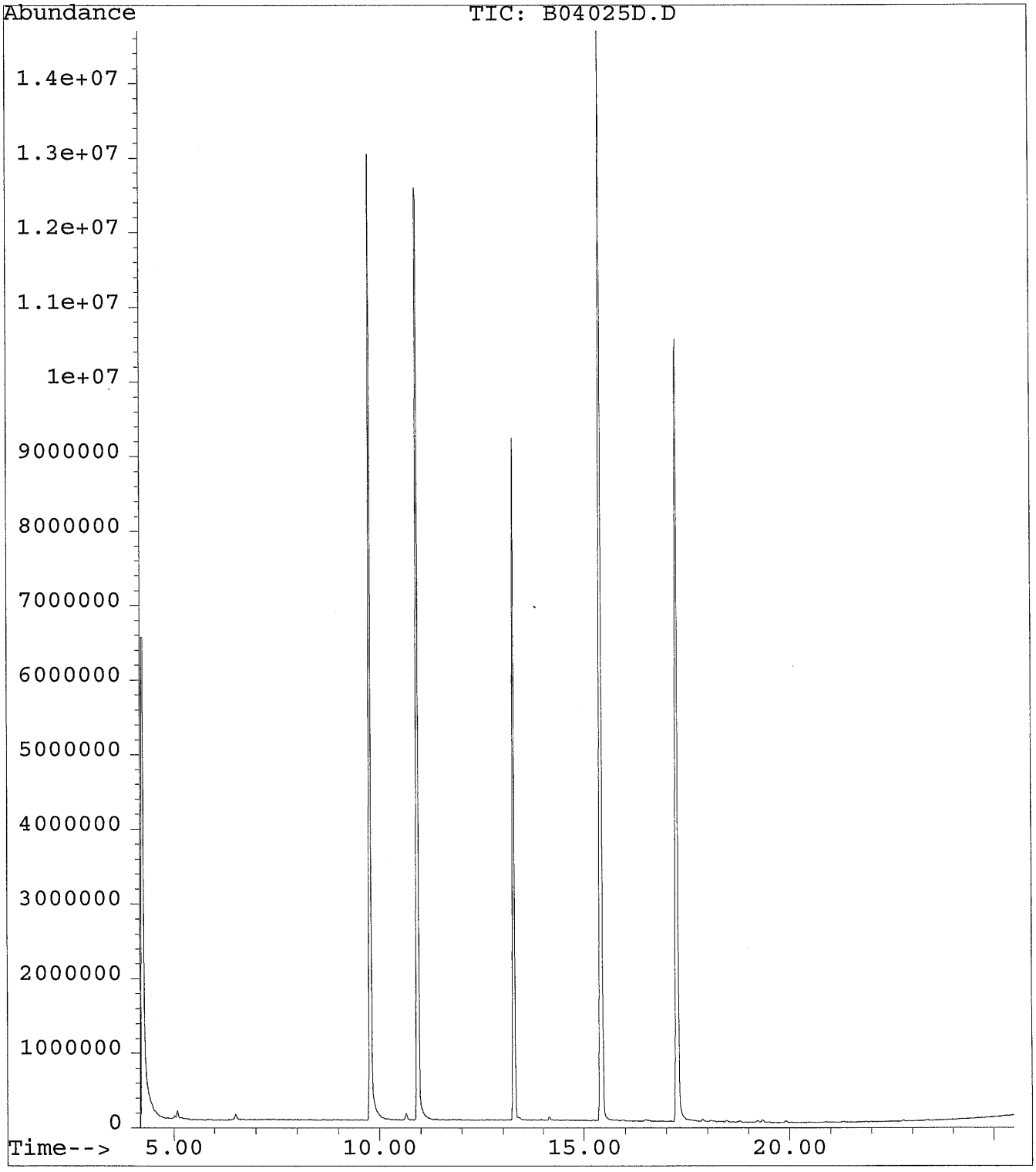
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	1.117	0	20.0	13141153	0.000	0.00	0.00
3	Dichlorodifluoromethane	PFB	TRG	120.9	0.395	0	20.0	13141153	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	0.922	32526	20.0	13141153	0.045	0.15	0.20
5	Chloromethane	PFB	TRG	50.5	0.401	0	20.0	13141153	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.350	0	20.0	13141153	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.325	0	20.0	13141153	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.196	0	20.0	13141153	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.140	0	20.0	13141153	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.724	0	20.0	13141153	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.203	0	20.0	13141153	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	1.182	0	20.0	13141153	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.705	0	20.0	13141153	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.453	35779	20.0	13141153	0.228	0.76	1.81
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.242	0	20.0	13141153	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.870	0	20.0	13141153	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.338	0	20.0	13141153	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	1.114	0	20.0	13141153	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.801	0	20.0	13141153	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.089	0	20.0	13141153	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.214	0	20.0	13141153	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.793	0	20.0	13141153	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.833	0	20.0	13141153	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.219	0	20.0	13141153	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	0.389	0	20.0	13141153	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.720	0	20.0	13141153	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	1.280	0	20.0	13141153	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	0.854	0	20.0	13141153	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.777	0	20.0	13141153	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.784	0	20.0	13141153	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	1.517	0	20.0	13141153	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.584	0	20.0	13141153	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.512	0	20.0	13141153	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.606	0	20.0	13141153	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.343	0	20.0	13141153	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.628	0	20.0	13141153	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.889	0	20.0	13141153	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.488	0	20.0	13141153	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.663	0	20.0	13141153	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.753	0	20.0	13141153	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	1.574	0	20.0	13141153	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	6.068	0	20.0	15673592	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	4.917	0	20.0	15673592	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	4.013	0	20.0	15673592	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	9.166	0	20.0	15673592	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	10.728	119651	20.0	15673592	0.142	0.47	1.52
48	Carbon tetrachloride	14DF	TRG	153.8	7.953	0	20.0	15673592	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	16.166	0	20.0	15673592	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	7.257	0	20.0	15673592	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	13.151	0	20.0	15673592	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	11.567	0	20.0	15673592	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	7.717	0	20.0	15673592	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	10.425	0	20.0	15673592	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	11.908	0	20.0	15673592	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	8.679	0	20.0	15673592	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	19.116	0	20.0	15673592	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	37.946	0	20.0	15673592	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	17.717	0	20.0	15673592	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	17.443	20503	20.0	15673592	0.017	0.06	0.22
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	22.335	0	20.0	15673592	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	26.789	0	20.0	15673592	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	3.219	0	20.0	15673592	0.000	0.00	0.00
65	2-Hexanone	14DF	TRG	100.2	2.202	0	20.0	15673592	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	17.591	0	20.0	15673592	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	8.617	0	20.0	15673592	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	2.321	0	20.0	15673592	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	#DIV/0!	0	20.0	15673592	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	#DIV/0!	0	20.0	15673592	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
75	m,p-Xylenes	d5CB	TRG	106.2	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
76	Nonane	d5CB	TRG	128.3	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	#DIV/0!	25585	20.0	15885093	0.029	0.10	0.41
78	Bromoform	d5CB	TRG	252.7	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	#DIV/0!	21721	20.0	15885093	0.008	0.03	0.14

85	4-Ethyltoluene	d5CB	TRG	120.2	#DIV/0!	21721	20.0	15885093	0.013	0.04	0.21
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	#DIV/0!	21721	20.0	15885093	0.014	0.05	0.23
87	Decane	d5CB	TRG	142.3	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	#DIV/0!	22936	20.0	15885093	0.014	0.05	0.23
90	i-Butylbenzene	d5CB	TRG	134.2	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	#DIV/0!	22936	20.0	15885093	0.009	0.03	0.17
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	#DIV/0!	25102	20.0	15885093	0.024	0.08	0.48
93	Isopropyltoluene	d5CB	TRG	134.2	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	#DIV/0!	25102	20.0	15885093	0.026	0.09	0.53
96	n-Butylbenzene	d5CB	TRG	134.2	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	#DIV/0!	25573	20.0	15885093	0.021	0.07	0.42
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
100	Naphthalene	d5CB	TRG	128.2	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	#DIV/0!	0	20.0	15885093	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	13141153	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	15673592	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15885093	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9769062	10.0		10.139	101.39	101

File : C:\MSCHEM\1\DATA\04025A_C\B04025D.D
Operator : DA
Acquired : 2 Apr 125 11:10 am using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: METHOD BLANK
Misc Info :
Vial Number: 1



METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC
Laboratory ID: B04035

File Name: B04035D.D
Description: METHOD BLANK
Canister:
QC_Batch: 040325-MA1

Date Sampled:
Date Analyzed: 04/03/25
Can Dilution Factor: 1.00
Air Volume: 200 ml

Time:
Time: 11:42

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.50	1.25	ND	0.86	2.15	ND	
75-71-8	Dichlorodifluoromethane	0.75	1.25	ND	3.71	6.19	ND	
67-56-1	Methanol	2.50	3.00	ND	3.28	3.93	ND	
74-87-3	Chloromethane	0.75	1.25	ND	1.55	2.59	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.50	1.25	ND	3.50	8.75	ND	
75-01-4	Vinyl chloride	0.25	1.25	ND	0.64	3.20	ND	
106-99-0	1,3-Butadiene	0.25	1.25	ND	0.56	2.77	ND	
74-83-9	Bromomethane	0.50	1.25	ND	1.94	4.86	ND	
75-00-3	Chloroethane	0.50	1.25	ND	1.32	3.30	ND	
64-17-5	Ethanol	2.50	16.05	ND	4.72	30.30	ND	
107-02-8	Acrolein	0.50	1.50	ND	1.15	3.45	ND	
75-69-4	Trichlorofluoromethane	0.50	1.25	ND	2.81	7.03	ND	
67-64-1	Acetone	2.50	3.00	ND	5.95	7.14	ND	
67-63-0	2-propanol (isopropylalcohol)	1.00	6.25	ND	2.46	15.38	ND	
75-65-0	t-Butyl alcohol	0.50	5.00	ND	1.52	15.17	ND	
4227-95-6	Methyl iodide	0.50	1.50	ND	2.93	8.78	ND	
75-35-4	1,1-Dichloroethene	0.25	1.25	ND	0.99	4.96	ND	
107-13-1	Acrylonitrile	1.00	1.50	ND	2.17	3.26	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	1.25	ND	1.92	9.59	ND	
107-05-1	Allyl chloride	0.25	5.00	ND	0.78	15.67	ND	
75-09-2	Methylene chloride	0.25	1.25	ND	0.87	4.35	ND	
75-15-0	Carbon disulfide	0.50	1.25	ND	1.56	3.90	ND	
156-60-5	trans-1,2-Dichloroethene	0.25	1.00	ND	0.99	3.97	ND	
1634-04-4	Methyl tert butyl ether	0.50	1.00	ND	1.80	3.61	ND	
107-12-0	Propionitrile	1.25	2.00	ND	2.82	4.51	ND	
75-34-3	1,1-Dichloroethane	0.25	1.25	ND	1.01	5.07	ND	
637-92-3	Ethyl tert butyl ether	0.50	1.25	ND	2.09	5.23	ND	
108-05-4	Vinyl acetate	0.25	5.00	ND	0.88	17.63	ND	
78-93-3	2-Butanone (MEK)	0.50	1.50	ND	1.48	4.43	ND	
108-20-3	Diisopropyl ether	0.50	3.00	ND	2.09	12.56	ND	
110-54-3	Hexane	0.50	1.25	ND	1.77	4.41	ND	
126-98-7	Methacrylonitrile	0.50	1.25	ND	1.37	3.44	ND	
141-78-6	Ethyl acetate	0.50	1.25	ND	1.80	4.51	ND	
74-97-5	Bromochloromethane	0.25	1.25	ND	1.32	6.62	ND	
96-33-3	Methyl acrylate	0.50	2.50	ND	1.76	8.82	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.25	1.50	ND	0.74	4.43	ND	
78-83-1	Isobutyl alcohol	1.00	4.00	ND	3.03	12.14	ND	
156-59-2	cis-1,2-Dichloroethene	0.25	1.25	ND	0.99	4.96	ND	
594-20-7	2,2-Dichloropropane	0.25	1.25	ND	1.16	5.78	ND	
67-66-3	Chloroform	0.25	1.25	ND	1.23	6.11	ND	
71-55-6	1,1,1-Trichloroethane	0.25	1.25	ND	1.37	6.83	ND	
107-06-2	1,2-Dichloroethane	0.25	1.25	ND	1.01	5.07	ND	
563-58-6	1,1-Dichloropropene	0.25	1.25	ND	1.14	5.68	ND	
110-82-7	Cyclohexane	0.25	1.25	ND	0.86	4.31	ND	
71-43-2	Benzene	1.75	2.50	ND	5.60	8.00	ND	
56-23-5	Carbon tetrachloride	0.25	1.25	ND	1.57	7.87	ND	
994-05-8	t-Amyl methyl ether	0.50	2.50	ND	2.09	10.46	ND	
540-84-1	2,2,4-Trimethylpentane	0.25	1.25	ND	1.17	5.85	ND	
142-82-5	n-Heptane	0.50	1.25	ND	2.05	5.13	ND	
78-87-5	1,2-Dichloropropane	0.25	1.25	ND	1.16	5.78	ND	
123-91-1	1,4 Dioxane	0.50	2.50	ND	1.80	9.02	ND	
74-95-3	Dibromomethane	0.25	1.25	ND	1.78	8.90	ND	
79-01-6	Trichloroethene (TCE)	0.13	1.25	ND	0.67	6.73	ND	
75-27-4	Bromodichloromethane	0.25	1.25	ND	1.68	8.39	ND	
80-62-6	Methyl methacrylate	0.50	1.25	ND	2.05	5.12	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.50	4.00	ND	2.05	16.41	ND	
10061-01-5	cis-1,3-Dichloropropene	0.25	1.25	ND	1.14	5.68	ND	
108-88-3	Toluene	1.00	1.25	ND	3.77	4.71	ND	
10061-02-6	trans-1,3-Dichloropropene	0.25	1.25	ND	1.14	5.68	ND	
79-00-5	1,1,2-Trichloroethane	0.25	1.25	ND	1.37	6.83	ND	
97-63-2	Ethyl methacrylate	0.50	1.25	ND	2.34	5.85	ND	
591-78-6	2-Hexanone	0.50	4.00	ND	2.05	16.41	ND	
142-28-9	1,3-Dichloropropane	0.25	3.50	ND	1.16	16.20	ND	
111-65-9	Octane	0.50	1.25	ND	2.34	5.85	ND	
124-48-1	Dibromochloromethane	0.50	1.25	ND	4.27	10.66	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.50	1.25	ND	3.85	9.62	ND	
127-18-4	Tetrachloroethene (PCE)	0.13	1.25	ND	0.85	8.49	ND	
108-90-7	Chlorobenzene	0.50	1.25	ND	2.31	5.76	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.50	1.25	ND	3.44	8.59	ND	
100-41-4	Ethylbenzene	0.50	1.25	ND	2.17	5.44	ND	
1330-20-7	m,p-Xylenes	0.50	1.25	ND	2.17	5.44	ND	
111-84-2	Nonane	0.50	1.25	ND	2.63	6.57	ND	
100-42-5	Styrene	0.75	1.25	ND	3.20	5.33	ND	
75-25-2	Bromoform	0.50	1.25	ND	5.17	12.94	ND	
95-47-6	o-Xylene	0.50	1.25	ND	2.17	5.44	ND	
79-34-5	1,1,2,2-Tetrachloroethane	1.00	2.50	ND	6.87	17.18	ND	
96-18-4	1,2,3-Trichloropropane	1.00	3.00	ND	6.04	18.11	ND	
110-57-6	t-1,4-Dichloro-2-butene	1.00	3.00	ND	5.12	15.36	ND	
103-65-1	n-Propylbenzene	1.00	3.50	ND	4.92	17.23	ND	
98-82-8	Isopropylbenzene	1.00	3.50	ND	4.92	17.23	ND	
622-96-8	4-Ethyltoluene	1.00	8.00	ND	4.92	39.38	ND	
108-67-8	1,3,5-Trimethylbenzene	1.00	4.50	ND	4.92	22.15	ND	
124-18-5	Decane	1.00	3.00	ND	5.83	17.48	ND	
98-06-6	tert-butyl benzene	1.00	3.00	ND	5.50	16.49	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	1.00	4.50	ND	4.92	22.15	ND	
538-93-2	i-Butylbenzene	1.00	3.00	ND	5.50	16.49	ND	
135-98-8	sec-butylbenzene	1.00	3.50	ND	5.50	19.24	ND	
541-73-1	1,3-Dichlorobenzene	1.00	4.00	ND	6.02	24.08	ND	
99-87-6	Isopropyltoluene	1.00	3.00	ND	5.50	16.49	ND	
100-44-7	Benzyl chloride	1.00	2.50	ND	5.18	12.96	ND	
106-46-7	1,4-Dichlorobenzene	1.00	2.50	ND	6.02	15.05	ND	
104-51-8	n-Butylbenzene	1.00	3.00	ND	5.50	16.49	ND	
95-50-1	1,2-Dichlorobenzene	1.00	3.50	ND	6.02	21.07	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.50	3.50	ND	14.52	33.87	ND	
120-82-1	1,2,4-Trichlorobenzene	1.50	2.50	ND	11.14	18.57	ND	
91-20-3	Naphthalene	2.50	0.50	ND	13.13	2.63	ND	
87-61-6	1,2,3-Trichlorobenzene	1.50	2.50	ND	11.14	18.57	ND	
87-68-3	Hexachlorobutadiene	1.25	1.50	ND	13.35	16.02	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	99	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**LABQC**		
				EAS ID:	**B04035**		
File Name:	B04035D.D	**Method:**	**TO-15**	**Date Sampled:**	**NA**	**Time:**	**NA**
Sample ID:	METHOD BLANK	**Matrix:**	**AA**	**Date Received:**	**NA**	**Time:**	**NA**
MiscInfo-Vol:		**Detect:**	**ND**	**Date Analyzed:**	**04/03/25**	**Time:**	**11:42**
Anal Date:	3 Apr 125 11:42 am	**SF:**	**2**	**QCbatch:**	**040325-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**200.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**NA**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.00**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	MM	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.5**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.000	4.41	42.00	0
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.000	4.86	31.00	0
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	0.196	6.42	58.00	31906
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	0.000	9.51	74.00	0
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.000	10.74	56.00	0
71-43-2	Benzene	47	TRG	0.218	10.70	78.00	180311
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.000	10.95	73.00	0
540-84-1	2,2,4-Trimethylpentane	50	TRG	0.000	11.25	57.00	0
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.018	13.50	91.00	20555
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.048	13.63	69.00	25777
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.022	15.62	112.00	15575
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.019	15.90	106	23477
1330-20-7	m,p-Xylenes	75	TRG	0.000	16.06	91.00	0
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.023	16.61	104.00	17456
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.000	0.00	91.00	0
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.000	18.04	91.00	0
98-82-8	Isopropylbenzene	84	TRG	0.013	18.23	105.00	28462
622-96-8	4-Ethyltoluene	85	TRG	0.019	18.23	105.00	28462
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.011	18.31	105.00	15254
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.017	18.95	105.00	23533
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.033	19.39	146.00	30133
99-87-6	Isopropyltoluene	93	TRG	0.000	19.53	119.00	0
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.044	19.39	146.00	36617
104-51-8	n-Butylbenzene	96	TRG	0.000	20.20	91.00	0
95-50-1	1,2-Dichlorobenzene	97	TRG	0.031	20.07	146.00	32801
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.189	22.95	180.00	12783
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**13618424**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**15418813**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**13823683**
2037-26-5	Toluene-d8	103	SURR	9.878	13.40	98.00	**9363152**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**LABQC**		EDD SURR:	PERCENT		IS LCL	50		Gas Constant					
Laboratory Number:	**B04035**		Sam Type:	SA		IS UCL	200		T	24.5				
File Name:	B04035D.D		Instrument:	MA1		SUR LCL	70		P	760				
Run Method:	A1563_P.M		DETECT:	ND		SUR UCL	130		MV	24.417				
Can Factor:	1.00		Matrix:	AA		MDL Factor	1.0		GC	24.417				
Air Volume:	200.0	ml	Type:	TRG		E Flag	1.5							
Can/Tube Number:	NA		Diluton:	0.2000										
Dilution Factor:	0.2000		Sig Figs:	2										
Base Volume:	1000	ml	MDLSF:	2										
Unit Factor (ppbv):	1000	PPBV	UG/M3		Fixed	Fixed	Fixed	Fixed	(1)	(2)	Calc	Calc	Calc	
	M.W.	Raw	ResultV	Result	Result	Result	ResultQ	ResultG	MDL	RL	MDL	MDL	RL	
Compound		Amount	PPBV	UG/M3	PPBV	UG/M3	UG/M3	UG/M3		PPBV	PPBV	UG/M3	PPBV	
Propylene	42.08	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.50	0.86	1.25	
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	0.75	3.71	1.25	
Methanol	32.0	0.00	0.00	0.00	ND	ND	0		**0.500**	**0.600**	2.50	3.28	3.00	
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	0.75	1.55	1.25	
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.50	3.50	1.25	
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.25	0.64	1.25	
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.25	0.56	1.25	
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.50	1.94	1.25	
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.50	1.32	1.25	
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		**0.500**	**3.210**	2.50	4.72	16.05	
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	0.50	1.15	1.50	
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.50	2.81	1.25	
Acetone	58.1	0.20	0.98	2.34	ND	ND	0		**0.500**	**0.600**	2.50	5.95	3.00	
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**1.250**	1.00	2.46	6.25	
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**1.000**	0.50	1.52	5.00	
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	0.50	2.93	1.50	
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.25	0.99	1.25	
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.300**	1.00	2.17	1.50	
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.25	1.92	1.25	
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	0.25	0.78	5.00	
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.25	0.87	1.25	
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.50	1.56	1.25	
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.200**	0.25	0.99	1.00	
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.200**	0.50	1.80	1.00	
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		**0.250**	**0.400**	1.25	2.82	2.00	
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.25	1.01	1.25	
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.50	2.09	1.25	
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	0.25	0.88	5.00	
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	0.50	1.48	1.50	
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.600**	0.50	2.09	3.00	
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.50	1.77	1.25	
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.50	1.37	1.25	
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.50	1.80	1.25	
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.25	1.32	1.25	
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.50	1.76	2.50	
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.300**	0.25	0.74	1.50	
Isobutyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.800**	1.00	3.03	4.00	
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.25	0.99	1.25	
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.25	1.16	1.25	
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.25	1.23	1.25	
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.25	1.37	1.25	
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.25	1.01	1.25	
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.25	1.14	1.25	
Cyclohexane	84.2	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.25	0.86	1.25	
Benzene	78.1	0.22	1.09	3.48	ND	ND	0		**0.350**	**0.500**	1.75	5.60	2.50	
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.25	1.57	1.25	
t-Amyl methyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.50	2.09	2.50	
2,2,4-Trimethylpentane	114.2	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.25	1.17	1.25	
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.50	2.05	1.25	

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.16	1.25
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.50	1.80	2.50
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.78	1.25
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.13	0.67	1.25
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.68	1.25
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.50	2.05	1.25
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.50	2.05	4.00
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.14	1.25
Toluene	92.1	0.02	0.09	0.34	ND	ND	0		0.200	0.250	1.00	3.77	1.25
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.14	1.25
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.25	1.37	1.25
Ethyl methacrylate	114.2	0.05	0.24	1.12	ND	ND	0		0.100	0.250	0.50	2.34	1.25
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.50	2.05	4.00
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.25	1.16	3.50
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.50	2.34	1.25
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.50	4.27	1.25
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.50	3.85	1.25
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.13	0.85	1.25
Chlorobenzene	112.6	0.02	0.11	0.52	ND	ND	0		0.100	0.250	0.50	2.31	1.25
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.50	3.44	1.25
Ethylbenzene	106.2	0.02	0.10	0.41	ND	ND	0		0.100	0.250	0.50	2.17	1.25
m,p-Xylenes	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.50	2.17	1.25
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.50	2.63	1.25
Styrene	104.2	0.02	0.11	0.49	ND	ND	0		0.150	0.250	0.75	3.20	1.25
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.50	5.17	1.25
o-Xylene	106.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.50	2.17	1.25
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	1.00	6.87	2.50
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	1.00	6.04	3.00
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	1.00	5.12	3.00
n-Propylbenzene	120.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	1.00	4.92	3.50
Isopropylbenzene	120.2	0.01	0.06	0.31	ND	ND	0		0.200	0.700	1.00	4.92	3.50
4-Ethyltoluene	120.2	0.02	0.09	0.47	ND	ND	0		0.200	1.600	1.00	4.92	8.00
1,3,5-Trimethylbenzene	120.2	0.01	0.06	0.28	ND	ND	0		0.200	0.900	1.00	4.92	4.50
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	1.00	5.83	3.00
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	1.00	5.50	3.00
1,2,4-Trimethylbenzene	120.2	0.02	0.08	0.41	ND	ND	0		0.200	0.900	1.00	4.92	4.50
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	1.00	5.50	3.00
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	1.00	5.50	3.50
1,3-Dichlorobenzene	147.0	0.03	0.17	1.00	ND	ND	0		0.200	0.800	1.00	6.02	4.00
Isopropyltoluene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	1.00	5.50	3.00
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	1.00	5.18	2.50
1,4-Dichlorobenzene	147.0	0.04	0.22	1.33	ND	ND	0		0.200	0.500	1.00	6.02	2.50
n-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	1.00	5.50	3.00
1,2-Dichlorobenzene	147.0	0.03	0.16	0.93	ND	ND	0		0.200	0.700	1.00	6.02	3.50
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.50	14.52	3.50
1,2,4-Trichlorobenzene	181.4	0.19	0.94	7.02	ND	ND	0		0.300	0.500	1.50	11.14	2.50
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	2.50	13.13	0.50
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.50	11.14	2.50
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	1.25	13.35	1.50
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		9.88	99	99	99	99	99	99	10.0	10.0			
0													
0													
0													

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
2.15	U	ND		ND		Y	0.00	0.00
6.19	U	ND		ND		Y	0.00	0.00
3.93	U	ND		ND		Y	0.00	0.00
2.59	U	ND		ND		Y	0.00	0.00
8.75	U	ND		ND		Y	0.00	0.00
3.20	U	ND		ND		Y	0.00	0.00
2.77	U	ND		ND		Y	0.00	0.00
4.86	U	ND		ND		Y	0.00	0.00
3.30	U	ND		ND		Y	0.00	0.00
30.30	U	ND		ND		Y	0.00	0.00
3.45	U	ND		ND		Y	0.00	0.00
7.03	U	ND		ND		Y	0.00	0.00
7.14	U	ND		ND		Y	0.00	0.00
15.38	U	ND		ND		Y	0.00	0.00
15.17	U	ND		ND		Y	0.00	0.00
8.78	U	ND		ND		Y	0.00	0.00
4.96	U	ND		ND		Y	0.00	0.00
3.26	U	ND		ND		Y	0.00	0.00
9.59	U	ND		ND		Y	0.00	0.00
15.67	U	ND		ND		Y	0.00	0.00
4.35	U	ND		ND		Y	0.00	0.00
3.90	U	ND		ND		Y	0.00	0.00
3.97	U	ND		ND		Y	0.00	0.00
3.61	U	ND		ND		Y	0.00	0.00
4.51	U	ND		ND		Y	0.00	0.00
5.07	U	ND		ND		Y	0.00	0.00
5.23	U	ND		ND		Y	0.00	0.00
17.63	U	ND		ND		Y	0.00	0.00
4.43	U	ND		ND		Y	0.00	0.00
12.56	U	ND		ND		Y	0.00	0.00
4.41	U	ND		ND		Y	0.00	0.00
3.44	U	ND		ND		Y	0.00	0.00
4.51	U	ND		ND		Y	0.00	0.00
6.62	U	ND		ND		Y	0.00	0.00
8.82	U	ND		ND		Y	0.00	0.00
4.43	U	ND		ND		Y	0.00	0.00
12.14	U	ND		ND		Y	0.00	0.00
4.96	U	ND		ND		Y	0.00	0.00
5.78	U	ND		ND		Y	0.00	0.00
6.11	U	ND		ND		Y	0.00	0.00
6.83	U	ND		ND		Y	0.00	0.00
5.07	U	ND		ND		Y	0.00	0.00
5.68	U	ND		ND		Y	0.00	0.00
4.31	U	ND		ND		Y	0.00	0.00
8.00	U	ND		ND		Y	0.00	0.00
7.87	U	ND		ND		Y	0.00	0.00
10.46	U	ND		ND		Y	0.00	0.00
5.85	U	ND		ND		Y	0.00	0.00
5.13	U	ND		ND		Y	0.00	0.00

5.78	U	ND	ND	Y	0.00	0.00
9.02	U	ND	ND	Y	0.00	0.00
8.90	U	ND	ND	Y	0.00	0.00
6.73	U	ND	ND	Y	0.00	0.00
8.39	U	ND	ND	Y	0.00	0.00
5.12	U	ND	ND	Y	0.00	0.00
16.41	U	ND	ND	Y	0.00	0.00
5.68	U	ND	ND	Y	0.00	0.00
4.71	U	ND	ND	Y	0.00	0.00
5.68	U	ND	ND	Y	0.00	0.00
6.83	U	ND	ND	Y	0.00	0.00
5.85	U	ND	ND	Y	0.00	0.00
16.41	U	ND	ND	Y	0.00	0.00
16.20	U	ND	ND	Y	0.00	0.00
5.85	U	ND	ND	Y	0.00	0.00
10.66	U	ND	ND	Y	0.00	0.00
9.62	U	ND	ND	Y	0.00	0.00
8.49	U	ND	ND	Y	0.00	0.00
5.76	U	ND	ND	Y	0.00	0.00
8.59	U	ND	ND	Y	0.00	0.00
5.44	U	ND	ND	Y	0.00	0.00
5.44	U	ND	ND	Y	0.00	0.00
6.57	U	ND	ND	Y	0.00	0.00
5.33	U	ND	ND	Y	0.00	0.00
12.94	U	ND	ND	Y	0.00	0.00
5.44	U	ND	ND	Y	0.00	0.00
17.18	U	ND	ND	Y	0.00	0.00
18.11	U	ND	ND	Y	0.00	0.00
15.36	U	ND	ND	Y	0.00	0.00
17.23	U	ND	ND	Y	0.00	0.00
17.23	U	ND	ND	Y	0.00	0.00
39.38	U	ND	ND	Y	0.00	0.00
22.15	U	ND	ND	Y	0.00	0.00
17.48	U	ND	ND	Y	0.00	0.00
16.49	U	ND	ND	Y	0.00	0.00
22.15	U	ND	ND	Y	0.00	0.00
16.49	U	ND	ND	Y	0.00	0.00
19.24	U	ND	ND	Y	0.00	0.00
24.08	U	ND	ND	Y	0.00	0.00
16.49	U	ND	ND	Y	0.00	0.00
12.96	U	ND	ND	Y	0.00	0.00
15.05	U	ND	ND	Y	0.00	0.00
16.49	U	ND	ND	Y	0.00	0.00
21.07	U	ND	ND	Y	0.00	0.00
33.87	U	ND	ND	Y	0.00	0.00
18.57	U	ND	ND	Y	0.00	0.00
2.63	U	ND	ND	Y	0.00	0.00
18.57	U	ND	ND	Y	0.00	0.00
16.02	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**LABQC**	
Laboratory Number:		**B04035**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	200	ml
Can Dilution Factor	CDF	1.00	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) = **Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

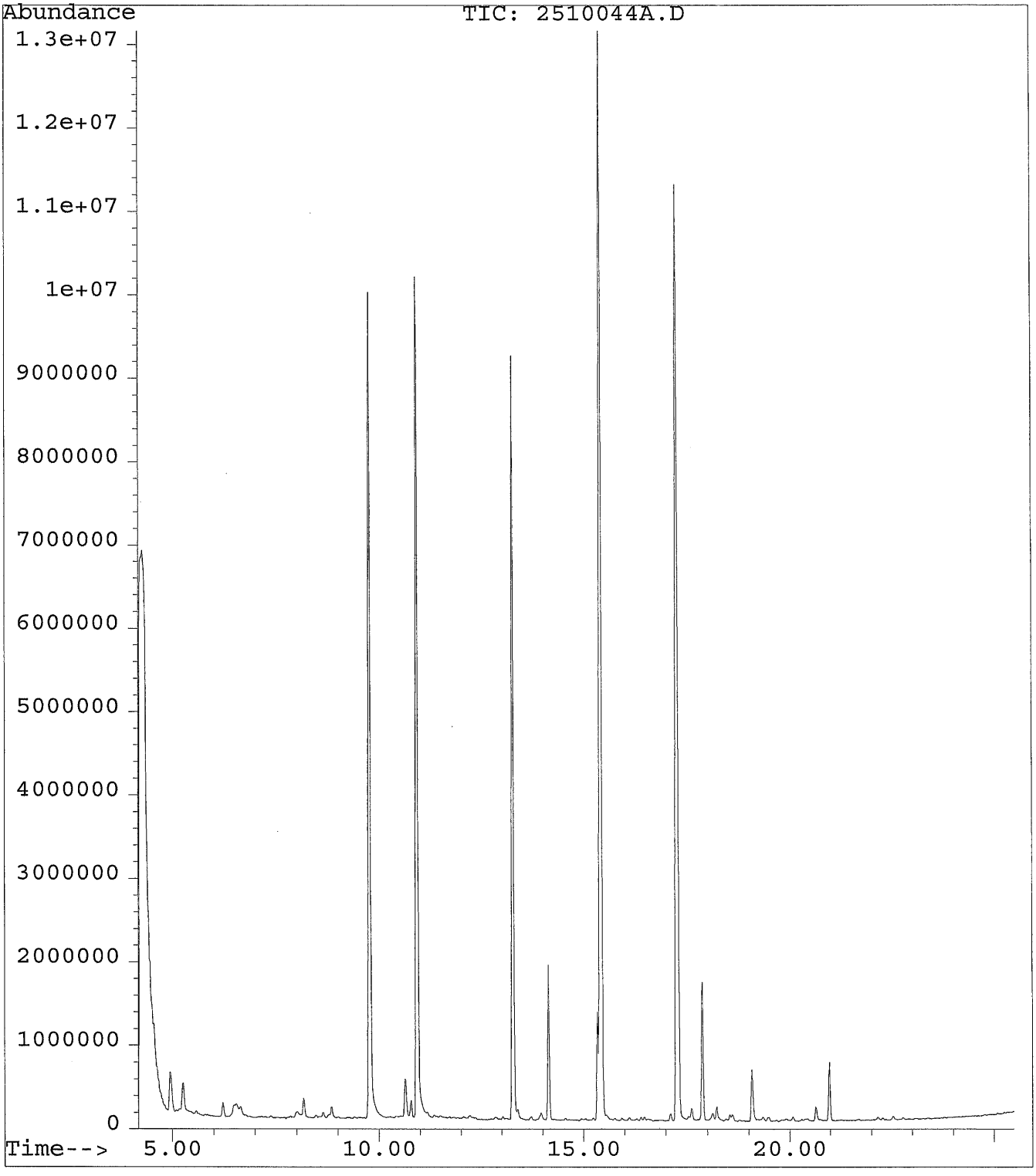
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.077	0	20.0	13618424	0.000	0.00	0.00
3	Dichlorodifluoromethane	PFB	TRG	120.9	0.388	0	20.0	13618424	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	0.325	0	20.0	13618424	0.000	0.00	0.00
5	Chloromethane	PFB	TRG	50.5	0.125	0	20.0	13618424	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.338	0	20.0	13618424	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.154	0	20.0	13618424	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.136	0	20.0	13618424	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.175	0	20.0	13618424	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.080	0	20.0	13618424	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.013	0	20.0	13618424	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.057	0	20.0	13618424	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.349	0	20.0	13618424	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.109	31906	20.0	13618424	0.196	0.98	2.34
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.402	0	20.0	13618424	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.524	0	20.0	13618424	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.638	0	20.0	13618424	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.299	0	20.0	13618424	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.127	0	20.0	13618424	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.400	0	20.0	13618424	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.111	0	20.0	13618424	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.132	0	20.0	13618424	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.400	0	20.0	13618424	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.208	0	20.0	13618424	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	0.433	0	20.0	13618424	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.147	0	20.0	13618424	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.326	0	20.0	13618424	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	0.429	0	20.0	13618424	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.076	0	20.0	13618424	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.110	0	20.0	13618424	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.141	0	20.0	13618424	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.286	0	20.0	13618424	0.000	0.00	0.00

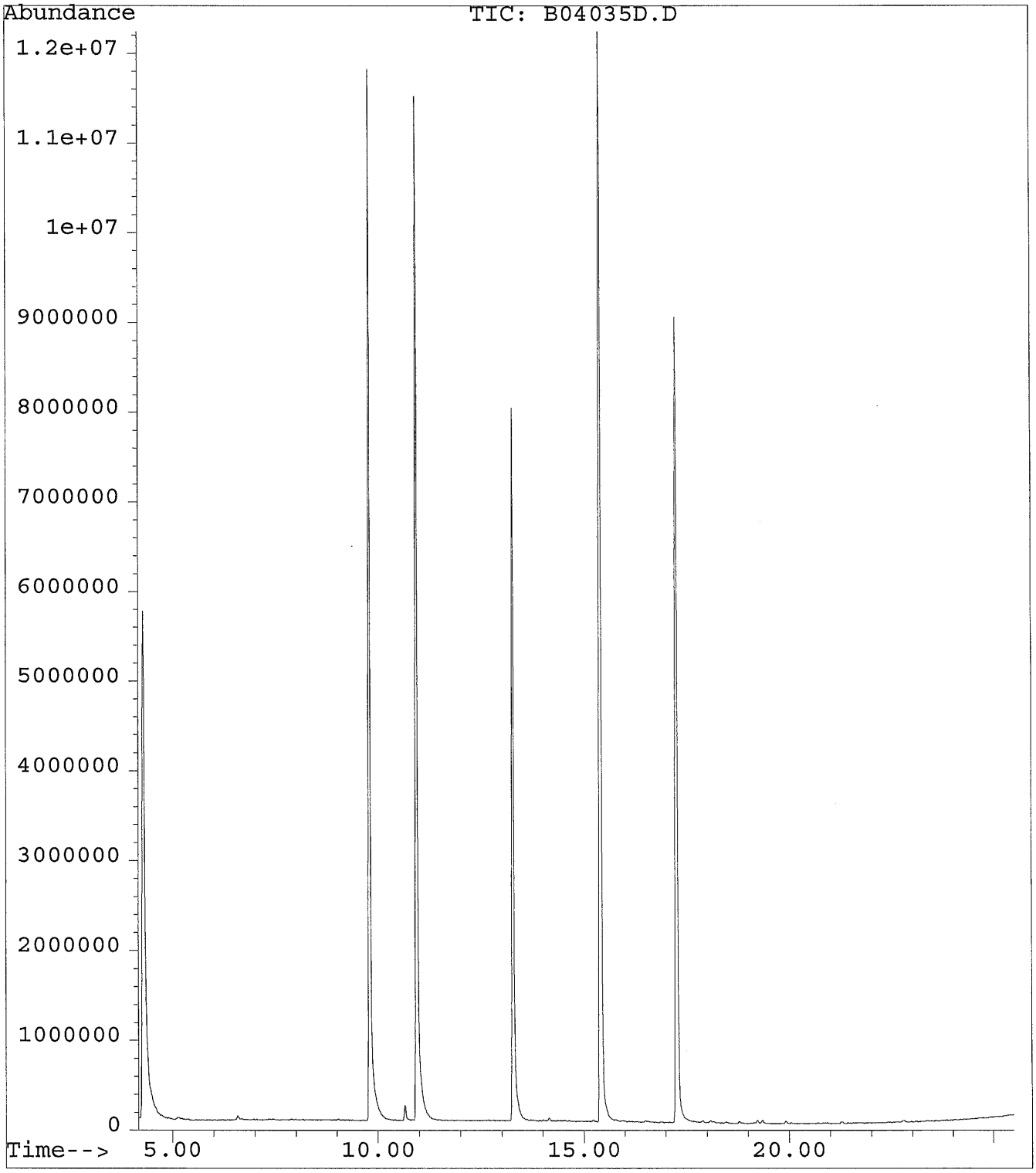
33	Methacrylonitrile	PFB	TRG	67.1	0.099	0	20.0	13618424	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.350	0	20.0	13618424	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.316	0	20.0	13618424	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.208	0	20.0	13618424	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.123	0	20.0	13618424	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.059	0	20.0	13618424	0.000	0.00	0.00
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.239	0	20.0	13618424	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.284	0	20.0	13618424	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.339	0	20.0	13618424	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.477	0	20.0	15418813	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.376	0	20.0	15418813	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.398	0	20.0	15418813	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.364	0	20.0	15418813	0.000	0.00	0.00
47	Benzene	14DF	TRG	78.1	0.823	180311	20.0	15418813	0.218	1.09	3.48
48	Carbon tetrachloride	14DF	TRG	153.8	0.366	0	20.0	15418813	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	0.938	0	20.0	15418813	0.000	0.00	0.00
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	1.306	0	20.0	15418813	0.000	0.00	0.00
51	n-Heptane	14DF	TRG	100.2	0.276	0	20.0	15418813	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.312	0	20.0	15418813	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.337	0	20.0	15418813	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.984	0	20.0	15418813	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.699	0	20.0	15418813	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.413	0	20.0	15418813	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.241	0	20.0	15418813	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.434	0	20.0	15418813	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.357	0	20.0	15418813	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.215	20555	20.0	15418813	0.018	0.09	0.34
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.346	0	20.0	15418813	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.246	0	20.0	15418813	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.481	25777	20.0	15418813	0.048	0.24	1.12
65	2-Hexanone	14DF	TRG	100.2	0.784	0	20.0	15418813	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.677	0	20.0	15418813	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.387	0	20.0	15418813	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.711	0	20.0	15418813	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.842	0	20.0	15418813	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	1.398	0	20.0	15418813	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.145	15575	20.0	13823683	0.022	0.11	0.52
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.488	0	20.0	13823683	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.497	23477	20.0	13823683	0.019	0.10	0.41
75	m,p-Xylenes	d5CB	TRG	106.2	1.297	0	20.0	13823683	0.000	0.00	0.00
76	Nonane	d5CB	TRG	128.3	0.575	0	20.0	13823683	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.008	17456	20.0	13823683	0.023	0.11	0.49
78	Bromoform	d5CB	TRG	252.7	0.957	0	20.0	13823683	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.314	0	20.0	13823683	0.000	0.00	0.00
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.186	0	20.0	13823683	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.502	0	20.0	13823683	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.081	0	20.0	13823683	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	2.144	0	20.0	13823683	0.000	0.00	0.00
84	Isopropylbenzene	d5CB	TRG	120.2	3.882	28462	20.0	13823683	0.013	0.06	0.31

85	4-Ethyltoluene	d5CB	TRG	120.2	1.613	28462	20.0	13823683	0.019	0.09	0.47
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.810	15254	20.0	13823683	0.011	0.06	0.28
87	Decane	d5CB	TRG	142.3	0.882	0	20.0	13823683	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.678	0	20.0	13823683	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	1.453	23533	20.0	13823683	0.017	0.08	0.41
90	i-Butylbenzene	d5CB	TRG	134.2	1.786	0	20.0	13823683	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	2.164	0	20.0	13823683	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	2.201	30133	20.0	13823683	0.033	0.17	1.00
93	Isopropyltoluene	d5CB	TRG	134.2	2.356	0	20.0	13823683	0.000	0.00	0.00
94	Benzyl chloride	d5CB	TRG	126.6	0.660	0	20.0	13823683	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	2.004	36617	20.0	13823683	0.044	0.22	1.33
96	n-Butylbenzene	d5CB	TRG	134.2	2.242	0	20.0	13823683	0.000	0.00	0.00
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	2.676	32801	20.0	13823683	0.031	0.16	0.93
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.196	0	20.0	13823683	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.750	12783	20.0	13823683	0.189	0.94	7.02
100	Naphthalene	d5CB	TRG	128.2	0.424	0	20.0	13823683	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.175	0	20.0	13823683	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	3.485	0	20.0	13823683	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	13618424	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	15418813	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	13823683	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9363152	10.0		9.878	98.78	99

File : C:\MSCHEM\1\DATA\04025A_C\2510044A.D
Operator : SS
Acquired : 2 Apr 125 9:18 pm using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: T-308
Misc Info : SCHMIDT
Vial Number: 1



File : C:\MSCHEM\1\DATA\04035A_C\B04035D.D
Operator : MM
Acquired : 3 Apr 125 11:42 am using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: METHOD BLANK
Misc Info :
Vial Number: 1



METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: LABQC

Analytical Method: TO-15 **Laboratory ID: B04045**

File Name: B04045D.D **Date Sampled:** **Time:**
Description: METHOD BLANK **Date Analyzed:** 04/04/25 **Time:** 11:46
Canister: **Can Dilution Factor:** 1.00
QC_Batch: 040425-MA1 **Air Volume:** 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
115-07-1	Propylene	0.33	0.83	ND	0.57	1.44	ND	
75-71-8	Dichlorodifluoromethane	0.50	0.83	ND	2.48	4.13	ND	
67-56-1	Methanol	1.67	2.00	ND	2.18	2.62	ND	
74-87-3	Chloromethane	0.50	0.83	ND	1.03	1.72	ND	
76-14-2	1,2-Dichlorotetrafluoroethane	0.33	0.83	ND	2.33	5.83	ND	
75-01-4	Vinyl chloride	0.17	0.83	ND	0.43	2.13	ND	
106-99-0	1,3-Butadiene	0.17	0.83	ND	0.37	1.85	ND	
74-83-9	Bromomethane	0.33	0.83	ND	1.30	3.24	ND	
75-00-3	Chloroethane	0.33	0.83	ND	0.88	2.20	ND	
64-17-5	Ethanol	1.67	10.70	ND	3.15	20.20	ND	
107-02-8	Acrolein	0.33	1.00	ND	0.77	2.30	ND	
75-69-4	Trichlorofluoromethane	0.33	0.83	ND	1.88	4.69	ND	
67-64-1	Acetone	1.67	2.00	ND	3.97	4.76	ND	
67-63-0	2-propanol (isopropylalcohol)	0.67	4.17	ND	1.64	10.26	ND	
75-65-0	t-Butyl alcohol	0.33	3.33	ND	1.01	10.12	ND	
4227-95-6	Methyl iodide	0.33	1.00	ND	1.95	5.85	ND	
75-35-4	1,1-Dichloroethene	0.17	0.83	ND	0.66	3.31	ND	
107-13-1	Acrylonitrile	0.67	1.00	ND	1.45	2.17	ND	
76-13-1	1,1,2-Trichlorotrifluoroethane	0.17	0.83	ND	1.28	6.40	ND	
107-05-1	Allyl chloride	0.17	3.33	ND	0.52	10.44	ND	
75-09-2	Methylene chloride	0.17	0.83	ND	0.58	2.90	ND	
75-15-0	Carbon disulfide	0.33	0.83	ND	1.04	2.60	ND	
156-60-5	trans-1,2-Dichloroethene	0.17	0.67	ND	0.66	2.65	ND	
1634-04-4	Methyl tert butyl ether	0.33	0.67	ND	1.20	2.41	ND	
107-12-0	Propionitrile	0.83	1.33	ND	1.88	3.01	ND	
75-34-3	1,1-Dichloroethane	0.17	0.83	ND	0.67	3.38	ND	
637-92-3	Ethyl tert butyl ether	0.33	0.83	ND	1.40	3.49	ND	
108-05-4	Vinyl acetate	0.17	3.33	ND	0.59	11.75	ND	
78-93-3	2-Butanone (MEK)	0.33	1.00	ND	0.98	2.95	ND	
108-20-3	Diisopropyl ether	0.33	2.00	ND	1.40	8.37	ND	
110-54-3	Hexane	0.33	0.83	ND	1.18	2.94	ND	
126-98-7	Methacrylonitrile	0.33	0.83	ND	0.92	2.29	ND	
141-78-6	Ethyl acetate	0.33	0.83	ND	1.20	3.01	ND	
74-97-5	Bromochloromethane	0.17	0.83	ND	0.88	4.42	ND	
96-33-3	Methyl acrylate	0.33	1.67	ND	1.18	5.88	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
109-99-9	Tetrahydrofuran	0.17	1.00	ND	0.50	2.95	ND	
78-83-1	Isobutyl alcohol	0.67	2.67	22.58	2.02	8.09	68.52	
156-59-2	cis-1,2-Dichloroethene	0.17	0.83	ND	0.66	3.31	ND	
594-20-7	2,2-Dichloropropane	0.17	0.83	ND	0.77	3.86	ND	
67-66-3	Chloroform	0.17	0.83	ND	0.82	4.08	ND	
71-55-6	1,1,1-Trichloroethane	0.17	0.83	ND	0.91	4.55	ND	
107-06-2	1,2-Dichloroethane	0.17	0.83	ND	0.68	3.38	ND	
563-58-6	1,1-Dichloropropene	0.17	0.83	ND	0.76	3.79	ND	
110-82-7	Cyclohexane	0.17	0.83	2.05	0.57	2.87	7.08	
71-43-2	Benzene	1.17	1.67	ND	3.73	5.33	ND	
56-23-5	Carbon tetrachloride	0.17	0.83	ND	1.05	5.25	ND	
994-05-8	t-Amyl methyl ether	0.33	1.67	0.47	1.40	6.98	1.96	J
540-84-1	2,2,4-Trimethylpentane	0.17	0.83	3.38	0.78	3.90	15.79	
142-82-5	n-Heptane	0.33	0.83	ND	1.37	3.42	ND	
78-87-5	1,2-Dichloropropane	0.17	0.83	ND	0.77	3.86	ND	
123-91-1	1,4 Dioxane	0.33	1.67	ND	1.20	6.01	ND	
74-95-3	Dibromomethane	0.17	0.83	ND	1.19	5.93	ND	
79-01-6	Trichloroethene (TCE)	0.08	0.83	ND	0.45	4.48	ND	
75-27-4	Bromodichloromethane	0.17	0.83	ND	1.12	5.59	ND	
80-62-6	Methyl methacrylate	0.33	0.83	ND	1.37	3.42	ND	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.33	2.67	ND	1.37	10.94	ND	
10061-01-5	cis-1,3-Dichloropropene	0.17	0.83	ND	0.76	3.79	ND	
108-88-3	Toluene	0.67	0.83	ND	2.51	3.14	ND	
10061-02-6	trans-1,3-Dichloropropene	0.17	0.83	ND	0.76	3.79	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.83	ND	0.91	4.55	ND	
97-63-2	Ethyl methacrylate	0.33	0.83	ND	1.56	3.90	ND	
591-78-6	2-Hexanone	0.33	2.67	ND	1.37	10.94	ND	
142-28-9	1,3-Dichloropropane	0.17	2.33	ND	0.77	10.80	ND	
111-65-9	Octane	0.33	0.83	ND	1.56	3.90	ND	
124-48-1	Dibromochloromethane	0.33	0.83	ND	2.84	7.11	ND	
106-93-4	1,2-Dibromoethane (EDB)	0.33	0.83	ND	2.57	6.41	ND	
127-18-4	Tetrachloroethene (PCE)	0.08	0.83	ND	0.57	5.66	ND	
108-90-7	Chlorobenzene	0.33	0.83	ND	1.54	3.84	ND	
630-20-6	1,1,1,2-Tetrachloroethane	0.33	0.83	ND	2.29	5.73	ND	
100-41-4	Ethylbenzene	0.33	0.83	ND	1.45	3.62	ND	
1330-20-7	m,p-Xylenes	0.33	0.83	ND	1.45	3.62	ND	
111-84-2	Nonane	0.33	0.83	ND	1.75	4.38	ND	
100-42-5	Styrene	0.50	0.83	ND	2.13	3.56	ND	
75-25-2	Bromoform	0.33	0.83	ND	3.45	8.62	ND	
95-47-6	o-Xylene	0.33	0.83	ND	1.45	3.62	ND	
79-34-5	1,1,2,2-Tetrachloroethane	0.67	1.67	ND	4.58	11.45	ND	
96-18-4	1,2,3-Trichloropropane	0.67	2.00	ND	4.02	12.07	ND	
110-57-6	t-1,4-Dichloro-2-butene	0.67	2.00	ND	3.41	10.24	ND	
103-65-1	n-Propylbenzene	0.67	2.33	ND	3.28	11.49	ND	
98-82-8	Isopropylbenzene	0.67	2.33	ND	3.28	11.49	ND	
622-96-8	4-Ethyltoluene	0.67	5.33	ND	3.28	26.25	ND	
108-67-8	1,3,5-Trimethylbenzene	0.67	3.00	ND	3.28	14.77	ND	
124-18-5	Decane	0.67	2.00	ND	3.89	11.66	ND	
98-06-6	tert-butyl benzene	0.67	2.00	ND	3.66	10.99	ND	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
95-63-6	1,2,4-Trimethylbenzene	0.67	3.00	ND	3.28	14.77	ND	
538-93-2	i-Butylbenzene	0.67	2.00	ND	3.66	10.99	ND	
135-98-8	sec-butylbenzene	0.67	2.33	ND	3.66	12.82	ND	
541-73-1	1,3-Dichlorobenzene	0.67	2.67	ND	4.01	16.05	ND	
99-87-6	Isopropyltoluene	0.67	2.00	ND	3.66	10.99	ND	
100-44-7	Benzyl chloride	0.67	1.67	ND	3.46	8.64	ND	
106-46-7	1,4-Dichlorobenzene	0.67	1.67	ND	4.01	10.03	ND	
104-51-8	n-Butylbenzene	0.67	2.00	ND	3.66	10.99	ND	
95-50-1	1,2-Dichlorobenzene	0.67	2.33	ND	4.01	14.05	ND	
96-12-8	1,2-Dibromo-3-chloropropane	1.00	2.33	ND	9.68	22.58	ND	
120-82-1	1,2,4-Trichlorobenzene	1.00	1.67	1.00	7.43	12.38	7.45	J
91-20-3	Naphthalene	1.67	0.33	ND	8.75	1.75	ND	
87-61-6	1,2,3-Trichlorobenzene	1.00	1.67	ND	7.43	12.38	ND	
87-68-3	Hexachlorobutadiene	0.83	1.00	ND	8.90	10.68	ND	

	Surrogate Recovery	% Rec.	QC Limits LCL	UCL	Flag
2037-26-5	Toluene-d8	97	70	130	

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**LABQC**		
				EAS ID:	**B04045**		
File Name:	B04045D.D	**Method:**	**TO-15**	**Date Sampled:**	**NA**	**Time:**	**NA**
Sample ID:	METHOD BLANK	**Matrix:**	**AA**	**Date Received:**	**NA**	**Time:**	**NA**
MiscInfo-Vol:		**Detect:**	**ND**	**Date Analyzed:**	**04/04/25**	**Time:**	**11:46**
Anal Date:	4 Apr 125 11:46 am	**SF:**	**2**	**QCbatch:**	**040425-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**300.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**NA**		
Cal Update:	Wed Apr 02 15:12:33 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.00**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**MB**		
Analyst:	MM	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.5**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	0.000	4.41	42.00	0
75-71-8	Dichlorodifluoromethane	3	TRG	0.000	4.48	85.00	0
67-56-1	Methanol	4	TRG	0.000	4.86	31.00	0
74-87-3	Chloromethane	5	TRG	0.000	4.77	50.00	0
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	0.000	4.77	85.00	0
75-01-4	Vinyl chloride	7	TRG	0.000	5.02	62.00	0
106-99-0	1,3-Butadiene	8	TRG	0.000	5.14	54.00	0
74-83-9	Bromomethane	9	TRG	0.000	5.56	94.00	0
75-00-3	Chloroethane	10	TRG	0.000	5.72	64.00	0
64-17-5	Ethanol	11	TRG	0.000	5.72	46.00	0
107-02-8	Acrolein	12	TRG	0.000	6.32	56.00	0
75-69-4	Trichlorofluoromethane	13	TRG	0.000	6.38	101.00	0
67-64-1	Acetone	14	TRG	0.000	6.42	58.00	0
67-63-0	2-propanol (isopropylalcoh	15	TRG	0.000	6.45	45.00	0
75-65-0	t-Butyl alcohol	16	TRG	0.000	7.03	59.00	0
4227-95-6	Methyl iodide	17	TRG	0.000	7.19	142.00	0
75-35-4	1,1-Dichloroethene	18	TRG	0.000	7.07	61.00	0
107-13-1	Acrylonitrile	19	TRG	0.000	7.07	53.00	0
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	0.000	7.21	151.00	0
107-05-1	Allyl chloride	21	TRG	0.000	7.37	76.00	0
75-09-2	Methylene chloride	22	TRG	0.000	7.35	84.00	0
75-15-0	Carbon disulfide	23	TRG	0.000	7.61	76.00	0
156-60-5	trans-1,2-Dichloroethene	24	TRG	0.000	8.06	96.00	0
1634-04-4	Methyl tert butyl ether	25	TRG	0.000	8.11	73.00	0
107-12-0	Propionitrile	26	TRG	0.000	8.31	54.00	0
75-34-3	1,1-Dichloroethane	27	TRG	0.000	8.41	63.00	0
637-92-3	Ethyl tert butyl ether	28	TRG	0.000	9.40	59.00	0
108-05-4	Vinyl acetate	29	TRG	0.000	8.39	43.00	0
78-93-3	2-Butanone (MEK)	30	TRG	0.000	8.75	72.00	0
108-20-3	Diisopropyl ether	31	TRG	0.000	8.90	87.00	0
110-54-3	Hexane	32	TRG	0.000	8.86	57.00	0
126-98-7	Methacrylonitrile	33	TRG	0.000	8.88	67.00	0
141-78-6	Ethyl acetate	34	TRG	0.000	9.17	61.00	0
74-97-5	Bromochloromethane	35	TRG	0.000	9.43	49.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	0.000	9.25	55.00	0
109-99-9	Tetrahydrofuran	37	TRG	0.000	9.72	72.00	0
78-83-1	Isobutyl alcohol	38	TRG	6.774	9.51	74.00	394514
156-59-2	cis-1,2-Dichloroethene	39	TRG	0.000	9.16	96.00	0
594-20-7	2,2-Dichloropropane	40	TRG	0.000	9.37	77.00	0
67-66-3	Chloroform	41	TRG	0.000	9.42	83.00	**0**
71-55-6	1,1,1-Trichloroethane	43	TRG	0.000	10.24	97.00	0
107-06-2	1,2-Dichloroethane	44	TRG	0.000	10.27	61.95	0
563-58-6	1,1-Dichloropropene	45	TRG	0.000	10.50	75.00	0
110-82-7	Cyclohexane	46	TRG	0.616	10.74	56.00	303269
71-43-2	Benzene	47	TRG	0.253	10.70	78.00	225441
56-23-5	Carbon tetrachloride	48	TRG	0.000	10.73	116.90	0
994-05-8	t-Amyl methyl ether	49	TRG	0.141	10.95	73.00	165830
540-84-1	2,2,4-Trimethylpentane	50	TRG	1.013	11.25	57.00	1693541
142-82-5	n-Heptane	51	TRG	0.000	11.48	71.00	0
78-87-5	1,2-Dichloropropane	52	TRG	0.000	11.64	63.00	0
123-91-1	1,4 Dioxane	53	TRG	0.000	11.79	88.00	0
74-95-3	Dibromomethane	54	TRG	0.000	11.75	174.00	0
79-01-6	Trichloroethene (TCE)	55	TRG	0.000	10.70	130.00	0
75-27-4	Bromodichloromethane	56	TRG	0.000	11.85	83.00	0
80-62-6	Methyl methacrylate	57	TRG	0.000	11.76	69.00	0
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	0.000	12.55	58.00	0
10061-01-5	cis-1,3-Dichloropropene	59	TRG	0.000	12.67	75.00	**0**
108-88-3	Toluene	61	TRG	0.024	13.50	91.00	30052
10061-02-6	trans-1,3-Dichloropropene	62	TRG	0.000	13.28	75.00	0
79-00-5	1,1,2-Trichloroethane	63	TRG	0.000	13.52	61.00	0
97-63-2	Ethyl methacrylate	64	TRG	0.053	13.63	69.00	30869
591-78-6	2-Hexanone	65	TRG	0.000	13.79	58.00	0
142-28-9	1,3-Dichloropropane	66	TRG	0.000	13.86	76.00	0
111-65-9	Octane	67	TRG	0.000	14.04	85.00	0
124-48-1	Dibromochloromethane	68	TRG	0.000	14.30	129.00	0
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	0.000	14.62	107.00	0
127-18-4	Tetrachloroethene (PCE)	70	TRG	0.000	14.69	166.00	0
108-90-7	Chlorobenzene	72	TRG	0.038	15.62	112.00	29029
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	0.000	15.64	131.00	0
100-41-4	Ethylbenzene	74	TRG	0.021	15.90	106	28303
1330-20-7	m,p-Xylenes	75	TRG	0.022	16.06	91.00	26735
111-84-2	Nonane	76	TRG	0.000	16.43	57.00	0
100-42-5	Styrene	77	TRG	0.035	16.61	104.00	29300
75-25-2	Bromoform	78	TRG	0.000	16.67	173.00	0
95-47-6	o-Xylene	79	TRG	0.020	16.55	91.00	25004
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	0.000	17.02	83.00	0
96-18-4	1,2,3-Trichloropropane	81	TRG	0.000	17.22	110.00	0
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	0.000	17.24	53.00	0
103-65-1	n-Propylbenzene	83	TRG	0.007	18.04	91.00	16947
98-82-8	Isopropylbenzene	84	TRG	0.022	18.23	105.00	54094
622-96-8	4-Ethyltoluene	85	TRG	0.033	18.23	105.00	54094
108-67-8	1,3,5-Trimethylbenzene	86	TRG	0.037	18.31	105.00	54094
124-18-5	Decane	87	TRG	0.000	18.60	57.00	0
98-06-6	tert-butyl benzene	88	TRG	0.000	18.93	119.00	0

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	0.028	18.95	105.00	43463
538-93-2	i-Butylbenzene	90	TRG	0.000	19.24	91.00	0
135-98-8	sec-butylbenzene	91	TRG	0.000	19.32	105.00	0
541-73-1	1,3-Dichlorobenzene	92	TRG	0.033	19.39	146.00	32384
99-87-6	Isopropyltoluene	93	TRG	0.008	19.53	119.00	17707
100-44-7	Benzyl chloride	94	TRG	0.000	19.46	91.00	0
106-46-7	1,4-Dichlorobenzene	95	TRG	0.036	19.39	146.00	32384
104-51-8	n-Butylbenzene	96	TRG	0.007	20.20	91.00	16298
95-50-1	1,2-Dichlorobenzene	97	TRG	0.029	20.07	146.00	34054
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	0.000	21.02	75.00	0
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.301	22.95	180.00	22276
91-20-3	Naphthalene	100	TRG	0.000	23.23	128.00	0
87-61-6	1,2,3-Trichlorobenzene	101	TRG	0.000	23.71	180.00	0
87-68-3	Hexachlorobutadiene	102	TRG	0.000	0.00	225.00	0
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**14447524**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**16599128**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15123384**
2037-26-5	Toluene-d8	103	SURR	9.677	13.40	98.00	**9874439**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**LABQC**		EDD SURR:	PERCENT		IS LCL	**50**		Gas Constant					
Laboratory Number:	**B04045**		Sam Type:	MB		IS UCL	**200**		T	24.5				
File Name:	B04045D.D		Instrument:	MA1		SUR LCL	**70**		P	**760**				
Run Method:	A1563_P.M		DETECT:	ND		SUR UCL	**130**		MV	24.417				
Can Factor:	1.00		Matrix:	AA		MDL Factor	**1.0**		GC	24.417				
Air Volume:	300.0	ml	Type:	TRG		E Flag	1.5							
Can/Tube Number:	NA		Diluton:	0.3000										
Dilution Factor:	0.3000		Sig Figs:	2										
Base Volume:	1000	ml	MDLSF:	2										
Unit Factor (ppbv):	1000	PPBV	UG/M3		Fixed	Fixed	Fixed	Fixed	(1)	(2)	Calc	Calc	Calc	
	M.W.	Raw	ResultV	Result	Result	Result	ResultQ	ResultG	MDL	RL	MDL	MDL	RL	
Compound		Amount	PPBV	UG/M3	PPBV	UG/M3	UG/M3	UG/M3		PPBV	PPBV	UG/M3	PPBV	
Propylene	42.08	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.33	0.57	0.83	
Dichlorodifluoromethane	120.9	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	0.50	2.48	0.83	
Methanol	32.0	0.00	0.00	0.00	ND	ND	0		**0.500**	**0.600**	1.67	2.18	2.00	
Chloromethane	50.5	0.00	0.00	0.00	ND	ND	0		**0.150**	**0.250**	0.50	1.03	0.83	
1,2-Dichlorotetrafluoroethane	170.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.33	2.33	0.83	
Vinyl chloride	62.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.17	0.43	0.83	
1,3-Butadiene	54.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.17	0.37	0.83	
Bromomethane	94.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.33	1.30	0.83	
Chloroethane	64.5	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.33	0.88	0.83	
Ethanol	46.1	0.00	0.00	0.00	ND	ND	0		**0.500**	**3.210**	1.67	3.15	10.70	
Acrolein	56.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	0.33	0.77	1.00	
Trichlorofluoromethane	137.4	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.33	1.88	0.83	
Acetone	58.1	0.00	0.00	0.00	ND	ND	0		**0.500**	**0.600**	1.67	3.97	2.00	
2-propanol (isopropylalcohol)	60.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**1.250**	0.67	1.64	4.17	
t-Butyl alcohol	74.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**1.000**	0.33	1.01	3.33	
Methyl iodide	142.9	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	0.33	1.95	1.00	
1,1-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.17	0.66	0.83	
Acrylonitrile	53.1	0.00	0.00	0.00	ND	ND	0		**0.200**	**0.300**	0.67	1.45	1.00	
1,1,2-Trichlorotrifluoroethane	187.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.17	1.28	0.83	
Allyl chloride	76.5	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	0.17	0.52	3.33	
Methylene chloride	84.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.17	0.58	0.83	
Carbon disulfide	76.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.33	1.04	0.83	
trans-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.200**	0.17	0.66	0.67	
Methyl tert butyl ether	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.200**	0.33	1.20	0.67	
Propionitrile	55.1	0.00	0.00	0.00	ND	ND	0		**0.250**	**0.400**	0.83	1.88	1.33	
1,1-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.17	0.67	0.83	
Ethyl tert butyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.33	1.40	0.83	
Vinyl acetate	86.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**1.000**	0.17	0.59	3.33	
2-Butanone (MEK)	72.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.300**	0.33	0.98	1.00	
Diisopropyl ether	102.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.600**	0.33	1.40	2.00	
Hexane	86.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.33	1.18	0.83	
Methacrylonitrile	67.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.33	0.92	0.83	
Ethyl acetate	88.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.33	1.20	0.83	
Bromochloromethane	129.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.17	0.88	0.83	
Methyl acrylate	86.1	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.500**	0.33	1.18	1.67	
Tetrahydrofuran	72.1	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.300**	0.17	0.50	1.00	
Isobutyl alcohol	74.1	6.77	22.58	68.52	22.58	68.52	68.52	68.52	**0.200**	**0.800**	0.67	2.02	2.67	
cis-1,2-Dichloroethene	96.9	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.17	0.66	0.83	
2,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.17	0.77	0.83	
Chloroform	119.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.17	0.82	0.83	
1,1,1-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.17	0.91	0.83	
1,2-Dichloroethane	99.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.17	0.68	0.83	
1,1-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.17	0.76	0.83	
Cyclohexane	84.2	0.62	2.05	7.08	2.05	7.08	7.08	7.08	**0.050**	**0.250**	0.17	0.57	0.83	
Benzene	78.1	0.25	0.84	2.70	ND	ND	0		**0.350**	**0.500**	1.17	3.73	1.67	
Carbon tetrachloride	153.8	0.00	0.00	0.00	ND	ND	0		**0.050**	**0.250**	0.17	1.05	0.83	
t-Amyl methyl ether	102.2	0.14	0.47	1.96	0.47	1.96	1.96	1.96	**0.100**	**0.500**	0.33	1.40	1.67	
2,2,4-Trimethylpentane	114.2	1.01	3.38	15.79	3.38	15.79	15.79	15.79	**0.050**	**0.250**	0.17	0.78	0.83	
n-Heptane	100.2	0.00	0.00	0.00	ND	ND	0		**0.100**	**0.250**	0.33	1.37	0.83	

1,2-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.77	0.83
1,4 Dioxane	88.1	0.00	0.00	0.00	ND	ND	0		0.100	0.500	0.33	1.20	1.67
Dibromomethane	173.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	1.19	0.83
Trichloroethene (TCE)	131.4	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.08	0.45	0.83
Bromodichloromethane	163.8	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	1.12	0.83
Methyl methacrylate	100.1	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.37	0.83
4-Methyl-2-pentanone (MIBK)	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.33	1.37	2.67
cis-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.76	0.83
Toluene	92.1	0.02	0.08	0.30	ND	ND	0		0.200	0.250	0.67	2.51	0.83
trans-1,3-Dichloropropene	111.0	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.76	0.83
1,1,2-Trichloroethane	133.4	0.00	0.00	0.00	ND	ND	0		0.050	0.250	0.17	0.91	0.83
Ethyl methacrylate	114.2	0.05	0.18	0.83	ND	ND	0		0.100	0.250	0.33	1.56	0.83
2-Hexanone	100.2	0.00	0.00	0.00	ND	ND	0		0.100	0.800	0.33	1.37	2.67
1,3-Dichloropropane	113.0	0.00	0.00	0.00	ND	ND	0		0.050	0.700	0.17	0.77	2.33
Octane	114.2	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.56	0.83
Dibromochloromethane	208.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	2.84	0.83
1,2-Dibromoethane (EDB)	187.9	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	2.57	0.83
Tetrachloroethene (PCE)	165.8	0.00	0.00	0.00	ND	ND	0		0.025	0.250	0.08	0.57	0.83
Chlorobenzene	112.6	0.04	0.13	0.59	ND	ND	0		0.100	0.250	0.33	1.54	0.83
1,1,1,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	2.29	0.83
Ethylbenzene	106.2	0.02	0.07	0.30	ND	ND	0		0.100	0.250	0.33	1.45	0.83
m,p-Xylenes	106.2	0.02	0.07	0.32	ND	ND	0		0.100	0.250	0.33	1.45	0.83
Nonane	128.3	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	1.75	0.83
Styrene	104.2	0.04	0.12	0.50	ND	ND	0		0.150	0.250	0.50	2.13	0.83
Bromoform	252.7	0.00	0.00	0.00	ND	ND	0		0.100	0.250	0.33	3.45	0.83
o-Xylene	106.2	0.02	0.07	0.29	ND	ND	0		0.100	0.250	0.33	1.45	0.83
1,1,2,2-Tetrachloroethane	167.8	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.67	4.58	1.67
1,2,3-Trichloropropane	147.4	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.67	4.02	2.00
t-1,4-Dichloro-2-butene	125.0	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.67	3.41	2.00
n-Propylbenzene	120.2	0.01	0.02	0.12	ND	ND	0		0.200	0.700	0.67	3.28	2.33
Isopropylbenzene	120.2	0.02	0.07	0.36	ND	ND	0		0.200	0.700	0.67	3.28	2.33
4-Ethyltoluene	120.2	0.03	0.11	0.54	ND	ND	0		0.200	1.600	0.67	3.28	5.33
1,3,5-Trimethylbenzene	120.2	0.04	0.12	0.60	ND	ND	0		0.200	0.900	0.67	3.28	3.00
Decane	142.3	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.67	3.89	2.00
tert-butyl benzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.67	3.66	2.00
1,2,4-Trimethylbenzene	120.2	0.03	0.09	0.46	ND	ND	0		0.200	0.900	0.67	3.28	3.00
i-Butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.600	0.67	3.66	2.00
sec-butylbenzene	134.2	0.00	0.00	0.00	ND	ND	0		0.200	0.700	0.67	3.66	2.33
1,3-Dichlorobenzene	147.0	0.03	0.11	0.65	ND	ND	0		0.200	0.800	0.67	4.01	2.67
Isopropyltoluene	134.2	0.01	0.03	0.15	ND	ND	0		0.200	0.600	0.67	3.66	2.00
Benzyl chloride	126.6	0.00	0.00	0.00	ND	ND	0		0.200	0.500	0.67	3.46	1.67
1,4-Dichlorobenzene	147.0	0.04	0.12	0.72	ND	ND	0		0.200	0.500	0.67	4.01	1.67
n-Butylbenzene	134.2	0.01	0.02	0.12	ND	ND	0		0.200	0.600	0.67	3.66	2.00
1,2-Dichlorobenzene	147.0	0.03	0.10	0.59	ND	ND	0		0.200	0.700	0.67	4.01	2.33
1,2-Dibromo-3-chloropropane	236.3	0.00	0.00	0.00	ND	ND	0		0.300	0.700	1.00	9.68	2.33
1,2,4-Trichlorobenzene	181.4	0.30	1.00	7.45	1.00	7.45	7.45	7.45	0.300	0.500	1.00	7.43	1.67
Naphthalene	128.2	0.00	0.00	0.00	ND	ND	0		0.500	0.100	1.67	8.75	0.33
1,2,3-Trichlorobenzene	181.4	0.00	0.00	0.00	ND	ND	0		0.300	0.500	1.00	7.43	1.67
Hexachlorobutadiene	260.8	0.00	0.00	0.00	ND	ND	0		0.250	0.300	0.83	8.90	1.00
Pentafluorobenzene		20.00							20.0	20.0			
1,4-Difluorobenzene		20.00							20.0	20.0			
Chlorobenzene-d5		20.00							20.0	20.0			
Toluene-d8		9.68	97	97	97	97	97	97	10.0	10.0			

0

0

0

Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
1.44	U	ND		ND		Y	0.00	0.00
4.13	U	ND		ND		Y	0.00	0.00
2.62	U	ND		ND		Y	0.00	0.00
1.72	U	ND		ND		Y	0.00	0.00
5.83	U	ND		ND		Y	0.00	0.00
2.13	U	ND		ND		Y	0.00	0.00
1.85	U	ND		ND		Y	0.00	0.00
3.24	U	ND		ND		Y	0.00	0.00
2.20	U	ND		ND		Y	0.00	0.00
20.20	U	ND		ND		Y	0.00	0.00
2.30	U	ND		ND		Y	0.00	0.00
4.69	U	ND		ND		Y	0.00	0.00
4.76	U	ND		ND		Y	0.00	0.00
10.26	U	ND		ND		Y	0.00	0.00
10.12	U	ND		ND		Y	0.00	0.00
5.85	U	ND		ND		Y	0.00	0.00
3.31	U	ND		ND		Y	0.00	0.00
2.17	U	ND		ND		Y	0.00	0.00
6.40	U	ND		ND		Y	0.00	0.00
10.44	U	ND		ND		Y	0.00	0.00
2.90	U	ND		ND		Y	0.00	0.00
2.60	U	ND		ND		Y	0.00	0.00
2.65	U	ND		ND		Y	0.00	0.00
2.41	U	ND		ND		Y	0.00	0.00
3.01	U	ND		ND		Y	0.00	0.00
3.38	U	ND		ND		Y	0.00	0.00
3.49	U	ND		ND		Y	0.00	0.00
11.75	U	ND		ND		Y	0.00	0.00
2.95	U	ND		ND		Y	0.00	0.00
8.37	U	ND		ND		Y	0.00	0.00
2.94	U	ND		ND		Y	0.00	0.00
2.29	U	ND		ND		Y	0.00	0.00
3.01	U	ND		ND		Y	0.00	0.00
4.42	U	ND		ND		Y	0.00	0.00
5.88	U	ND		ND		Y	0.00	0.00
2.95	U	ND		ND		Y	0.00	0.00
8.09				=		Y	22.58	68.52
3.31	U	ND		ND		Y	0.00	0.00
3.86	U	ND		ND		Y	0.00	0.00
4.08	U	ND		ND		Y	0.00	0.00
4.55	U	ND		ND		Y	0.00	0.00
3.38	U	ND		ND		Y	0.00	0.00
3.79	U	ND		ND		Y	0.00	0.00
2.87				=		Y	2.05	7.08
5.33	U	ND		ND		Y	0.00	0.00
5.25	U	ND		ND		Y	0.00	0.00
6.98	J	J		=		Y	0.47	1.96
3.90				=		Y	3.38	15.79
3.42	U	ND		ND		Y	0.00	0.00

3.86	U	ND	ND	Y	0.00	0.00
6.01	U	ND	ND	Y	0.00	0.00
5.93	U	ND	ND	Y	0.00	0.00
4.48	U	ND	ND	Y	0.00	0.00
5.59	U	ND	ND	Y	0.00	0.00
3.42	U	ND	ND	Y	0.00	0.00
10.94	U	ND	ND	Y	0.00	0.00
3.79	U	ND	ND	Y	0.00	0.00
3.14	U	ND	ND	Y	0.00	0.00
3.79	U	ND	ND	Y	0.00	0.00
4.55	U	ND	ND	Y	0.00	0.00
3.90	U	ND	ND	Y	0.00	0.00
10.94	U	ND	ND	Y	0.00	0.00
10.80	U	ND	ND	Y	0.00	0.00
3.90	U	ND	ND	Y	0.00	0.00
7.11	U	ND	ND	Y	0.00	0.00
6.41	U	ND	ND	Y	0.00	0.00
5.66	U	ND	ND	Y	0.00	0.00
3.84	U	ND	ND	Y	0.00	0.00
5.73	U	ND	ND	Y	0.00	0.00
3.62	U	ND	ND	Y	0.00	0.00
3.62	U	ND	ND	Y	0.00	0.00
4.38	U	ND	ND	Y	0.00	0.00
3.56	U	ND	ND	Y	0.00	0.00
8.62	U	ND	ND	Y	0.00	0.00
3.62	U	ND	ND	Y	0.00	0.00
11.45	U	ND	ND	Y	0.00	0.00
12.07	U	ND	ND	Y	0.00	0.00
10.24	U	ND	ND	Y	0.00	0.00
11.49	U	ND	ND	Y	0.00	0.00
11.49	U	ND	ND	Y	0.00	0.00
26.25	U	ND	ND	Y	0.00	0.00
14.77	U	ND	ND	Y	0.00	0.00
11.66	U	ND	ND	Y	0.00	0.00
10.99	U	ND	ND	Y	0.00	0.00
14.77	U	ND	ND	Y	0.00	0.00
10.99	U	ND	ND	Y	0.00	0.00
12.82	U	ND	ND	Y	0.00	0.00
16.05	U	ND	ND	Y	0.00	0.00
10.99	U	ND	ND	Y	0.00	0.00
8.64	U	ND	ND	Y	0.00	0.00
10.03	U	ND	ND	Y	0.00	0.00
10.99	U	ND	ND	Y	0.00	0.00
14.05	U	ND	ND	Y	0.00	0.00
22.58	U	ND	ND	Y	0.00	0.00
12.38	J	J	=	Y	1.00	7.45
1.75	U	ND	ND	Y	0.00	0.00
12.38	U	ND	ND	Y	0.00	0.00
10.68	U	ND	ND	Y	0.00	0.00
			=	Y		
			=	Y		
			=	Y		
			=	Y		

SAMPLE CALCULATION

EPA Method TO-15 Modified Full Scan GC/MS

SDG:		**LABQC**	
Laboratory Number:		**B04045**	
Standard Volume	STV	10.0	ml
Sample Volume	SV	300	ml
Can Dilution Factor	CDF	1.00	
Gas Constant		24.42	
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum [(Astdni) (Cistdi) / (Cstdni) (Aistdi)] i — Note: 1

2) Raw Amt = (Ansamp) (Cistdi) / (Avg RFn) (Aistdi) **= Cn**

3) Amount ppbv = (Raw Amt) 1000 (CDF) / (SV)

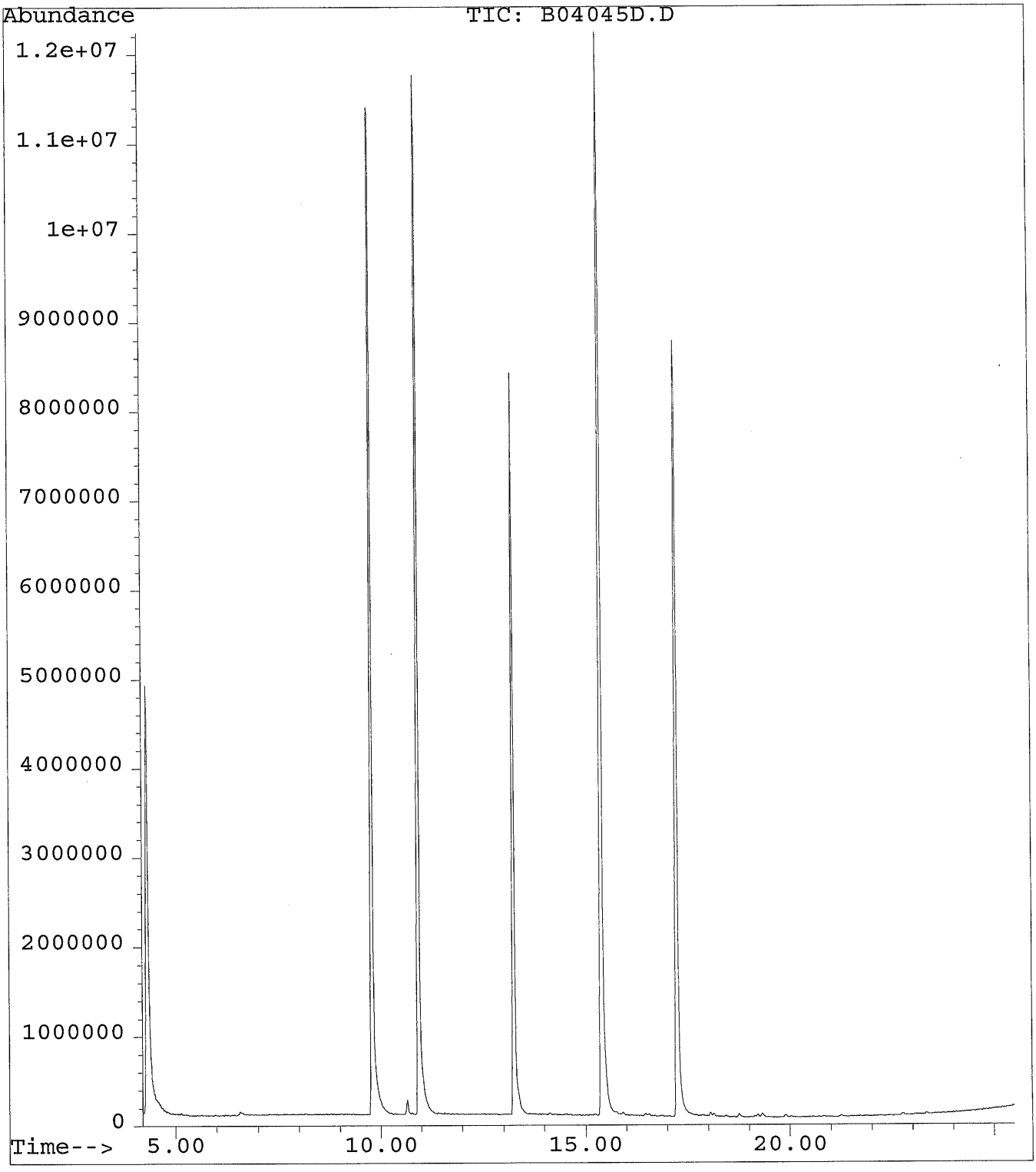
4) Amount ug/m3 = (amt(ppbv) MW / 24.42

n	Compound	IS	Type	MW	AvgRFn	Area Ansamp	Cistdi ppmv	Aistdi Ais	**Cn** ppmV Raw Amt	Amount PPBV	Amount UG/M3
2	Propylene	PFB	TRG	42.1	0.077	0	20.0	14447524	0.000	0.00	0.00
3	Dichlorodifluoromethane	PFB	TRG	120.9	0.388	0	20.0	14447524	0.000	0.00	0.00
4	Methanol	PFB	TRG	32.0	0.325	0	20.0	14447524	0.000	0.00	0.00
5	Chloromethane	PFB	TRG	50.5	0.125	0	20.0	14447524	0.000	0.00	0.00
6	1,2-Dichlorotetrafluoroethane	PFB	TRG	170.9	0.338	0	20.0	14447524	0.000	0.00	0.00
7	Vinyl chloride	PFB	TRG	62.5	0.154	0	20.0	14447524	0.000	0.00	0.00
8	1,3-Butadiene	PFB	TRG	54.1	0.136	0	20.0	14447524	0.000	0.00	0.00
9	Bromomethane	PFB	TRG	94.9	0.175	0	20.0	14447524	0.000	0.00	0.00
10	Chloroethane	PFB	TRG	64.5	0.080	0	20.0	14447524	0.000	0.00	0.00
11	Ethanol	PFB	TRG	46.1	0.013	0	20.0	14447524	0.000	0.00	0.00
12	Acrolein	PFB	TRG	56.1	0.057	0	20.0	14447524	0.000	0.00	0.00
13	Trichlorofluoromethane	PFB	TRG	137.4	0.349	0	20.0	14447524	0.000	0.00	0.00
14	Acetone	PFB	TRG	58.1	0.109	0	20.0	14447524	0.000	0.00	0.00
15	2-propanol (isopropylalcohol)	PFB	TRG	60.1	0.402	0	20.0	14447524	0.000	0.00	0.00
16	t-Butyl alcohol	PFB	TRG	74.1	0.524	0	20.0	14447524	0.000	0.00	0.00
17	Methyl iodide	PFB	TRG	142.9	0.638	0	20.0	14447524	0.000	0.00	0.00
18	1,1-Dichloroethene	PFB	TRG	96.9	0.299	0	20.0	14447524	0.000	0.00	0.00
19	Acrylonitrile	PFB	TRG	53.1	0.127	0	20.0	14447524	0.000	0.00	0.00
20	1,1,2-Trichlorotrifluoroethane	PFB	TRG	187.4	0.400	0	20.0	14447524	0.000	0.00	0.00
21	Allyl chloride	PFB	TRG	76.5	0.111	0	20.0	14447524	0.000	0.00	0.00
22	Methylene chloride	PFB	TRG	84.9	0.132	0	20.0	14447524	0.000	0.00	0.00
23	Carbon disulfide	PFB	TRG	76.1	0.400	0	20.0	14447524	0.000	0.00	0.00
24	trans-1,2-Dichloroethene	PFB	TRG	96.9	0.208	0	20.0	14447524	0.000	0.00	0.00
25	Methyl tert butyl ether	PFB	TRG	88.1	0.433	0	20.0	14447524	0.000	0.00	0.00
26	Propionitrile	PFB	TRG	55.1	0.147	0	20.0	14447524	0.000	0.00	0.00
27	1,1-Dichloroethane	PFB	TRG	99.0	0.326	0	20.0	14447524	0.000	0.00	0.00
28	Ethyl tert butyl ether	PFB	TRG	102.2	0.429	0	20.0	14447524	0.000	0.00	0.00
29	Vinyl acetate	PFB	TRG	86.1	0.076	0	20.0	14447524	0.000	0.00	0.00
30	2-Butanone (MEK)	PFB	TRG	72.1	0.110	0	20.0	14447524	0.000	0.00	0.00
31	Diisopropyl ether	PFB	TRG	102.2	0.141	0	20.0	14447524	0.000	0.00	0.00
32	Hexane	PFB	TRG	86.2	0.286	0	20.0	14447524	0.000	0.00	0.00

33	Methacrylonitrile	PFB	TRG	67.1	0.099	0	20.0	14447524	0.000	0.00	0.00
34	Ethyl acetate	PFB	TRG	88.1	0.350	0	20.0	14447524	0.000	0.00	0.00
35	Bromochloromethane	PFB	TRG	129.4	0.316	0	20.0	14447524	0.000	0.00	0.00
36	Methyl acrylate	PFB	TRG	86.1	0.208	0	20.0	14447524	0.000	0.00	0.00
37	Tetrahydrofuran	PFB	TRG	72.1	0.123	0	20.0	14447524	0.000	0.00	0.00
38	Isobutyl alcohol	PFB	TRG	74.1	0.059	394514	20.0	14447524	6.774	22.58	68.52
39	cis-1,2-Dichloroethene	PFB	TRG	96.9	0.239	0	20.0	14447524	0.000	0.00	0.00
40	2,2-Dichloropropane	PFB	TRG	113.0	0.284	0	20.0	14447524	0.000	0.00	0.00
41	Chloroform	PFB	TRG	119.4	0.339	0	20.0	14447524	0.000	0.00	0.00
43	1,1,1-Trichloroethane	14DF	TRG	133.4	0.477	0	20.0	16599128	0.000	0.00	0.00
44	1,2-Dichloroethane	14DF	TRG	99.0	0.376	0	20.0	16599128	0.000	0.00	0.00
45	1,1-Dichloropropene	14DF	TRG	111.0	0.398	0	20.0	16599128	0.000	0.00	0.00
46	Cyclohexane	14DF	TRG	84.2	0.364	303269	20.0	16599128	0.616	2.05	7.08
47	Benzene	14DF	TRG	78.1	0.823	225441	20.0	16599128	0.253	0.84	2.70
48	Carbon tetrachloride	14DF	TRG	153.8	0.366	0	20.0	16599128	0.000	0.00	0.00
49	t-Amyl methyl ether	14DF	TRG	102.2	0.938	165830	20.0	16599128	0.141	0.47	1.96
50	2,2,4-Trimethylpentane	14DF	TRG	114.2	1.306	1693541	20.0	16599128	1.013	3.38	15.79
51	n-Heptane	14DF	TRG	100.2	0.276	0	20.0	16599128	0.000	0.00	0.00
52	1,2-Dichloropropane	14DF	TRG	113.0	0.312	0	20.0	16599128	0.000	0.00	0.00
53	1,4 Dioxane	14DF	TRG	88.1	0.337	0	20.0	16599128	0.000	0.00	0.00
54	Dibromomethane	14DF	TRG	173.8	0.984	0	20.0	16599128	0.000	0.00	0.00
55	Trichloroethene (TCE)	14DF	TRG	131.4	0.699	0	20.0	16599128	0.000	0.00	0.00
56	Bromodichloromethane	14DF	TRG	163.8	0.413	0	20.0	16599128	0.000	0.00	0.00
57	Methyl methacrylate	14DF	TRG	100.1	0.241	0	20.0	16599128	0.000	0.00	0.00
58	4-Methyl-2-pentanone (MIBK)	14DF	TRG	100.2	0.434	0	20.0	16599128	0.000	0.00	0.00
59	cis-1,3-Dichloropropene	14DF	TRG	111.0	0.357	0	20.0	16599128	0.000	0.00	0.00
61	Toluene	14DF	TRG	92.1	1.215	30052	20.0	16599128	0.024	0.08	0.30
62	trans-1,3-Dichloropropene	14DF	TRG	111.0	0.346	0	20.0	16599128	0.000	0.00	0.00
63	1,1,2-Trichloroethane	14DF	TRG	133.4	0.246	0	20.0	16599128	0.000	0.00	0.00
64	Ethyl methacrylate	14DF	TRG	114.2	0.481	30869	20.0	16599128	0.053	0.18	0.83
65	2-Hexanone	14DF	TRG	100.2	0.784	0	20.0	16599128	0.000	0.00	0.00
66	1,3-Dichloropropane	14DF	TRG	113.0	0.677	0	20.0	16599128	0.000	0.00	0.00
67	Octane	14DF	TRG	114.2	0.387	0	20.0	16599128	0.000	0.00	0.00
68	Dibromochloromethane	14DF	TRG	208.3	0.711	0	20.0	16599128	0.000	0.00	0.00
69	1,2-Dibromoethane (EDB)	14DF	TRG	187.9	0.842	0	20.0	16599128	0.000	0.00	0.00
70	Tetrachloroethene (PCE)	14DF	TRG	165.8	1.398	0	20.0	16599128	0.000	0.00	0.00
72	Chlorobenzene	d5CB	TRG	112.6	1.145	29029	20.0	15123384	0.038	0.13	0.59
73	1,1,1,2-Tetrachloroethane	d5CB	TRG	167.8	0.488	0	20.0	15123384	0.000	0.00	0.00
74	Ethylbenzene	d5CB	TRG	106.2	1.497	28303	20.0	15123384	0.021	0.07	0.30
75	m,p-Xylenes	d5CB	TRG	106.2	1.297	26735	20.0	15123384	0.022	0.07	0.32
76	Nonane	d5CB	TRG	128.3	0.575	0	20.0	15123384	0.000	0.00	0.00
77	Styrene	d5CB	TRG	104.2	1.008	29300	20.0	15123384	0.035	0.12	0.50
78	Bromoform	d5CB	TRG	252.7	0.957	0	20.0	15123384	0.000	0.00	0.00
79	o-Xylene	d5CB	TRG	106.2	1.314	25004	20.0	15123384	0.020	0.07	0.29
80	1,1,2,2-Tetrachloroethane	d5CB	TRG	167.8	1.186	0	20.0	15123384	0.000	0.00	0.00
81	1,2,3-Trichloropropane	d5CB	TRG	147.4	0.502	0	20.0	15123384	0.000	0.00	0.00
82	t-1,4-Dichloro-2-butene	d5CB	TRG	125.0	0.081	0	20.0	15123384	0.000	0.00	0.00
83	n-Propylbenzene	d5CB	TRG	120.2	2.144	16947	20.0	15123384	0.007	0.02	0.12
84	Isopropylbenzene	d5CB	TRG	120.2	3.882	54094	20.0	15123384	0.022	0.07	0.36

85	4-Ethyltoluene	d5CB	TRG	120.2	1.613	54094	20.0	15123384	0.033	0.11	0.54
86	1,3,5-Trimethylbenzene	d5CB	TRG	120.2	1.810	54094	20.0	15123384	0.037	0.12	0.60
87	Decane	d5CB	TRG	142.3	0.882	0	20.0	15123384	0.000	0.00	0.00
88	tert-butyl benzene	d5CB	TRG	134.2	2.678	0	20.0	15123384	0.000	0.00	0.00
89	1,2,4-Trimethylbenzene	d5CB	TRG	120.2	1.453	43463	20.0	15123384	0.028	0.09	0.46
90	i-Butylbenzene	d5CB	TRG	134.2	1.786	0	20.0	15123384	0.000	0.00	0.00
91	sec-butylbenzene	d5CB	TRG	134.2	2.164	0	20.0	15123384	0.000	0.00	0.00
92	1,3-Dichlorobenzene	d5CB	TRG	147.0	2.201	32384	20.0	15123384	0.033	0.11	0.65
93	Isopropyltoluene	d5CB	TRG	134.2	2.356	17707	20.0	15123384	0.008	0.03	0.15
94	Benzyl chloride	d5CB	TRG	126.6	0.660	0	20.0	15123384	0.000	0.00	0.00
95	1,4-Dichlorobenzene	d5CB	TRG	147.0	2.004	32384	20.0	15123384	0.036	0.12	0.72
96	n-Butylbenzene	d5CB	TRG	134.2	2.242	16298	20.0	15123384	0.007	0.02	0.12
97	1,2-Dichlorobenzene	d5CB	TRG	147.0	2.676	34054	20.0	15123384	0.029	0.10	0.59
98	1,2-Dibromo-3-chloropropane	d5CB	TRG	236.3	0.196	0	20.0	15123384	0.000	0.00	0.00
99	1,2,4-Trichlorobenzene	d5CB	TRG	181.4	0.750	22276	20.0	15123384	0.301	1.00	7.45
100	Naphthalene	d5CB	TRG	128.2	0.424	0	20.0	15123384	0.000	0.00	0.00
101	1,2,3-Trichlorobenzene	d5CB	TRG	181.4	0.175	0	20.0	15123384	0.000	0.00	0.00
102	Hexachlorobutadiene	d5CB	TRG	260.8	3.485	0	20.0	15123384	0.000	0.00	0.00
1	Pentafluorobenzene	0	IS	0.0	0.000	14447524	20.0		20.000	0.00	0.00
42	1,4-Difluorobenzene	0	IS	0.0	0.000	16599128	20.0		20.000	0.00	0.00
71	Chlorobenzene-d5	0	IS	0.0	0.000	15123384	20.0		20.000	0.00	0.00
103	Toluene-d8	0	SURR	0.0	0.000	9874439	10.0		9.677	96.77	97

File : C:\MSCHEM\1\DATA\04045A_C\B04045D.D
Operator : MM
Acquired : 4 Apr 125 11:46 am using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: METHOD BLANK
Misc Info :
Vial Number: 1



LCS/LCD Data Packages

Samples are analyzed in a Daily Analytical Batch (DAB) on an instrument.
The DAB identifier is on each analytial report in the field called QC Batch.
There will be one LCS/LCD report for each QC Batch (DAB) in this SDG.

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QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 **Volatile Organic Compounds by GC/MS**

QC_Batch: 033125-MSA
Date: 3/31/2025

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
75-01-4	Vinyl chloride	103		98		70	130	6	25	
75-35-4	1,1-Dichloroethene	100		97		70	130	3	25	
75-09-2	Dichloromethane	99		97		70	130	3	25	
75-34-3	1,1-Dichloroethane	101		98		70	130	3	25	
67-66-3	Chloroform	100		98		70	130	3	25	
71-55-6	1,1,1-Trichloroethane	105		108		70	130	3	25	
107-06-2	1,2-Dichloroethane	101		100		70	130	1	25	
71-43-2	Benzene	98		101		70	130	3	25	
56-23-5	Carbon tetrachloride	123		124		70	130	1	25	
79-01-6	Trichloroethene	106		106		70	130	0	25	
108-88-3	Toluene	107		104		70	130	3	25	
106-93-4	1,2-Dibromoethane	101		97		70	130	5	25	
127-18-4	Tetrachloroethene	116		108		70	130	7	25	
100-41-4	Ethylbenzene	117		105		70	130	11	25	
1330-20-7	m,p-Xylenes	117		111		70	130	6	25	
95-47-6	o-Xylene	118		109		70	130	8	25	
108-67-8	1,3,5-Trimethylbenzene	111		109		70	130	2	25	
95-63-6	1,2,4-Trimethylbenzene	113		105		70	130	8	25	

LCS - Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QUANTITATION REPORT LCS

EPA Method TO-15 Modified Full Scan GC/MS

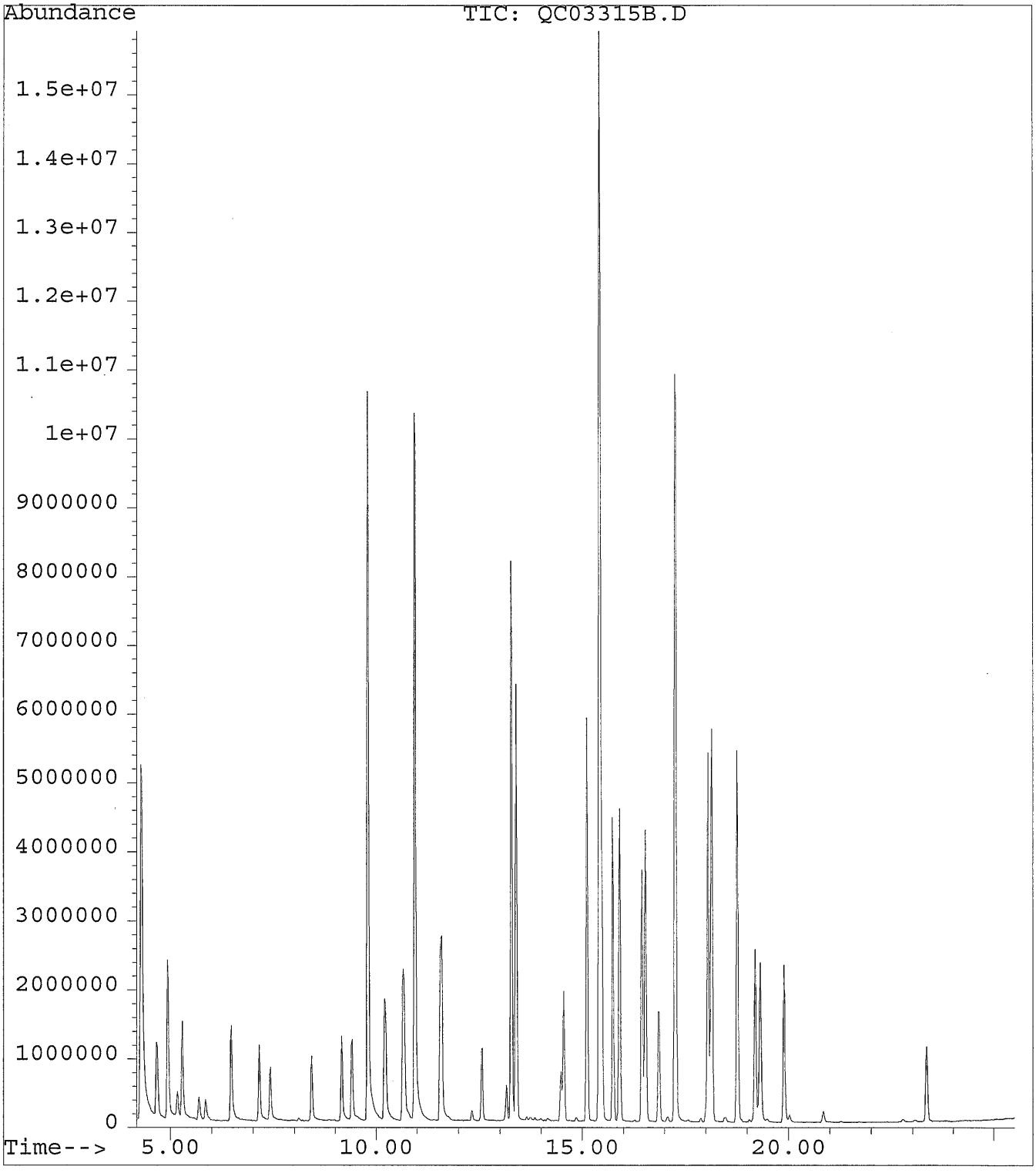
File Name: QC03315B.D
Sample ID: ST63255
Method: **TO15**
MiscInfo-Vol:
Date: 31 Mar 125 9:05 am
Run Method: A1563_P.M
Quant Method: A1563_P.M
Cal Update: Mon Mar 31 09:20:26 2025
Instrument: 5970 - MS
Analyst: MM

MDL FAC: **1**
SF: **2**
SamType: **LCS**
UnitDil: **1000** PPBV UG/M3
Temp: **25.0**
Instrument ID: **MA1**
Multiplier: 1.00
Type: **TRG**

SDG: LABQC
EAS ID: QC03315B
Date Sampled: **Time:**
Date Received: **Time:**
Date Analyzed: 3/31/2025 **Time: 9:05**
Can Factor: 1.00 0:00
Volume: 5.00
Can (Vial) No: NA
QCbatch: 033125-MSA
Matrix: AA

CAS#	Compound	n	Type	Raw Amount	RT	Target RT	Ion	Sample Area
75-01-4	Vinyl chloride	5	TRG	3.497	5.17	4.98	62.00	744146
75-35-4	1,1-Dichloroethene	13	TRG	3.559	7.15	7.06	61.00	1323677
75-09-2	Dichloromethane	15	TRG	4.188	7.42	7.35	84.00	533741
75-34-3	1,1-Dichloroethane	19	TRG	3.684	8.43	8.40	63.00	1554999
67-66-3	Chloroform	26	TRG	3.935	9.42	9.43	83.00	1493908
71-55-6	1,1,1-Trichloroethane	28	TRG	3.540	10.20	10.25	97.00	1557872
107-06-2	1,2-Dichloroethane	29	TRG	3.524	10.24	10.28	61.95	1411162
71-43-2	Benzene	31	TRG	3.164	10.64	10.70	78.00	2480938
56-23-5	Carbon tetrachloride	32	TRG	4.581	10.68	10.73	116.90	1377298
79-01-6	Trichloroethene	36	TRG	3.762	11.58	11.66	130.00	1217209
108-88-3	Toluene	42	TRG	3.710	13.39	13.51	91.00	3737569
106-93-4	1,2-Dibromoethane	47	TRG	1.323	14.48	14.61	107.00	819048
127-18-4	Tetrachloroethene	48	TRG	2.084	14.55	14.68	166.00	943344
100-41-4	Ethylbenzene	51	TRG	3.958	15.75	15.89	91.00	5368752
1330-20-7	m,p-Xylenes	52	TRG	3.783	15.92	16.05	91.00	4547916
95-47-6	o-Xylene	55	TRG	3.484	16.55	16.68	91.00	4378785
108-67-8	1,3,5-Trimethylbenzene	58	TRG	3.832	18.07	18.21	105.00	6461388
95-63-6	1,2,4-Trimethylbenzene	59	TRG	3.069	18.77	18.93	105.00	5787564
363-72-4	Pentafluorobenzene	1	IS	20.000	9.79	9.84	168.00	**10544819**
108-88-3	1,4-Difluorobenzene	27	IS	20.000	10.95	11.01	114.00	**13195208**
3114-55-4	Chlorobenzene-d5	49	IS	20.000	15.42	15.56	117.00	**14992567**
2037-26-5	Toluene-d8	41	SURR	9.929	13.27	13.39	98.00	**8053938**

File : C:\MSCHEM\1\DATA\03315A\QC03315B.D
Operator : MM
Acquired : 31 Mar 125 9:05 am using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: ST62126
Misc Info :
Vial Number: 1



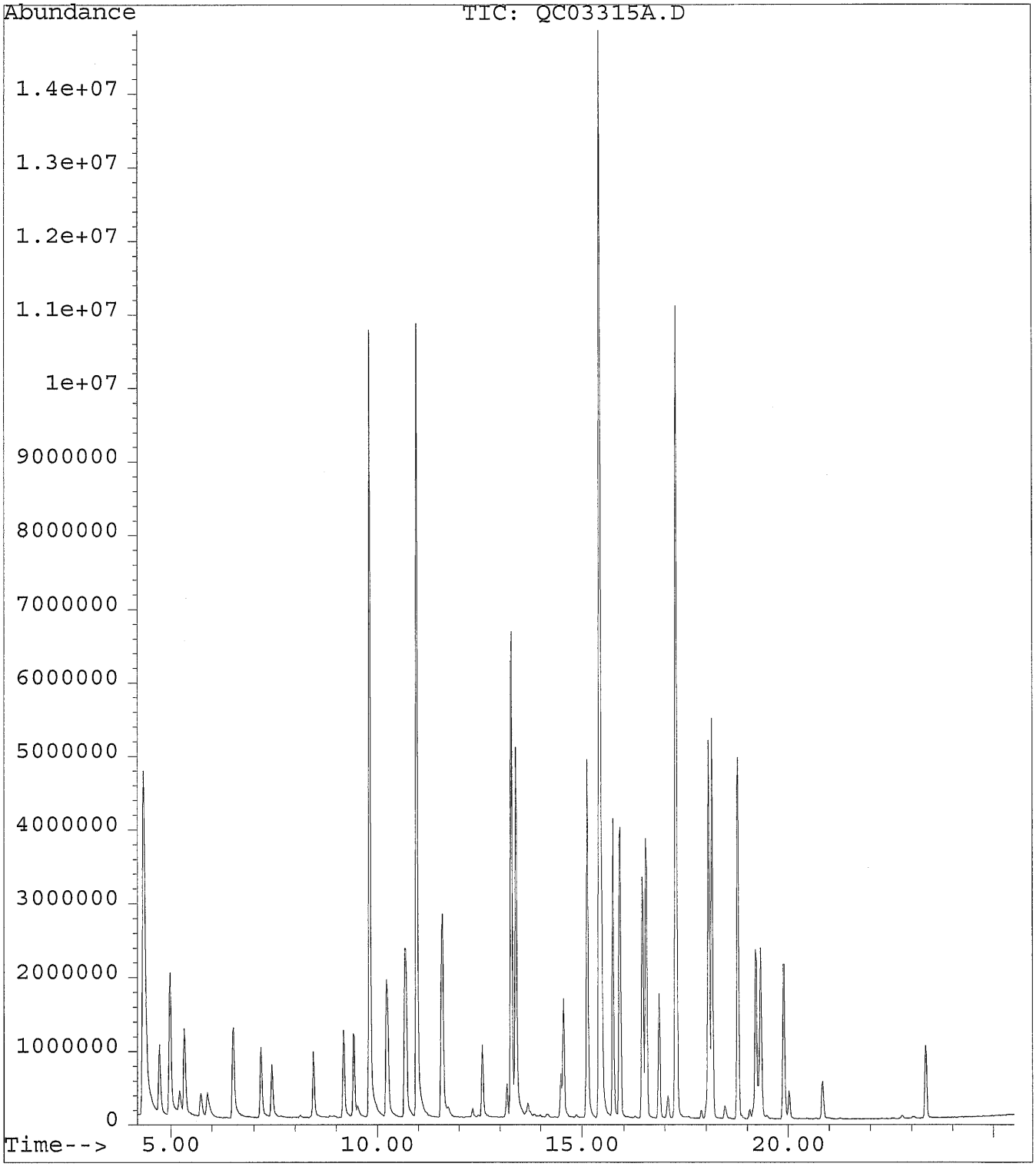
QUANTITATION REPORT LCD

EPA Method TO-15 Modified Full Scan GC/MS

File Name:	QC03315A.D						SDG:	LABQC	
Sample ID:	ST63255						EAS ID:	QC03315A	
Method:	TO15						Date Sampled:		Time:
MiscInfo-Vol:		MDL FAC:	1				Date Received:		Time:
Date:	31 Mar 125 8:22 am	SF:	2				Date Analyzed:	3/31/2025	Time: 8:22
Run Method:	A1563_P.M	SamType:	LCD				Can Factor:	1.00	0:00
Quant Method:	A1563_P.M	UnitDil:	1000	PPBV	UG/M3		Volume:	5.00	
Cal Update:	Mon Mar 31 08:53:39 2025	Temp:	25.0				Can (Vial) No:	NA	
Instrument:	5970 - MS	Instrument ID:	MA1				QCbatch:	033125-MSA	
Analyst:	MM	Multiplier:	1.00				Matrix:	AA	
		Type:	TRG						

CAS#	Compound	n	Type	Raw Amount	RT	Target RT	Ion	Sample Area
75-01-4	Vinyl chloride	5	TRG	3.304	5.20	4.98	62.00	723554
75-35-4	1,1-Dichloroethene	13	TRG	3.447	7.18	7.06	61.00	1319320
75-09-2	Dichloromethane	15	TRG	4.082	7.44	7.35	84.00	535376
75-34-3	1,1-Dichloroethane	19	TRG	3.571	8.45	8.40	63.00	1550870
67-66-3	Chloroform	26	TRG	3.836	9.42	9.43	83.00	1498674
71-55-6	1,1,1-Trichloroethane	28	TRG	3.637	10.23	10.25	97.00	1574240
107-06-2	1,2-Dichloroethane	29	TRG	3.498	10.24	10.28	61.95	1377628
71-43-2	Benzene	31	TRG	3.255	10.67	10.70	78.00	2510541
56-23-5	Carbon tetrachloride	32	TRG	4.635	10.70	10.73	116.90	1370646
79-01-6	Trichloroethene	36	TRG	3.755	11.61	11.66	130.00	1195095
108-88-3	Toluene	42	TRG	3.593	13.40	13.51	91.00	3560495
106-93-4	1,2-Dibromoethane	47	TRG	1.264	14.49	14.61	107.00	769370
127-18-4	Tetrachloroethene	48	TRG	1.947	14.56	14.68	166.00	866619
100-41-4	Ethylbenzene	51	TRG	3.548	15.76	15.89	91.00	4929357
1330-20-7	m,p-Xylenes	52	TRG	3.570	15.93	16.05	91.00	4394986
95-47-6	o-Xylene	55	TRG	3.213	16.54	16.68	91.00	4135144
108-67-8	1,3,5-Trimethylbenzene	58	TRG	3.773	18.06	18.21	105.00	6514457
95-63-6	1,2,4-Trimethylbenzene	59	TRG	2.844	18.78	18.93	105.00	5492377
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	9.84	168.00	**10850918**
108-88-3	1,4-Difluorobenzene	27	IS	20.000	10.96	11.01	114.00	**12979246**
3114-55-4	Chlorobenzene-d5	49	IS	20.000	15.43	15.56	117.00	**15352952**
2037-26-5	Toluene-d8	41	SURR	9.377	13.30	13.39	98.00	**7481611**

File : C:\MSCHEM\1\DATA\03315A\QC03315A.D
Operator : MM
Acquired : 31 Mar 125 8:22 am using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: ST62126
Misc Info :
Vial Number: 1



QC CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

	LCS	LCD	
EAS ID:	QC03315B	QC03315A	
File Name:	QC03315B.D	QC03315A.D	
Sample ID	ST63255	ST63255	Can Factor: 1.00
QC Batch:	033125-MSA		
Air Volume:	5.0 ml		
Base Volume	1000 ml		
Combined Factor:	200.00		
Gas Constant:	23.8		
Unit Factor (ppbv):	1000 PPBV	UG/M3	
Sig Figs:	2		

Compound	Raw Amount	PPBV	Fixed PPBV	(1) %	FIXED %	Flag	Fixed MDL PPBV	Spike	Spike PPBV	LCL	UCL	RPD %	FIXED RPD %	Limit	Flag
Vinyl chloride	3.50	3.50	3.50	103	103		0.20	**3.38**	3.38	70	130	6	6	25	
1,1-Dichloroethene	3.56	3.56	3.56	100	100		0.20	**3.55**	3.55	70	130	3	3	25	
Dichloromethane	4.19	4.19	4.19	99	99		0.20	**4.22**	4.22	70	130	3	3	25	
1,1-Dichloroethane	3.68	3.68	3.68	101	101		0.20	**3.66**	3.66	70	130	3	3	25	
Chloroform	3.94	3.94	3.94	100	100		0.20	**3.93**	3.93	70	130	3	3	25	
1,1,1-Trichloroethane	3.54	3.54	3.54	105	105		0.20	**3.38**	3.38	70	130	3	3	25	
1,2-Dichloroethane	3.52	3.52	3.52	101	101		0.20	**3.48**	3.48	70	130	1	1	25	
Benzene	3.16	3.16	3.16	98	98		0.20	**3.22**	3.22	70	130	3	3	25	
Carbon tetrachloride	4.58	4.58	4.58	123	123		0.20	**3.73**	3.73	70	130	1	1	25	
Trichloroethene	3.76	3.76	3.76	106	106		0.20	**3.56**	3.56	70	130	0	0	25	
Toluene	3.71	3.71	3.71	107	107		0.20	**3.47**	3.47	70	130	3	3	25	
1,2-Dibromoethane	1.32	1.32	1.32	101	101		0.20	**1.31**	1.31	70	130	5	5	25	
Tetrachloroethene	2.08	2.08	2.08	116	116		0.20	**1.80**	1.80	70	130	7	7	25	
Ethylbenzene	3.96	3.96	3.96	117	117		0.20	**3.39**	3.39	70	130	11	11	25	
m,p-Xylenes	3.78	3.78	3.78	117	117		0.20	**3.23**	3.23	70	130	6	6	25	
o-Xylene	3.48	3.48	3.48	118	118		0.20	**2.95**	2.95	70	130	8	8	25	
1,3,5-Trimethylbenzene	3.83	3.83	3.83	111	111		0.20	**3.46**	3.46	70	130	2	2	25	
1,2,4-Trimethylbenzene	3.07	3.07	3.07	113	113		0.20	**2.72**	2.72	70	130	8	8	25	
Toluene-d8	9.93	9.93	9.93	99	99				10.00	70	130				
Vinyl chloride	3.30	3.30	3.30	98	98		0.20	**3.38**	3.38	70	130				
1,1-Dichloroethene	3.45	3.45	3.45	97	97		0.20	**3.55**	3.55	70	130				
Dichloromethane	4.08	4.08	4.08	97	97		0.20	**4.22**	4.22	70	130				
1,1-Dichloroethane	3.57	3.57	3.57	98	98		0.20	**3.66**	3.66	70	130				

Compound	Raw Amount	PPBV	PPBV	%	%	Flag	MDL PPBV	Spike	Spike PPBV	LCL	UCL	RPD %	RPD Limit %	Flag
Chloroform	3.84	3.84	3.84	98	98		0.20	**3.93**	3.93	70	130			
1,1,1-Trichloroethane	3.64	3.64	3.64	108	108		0.20	**3.38**	3.38	70	130			
1,2-Dichloroethane	3.50	3.50	3.50	100	100		0.20	**3.48**	3.48	70	130			
Benzene	3.25	3.25	3.25	101	101		0.20	**3.22**	3.22	70	130			
Carbon tetrachloride	4.63	4.63	4.63	124	124		0.20	**3.73**	3.73	70	130			
Trichloroethene	3.76	3.76	3.76	106	106		0.20	**3.56**	3.56	70	130			
Toluene	3.59	3.59	3.59	104	104		0.20	**3.47**	3.47	70	130			
1,2-Dibromoethane	1.26	1.26	1.26	97	97		0.20	**1.31**	1.31	70	130			
Tetrachloroethene	1.95	1.95	1.95	108	108		0.20	**1.80**	1.80	70	130			
Ethylbenzene	3.55	3.55	3.55	105	105		0.20	**3.39**	3.39	70	130			
m,p-Xylenes	3.57	3.57	3.57	111	111		0.20	**3.23**	3.23	70	130			
o-Xylene	3.21	3.21	3.21	109	109		0.20	**2.95**	2.95	70	130			
1,3,5-Trimethylbenzene	3.77	3.77	3.77	109	109		0.20	**3.46**	3.46	70	130			
1,2,4-Trimethylbenzene	2.84	2.84	2.84	105	105		0.20	**2.72**	2.72	70	130			
Toluene-d8	9.38	9.38	9.38	94	94				10.00	70	130			

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 **Volatile Organic Compounds by GC/MS**

QC_Batch: 040125-MA1
Date: 04/01/25

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
75-01-4	Vinyl chloride	91		92		70	130	2	25	
75-35-4	1,1-Dichloroethene	91		91		70	130	0	25	
75-09-2	Dichloromethane	94		92		70	130	3	25	
75-34-3	1,1-Dichloroethane	91		93		70	130	2	25	
67-66-3	Chloroform	95		95		70	130	0	25	
71-55-6	1,1,1-Trichloroethane	104		104		70	130	0	25	
107-06-2	1,2-Dichloroethane	99		96		70	130	4	25	
71-43-2	Benzene	108		97		70	130	11	25	
56-23-5	Carbon tetrachloride	109		105		70	130	4	25	
79-01-6	Trichloroethene	112		104		70	130	8	25	
108-88-3	Toluene	105		100		70	130	5	25	
106-93-4	1,2-Dibromoethane	93		96		70	130	2	25	
127-18-4	Tetrachloroethene	116		117		70	130	1	25	
100-41-4	Ethylbenzene	125		116		70	130	8	25	
1330-20-7	m,p-Xylenes	123		117		70	130	5	25	
95-47-6	o-Xylene	119		118		70	130	1	25	
108-67-8	1,3,5-Trimethylbenzene	114		113		70	130	1	25	
95-63-6	1,2,4-Trimethylbenzene	112		109		70	130	3	25	

LCS - Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QUANTITATION REPORT LCS

EPA Method TO-15 Modified Full Scan GC/MS

							SDG:	**LABQC**	
							EAS ID:	**QC04015B**	
File Name:	QC04015B.D						**Date Sampled:**	**Time:**	
Sample ID:	ST63255						**Date Received:**	**Time:**	
Method:	**TO15**						**Date Analyzed:**	**04/01/25**	**Time:** **9:27**
MiscInfo-Vol:		MDL FAC:	**1**				**Can Factor:**	**1.00**	0:00
Date:	1 Apr 125 9:27 am	SF:	**2**				**Volume:**	**5.00**	
Run Method:	A1563_P.M	SamType:	**LCS**				**Can (Vial) No:**	**NA**	
Quant Method:	A1563_P.M	UnitDil:	**1000**	PPBV	UG/M3		**QCbatch:**	**040125-MA1**	
Cal Update:	Mon Mar 31 10:13:11 2025	Temp:	**25.0**				**Matrix:**	**AA**	
Instrument:	5970 - MS	Instrument ID:	**MA1**						
Analyst:	MM	Multiplier:	1.00						
		Type:	**TRG**						

CAS#	Compound	n	Type	Raw Amount	RT	Target RT	Ion	Sample Area	
75-01-4	Vinyl chloride	5	TRG	3.078	5.17	4.98	62.00	729518	
75-35-4	1,1-Dichloroethene	13	TRG	3.221	7.15	7.06	61.00	1344169	
75-09-2	Dichloromethane	15	TRG	3.965	7.40	7.35	84.00	567058	
75-34-3	1,1-Dichloroethane	19	TRG	3.313	8.41	8.40	63.00	1569022	
67-66-3	Chloroform	26	TRG	3.722	9.40	9.43	83.00	1585529	
71-55-6	1,1,1-Trichloroethane	28	TRG	3.528	10.19	10.25	97.00	1698919	
107-06-2	1,2-Dichloroethane	29	TRG	3.464	10.22	10.28	61.95	1517940	
71-43-2	Benzene	31	TRG	3.482	10.63	10.70	78.00	2988534	
56-23-5	Carbon tetrachloride	32	TRG	4.069	10.68	10.73	116.90	1338794	
79-01-6	Trichloroethene	36	TRG	3.998	11.57	11.66	130.00	1415670	
108-88-3	Toluene	42	TRG	3.645	13.38	13.51	91.00	4018530	
106-93-4	1,2-Dibromoethane	47	TRG	1.223	14.47	14.61	107.00	828235	
127-18-4	Tetrachloroethene	48	TRG	2.084	14.54	14.68	166.00	1032027	
100-41-4	Ethylbenzene	51	TRG	4.243	15.74	15.89	91.00	5778696	
1330-20-7	m,p-Xylenes	52	TRG	3.967	15.91	16.05	91.00	4788231	
95-47-6	o-Xylene	55	TRG	3.522	16.54	16.68	91.00	4444104	
108-67-8	1,3,5-Trimethylbenzene	58	TRG	3.936	18.06	18.21	105.00	6662251	
95-63-6	1,2,4-Trimethylbenzene	59	TRG	3.059	18.76	18.93	105.00	5791866	
363-72-4	Pentafluorobenzene	1	IS	20.000	9.79	9.84	168.00	**11831402**	
108-88-3	1,4-Difluorobenzene	27	IS	20.000	10.94	11.01	114.00	**14440748**	
3114-55-4	Chlorobenzene-d5	49	IS	20.000	15.41	15.56	117.00	**15051666**	
2037-26-5	Toluene-d8	41	SURR	9.917	13.26	13.39	98.00	**8803267**	

QUANTITATION REPORT LCD

EPA Method TO-15 Modified Full Scan GC/MS

							SDG:	**LABQC**	
							EAS ID:	**QC04015A**	
File Name:	QC04015A.D						**Date Sampled:**	**Time:**	
Sample ID:	ST63255						**Date Received:**	**Time:**	
Method:	**TO15**						**Date Analyzed:**	**04/01/25**	**Time:** **8:50**
MiscInfo-Vol:		MDL FAC:	**1**				**Can Factor:**	**1.00**	0:00
Date:	1 Apr 125 8:50 am	SF:	**2**				**Volume:**	**5.00**	
Run Method:	A1563_P.M	SamType:	**LCD**				**Can (Vial) No:**	**NA**	
Quant Method:	A15CS2_P.M	UnitDil:	**1000**	PPBV	UG/M3		**QCbatch:**	**040125-MA1**	
Cal Update:	Mon Mar 31 10:13:11 2025	Temp:	**25.0**				**Matrix:**	**AA**	
Instrument:	5970 - MS	Instrument ID:	**MA1**						
Analyst:	MM	Multiplier:	1.00						
		Type:	**TRG**						

CAS#	Compound	n	Type	Raw Amount	RT	Target RT	Ion	Sample Area
75-01-4	Vinyl chloride	5	TRG	3.127	5.17	4.98	62.00	736264
75-35-4	1,1-Dichloroethene	13	TRG	3.220	7.15	7.06	61.00	1335054
75-09-2	Dichloromethane	15	TRG	3.864	7.42	7.35	84.00	548944
75-34-3	1,1-Dichloroethane	19	TRG	3.388	8.43	8.40	63.00	1594193
67-66-3	Chloroform	26	TRG	3.714	9.40	9.43	83.00	1571652
71-55-6	1,1,1-Trichloroethane	28	TRG	3.510	10.19	10.25	97.00	1617733
107-06-2	1,2-Dichloroethane	29	TRG	3.332	10.22	10.28	61.95	1397158
71-43-2	Benzene	31	TRG	3.118	10.65	10.70	78.00	2561276
56-23-5	Carbon tetrachloride	32	TRG	3.911	10.68	10.73	116.90	1231537
79-01-6	Trichloroethene	36	TRG	3.705	11.57	11.66	130.00	1255440
108-88-3	Toluene	42	TRG	3.459	13.38	13.51	91.00	3649848
106-93-4	1,2-Dibromoethane	47	TRG	1.251	14.47	14.61	107.00	810850
127-18-4	Tetrachloroethene	48	TRG	2.099	14.54	14.68	166.00	994708
100-41-4	Ethylbenzene	51	TRG	3.935	15.74	15.89	91.00	5371345
1330-20-7	m,p-Xylenes	52	TRG	3.779	15.91	16.05	91.00	4571068
95-47-6	o-Xylene	55	TRG	3.481	16.54	16.68	91.00	4400630
108-67-8	1,3,5-Trimethylbenzene	58	TRG	3.897	18.06	18.21	105.00	6610812
95-63-6	1,2,4-Trimethylbenzene	59	TRG	2.956	18.76	18.93	105.00	5607885
363-72-4	Pentafluorobenzene	1	IS	20.000	9.80	9.84	168.00	**11755174**
108-88-3	1,4-Difluorobenzene	27	IS	20.000	10.94	11.01	114.00	**13819550**
3114-55-4	Chlorobenzene-d5	49	IS	20.000	15.41	15.56	117.00	**15083735**
2037-26-5	Toluene-d8	41	SURR	9.484	13.28	13.39	98.00	**8057032**

QC CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

	LCS	LCD	
EAS ID:	QC04015B	QC04015A	
File Name:	QC04015B.D	QC04015A.D	
Sample ID	ST63255	ST63255	Can Factor: 1.00
QC Batch:	040125-MA1		
Air Volume:	5.0 ml		
Base Volume	1000 ml		
Combined Factor:	200.00		
Gas Constant:	23.8		
Unit Factor (ppbv):	1000 PPBV	UG/M3	
Sig Figs:	2		

			Fixed	(1)	FIXED		Fixed					
Compound	**Raw Amount**	**PPBV**	**PPBV**	**%**	**%**	**Flag**	**MDL PPBV**	**Spike**	**Spike PPBV**	**LCL**	**UCL**	**RPD %**
Vinyl chloride	3.08	3.08	3.08	91	91		0.20	**3.38**	3.38	70	130	2
1,1-Dichloroethene	3.22	3.22	3.22	91	91		0.20	**3.55**	3.55	70	130	0
Dichloromethane	3.97	3.97	3.97	94	94		0.20	**4.22**	4.22	70	130	3
1,1-Dichloroethane	3.31	3.31	3.31	91	91		0.20	**3.66**	3.66	70	130	2
Chloroform	3.72	3.72	3.72	95	95		0.20	**3.93**	3.93	70	130	0
1,1,1-Trichloroethane	3.53	3.53	3.53	104	104		0.20	**3.38**	3.38	70	130	0
1,2-Dichloroethane	3.46	3.46	3.46	99	99		0.20	**3.48**	3.48	70	130	4
Benzene	3.48	3.48	3.48	108	108		0.20	**3.22**	3.22	70	130	11
Carbon tetrachloride	4.07	4.07	4.07	109	109		0.20	**3.73**	3.73	70	130	4
Trichloroethene	4.00	4.00	4.00	112	112		0.20	**3.56**	3.56	70	130	8
Toluene	3.65	3.65	3.65	105	105		0.20	**3.47**	3.47	70	130	5
1,2-Dibromoethane	1.22	1.22	1.22	93	93		0.20	**1.31**	1.31	70	130	2
Tetrachloroethene	2.08	2.08	2.08	116	116		0.20	**1.80**	1.80	70	130	1
Ethylbenzene	4.24	4.24	4.24	125	125		0.20	**3.39**	3.39	70	130	8
m,p-Xylenes	3.97	3.97	3.97	123	123		0.20	**3.23**	3.23	70	130	5
o-Xylene	3.52	3.52	3.52	119	119		0.20	**2.95**	2.95	70	130	1
1,3,5-Trimethylbenzene	3.94	3.94	3.94	114	114		0.20	**3.46**	3.46	70	130	1
1,2,4-Trimethylbenzene	3.06	3.06	3.06	112	112		0.20	**2.72**	2.72	70	130	3
Toluene-d8	9.92	9.92	9.92	99	99				10.00	70	130	
Vinyl chloride	3.13	3.13	3.13	92	92		0.20	**3.38**	3.38	70	130	
1,1-Dichloroethene	3.22	3.22	3.22	91	91		0.20	**3.55**	3.55	70	130	
Dichloromethane	3.86	3.86	3.86	92	92		0.20	**4.22**	4.22	70	130	
1,1-Dichloroethane	3.39	3.39	3.39	93	93		0.20	**3.66**	3.66	70	130	
Chloroform	3.71	3.71	3.71	95	95		0.20	**3.93**	3.93	70	130	
1,1,1-Trichloroethane	3.51	3.51	3.51	104	104		0.20	**3.38**	3.38	70	130	
1,2-Dichloroethane	3.33	3.33	3.33	96	96		0.20	**3.48**	3.48	70	130	
Benzene	3.12	3.12	3.12	97	97		0.20	**3.22**	3.22	70	130	
Carbon tetrachloride	3.91	3.91	3.91	105	105		0.20	**3.73**	3.73	70	130	
Trichloroethene	3.71	3.71	3.71	104	104		0.20	**3.56**	3.56	70	130	
Toluene	3.46	3.46	3.46	100	100		0.20	**3.47**	3.47	70	130	
1,2-Dibromoethane	1.25	1.25	1.25	96	96		0.20	**1.31**	1.31	70	130	
Tetrachloroethene	2.10	2.10	2.10	117	117		0.20	**1.80**	1.80	70	130	
Ethylbenzene	3.94	3.94	3.94	116	116		0.20	**3.39**	3.39	70	130	
m,p-Xylenes	3.78	3.78	3.78	117	117		0.20	**3.23**	3.23	70	130	

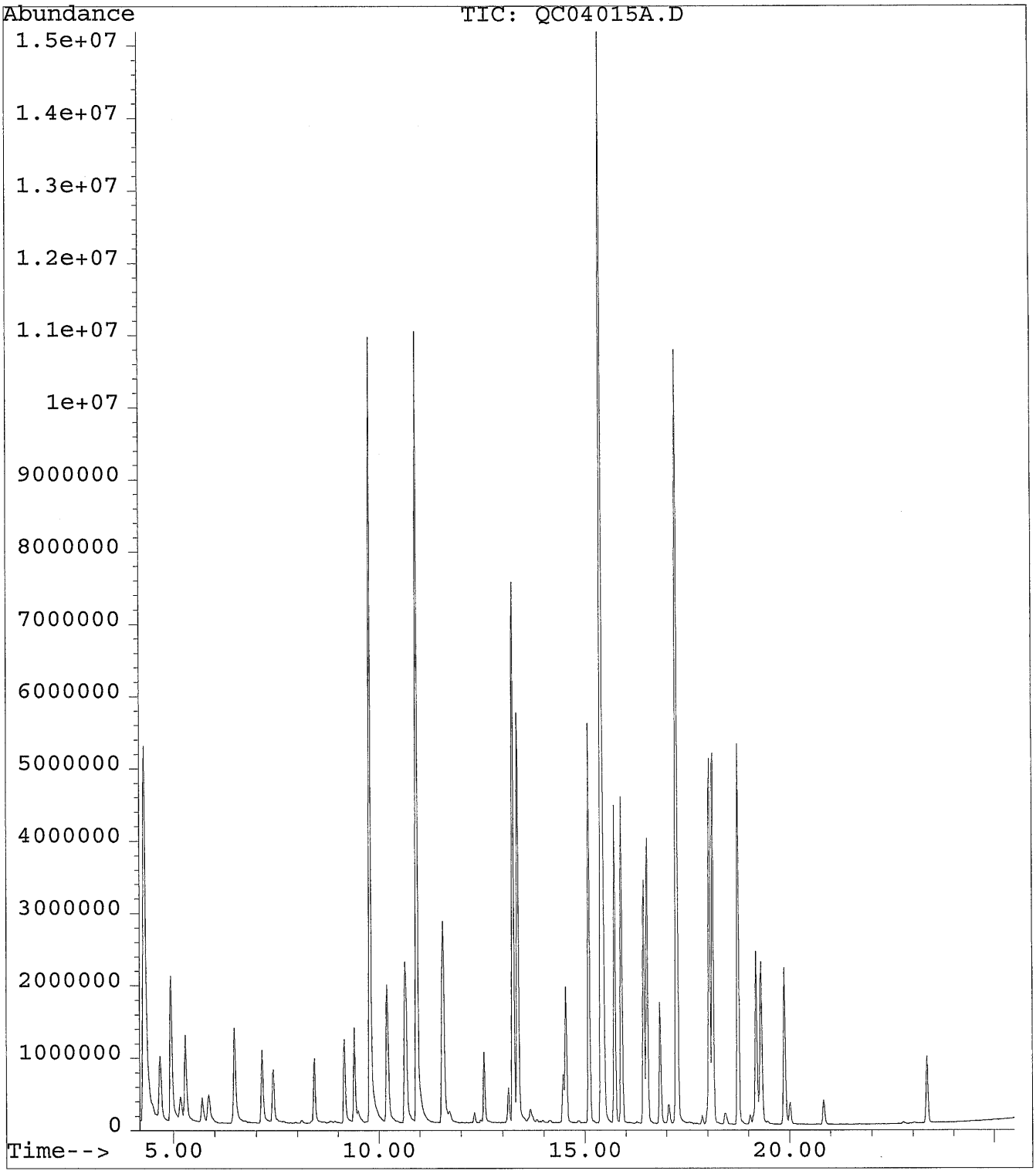
Compound	Raw Amount	PPBV	PPBV	%	%	Flag	MDL PPBV	Spike	Spike PPBV	LCL	UCL	RPD %
o-Xylene	3.48	3.48	3.48	118	118		0.20	**2.95**	2.95	70	130	
1,3,5-Trimethylbenzene	3.90	3.90	3.90	113	113		0.20	**3.46**	3.46	70	130	
1,2,4-Trimethylbenzene	2.96	2.96	2.96	109	109		0.20	**2.72**	2.72	70	130	
Toluene-d8	9.48	9.48	9.48	95	95				10.00	70	130	

IXED

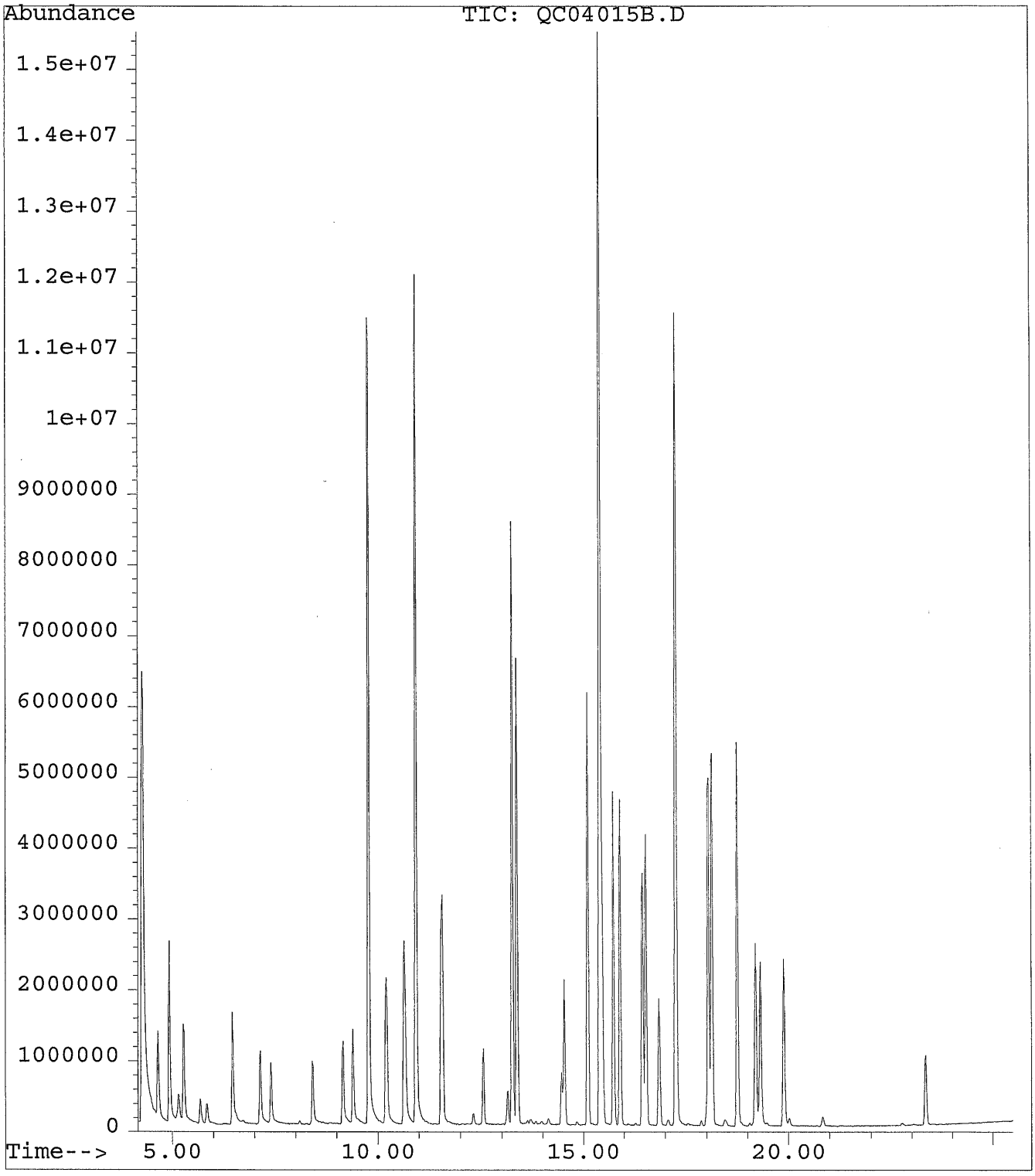
RPD %	imi	Flag
2	25	
0	25	
3	25	
2	25	
0	25	
0	25	
4	25	
11	25	
4	25	
8	25	
5	25	
2	25	
1	25	
8	25	
5	25	
1	25	
1	25	
3	25	

RPD %	imi	Flag

File : C:\MSCHEM\1\DATA\04015A_C\QC04015A.D
Operator : MM
Acquired : 1 Apr 125 8:50 am using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: ST63225
Misc Info :
Vial Number: 1



File : C:\MSCHEM\1\DATA\04015A_C\QC04015B.D
Operator : MM
Acquired : 1 Apr 125 9:27 am using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: ST63225
Misc Info :
Vial Number: 1



Quality Control Report

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate
EPA Method TO-15 Volatile Organic Compounds by GC/MS

QC Batch: 040225-MA1
Analysis Date: 04/02/25

Compound	Spike PPBV	LCS PPBV	Recovery %	Flag	LCD PPBV	Recovery %	Flag	LCL	UCL	RPD %	Limit	Flag
Vinyl chloride	3.30	3.25	98		3.08	93		70	130	5	25	
1,1-Dichloroethene	3.44	3.25	95		3.20	93		70	130	2	25	
Dichloromethane	4.12	3.82	93		3.98	97		70	130	4	25	
1,1-Dichloroethane	3.54	3.33	94		3.27	92		70	130	2	25	
Chloroform	3.84	3.61	94		3.70	96		70	130	2	25	
1,1,1-Trichloroethane	3.42	3.51	103		3.50	102		70	130	0	25	
1,2-Dichloroethane	3.45	3.43	99		3.28	95		70	130	5	25	
Benzene	3.25	3.32	102		3.16	97		70	130	5	25	
Carbon tetrachloride	3.94	4.50	114		4.45	113		70	130	1	25	
Trichloroethene	3.74	4.34	116		3.99	107		70	130	8	25	
Toluene	3.53	3.76	107		3.55	101		70	130	6	25	
1,2-Dibromoethane	1.29	1.27	98		1.27	99		70	130	1	25	
Tetrachloroethene	1.95	2.41	123		2.26	116		70	130	6	25	
Ethylbenzene	3.73	4.61	124		4.41	118		70	130	4	25	
m,p-Xylenes	3.56	4.53	127		4.21	118		70	130	7	25	
o-Xylene	3.23	4.10	127		3.76	116		70	130	9	25	
1,3,5-Trimethylbenze	3.69	4.34	118		4.21	114		70	130	3	25	
1,2,4-Trimethylbenze	2.87	3.36	117		3.10	108		70	130	8	25	

LCS - Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QUANTITATION REPORT LCS

EPA Method TO-15 Modified Full Scan GC/MS

					SDG:	**LABQC**	
					EAS ID:	**QC04025B**	
File Name:	QC04025B.D				**Date Sampled:**	**Time:**	
Sample ID:	ST63255				**Date Received:**	**Time:**	
Method:	**TO15**				**Date Analyzed:**	**04/02/25**	**Time:** **8:20**
MiscInfo-Vol:		MDL FAC:	**1**		**Can Factor:**	**1.00**	0:00
Date:	2 Apr 125 8:20 am	SF:	**2**		**Volume:**	**5.00**	
Run Method:	A1563_P.M	SamType:	**LCS**		**Can (Vial) No:**	**NA**	
Quant Method:	A1563_P.M	UnitDil:	**1000**	PPBV UG/M3	**QCbatch:**	**040225-MA1**	
Cal Update:	Mon Mar 31 10:13:11 2025	Temp:	**25.0**		**Matrix:**	**AA**	
Instrument:	5970 - MS	Instrument ID:	**MA1**				
Analyst:	MM	Multiplier:	1.00				
		Type:	**TRG**				

CAS#	Compound	n	Type	Raw Amount	RT	Target RT	Ion	Sample Area
75-01-4	Vinyl chloride	5	TRG	3.246	5.17	4.98	62.00	820120
75-35-4	1,1-Dichloroethene	13	TRG	3.251	7.15	7.06	61.00	1446283
75-09-2	Dichloromethane	15	TRG	3.823	7.41	7.35	84.00	582716
75-34-3	1,1-Dichloroethane	19	TRG	3.328	8.43	8.40	63.00	1680303
67-66-3	Chloroform	26	TRG	3.607	9.40	9.43	83.00	1637610
71-55-6	1,1,1-Trichloroethane	28	TRG	3.511	10.21	10.25	97.00	1726345
107-06-2	1,2-Dichloroethane	29	TRG	3.429	10.22	10.28	61.95	1534203
71-43-2	Benzene	31	TRG	3.320	10.65	10.70	78.00	2908660
56-23-5	Carbon tetrachloride	32	TRG	4.501	10.69	10.73	116.90	1511912
79-01-6	Trichloroethene	36	TRG	4.336	11.59	11.66	130.00	1567249
108-88-3	Toluene	42	TRG	3.761	13.40	13.51	91.00	4233285
106-93-4	1,2-Dibromoethane	47	TRG	1.266	14.49	14.61	107.00	875236
127-18-4	Tetrachloroethene	48	TRG	2.406	14.56	14.68	166.00	1216618
100-41-4	Ethylbenzene	51	TRG	4.610	15.76	15.89	91.00	5973075
1330-20-7	m,p-Xylenes	52	TRG	4.530	15.93	16.05	91.00	5200792
95-47-6	o-Xylene	55	TRG	4.103	16.56	16.68	91.00	4925058
108-67-8	1,3,5-Trimethylbenzene	58	TRG	4.342	18.08	18.21	105.00	6992903
95-63-6	1,2,4-Trimethylbenzene	59	TRG	3.361	18.78	18.93	105.00	6052535
363-72-4	Pentafluorobenzene	1	IS	20.000	9.80	9.84	168.00	**12612384**
108-88-3	1,4-Difluorobenzene	27	IS	20.000	10.94	11.01	114.00	**14742087**
3114-55-4	Chlorobenzene-d5	49	IS	20.000	15.43	15.56	117.00	**14319406**
2037-26-5	Toluene-d8	41	SURR	10.004	13.28	13.39	98.00	**9065934**

QUANTITATION REPORT LCD

EPA Method TO-15 Modified Full Scan GC/MS

							SDG:	**LABQC**	
							EAS ID:	**QC04025A**	
File Name:	QC04025A.D						**Date Sampled:**	**Time:**	
Sample ID:	ST63255						**Date Received:**	**Time:**	
Method:	**TO15**						**Date Analyzed:**	**04/02/25**	**Time:** **7:42**
MiscInfo-Vol:		MDL FAC:	**1**				**Can Factor:**	**1.00**	0:00
Date:	2 Apr 125 7:42 am	SF:	**2**				**Volume:**	**5.00**	
Run Method:	A1563_P.M	SamType:	**LCD**				**Can (Vial) No:**	**NA**	
Quant Method:	A1563_P.M	UnitDil:	**1000**	PPBV	UG/M3		**QCbatch:**	**040225-MA1**	
Cal Update:	Mon Mar 31 10:13:11 2025	Temp:	**25.0**				**Matrix:**	**AA**	
Instrument:	5970 - MS	Instrument ID:	**MA1**						
Analyst:	MM	Multiplier:	1.00						
		Type:	**TRG**						

CAS#	Compound	n	Type	Raw Amount	RT	Target RT	Ion	Sample Area
75-01-4	Vinyl chloride	5	TRG	3.080	5.22	4.98	62.00	774172
75-35-4	1,1-Dichloroethene	13	TRG	3.198	7.20	7.06	61.00	1415540
75-09-2	Dichloromethane	15	TRG	3.981	7.46	7.35	84.00	603800
75-34-3	1,1-Dichloroethane	19	TRG	3.266	8.47	8.40	63.00	1640644
67-66-3	Chloroform	26	TRG	3.697	9.44	9.43	83.00	1670165
71-55-6	1,1,1-Trichloroethane	28	TRG	3.504	10.22	10.25	97.00	1697302
107-06-2	1,2-Dichloroethane	29	TRG	3.275	10.26	10.28	61.95	1443465
71-43-2	Benzene	31	TRG	3.164	10.67	10.70	78.00	2731058
56-23-5	Carbon tetrachloride	32	TRG	4.453	10.70	10.73	116.90	1473507
79-01-6	Trichloroethene	36	TRG	3.995	11.61	11.66	130.00	1422535
108-88-3	Toluene	42	TRG	3.554	13.40	13.51	91.00	3940786
106-93-4	1,2-Dibromoethane	47	TRG	1.274	14.49	14.61	107.00	868123
127-18-4	Tetrachloroethene	48	TRG	2.259	14.56	14.68	166.00	1125218
100-41-4	Ethylbenzene	51	TRG	4.412	15.76	15.89	91.00	5635262
1330-20-7	m,p-Xylenes	52	TRG	4.210	15.93	16.05	91.00	4764688
95-47-6	o-Xylene	55	TRG	3.761	16.56	16.68	91.00	4450148
108-67-8	1,3,5-Trimethylbenzene	58	TRG	4.208	18.06	18.21	105.00	6679388
95-63-6	1,2,4-Trimethylbenzene	59	TRG	3.104	18.78	18.93	105.00	5511196
363-72-4	Pentafluorobenzene	1	IS	20.000	9.83	9.84	168.00	**12548519**
108-88-3	1,4-Difluorobenzene	27	IS	20.000	10.96	11.01	114.00	**14522447**
3114-55-4	Chlorobenzene-d5	49	IS	20.000	15.43	15.56	117.00	**14115182**
2037-26-5	Toluene-d8	41	SURR	9.573	13.30	13.39	98.00	**8546297**

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 **Volatile Organic Compounds by GC/MS**

QC_Batch: 040225-MA1
Date: 04/02/25

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
75-01-4	Vinyl chloride	98		93		70	130	5	25	
75-35-4	1,1-Dichloroethene	95		93		70	130	2	25	
75-09-2	Dichloromethane	93		97		70	130	4	25	
75-34-3	1,1-Dichloroethane	94		92		70	130	2	25	
67-66-3	Chloroform	94		96		70	130	2	25	
71-55-6	1,1,1-Trichloroethane	103		102		70	130	0	25	
107-06-2	1,2-Dichloroethane	99		95		70	130	5	25	
71-43-2	Benzene	102		97		70	130	5	25	
56-23-5	Carbon tetrachloride	114		113		70	130	1	25	
79-01-6	Trichloroethene	116		107		70	130	8	25	
108-88-3	Toluene	107		101		70	130	6	25	
106-93-4	1,2-Dibromoethane	98		99		70	130	1	25	
127-18-4	Tetrachloroethene	123		116		70	130	6	25	
100-41-4	Ethylbenzene	124		118		70	130	4	25	
1330-20-7	m,p-Xylenes	127		118		70	130	7	25	
95-47-6	o-Xylene	127		116		70	130	9	25	
108-67-8	1,3,5-Trimethylbenzene	118		114		70	130	3	25	
95-63-6	1,2,4-Trimethylbenzene	117		108		70	130	8	25	

LCS - Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QC CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

	LCS	LCD	
EAS ID:	QC04025B	QC04025A	
File Name:	QC04025B.D	QC04025A.D	
Sample ID	ST63255	ST63255	Can Factor: 1.00
QC Batch:	040225-MA1		
Air Volume:	5.0 ml		
Base Volume	1000 ml		
Combined Factor:	200.00		
Gas Constant:	23.8		
Unit Factor (ppbv):	1000 PPBV	UG/M3	
Sig Figs:	2		

			Fixed	(1)	FIXED		Fixed					
Compound	**Raw Amount**	**PPBV**	**PPBV**	**%**	**%**	**Flag**	**MDL PPBV**	**Spike**	**Spike PPBV**	**LCL**	**UCL**	**RPD %**
Vinyl chloride	3.25	3.25	3.25	98	98		0.20	**3.30**	3.30	70	130	5
1,1-Dichloroethene	3.25	3.25	3.25	95	95		0.20	**3.44**	3.44	70	130	2
Dichloromethane	3.82	3.82	3.82	93	93		0.20	**4.12**	4.12	70	130	4
1,1-Dichloroethane	3.33	3.33	3.33	94	94		0.20	**3.54**	3.54	70	130	2
Chloroform	3.61	3.61	3.61	94	94		0.20	**3.84**	3.84	70	130	2
1,1,1-Trichloroethane	3.51	3.51	3.51	103	103		0.20	**3.42**	3.42	70	130	0
1,2-Dichloroethane	3.43	3.43	3.43	99	99		0.20	**3.45**	3.45	70	130	5
Benzene	3.32	3.32	3.32	102	102		0.20	**3.25**	3.25	70	130	5
Carbon tetrachloride	4.50	4.50	4.50	114	114		0.20	**3.94**	3.94	70	130	1
Trichloroethene	4.34	4.34	4.34	116	116		0.20	**3.74**	3.74	70	130	8
Toluene	3.76	3.76	3.76	107	107		0.20	**3.53**	3.53	70	130	6
1,2-Dibromoethane	1.27	1.27	1.27	98	98		0.20	**1.29**	1.29	70	130	1
Tetrachloroethene	2.41	2.41	2.41	123	123		0.20	**1.95**	1.95	70	130	6
Ethylbenzene	4.61	4.61	4.61	124	124		0.20	**3.73**	3.73	70	130	4
m,p-Xylenes	4.53	4.53	4.53	127	127		0.20	**3.56**	3.56	70	130	7
o-Xylene	4.10	4.10	4.10	127	127		0.20	**3.23**	3.23	70	130	9
1,3,5-Trimethylbenzene	4.34	4.34	4.34	118	118		0.20	**3.69**	3.69	70	130	3
1,2,4-Trimethylbenzene	3.36	3.36	3.36	117	117		0.20	**2.87**	2.87	70	130	8
Toluene-d8	10.00	10.00	10.00	100	100				10.00	70	130	
Vinyl chloride	3.08	3.08	3.08	93	93		0.20	**3.30**	3.30	70	130	
1,1-Dichloroethene	3.20	3.20	3.20	93	93		0.20	**3.44**	3.44	70	130	
Dichloromethane	3.98	3.98	3.98	97	97		0.20	**4.12**	4.12	70	130	
1,1-Dichloroethane	3.27	3.27	3.27	92	92		0.20	**3.54**	3.54	70	130	
Chloroform	3.70	3.70	3.70	96	96		0.20	**3.84**	3.84	70	130	
1,1,1-Trichloroethane	3.50	3.50	3.50	102	102		0.20	**3.42**	3.42	70	130	
1,2-Dichloroethane	3.28	3.28	3.28	95	95		0.20	**3.45**	3.45	70	130	
Benzene	3.16	3.16	3.16	97	97		0.20	**3.25**	3.25	70	130	
Carbon tetrachloride	4.45	4.45	4.45	113	113		0.20	**3.94**	3.94	70	130	
Trichloroethene	3.99	3.99	3.99	107	107		0.20	**3.74**	3.74	70	130	
Toluene	3.55	3.55	3.55	101	101		0.20	**3.53**	3.53	70	130	
1,2-Dibromoethane	1.27	1.27	1.27	99	99		0.20	**1.29**	1.29	70	130	
Tetrachloroethene	2.26	2.26	2.26	116	116		0.20	**1.95**	1.95	70	130	
Ethylbenzene	4.41	4.41	4.41	118	118		0.20	**3.73**	3.73	70	130	
m,p-Xylenes	4.21	4.21	4.21	118	118		0.20	**3.56**	3.56	70	130	

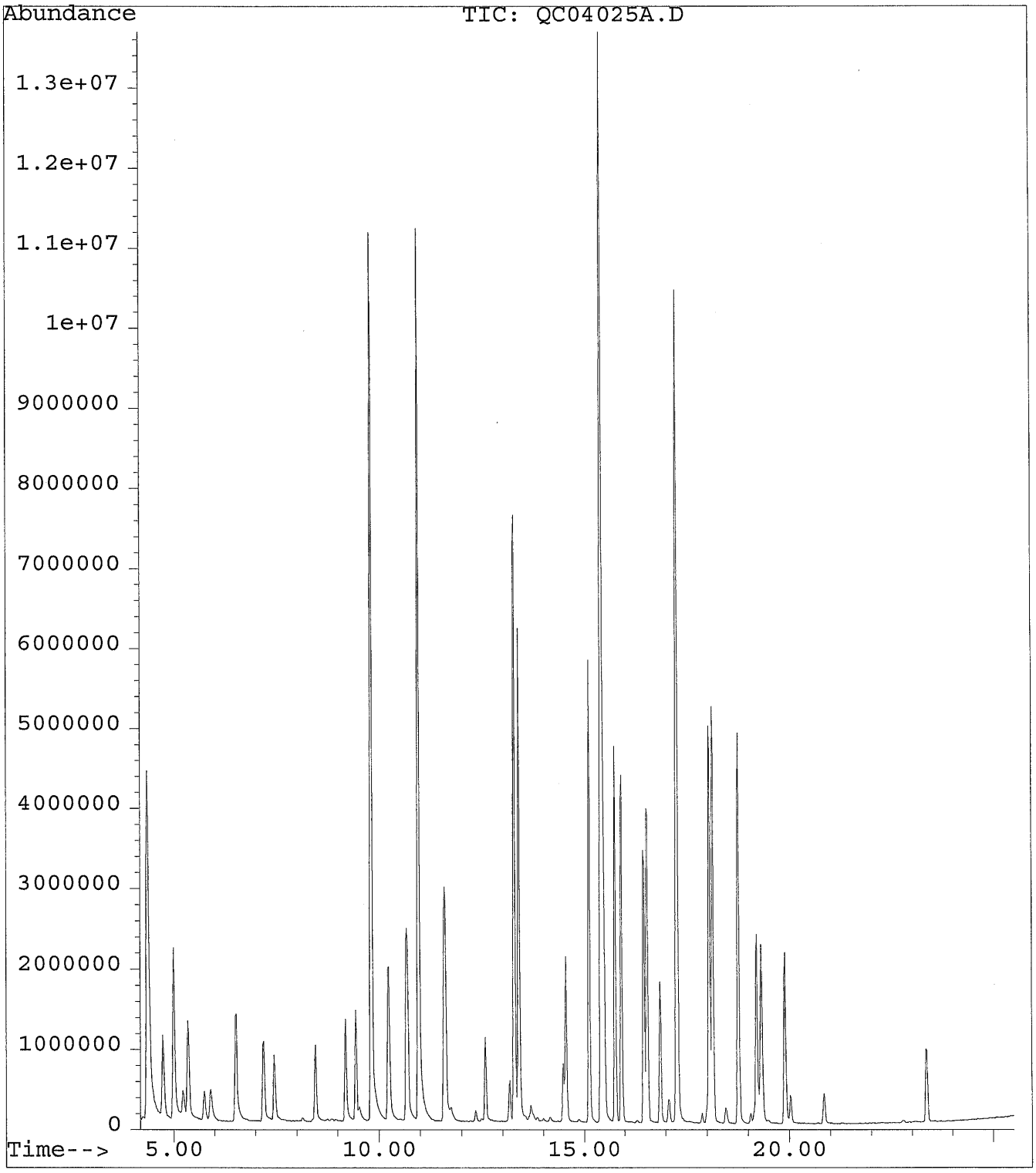
Compound	Raw Amount	PPBV	PPBV	%	%	Flag	MDL PPBV	Spike	Spike PPBV	LCL	UCL	RPD %
o-Xylene	3.76	3.76	3.76	116	116		0.20	**3.23**	3.23	70	130	
1,3,5-Trimethylbenzene	4.21	4.21	4.21	114	114		0.20	**3.69**	3.69	70	130	
1,2,4-Trimethylbenzene	3.10	3.10	3.10	108	108		0.20	**2.87**	2.87	70	130	
Toluene-d8	9.57	9.57	9.57	96	96				10.00	70	130	

IXED

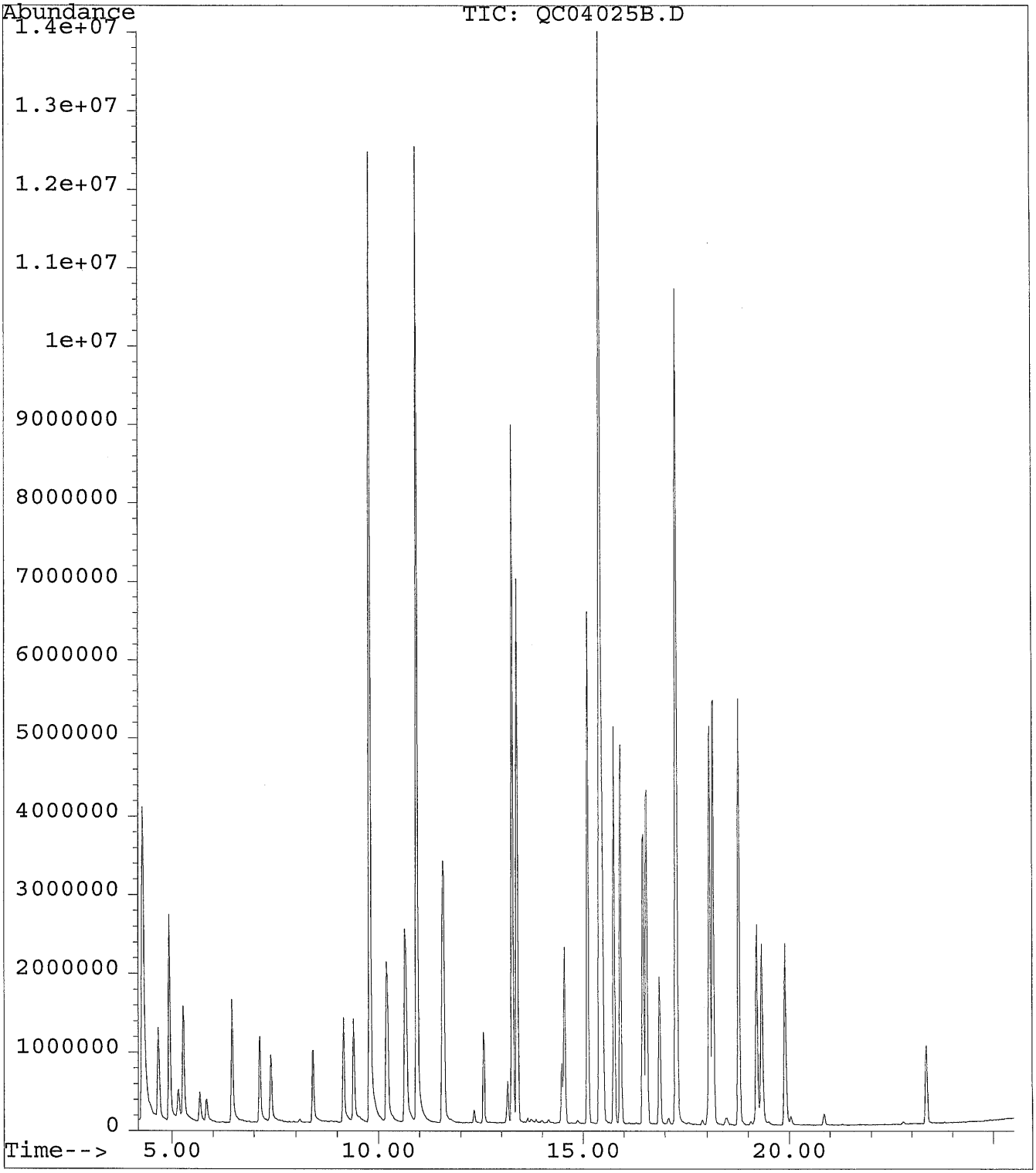
RPD %	imi	Flag
5	25	
2	25	
4	25	
2	25	
2	25	
0	25	
5	25	
5	25	
1	25	
8	25	
6	25	
1	25	
6	25	
4	25	
7	25	
9	25	
3	25	
8	25	

RPD %	imi	Flag

File : C:\MSCHEM\1\DATA\04025A_C\QC04025A.D
Operator : MM
Acquired : 2 Apr 125 7:42 am using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: ST63255
Misc Info :
Vial Number: 1



File : C:\MSCHEM\1\DATA\04025A_C\QC04025B.D
Operator : MM
Acquired : 2 Apr 125 8:20 am using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: ST63255
Misc Info :
Vial Number: 1



QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 **Volatile Organic Compounds by GC/MS**

QC_Batch: 040325-MA1
Date: 04/03/25

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
75-01-4	Vinyl chloride	98		92		70	130	7	25	
75-35-4	1,1-Dichloroethene	96		93		70	130	3	25	
75-09-2	Dichloromethane	99		96		70	130	3	25	
75-34-3	1,1-Dichloroethane	93		91		70	130	3	25	
67-66-3	Chloroform	97		93		70	130	4	25	
71-55-6	1,1,1-Trichloroethane	102		97		70	130	5	25	
107-06-2	1,2-Dichloroethane	99		91		70	130	8	25	
71-43-2	Benzene	106		104		70	130	2	25	
56-23-5	Carbon tetrachloride	104		93		70	130	10	25	
79-01-6	Trichloroethene	117		106		70	130	9	25	
108-88-3	Toluene	104		97		70	130	7	25	
106-93-4	1,2-Dibromoethane	101		104		70	130	3	25	
127-18-4	Tetrachloroethene	121		121		70	130	0	25	
100-41-4	Ethylbenzene	128		124		70	130	3	25	
1330-20-7	m,p-Xylenes	128		122		70	130	5	25	
95-47-6	o-Xylene	129		125		70	130	3	25	
108-67-8	1,3,5-Trimethylbenzene	127		122		70	130	4	25	
95-63-6	1,2,4-Trimethylbenzene	120		121		70	130	0	25	

LCS - Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QUANTITATION REPORT LCS

EPA Method TO-15 Modified Full Scan GC/MS

							SDG:	**LABQC**	
							EAS ID:	**QC04035B**	
File Name:	QC04035B.D						**Date Sampled:**	**Time:**	
Sample ID:	ST63255						**Date Received:**	**Time:**	
Method:	**TO15**						**Date Analyzed:**	**04/03/25**	**Time:** **9:04**
MiscInfo-Vol:		MDL FAC:	**1**				**Can Factor:**	**1.00**	0:00
Date:	3 Apr 125 9:04 am	SF:	**2**				**Volume:**	**5.00**	
Run Method:	A1563_P.M	SamType:	**LCS**				**Can (Vial) No:**	**NA**	
Quant Method:	A1563_P.M	UnitDil:	**1000**	PPBV	UG/M3		**QCbatch:**	**040325-MA1**	
Cal Update:	Mon Mar 31 10:13:11 2025	Temp:	**25.0**				**Matrix:**	**AA**	
Instrument:	5970 - MS	Instrument ID:	**MA1**						
Analyst:	MM	Multiplier:	1.00						
		Type:	**TRG**						

CAS#	Compound	n	Type	Raw Amount	RT	Target RT	Ion	Sample Area
75-01-4	Vinyl chloride	5	TRG	3.225	5.17	4.98	62.00	809564
75-35-4	1,1-Dichloroethene	13	TRG	3.225	7.14	7.06	61.00	1425363
75-09-2	Dichloromethane	15	TRG	4.052	7.42	7.35	84.00	613708
75-34-3	1,1-Dichloroethane	19	TRG	3.230	8.43	8.40	63.00	1619990
67-66-3	Chloroform	26	TRG	3.684	9.41	9.43	83.00	1661955
71-55-6	1,1,1-Trichloroethane	28	TRG	3.558	10.20	10.25	97.00	1742428
107-06-2	1,2-Dichloroethane	29	TRG	3.421	10.23	10.28	61.95	1524302
71-43-2	Benzene	31	TRG	3.525	10.64	10.70	78.00	3075483
56-23-5	Carbon tetrachloride	32	TRG	4.466	10.68	10.73	116.90	1494114
79-01-6	Trichloroethene	36	TRG	4.644	11.58	11.66	130.00	1671638
108-88-3	Toluene	42	TRG	3.730	13.39	13.51	91.00	4181154
106-93-4	1,2-Dibromoethane	47	TRG	1.308	14.48	14.61	107.00	900698
127-18-4	Tetrachloroethene	48	TRG	2.550	14.55	14.68	166.00	1284259
100-41-4	Ethylbenzene	51	TRG	5.246	15.76	15.89	91.00	6180874
1330-20-7	m,p-Xylenes	52	TRG	5.040	15.92	16.05	91.00	5261899
95-47-6	o-Xylene	55	TRG	4.590	16.55	16.68	91.00	5009694
108-67-8	1,3,5-Trimethylbenzene	58	TRG	5.021	18.06	18.21	105.00	7352804
95-63-6	1,2,4-Trimethylbenzene	59	TRG	3.608	18.78	18.93	105.00	5908067
363-72-4	Pentafluorobenzene	1	IS	20.000	9.79	9.84	168.00	**12530943**
108-88-3	1,4-Difluorobenzene	27	IS	20.000	10.95	11.01	114.00	**14681701**
3114-55-4	Chlorobenzene-d5	49	IS	20.000	15.42	15.56	117.00	**13020613**
2037-26-5	Toluene-d8	41	SURR	9.777	13.27	13.39	98.00	**8823659**

QUANTITATION REPORT LCD

EPA Method TO-15 Modified Full Scan GC/MS

							SDG:	**LABQC**	
							EAS ID:	**QC04035A**	
File Name:	QC04035A.D						**Date Sampled:**	**Time:**	
Sample ID:	ST63255						**Date Received:**	**Time:**	
Method:	**TO15**						**Date Analyzed:**	**04/03/25**	**Time:** **8:27**
MiscInfo-Vol:		MDL FAC:	**1**				**Can Factor:**	**1.00**	0:00
Date:	3 Apr 125 8:27 am	SF:	**2**				**Volume:**	**5.00**	
Run Method:	A1563_P.M	SamType:	**LCD**				**Can (Vial) No:**	**NA**	
Quant Method:	A1563_P.M	UnitDil:	**1000**	PPBV	UG/M3		**QCbatch:**	**040325-MA1**	
Cal Update:	Mon Mar 31 10:13:11 2025	Temp:	**25.0**				**Matrix:**	**AA**	
Instrument:	5970 - MS	Instrument ID:	**MA1**						
Analyst:	MM	Multiplier:	1.00						
		Type:	**TRG**						

CAS#	Compound	n	Type	Raw Amount	RT	Target RT	Ion	Sample Area
75-01-4	Vinyl chloride	5	TRG	3.014	5.17	4.98	62.00	787330
75-35-4	1,1-Dichloroethene	13	TRG	3.141	7.15	7.06	61.00	1445325
75-09-2	Dichloromethane	15	TRG	3.948	7.42	7.35	84.00	622478
75-34-3	1,1-Dichloroethane	19	TRG	3.137	8.43	8.40	63.00	1637570
67-66-3	Chloroform	26	TRG	3.524	9.40	9.43	83.00	1654676
71-55-6	1,1,1-Trichloroethane	28	TRG	3.383	10.21	10.25	97.00	1707620
107-06-2	1,2-Dichloroethane	29	TRG	3.163	10.24	10.28	61.95	1452410
71-43-2	Benzene	31	TRG	3.458	10.65	10.70	78.00	3109791
56-23-5	Carbon tetrachloride	32	TRG	4.029	10.69	10.73	116.90	1389127
79-01-6	Trichloroethene	36	TRG	4.233	11.59	11.66	130.00	1570579
108-88-3	Toluene	42	TRG	3.475	13.38	13.51	91.00	4015037
106-93-4	1,2-Dibromoethane	47	TRG	1.346	14.48	14.61	107.00	955236
127-18-4	Tetrachloroethene	48	TRG	2.554	14.54	14.68	166.00	1325798
100-41-4	Ethylbenzene	51	TRG	5.097	15.76	15.89	91.00	6153479
1330-20-7	m,p-Xylenes	52	TRG	4.804	15.91	16.05	91.00	5138935
95-47-6	o-Xylene	55	TRG	4.436	16.54	16.68	91.00	4960909
108-67-8	1,3,5-Trimethylbenzene	58	TRG	4.820	18.06	18.21	105.00	7231651
95-63-6	1,2,4-Trimethylbenzene	59	TRG	3.621	18.77	18.93	105.00	6076253
363-72-4	Pentafluorobenzene	1	IS	20.000	9.80	9.84	168.00	**13043682**
108-88-3	1,4-Difluorobenzene	27	IS	20.000	10.94	11.01	114.00	**15132819**
3114-55-4	Chlorobenzene-d5	49	IS	20.000	15.41	15.56	117.00	**13341710**
2037-26-5	Toluene-d8	41	SURR	9.242	13.28	13.39	98.00	**8597861**

QC CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

	LCS	LCD	
EAS ID:	QC04035B	QC04035A	
File Name:	QC04035B.D	QC04035A.D	
Sample ID	ST63255	ST63255	Can Factor: 1.00
QC Batch:	040325-MA1		
Air Volume:	5.0 ml		
Base Volume	1000 ml		
Combined Factor:	200.00		
Gas Constant:	23.8		
Unit Factor (ppbv):	1000 PPBV	UG/M3	
Sig Figs:	2		

Compound	Raw Amount	PPBV	Fixed PPBV	(1) %	FIXED %	Flag	MDL PPBV	Spike	Spike PPBV	LCL	UCL	RPD %
Vinyl chloride	3.23	3.23	3.23	98	98		0.20	**3.28**	3.28	70	130	7
1,1-Dichloroethene	3.22	3.22	3.22	96	96		0.20	**3.37**	3.37	70	130	3
Dichloromethane	4.05	4.05	4.05	99	99		0.20	**4.10**	4.10	70	130	3
1,1-Dichloroethane	3.23	3.23	3.23	93	93		0.20	**3.47**	3.47	70	130	3
Chloroform	3.68	3.68	3.68	97	97		0.20	**3.81**	3.81	70	130	4
1,1,1-Trichloroethane	3.56	3.56	3.56	102	102		0.20	**3.50**	3.50	70	130	5
1,2-Dichloroethane	3.42	3.42	3.42	99	99		0.20	**3.46**	3.46	70	130	8
Benzene	3.52	3.52	3.52	106	106		0.20	**3.32**	3.32	70	130	2
Carbon tetrachloride	4.47	4.47	4.47	104	104		0.20	**4.31**	4.31	70	130	10
Trichloroethene	4.64	4.64	4.64	117	117		0.20	**3.98**	3.98	70	130	9
Toluene	3.73	3.73	3.73	104	104		0.20	**3.59**	3.59	70	130	7
1,2-Dibromoethane	1.31	1.31	1.31	101	101		0.20	**1.29**	1.29	70	130	3
Tetrachloroethene	2.55	2.55	2.55	121	121		0.20	**2.11**	2.11	70	130	0
Ethylbenzene	5.25	5.25	5.25	128	128		0.20	**4.10**	4.10	70	130	3
m,p-Xylenes	5.04	5.04	5.04	128	128		0.20	**3.94**	3.94	70	130	5
o-Xylene	4.59	4.59	4.59	129	129		0.20	**3.56**	3.56	70	130	3
1,3,5-Trimethylbenzene	5.02	5.02	5.02	127	127		0.20	**3.94**	3.94	70	130	4
1,2,4-Trimethylbenzene	3.61	3.61	3.61	120	120		0.20	**3.00**	3.00	70	130	0
Toluene-d8	9.78	9.78	9.78	98	98				10.00	70	130	
Vinyl chloride	3.01	3.01	3.01	92	92		0.20	**3.28**	3.28	70	130	
1,1-Dichloroethene	3.14	3.14	3.14	93	93		0.20	**3.37**	3.37	70	130	
Dichloromethane	3.95	3.95	3.95	96	96		0.20	**4.10**	4.10	70	130	
1,1-Dichloroethane	3.14	3.14	3.14	91	91		0.20	**3.47**	3.47	70	130	
Chloroform	3.52	3.52	3.52	93	93		0.20	**3.81**	3.81	70	130	
1,1,1-Trichloroethane	3.38	3.38	3.38	97	97		0.20	**3.50**	3.50	70	130	
1,2-Dichloroethane	3.16	3.16	3.16	91	91		0.20	**3.46**	3.46	70	130	
Benzene	3.46	3.46	3.46	104	104		0.20	**3.32**	3.32	70	130	
Carbon tetrachloride	4.03	4.03	4.03	93	93		0.20	**4.31**	4.31	70	130	
Trichloroethene	4.23	4.23	4.23	106	106		0.20	**3.98**	3.98	70	130	
Toluene	3.48	3.48	3.48	97	97		0.20	**3.59**	3.59	70	130	
1,2-Dibromoethane	1.35	1.35	1.35	104	104		0.20	**1.29**	1.29	70	130	
Tetrachloroethene	2.55	2.55	2.55	121	121		0.20	**2.11**	2.11	70	130	
Ethylbenzene	5.10	5.10	5.10	124	124		0.20	**4.10**	4.10	70	130	
m,p-Xylenes	4.80	4.80	4.80	122	122		0.20	**3.94**	3.94	70	130	

Compound	Raw Amount	PPBV	PPBV	%	%	Flag	MDL PPBV	Spike	Spike PPBV	LCL	UCL	RPD %
o-Xylene	4.44	4.44	4.44	125	125		0.20	**3.56**	3.56	70	130	
1,3,5-Trimethylbenzene	4.82	4.82	4.82	122	122		0.20	**3.94**	3.94	70	130	
1,2,4-Trimethylbenzene	3.62	3.62	3.62	121	121		0.20	**3.00**	3.00	70	130	
Toluene-d8	9.24	9.24	9.24	92	92				10.00	70	130	

IXED

RPD %	imi	Flag
7	25	
3	25	
3	25	
3	25	
4	25	
5	25	
8	25	
2	25	
10	25	
9	25	
7	25	
3	25	
0	25	
3	25	
5	25	
3	25	
4	25	
0	25	

RPD %	imi	Flag

Quality Control Report

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate
EPA Method TO-15 Volatile Organic Compounds by GC/MS

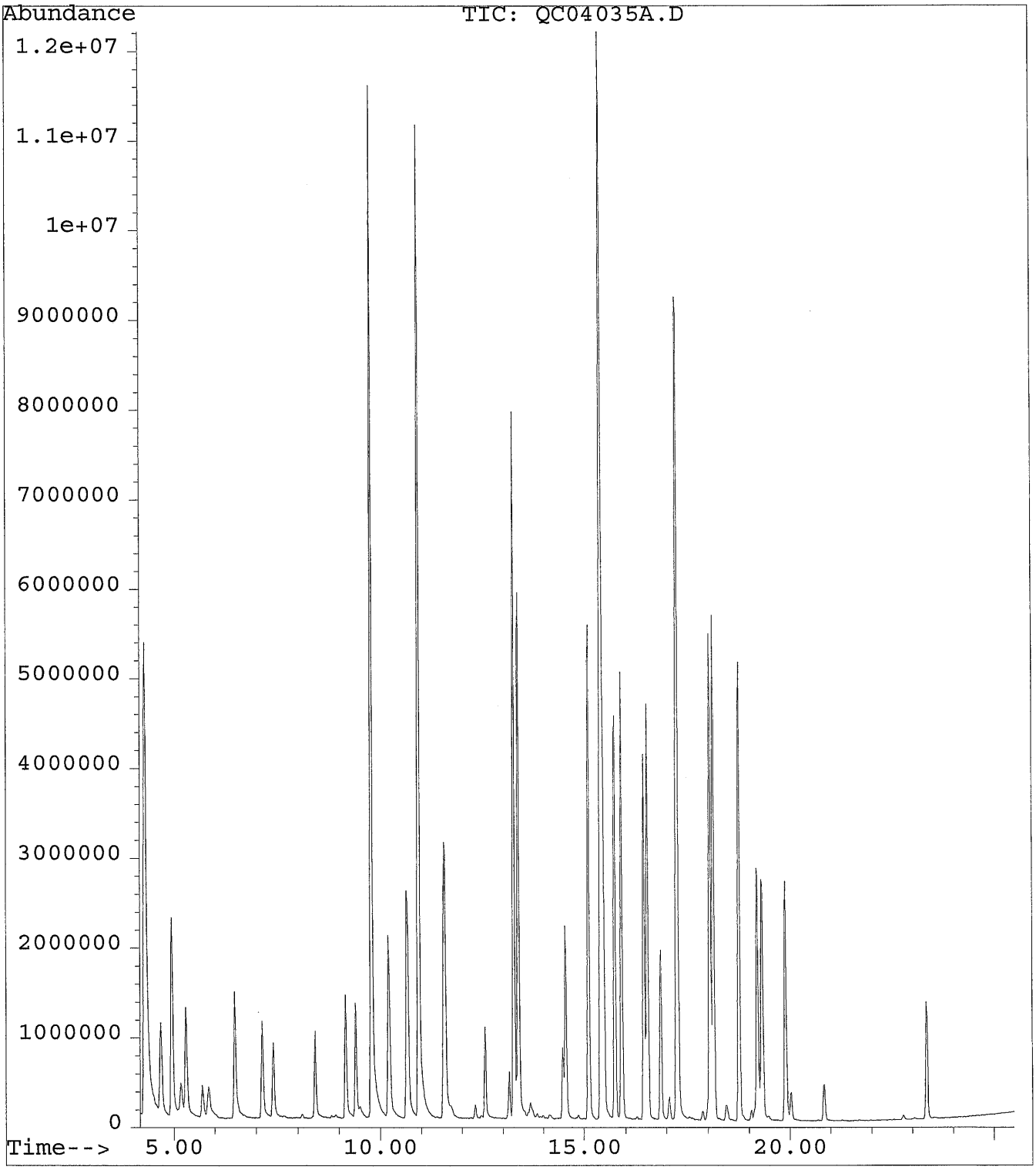
QC Batch: 040325-MA1
Analysis Date: 04/03/25

Compound	Spike PPBV	LCS PPBV	Recovery %	Flag	LCD PPBV	Recovery %	Flag	LCL	UCL	RPD %	Limit	Flag
Vinyl chloride	3.28	3.23	98		3.01	92		70	130	7	25	
1,1-Dichloroethene	3.37	3.22	96		3.14	93		70	130	3	25	
Dichloromethane	4.10	4.05	99		3.95	96		70	130	3	25	
1,1-Dichloroethane	3.47	3.23	93		3.14	91		70	130	3	25	
Chloroform	3.81	3.68	97		3.52	93		70	130	4	25	
1,1,1-Trichloroethane	3.50	3.56	102		3.38	97		70	130	5	25	
1,2-Dichloroethane	3.46	3.42	99		3.16	91		70	130	8	25	
Benzene	3.32	3.52	106		3.46	104		70	130	2	25	
Carbon tetrachloride	4.31	4.47	104		4.03	93		70	130	10	25	
Trichloroethene	3.98	4.64	117		4.23	106		70	130	9	25	
Toluene	3.59	3.73	104		3.48	97		70	130	7	25	
1,2-Dibromoethane	1.29	1.31	101		1.35	104		70	130	3	25	
Tetrachloroethene	2.11	2.55	121		2.55	121		70	130	0	25	
Ethylbenzene	4.10	5.25	128		5.10	124		70	130	3	25	
m,p-Xylenes	3.94	5.04	128		4.80	122		70	130	5	25	
o-Xylene	3.56	4.59	129		4.44	125		70	130	3	25	
1,3,5-Trimethylbenze	3.94	5.02	127		4.82	122		70	130	4	25	
1,2,4-Trimethylbenze	3.00	3.61	120		3.62	121		70	130	0	25	

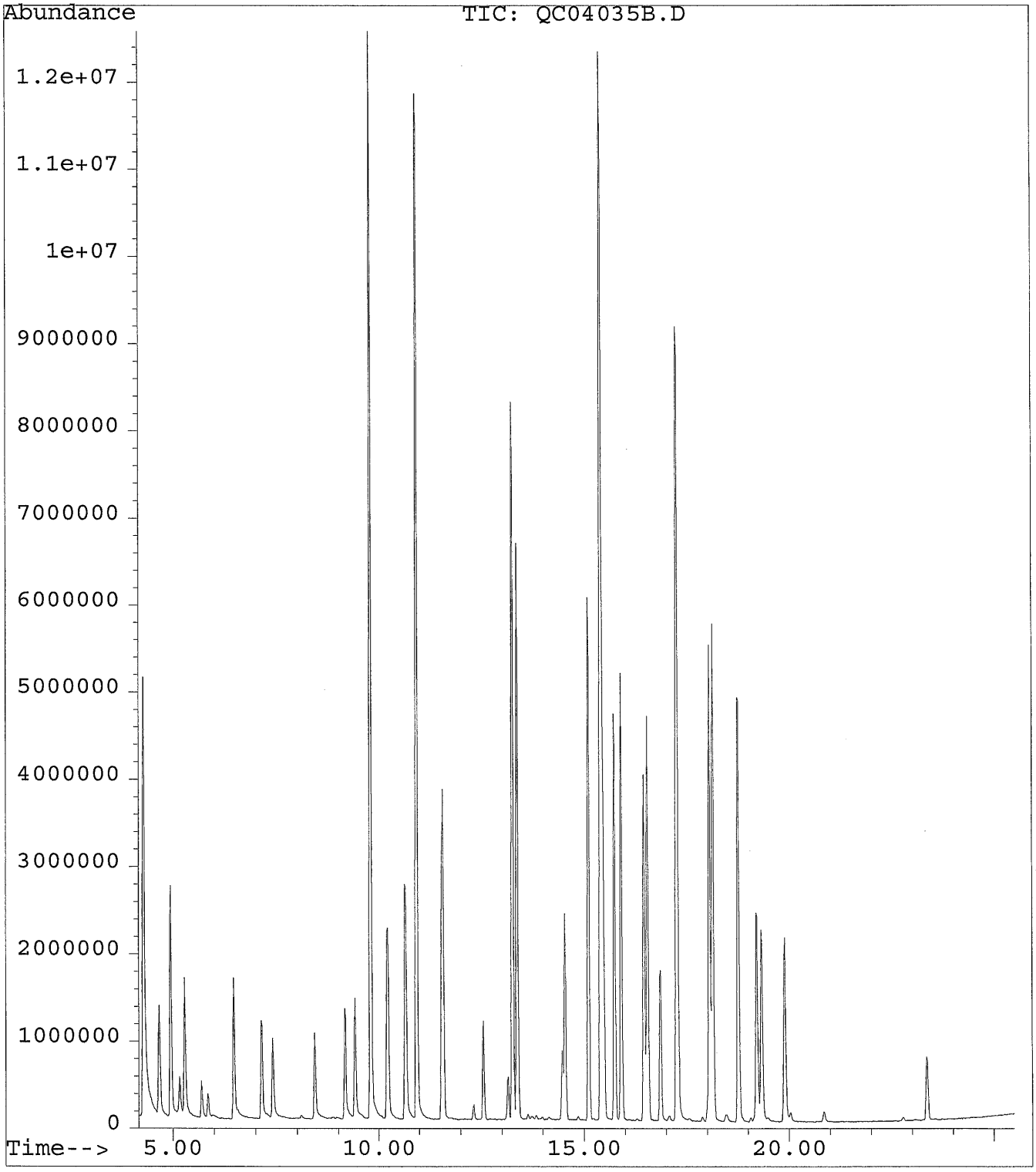
LCS - Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

File : C:\MSCHEM\1\DATA\04035A_C\QC04035A.D
Operator : MM
Acquired : 3 Apr 125 8:27 am using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: ST63255
Misc Info :
Vial Number: 1



File : C:\MSCHEM\1\DATA\04035A_C\QC04035B.D
Operator : MM
Acquired : 3 Apr 125 9:04 am using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: ST63255
Misc Info :
Vial Number: 1



Quality Control Report

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate
EPA Method TO-15 Volatile Organic Compounds by GC/MS

QC Batch: 040425-MA1
Analysis Date: 04/04/25

Compound	Spike PPBV	LCS PPBV	Recovery %	Flag	LCD PPBV	Recovery %	Flag	LCL	UCL	RPD %	Limit	Flag
Vinyl chloride	3.25	3.03	93		3.09	95		70	130	2	25	
1,1-Dichloroethene	3.35	3.17	95		3.04	91		70	130	4	25	
Dichloromethane	4.10	4.05	99		3.87	95		70	130	5	25	
1,1-Dichloroethane	3.44	3.28	95		3.12	91		70	130	5	25	
Chloroform	3.79	3.65	96		3.52	93		70	130	3	25	
1,1,1-Trichloroethane	3.51	3.59	102		3.41	97		70	130	5	25	
1,2-Dichloroethane	3.46	3.49	101		3.18	92		70	130	9	25	
Benzene	3.36	3.64	108		3.50	104		70	130	4	25	
Carbon tetrachloride	4.33	4.48	103		4.26	98		70	130	5	25	
Trichloroethene	4.04	4.45	110		4.30	106		70	130	3	25	
Toluene	3.61	3.75	104		3.63	100		70	130	3	25	
1,2-Dibromoethane	1.30	1.37	105		1.34	103		70	130	2	25	
Tetrachloroethene	2.17	2.59	119		2.46	113		70	130	5	25	
Ethylbenzene	4.23	5.16	122		4.71	111		70	130	9	25	
m,p-Xylenes	4.05	4.86	120		4.43	109		70	130	9	25	
o-Xylene	3.65	4.34	119		4.05	111		70	130	7	25	
1,3,5-Trimethylbenze	4.08	5.06	124		4.58	112		70	130	10	25	
1,2,4-Trimethylbenze	3.08	3.64	118		3.20	104		70	130	13	25	

LCS - Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QUANTITATION REPORT LCS

EPA Method TO-15 Modified Full Scan GC/MS

							SDG:	**LABQC**	
							EAS ID:	**QC04045B**	
File Name:	QC04045B.D						**Date Sampled:**	**Time:**	
Sample ID:	ST63255						**Date Received:**	**Time:**	
Method:	**TO15**						**Date Analyzed:**	**04/04/25**	**Time:** **9:00**
MiscInfo-Vol:		MDL FAC:	**1**				**Can Factor:**	**1.00**	0:00
Date:	4 Apr 125 9:00 am	SF:	**2**				**Volume:**	**5.00**	
Run Method:	A1563_P.M	SamType:	**LCS**				**Can (Vial) No:**	**NA**	
Quant Method:	A1563_P.M	UnitDil:	**1000**	PPBV	UG/M3		**QCbatch:**	**040425-MA1**	
Cal Update:	Mon Mar 31 10:13:11 2025	Temp:	**25.0**				**Matrix:**	**AA**	
Instrument:	5970 - MS	Instrument ID:	**MA1**						
Analyst:	MM	Multiplier:	1.00						
		Type:	**TRG**						

CAS#	Compound	n	Type	Raw Amount	RT	Target RT	Ion	Sample Area
75-01-4	Vinyl chloride	5	TRG	3.030	5.20	4.98	62.00	787240
75-35-4	1,1-Dichloroethene	13	TRG	3.166	7.16	7.06	61.00	1448821
75-09-2	Dichloromethane	15	TRG	4.054	7.42	7.35	84.00	635718
75-34-3	1,1-Dichloroethane	19	TRG	3.283	8.43	8.40	63.00	1704753
67-66-3	Chloroform	26	TRG	3.645	9.40	9.43	83.00	1702308
71-55-6	1,1,1-Trichloroethane	28	TRG	3.585	10.19	10.25	97.00	1833041
107-06-2	1,2-Dichloroethane	29	TRG	3.488	10.22	10.28	61.95	1622671
71-43-2	Benzene	31	TRG	3.635	10.63	10.70	78.00	3312206
56-23-5	Carbon tetrachloride	32	TRG	4.480	10.67	10.73	116.90	1564744
79-01-6	Trichloroethene	36	TRG	4.448	11.57	11.66	130.00	1672002
108-88-3	Toluene	42	TRG	3.749	13.38	13.51	91.00	4387446
106-93-4	1,2-Dibromoethane	47	TRG	1.367	14.46	14.61	107.00	983448
127-18-4	Tetrachloroethene	48	TRG	2.591	14.53	14.68	166.00	1362364
100-41-4	Ethylbenzene	51	TRG	5.160	15.74	15.89	91.00	6617137
1330-20-7	m,p-Xylenes	52	TRG	4.858	15.89	16.05	91.00	5520064
95-47-6	o-Xylene	55	TRG	4.339	16.53	16.68	91.00	5154519
108-67-8	1,3,5-Trimethylbenzene	58	TRG	5.056	18.04	18.21	105.00	8057835
95-63-6	1,2,4-Trimethylbenzene	59	TRG	3.643	18.74	18.93	105.00	6494444
363-72-4	Pentafluorobenzene	1	IS	20.000	9.80	9.84	168.00	**12972401**
108-88-3	1,4-Difluorobenzene	27	IS	20.000	10.92	11.01	114.00	**15330465**
3114-55-4	Chlorobenzene-d5	49	IS	20.000	15.42	15.56	117.00	**14172338**
2037-26-5	Toluene-d8	41	SURR	9.933	13.26	13.39	98.00	**9360501**

QUANTITATION REPORT LCD

EPA Method TO-15 Modified Full Scan GC/MS

							SDG:	**LABQC**	
							EAS ID:	**QC04045A**	
File Name:	QC04045A.D						**Date Sampled:**	**Time:**	
Sample ID:	ST63255						**Date Received:**	**Time:**	
Method:	**TO15**						**Date Analyzed:**	**04/04/25**	**Time:** **8:12**
MiscInfo-Vol:		MDL FAC:	**1**				**Can Factor:**	**1.00**	0:00
Date:	4 Apr 125 8:12 am	SF:	**2**				**Volume:**	**5.00**	
Run Method:	A1563_P.M	SamType:	**LCD**				**Can (Vial) No:**	**NA**	
Quant Method:	A1563_P.M	UnitDil:	**1000**	PPBV	UG/M3		**QCbatch:**	**040425-MA1**	
Cal Update:	Mon Mar 31 10:13:11 2025	Temp:	**25.0**				**Matrix:**	**AA**	
Instrument:	5970 - MS	Instrument ID:	**MA1**						
Analyst:	MM	Multiplier:	1.00						
		Type:	**TRG**						

CAS#	Compound	n	Type	Raw Amount	RT	Target RT	Ion	Sample Area
75-01-4	Vinyl chloride	5	TRG	3.091	5.18	4.98	62.00	826392
75-35-4	1,1-Dichloroethene	13	TRG	3.039	7.15	7.06	61.00	1431164
75-09-2	Dichloromethane	15	TRG	3.874	7.42	7.35	84.00	625019
75-34-3	1,1-Dichloroethane	19	TRG	3.124	8.43	8.40	63.00	1669211
67-66-3	Chloroform	26	TRG	3.523	9.40	9.43	83.00	1693311
71-55-6	1,1,1-Trichloroethane	28	TRG	3.412	10.19	10.25	97.00	1679112
107-06-2	1,2-Dichloroethane	29	TRG	3.179	10.22	10.28	61.95	1423504
71-43-2	Benzene	31	TRG	3.497	10.65	10.70	78.00	3067068
56-23-5	Carbon tetrachloride	32	TRG	4.262	10.67	10.73	116.90	1432862
79-01-6	Trichloroethene	36	TRG	4.298	11.57	11.66	130.00	1555268
108-88-3	Toluene	42	TRG	3.627	13.38	13.51	91.00	4086241
106-93-4	1,2-Dibromoethane	47	TRG	1.342	14.46	14.61	107.00	929021
127-18-4	Tetrachloroethene	48	TRG	2.457	14.54	14.68	166.00	1243869
100-41-4	Ethylbenzene	51	TRG	4.715	15.74	15.89	91.00	6085634
1330-20-7	m,p-Xylenes	52	TRG	4.430	15.89	16.05	91.00	5067547
95-47-6	o-Xylene	55	TRG	4.051	16.53	16.68	91.00	4844099
108-67-8	1,3,5-Trimethylbenzene	58	TRG	4.577	18.04	18.21	105.00	7342782
95-63-6	1,2,4-Trimethylbenzene	59	TRG	3.201	18.74	18.93	105.00	5743604
363-72-4	Pentafluorobenzene	1	IS	20.000	9.80	9.84	168.00	**13349382**
108-88-3	1,4-Difluorobenzene	27	IS	20.000	10.94	11.01	114.00	**14756895**
3114-55-4	Chlorobenzene-d5	49	IS	20.000	15.40	15.56	117.00	**14264956**
2037-26-5	Toluene-d8	41	SURR	9.568	13.26	13.39	98.00	**8679500**

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 **Volatile Organic Compounds by GC/MS**

QC_Batch: 040425-MA1
Date: 04/04/25

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
75-01-4	Vinyl chloride	93		95		70	130	2	25	
75-35-4	1,1-Dichloroethene	95		91		70	130	4	25	
75-09-2	Dichloromethane	99		95		70	130	5	25	
75-34-3	1,1-Dichloroethane	95		91		70	130	5	25	
67-66-3	Chloroform	96		93		70	130	3	25	
71-55-6	1,1,1-Trichloroethane	102		97		70	130	5	25	
107-06-2	1,2-Dichloroethane	101		92		70	130	9	25	
71-43-2	Benzene	108		104		70	130	4	25	
56-23-5	Carbon tetrachloride	103		98		70	130	5	25	
79-01-6	Trichloroethene	110		106		70	130	3	25	
108-88-3	Toluene	104		100		70	130	3	25	
106-93-4	1,2-Dibromoethane	105		103		70	130	2	25	
127-18-4	Tetrachloroethene	119		113		70	130	5	25	
100-41-4	Ethylbenzene	122		111		70	130	9	25	
1330-20-7	m,p-Xylenes	120		109		70	130	9	25	
95-47-6	o-Xylene	119		111		70	130	7	25	
108-67-8	1,3,5-Trimethylbenzene	124		112		70	130	10	25	
95-63-6	1,2,4-Trimethylbenzene	118		104		70	130	13	25	

LCS - Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QC CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

	LCS	LCD	
EAS ID:	QC04045B	QC04045A	
File Name:	QC04045B.D	QC04045A.D	
Sample ID	ST63255	ST63255	Can Factor: 1.00
QC Batch:	040425-MA1		
Air Volume:	5.0 ml		
Base Volume	1000 ml		
Combined Factor:	200.00		
Gas Constant:	23.8		
Unit Factor (ppbv):	1000 PPBV	UG/M3	
Sig Figs:	2		

			Fixed	(1)	FIXED		Fixed					
Compound	**Raw Amount**	**PPBV**	**PPBV**	**%**	**%**	**Flag**	**MDL PPBV**	**Spike**	**Spike PPBV**	**LCL**	**UCL**	**RPD %**
Vinyl chloride	3.03	3.03	3.03	93	93		0.20	**3.25**	3.25	70	130	2
1,1-Dichloroethene	3.17	3.17	3.17	95	95		0.20	**3.35**	3.35	70	130	4
Dichloromethane	4.05	4.05	4.05	99	99		0.20	**4.10**	4.10	70	130	5
1,1-Dichloroethane	3.28	3.28	3.28	95	95		0.20	**3.44**	3.44	70	130	5
Chloroform	3.65	3.65	3.65	96	96		0.20	**3.79**	3.79	70	130	3
1,1,1-Trichloroethane	3.59	3.59	3.59	102	102		0.20	**3.51**	3.51	70	130	5
1,2-Dichloroethane	3.49	3.49	3.49	101	101		0.20	**3.46**	3.46	70	130	9
Benzene	3.64	3.64	3.64	108	108		0.20	**3.36**	3.36	70	130	4
Carbon tetrachloride	4.48	4.48	4.48	103	103		0.20	**4.33**	4.33	70	130	5
Trichloroethene	4.45	4.45	4.45	110	110		0.20	**4.04**	4.04	70	130	3
Toluene	3.75	3.75	3.75	104	104		0.20	**3.61**	3.61	70	130	3
1,2-Dibromoethane	1.37	1.37	1.37	105	105		0.20	**1.30**	1.30	70	130	2
Tetrachloroethene	2.59	2.59	2.59	119	119		0.20	**2.17**	2.17	70	130	5
Ethylbenzene	5.16	5.16	5.16	122	122		0.20	**4.23**	4.23	70	130	9
m,p-Xylenes	4.86	4.86	4.86	120	120		0.20	**4.05**	4.05	70	130	9
o-Xylene	4.34	4.34	4.34	119	119		0.20	**3.65**	3.65	70	130	7
1,3,5-Trimethylbenzene	5.06	5.06	5.06	124	124		0.20	**4.08**	4.08	70	130	10
1,2,4-Trimethylbenzene	3.64	3.64	3.64	118	118		0.20	**3.08**	3.08	70	130	13
Toluene-d8	9.93	9.93	9.93	99	99				10.00	70	130	
Vinyl chloride	3.09	3.09	3.09	95	95		0.20	**3.25**	3.25	70	130	
1,1-Dichloroethene	3.04	3.04	3.04	91	91		0.20	**3.35**	3.35	70	130	
Dichloromethane	3.87	3.87	3.87	95	95		0.20	**4.10**	4.10	70	130	
1,1-Dichloroethane	3.12	3.12	3.12	91	91		0.20	**3.44**	3.44	70	130	
Chloroform	3.52	3.52	3.52	93	93		0.20	**3.79**	3.79	70	130	
1,1,1-Trichloroethane	3.41	3.41	3.41	97	97		0.20	**3.51**	3.51	70	130	
1,2-Dichloroethane	3.18	3.18	3.18	92	92		0.20	**3.46**	3.46	70	130	
Benzene	3.50	3.50	3.50	104	104		0.20	**3.36**	3.36	70	130	
Carbon tetrachloride	4.26	4.26	4.26	98	98		0.20	**4.33**	4.33	70	130	
Trichloroethene	4.30	4.30	4.30	106	106		0.20	**4.04**	4.04	70	130	
Toluene	3.63	3.63	3.63	100	100		0.20	**3.61**	3.61	70	130	
1,2-Dibromoethane	1.34	1.34	1.34	103	103		0.20	**1.30**	1.30	70	130	
Tetrachloroethene	2.46	2.46	2.46	113	113		0.20	**2.17**	2.17	70	130	
Ethylbenzene	4.71	4.71	4.71	111	111		0.20	**4.23**	4.23	70	130	
m,p-Xylenes	4.43	4.43	4.43	109	109		0.20	**4.05**	4.05	70	130	

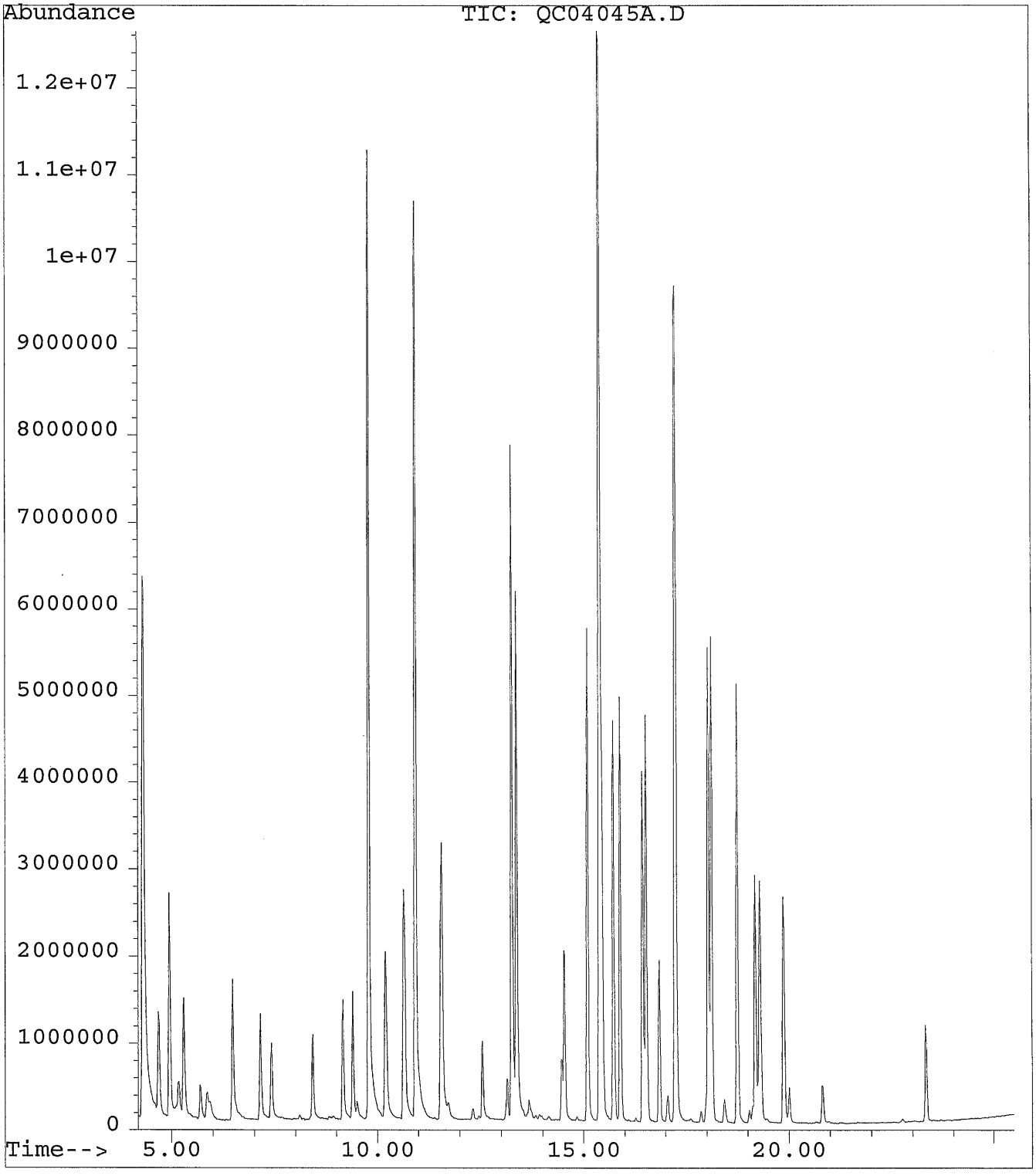
Compound	Raw Amount	PPBV	PPBV	%	%	Flag	MDL PPBV	Spike	Spike PPBV	LCL	UCL	RPD %
o-Xylene	4.05	4.05	4.05	111	111		0.20	**3.65**	3.65	70	130	
1,3,5-Trimethylbenzene	4.58	4.58	4.58	112	112		0.20	**4.08**	4.08	70	130	
1,2,4-Trimethylbenzene	3.20	3.20	3.20	104	104		0.20	**3.08**	3.08	70	130	
Toluene-d8	9.57	9.57	9.57	96	96				10.00	70	130	

IXED

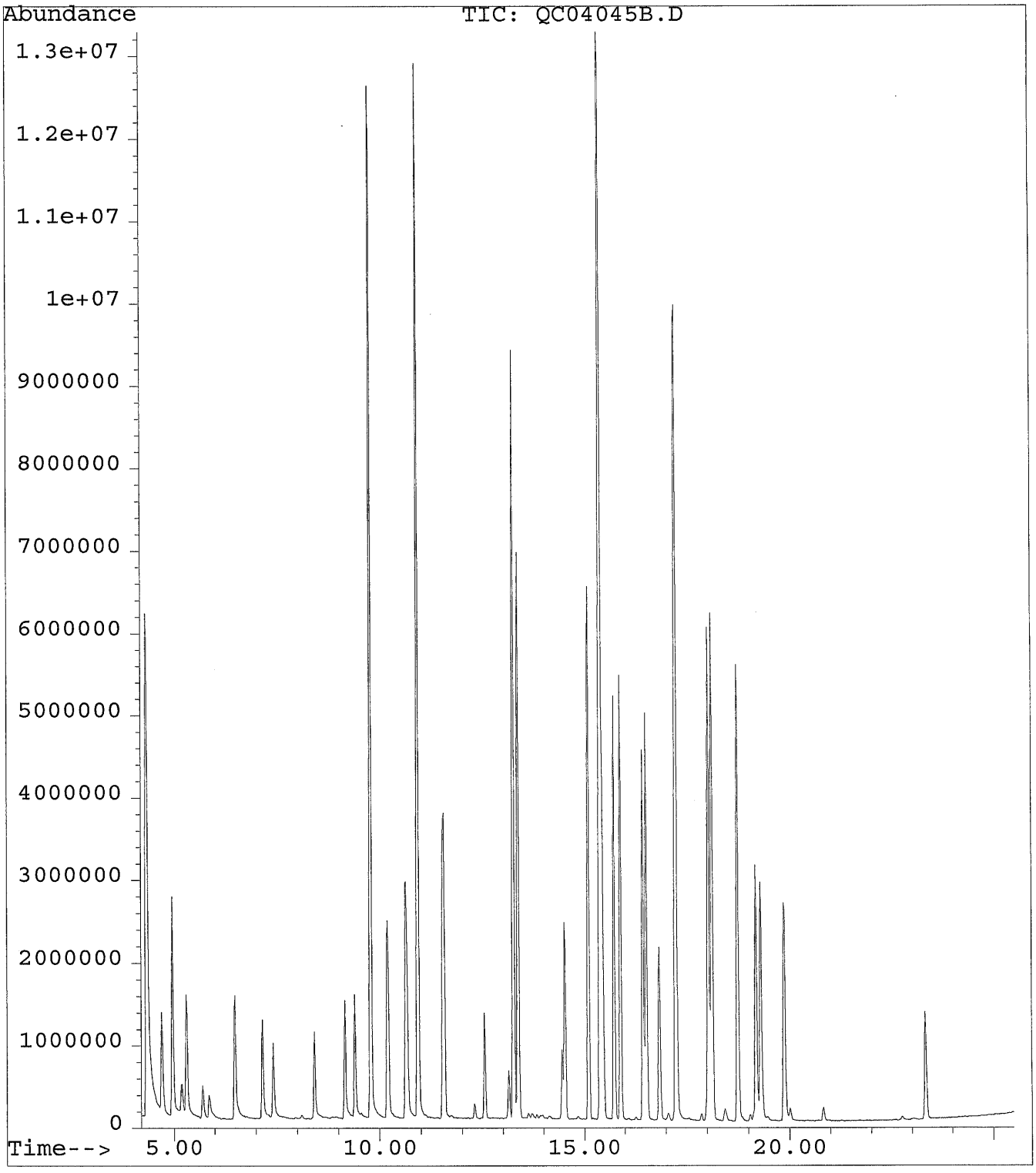
RPD %	imi	Flag
2	25	
4	25	
5	25	
5	25	
3	25	
5	25	
9	25	
4	25	
5	25	
3	25	
3	25	
2	25	
5	25	
9	25	
9	25	
7	25	
10	25	
13	25	

RPD %	imi	Flag

File : C:\MSCHEM\1\DATA\04045A_C\QC04045A.D
Operator : MM
Acquired : 4 Apr 125 8:12 am using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: ST63225
Misc Info :
Vial Number: 1



File : C:\MSCHEM\1\DATA\04045A_C\QC04045B.D
Operator : MM
Acquired : 4 Apr 125 9:00 am using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: ST63225
Misc Info :
Vial Number: 1



Continuing Calibration Data Package

Samples are analyzed in a Daily Analytical Batch (DAB) on an instrument. The DAB identifier is on each analytial report in the field called QC Batch. There will be one Continuing Calibration QC Batch report for each DAB in this SDG.

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CONTINUING CALIBRATION REPORT

SDG:	**LABQC**		**Sample Calculation:**
QC_Batch:	**033125-MA1**		1) CCRFi = $\frac{(Astdi)\ (Cistdi)}{(Cstdi)\ (Aistdi)}$ i
Sample ID:	ST62126		
Sample Analysis Date:	31 Mar 125 7:36 am		
Run Method:	A1563_P.M		CCRFi is the Continuing Calibration RF
Quant/Calibration Method:	A15CS2_P.M		
Calibration Level:	Level 4	10	PFB - Pentafluorobenzene
			14DFB - 1,4-Difluorobenzene
A passing calibration can have (10%) or 10 compounds out			d5CB - d5-Chlorobenzene

Compound	Area Astdi	Cal Level Cstdi ppbv	CCRRFi	ICALRF AvgRFn	%Dev	%Dev Limit	%Dev Flag	Quant IS
Propylene	995038	9.500	0.197	0.246	19.8	30	IN	PFB
Dichlorodifluoromethane	5311422	9.500	1.053	1.109	5.0	30	IN	PFB
Methanol	8624966	15.700	1.035	1.100	5.9	50	IN	PFB
Chloromethane	1746168	9.500	0.346	0.391	11.4	30	IN	PFB
1,2-Dichlorotetrafluoroethane	5311422	9.500	1.053	0.898	-17.3	30	IN	PFB
Vinyl chloride	1729649	9.500	0.343	0.389	11.9	30	IN	PFB
1,3-Butadiene	1427586	9.500	0.283	0.339	16.6	30	IN	PFB
Bromomethane	1515534	9.500	0.301	0.318	5.5	30	IN	PFB
Chloroethane	884632	9.500	0.175	0.192	8.8	30	IN	PFB
Ethanol	2055133	32.080	0.121	0.142	15.2	50	IN	PFB
Acrolein	746891	13.780	0.102	0.130	21.2	30	IN	PFB
Trichlorofluoromethane	3337559	9.130	0.689	0.737	6.5	30	IN	PFB
Acetone	1155428	12.750	0.171	0.238	28.4	40	IN	PFB
2-propanol (isopropylalcohol)	6167948	12.270	0.947	0.996	4.9	50	IN	PFB
t-Butyl alcohol	4309562	9.120	0.890	0.910	2.2	40	IN	PFB
Methyl iodide	1140958	2.780	0.773	0.749	-3.2	30	IN	PFB
1,1-Dichloroethene	2596219	8.690	0.563	0.673	16.3	30	IN	PFB
Acrylonitrile	1492196	10.550	0.266	0.332	19.6	40	IN	PFB
1,1,2-Trichlorotrifluoroethane	1956344	8.410	0.438	0.453	3.2	30	IN	PFB
Allyl chloride	704051	9.970	0.133	0.172	22.8	40	IN	PFB
Methylene chloride	977591	9.160	0.201	0.239	15.9	30	IN	PFB
Carbon disulfide	3958197	9.630	0.774	0.883	12.3	30	IN	PFB
trans-1,2-Dichloroethene	1131473	7.490	0.285	0.334	14.8	30	IN	PFB
Methyl tert butyl ether	4000712	7.640	0.986	1.105	10.8	40	IN	PFB
Propionitrile	1920537	13.020	0.278	0.327	15.0	40	IN	PFB
1,1-Dichloroethane	3180772	8.760	0.684	0.796	14.0	30	IN	PFB
Ethyl tert butyl ether	3721178	6.020	1.164	1.308	10.9	40	IN	PFB
Vinyl acetate	4100605	9.110	0.848	0.747	-13.5	40	IN	PFB
2-Butanone (MEK)	1097445	10.550	0.196	0.200	1.9	40	IN	PFB
Diisopropyl ether	691925	5.400	0.241	0.270	10.6	40	IN	PFB
Hexane	2527522	7.660	0.622	0.739	15.9	40	IN	PFB
Methacrylonitrile	1096442	9.950	0.208	0.219	5.3	40	IN	PFB
Ethyl acetate	3357025	9.080	0.696	0.771	9.7	40	IN	PFB
Bromochloromethane	2154972	5.520	0.735	0.803	8.4	30	IN	PFB
Methyl acrylate	1368646	4.910	0.525	0.497	-5.7	40	IN	PFB
Tetrahydrofuran	1053329	10.770	0.184	0.213	13.6	40	IN	PFB
Isobutyl alcohol	246449	7.570	0.061	0.081	23.9	40	IN	PFB

Compound	Area Astdi	Cal Level Cstdi ppbv	CCRRFi	ICALRF AvgRFn	%Dev	%Dev Limit	%Dev Flag	Quant IS
cis-1,2-Dichloroethene	1684347	9.430	0.336	0.374	10.1	30	IN	PFB
2,2-Dichloropropane	3437570	9.230	0.702	0.774	9.4	30	IN	PFB
Chloroform	3401388	9.540	0.672	0.715	6.1	30	IN	PFB
1,1,1-Trichloroethane	3644959	8.420	0.643	0.658	2.2	30	IN	14DFB
1,2-Dichloroethane	3253707	8.670	0.558	0.600	7.0	30	IN	14DFB
1,1-Dichloropropene	2220983	6.830	0.483	0.549	11.9	30	IN	14DFB
Cyclohexane	2923403	7.940	0.547	0.593	7.8	30	IN	14DFB
Benzene	5801676	8.930	0.965	1.074	10.1	30	IN	14DFB
Carbon tetrachloride	3187007	8.990	0.527	0.437	-20.6	30	IN	14DFB
t-Amyl methyl ether	3491511	4.600	1.128	1.421	20.6	40	IN	14DFB
2,2,4-Trimethylpentane	6721942	5.650	1.768	2.015	12.3	30	IN	14DFB
n-Heptane	1464213	6.280	0.346	0.395	12.2	30	IN	14DFB
1,2-Dichloropropane	2545968	9.150	0.413	0.464	10.9	30	IN	14DFB
1,4 Dioxane	3017077	17.520	0.256	0.298	14.0	40	IN	14DFB
Dibromomethane	1385532	3.900	0.528	0.467	-13.0	30	IN	14DFB
Trichloroethene (TCE)	2773627	8.860	0.465	0.487	4.4	30	IN	14DFB
Bromodichloromethane	2041338	4.170	0.727	0.683	-6.5	40	IN	14DFB
Methyl methacrylate	1836405	7.010	0.389	0.368	-5.6	40	IN	14DFB
4-Methyl-2-pentanone (MIBK)	2235336	7.840	0.424	0.510	17.0	40	IN	14DFB
cis-1,3-Dichloropropene	3738497	9.100	0.610	0.584	-4.5	30	IN	14DFB
Toluene	8362686	9.160	1.357	1.500	9.6	30	IN	14DFB
trans-1,3-Dichloropropene	3946326	9.110	0.644	0.587	-9.7	30	IN	14DFB
1,1,2-Trichloroethane	2110819	9.030	0.347	0.373	6.9	30	IN	14DFB
Ethyl methacrylate	2094801	4.790	0.650	0.700	7.1	40	IN	14DFB
2-Hexanone	3226834	7.350	0.652	0.852	23.4	40	IN	14DFB
1,3-Dichloropropane	3662856	6.810	0.799	0.878	8.9	30	IN	14DFB
Octane	2213200	5.650	0.582	0.593	1.8	30	IN	14DFB
Dibromochloromethane	2653360	4.140	0.952	0.752	-26.7	40	IN	14DFB
1,2-Dibromoethane (EDB)	2823522	4.610	0.910	0.932	2.4	30	IN	14DFB
Tetrachloroethene (PCE)	2418081	4.630	0.776	0.736	-5.4	30	IN	14DFB
Chlorobenzene	6908796	8.650	0.935	1.009	7.3	30	IN	d5CB
1,1,1,2-Tetrachloroethane	1843320	4.290	0.503	0.429	-17.3	30	IN	d5CB
Ethylbenzene	13380153	9.290	1.685	1.781	5.3	30	IN	d5CB
m,p-Xylenes	11908816	9.310	1.497	1.591	5.9	30	IN	d5CB
Nonane	5122426	4.930	1.216	1.278	4.9	30	IN	d5CB
Styrene	8403968	9.100	1.081	1.106	2.2	30	IN	d5CB
Bromoform	1954185	2.780	0.823	0.671	-22.5	40	IN	d5CB
o-Xylene	11938190	9.050	1.544	1.662	7.1	30	IN	d5CB
1,1,2,2-Tetrachloroethane	4966217	4.710	1.234	1.356	9.0	30	IN	d5CB
1,2,3-Trichloropropane	1477860	5.100	0.339	0.366	7.4	30	IN	d5CB
t-1,4-Dichloro-2-butene	848677	5.770	0.172	0.169	-1.9	40	IN	d5CB
n-Propylbenzene	15275489	6.420	2.784	3.012	7.6	30	IN	d5CB
Isopropylbenzene	13020681	6.490	2.348	3.234	27.4	30	IN	d5CB
4-Ethyltoluene	23886600	15.540	1.799	2.169	17.1	30	IN	d5CB
1,3,5-Trimethylbenzene	13656735	9.080	1.760	1.952	9.8	30	IN	d5CB
Decane	8545911	5.250	1.905	2.327	18.1	30	IN	d5CB
tert-butyl benzene	8433261	5.730	1.722	2.295	25.0	40	IN	d5CB
1,2,4-Trimethylbenzene	13066595	8.930	1.712	2.061	16.9	30	IN	d5CB
i-Butylbenzene	13070296	5.690	2.688	2.908	7.6	40	IN	d5CB
sec-butylbenzene	15960884	6.040	3.092	3.135	1.4	40	IN	d5CB
1,3-Dichlorobenzene	7117826	7.050	1.181	1.314	10.1	40	IN	d5CB
Isopropyltoluene	11306826	5.970	2.216	2.915	24.0	40	IN	d5CB
Benzyl chloride	5490357	6.280	1.023	1.033	0.9	40	IN	d5CB

Compound	Area Astdi	Cal Level Cstdi ppbv	CCRRFi	ICALRF AvgRFn	%Dev	%Dev Limit	%Dev Flag	Quant IS
1,4-Dichlorobenzene	7117826	6.580	1.266	1.196	-5.9	40	IN	d5CB
n-Butylbenzene	11964047	5.600	2.500	3.264	23.4	40	IN	d5CB
1,2-Dichlorobenzene	6729713	6.492	1.213	1.531	20.8	40	IN	d5CB
1,2-Dibromo-3-chloropropane	807109	6.280	0.150	0.307	51.1	50	OUT	d5CB
1,2,4-Trichlorobenzene	52565	3.910	0.016	0.098	83.9	50	OUT	d5CB
Naphthalene	99002	1.530	0.076	0.103	26.4	50	IN	d5CB
1,2,3-Trichlorobenzene	17868	4.910	0.004	0.015	71.5	50	OUT	d5CB
Hexachlorobutadiene	1436076	2.520	0.667	1.138	41.4	50	IN	d5CB
Pentafluorobenzene	10616685	20.000		0.000				
1,4-Difluorobenzene	13460298	20.000		0.000				
Chlorobenzene-d5	17091653	20.000		0.000				
Toluene-d8	8401734	10.000		0.000				

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

				SDG:	**LABQC**		
				EAS ID:	**C03315**		
File Name:	C03315A.D	**Method:**	**TO-15**	**Date Sampled:**	**NA**	**Time:**	**NA**
Sample ID:	ST62126	**Matrix:**	**AA**	**Date Received:**	**NA**	**Time:**	**NA**
MiscInfo-Vol:		**Detect:**	**ND**	**Date Analyzed:**	**3/31/2025**	**Time:**	**7:36**
Anal Date:	31 Mar 125 7:36 am	**SF:**	**2**	**QCbatch:**	**033125-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**200.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**NA**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.00**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	MM	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.5**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	7.618	4.41	42.00	995038
75-71-8	Dichlorodifluoromethane	3	TRG	9.020	4.48	85.00	5311422
67-56-1	Methanol	4	TRG	14.777	4.86	31.00	8624966
74-87-3	Chloromethane	5	TRG	8.416	4.77	50.00	1746168
76-14-2	1,2-Dichlorotetrafluoroethar	6	TRG	11.143	4.77	85.00	5311422
75-01-4	Vinyl chloride	7	TRG	8.374	5.02	62.00	1729649
106-99-0	1,3-Butadiene	8	TRG	7.922	5.14	54.00	1427586
74-83-9	Bromomethane	9	TRG	8.982	5.56	94.00	1515534
75-00-3	Chloroethane	10	TRG	8.659	5.72	64.00	884632
64-17-5	Ethanol	11	TRG	27.211	5.72	46.00	2055133
107-02-8	Acrolein	12	TRG	10.854	6.32	56.00	746891
75-69-4	Trichlorofluoromethane	13	TRG	8.536	6.38	101.00	3337559
67-64-1	Acetone	14	TRG	9.127	6.42	58.00	1155428
67-63-0	2-propanol (isopropylalcohc	15	TRG	11.672	6.45	45.00	6167948
75-65-0	t-Butyl alcohol	16	TRG	8.921	7.03	59.00	4309562
4227-95-6	Methyl iodide	17	TRG	2.869	7.19	142.00	1140958
75-35-4	1,1-Dichloroethene	18	TRG	7.271	7.07	61.00	2596219
107-13-1	Acrylonitrile	19	TRG	8.478	7.07	53.00	1492196
76-13-1	1,1,2-Trichlorotrifluoroethar	20	TRG	8.144	7.21	151.00	1956344
107-05-1	Allyl chloride	21	TRG	7.694	7.37	76.00	704051
75-09-2	Methylene chloride	22	TRG	7.702	7.35	84.00	977591
75-15-0	Carbon disulfide	23	TRG	8.444	7.61	76.00	3958197
156-60-5	trans-1,2-Dichloroethene	24	TRG	6.382	8.06	96.00	1131473
1634-04-4	Methyl tert butyl ether	25	TRG	6.818	8.11	73.00	4000712
107-12-0	Propionitrile	26	TRG	11.062	8.31	54.00	1920537
75-34-3	1,1-Dichloroethane	27	TRG	7.532	8.41	63.00	3180772
637-92-3	Ethyl tert butyl ether	28	TRG	5.361	9.40	59.00	3721178
108-05-4	Vinyl acetate	29	TRG	10.338	8.39	43.00	4100605
78-93-3	2-Butanone (MEK)	30	TRG	10.345	8.75	72.00	1097445
108-20-3	Diisopropyl ether	31	TRG	4.828	8.90	87.00	691925
110-54-3	Hexane	32	TRG	6.442	8.86	57.00	2527522
126-98-7	Methacrylonitrile	33	TRG	9.418	8.88	67.00	1096442
141-78-6	Ethyl acetate	34	TRG	8.199	9.17	61.00	3357025
74-97-5	Bromochloromethane	35	TRG	5.058	9.43	49.00	2154972
96-33-3	Methyl acrylate	36	TRG	5.187	9.25	55.00	1368646
109-99-9	Tetrahydrofuran	37	TRG	9.304	9.72	72.00	1053329
78-83-1	Isobutyl alcohol	38	TRG	5.758	9.51	74.00	246449

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
156-59-2	cis-1,2-Dichloroethene	39	TRG	8.473	9.16	96.00	1684347
594-20-7	2,2-Dichloropropane	40	TRG	8.365	9.37	77.00	3437570
67-66-3	Chloroform	41	TRG	8.962	9.42	83.00	**3401388**
71-55-6	1,1,1-Trichloroethane	43	TRG	8.236	10.24	97.00	3644959
107-06-2	1,2-Dichloroethane	44	TRG	8.064	10.27	61.95	3253707
563-58-6	1,1-Dichloropropene	45	TRG	6.016	10.50	75.00	2220983
110-82-7	Cyclohexane	46	TRG	7.322	10.74	56.00	2923403
71-43-2	Benzene	47	TRG	8.030	10.70	78.00	5801676
56-23-5	Carbon tetrachloride	48	TRG	10.845	10.73	116.90	3187007
994-05-8	t-Amyl methyl ether	49	TRG	3.650	10.95	73.00	3491511
540-84-1	2,2,4-Trimethylpentane	50	TRG	4.958	11.25	57.00	6721942
142-82-5	n-Heptane	51	TRG	5.514	11.48	71.00	1464213
78-87-5	1,2-Dichloropropane	52	TRG	8.155	11.64	63.00	2545968
123-91-1	1,4 Dioxane	53	TRG	15.067	11.79	88.00	3017077
74-95-3	Dibromomethane	54	TRG	4.407	11.75	174.00	1385532
79-01-6	Trichloroethene (TCE)	55	TRG	8.468	10.70	130.00	2773627
75-27-4	Bromodichloromethane	56	TRG	4.441	11.85	83.00	2041338
80-62-6	Methyl methacrylate	57	TRG	7.406	11.76	69.00	1836405
108-10-1	4-Methyl-2-pentanone (MIB	58	TRG	6.506	12.55	58.00	2235336
10061-01-5	cis-1,3-Dichloropropene	59	TRG	9.507	12.67	75.00	**3738497**
108-88-3	Toluene	61	TRG	8.282	13.50	91.00	8362686
10061-02-6	trans-1,3-Dichloropropene	62	TRG	9.993	13.28	75.00	3946326
79-00-5	1,1,2-Trichloroethane	63	TRG	8.405	13.52	61.00	2110819
97-63-2	Ethyl methacrylate	64	TRG	4.448	13.63	69.00	2094801
591-78-6	2-Hexanone	65	TRG	5.631	13.79	58.00	3226834
142-28-9	1,3-Dichloropropane	66	TRG	6.202	13.86	76.00	3662856
111-65-9	Octane	67	TRG	5.548	14.04	85.00	2213200
124-48-1	Dibromochloromethane	68	TRG	5.244	14.30	129.00	2653360
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	4.501	14.62	107.00	2823522
127-18-4	Tetrachloroethene (PCE)	70	TRG	4.881	14.69	166.00	2418081
108-90-7	Chlorobenzene	72	TRG	8.016	15.62	112.00	6908796
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	5.034	15.64	131.00	1843320
100-41-4	Ethylbenzene	74	TRG	8.793	15.90	106	13380153
1330-20-7	m,p-Xylenes	75	TRG	8.761	16.06	91.00	11908816
111-84-2	Nonane	76	TRG	4.689	16.43	57.00	5122426
100-42-5	Styrene	77	TRG	8.895	16.61	104.00	8403968
75-25-2	Bromoform	78	TRG	3.407	16.67	173.00	1954185
95-47-6	o-Xylene	79	TRG	8.406	16.56	91.00	11938190
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	4.285	17.02	83.00	4966217
96-18-4	1,2,3-Trichloropropane	81	TRG	4.720	17.22	110.00	1477860
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	5.881	17.24	53.00	848677
103-65-1	n-Propylbenzene	83	TRG	5.934	18.04	91.00	15275489
98-82-8	Isopropylbenzene	84	TRG	4.712	18.23	105.00	13020681
622-96-8	4-Ethyltoluene	85	TRG	12.890	18.23	105.00	23886600
108-67-8	1,3,5-Trimethylbenzene	86	TRG	8.188	18.31	105.00	13656735
124-18-5	Decane	87	TRG	4.298	18.60	57.00	8545911
98-06-6	tert-butyl benzene	88	TRG	4.300	18.93	119.00	8433261
95-63-6	1,2,4-Trimethylbenzene	89	TRG	7.419	18.95	105.00	13066595
538-93-2	i-Butylbenzene	90	TRG	5.260	19.24	91.00	13070296
135-98-8	sec-butylbenzene	91	TRG	5.957	19.32	105.00	15960884
541-73-1	1,3-Dichlorobenzene	92	TRG	6.340	19.39	146.00	7117826
99-87-6	Isopropyltoluene	93	TRG	4.539	19.53	119.00	11306826
100-44-7	Benzyl chloride	94	TRG	6.221	19.46	91.00	5490357

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
106-46-7	1,4-Dichlorobenzene	95	TRG	6.966	19.39	146.00	7117826
104-51-8	n-Butylbenzene	96	TRG	4.289	20.20	91.00	11964047
95-50-1	1,2-Dichlorobenzene	97	TRG	5.145	20.07	146.00	6729713
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	3.074	21.02	75.00	807109
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.628	22.95	180.00	52565
91-20-3	Naphthalene	100	TRG	1.126	23.23	128.00	99002
87-61-6	1,2,3-Trichlorobenzene	101	TRG	1.400	23.71	180.00	17868
87-68-3	Hexachlorobutadiene	102	TRG	1.477	23.36	225.00	1436076
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**10616685**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**13460298**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**17091653**
2037-26-5	Toluene-d8	103	SURR	10.153	13.40	98.00	**8401734**

CALCULATIONS

EPA Method TO-15 Modified Full Scan GC/MS

SDG:	**LABQC**
Laboratory Number:	**C03315**
File Name:	C03315A.D
Run Method:	A1563_P.M
Can Factor:	1.00
Air Volume:	200.0 ml
Can/Tube Number:	NA
Dilution Factor:	0.2000
Base Volume:	1000 ml
Unit Factor (ppbv):	1000 PPBV UG/M3

EDD SURR:	PERCENT
Sam Type:	SA
Instrument:	MA1
DETECT:	ND
Matrix:	AA
Type:	TRG
Diluton:	0.2000
Sig Figs:	2
MDLSF:	2

IS LCL	50
IS UCL	200
SUR LCL	70
SUR UCL	130
MDL Factor	1.0
E Flag	1.5

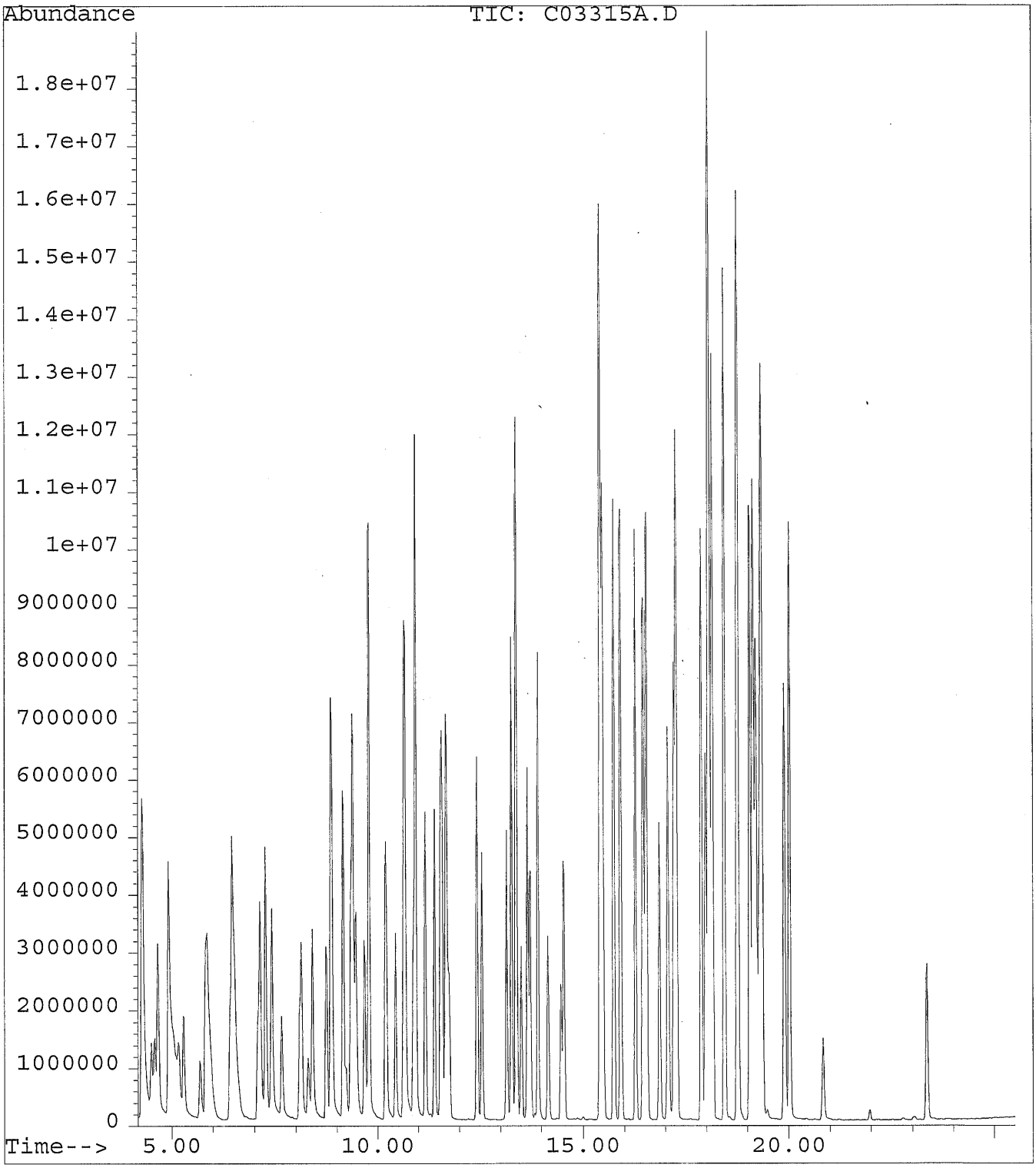
Gas Constant	
T	24.5
P	760
MV	24.417
GC	24.417

Compound	M.W.	Raw Amount	ResultV PPBV	Result UG/M3	Fixed ResultV PPBV	Fixed Result UG/M3	Fixed ResultQ UG/M3	Fixed ResultG UG/M3	(1) MDL	(2) RL PPBV	Calc MDL PPBV	Calc MDL UG/M3	Calc RL PPBV	Calc RL UG/M3	U Flag	ND Flag	EPA Flag	Detect Flag	Cal Flag	R	DETECT PPBV	DETECT UG/M3
Propylene	42.08	7.62	38.09	65.65	38.09	65.65	65.65	65.65	0.100	0.250	0.50	0.86	1.25	2.15				=		Y	38.09	65.65
Dichlorodifluoromethane	120.9	9.02	45.10	223.32	45.10	223.32	223.32	223.32	0.150	0.250	0.75	3.71	1.25	6.19				=		Y	45.10	223.32
Methanol	32.0	14.78	73.88	96.83	73.88	96.83	96.83	96.83	0.500	0.600	2.50	3.28	3.00	3.93				=		Y	73.88	96.83
Chloromethane	50.5	8.42	42.08	87.03	42.08	87.03	87.03	87.03	0.150	0.250	0.75	1.55	1.25	2.59				=		Y	42.08	87.03
1,2-Dichlorotetrafluoroethane	170.9	11.14	55.71	389.95	55.71	389.95	389.95	389.95	0.100	0.250	0.50	3.50	1.25	8.75				=		Y	55.71	389.95
Vinyl chloride	62.5	8.37	41.87	107.17	41.87	107.17	107.17	107.17	0.050	0.250	0.25	0.64	1.25	3.20				=		Y	41.87	107.17
1,3-Butadiene	54.1	7.92	39.61	87.76	39.61	87.76	87.76	87.76	0.050	0.250	0.25	0.56	1.25	2.77				=		Y	39.61	87.76
Bromomethane	94.9	8.98	44.91	174.54	44.91	174.54	174.54	174.54	0.100	0.250	0.50	1.94	1.25	4.86				=		Y	44.91	174.54
Chloroethane	64.5	8.66	43.30	114.37	43.30	114.37	114.37	114.37	0.100	0.250	0.50	1.32	1.25	3.30				=		Y	43.30	114.37
Ethanol	46.1	27.21	136.06	256.88	136.06	256.88	256.88	256.88	0.500	3.210	2.50	4.72	16.05	30.30				=		Y	136.06	256.88
Acrolein	56.1	10.85	54.27	124.69	54.27	124.69	124.69	124.69	0.100	0.300	0.50	1.15	1.50	3.45				=		Y	54.27	124.69
Trichlorofluoromethane	137.4	8.54	42.68	240.17	42.68	240.17	240.17	240.17	0.100	0.250	0.50	2.81	1.25	7.03				=		Y	42.68	240.17
Acetone	58.1	9.13	45.63	108.58	45.63	108.58	108.58	108.58	0.500	0.600	2.50	5.95	3.00	7.14				=		Y	45.63	108.58
2-propanol (isopropylalcohol)	60.1	11.67	58.36	143.64	58.36	143.64	143.64	143.64	0.200	1.250	1.00	2.46	6.25	15.38				=		Y	58.36	143.64
t-Butyl alcohol	74.1	8.92	44.61	135.37	44.61	135.37	135.37	135.37	0.100	1.000	0.50	1.52	5.00	15.17				=		Y	44.61	135.37
Methyl iodide	142.9	2.87	14.34	83.94	14.34	83.94	83.94	83.94	0.100	0.300	0.50	2.93	1.50	8.78				=		Y	14.34	83.94
1,1-Dichloroethene	96.9	7.27	36.35	144.27	36.35	144.27	144.27	144.27	0.050	0.250	0.25	0.99	1.25	4.96				=		Y	36.35	144.27
Acrylonitrile	53.1	8.48	42.39	92.19	42.39	92.19	92.19	92.19	0.200	0.300	1.00	2.17	1.50	3.26				=		Y	42.39	92.19
1,1,2-Trichlorotrifluoroethane	187.4	8.14	40.72	312.53	40.72	312.53	312.53	312.53	0.050	0.250	0.25	1.92	1.25	9.59				=		Y	40.72	312.53
Allyl chloride	76.5	7.69	38.47	120.53	38.47	120.53	120.53	120.53	0.050	1.000	0.25	0.78	5.00	15.67				=		Y	38.47	120.53
Methylene chloride	84.9	7.70	38.51	133.90	38.51	133.90	133.90	133.90	0.050	0.250	0.25	0.87	1.25	4.35				=		Y	38.51	133.90
Carbon disulfide	76.1	8.44	42.22	131.59	42.22	131.59	131.59	131.59	0.100	0.250	0.50	1.56	1.25	3.90				=		Y	42.22	131.59
trans-1,2-Dichloroethene	96.9	6.38	31.91	126.63	31.91	126.63	126.63	126.63	0.050	0.200	0.25	0.99	1.00	3.97				=		Y	31.91	126.63
Methyl tert butyl ether	88.1	6.82	34.09	123.01	34.09	123.01	123.01	123.01	0.100	0.200	0.50	1.80	1.00	3.61				=		Y	34.09	123.01
Propionitrile	55.1	11.06	55.31	124.82	55.31	124.82	124.82	124.82	0.250	0.400	1.25	2.82	2.00	4.51				=		Y	55.31	124.82
1,1-Dichloroethane	99.0	7.53	37.66	152.70	37.66	152.70	152.70	152.70	0.050	0.250	0.25	1.01	1.25	5.07				=		Y	37.66	152.70
Ethyl tert butyl ether	102.2	5.36	26.81	112.20	26.81	112.20	112.20	112.20	0.100	0.250	0.50	2.09	1.25	5.23				=		Y	26.81	112.20
Vinyl acetate	86.1	10.34	51.69	182.28	51.69	182.28	182.28	182.28	0.050	1.000	0.25	0.88	5.00	17.63				=		Y	51.69	182.28
2-Butanone (MEK)	72.1	10.35	51.73	152.74	51.73	152.74	152.74	152.74	0.100	0.300	0.50	1.48	1.50	4.43				=		Y	51.73	152.74
Diisopropyl ether	102.2	4.83	24.14	101.04	24.14	101.04	101.04	101.04	0.100	0.600	0.50	2.09	3.00	12.56				=		Y	24.14	101.04
Hexane	86.2	6.44	32.21	113.71	32.21	113.71	113.71	113.71	0.100	0.250	0.50	1.77	1.25	4.41				=		Y	32.21	113.71
Methacrylonitrile	67.1	9.42	47.09	129.41	47.09	129.41	129.41	129.41	0.100	0.250	0.50	1.37	1.25	3.44				=		Y	47.09	129.41
Ethyl acetate	88.1	8.20	41.00	147.92	41.00	147.92	147.92	147.92	0.100	0.250	0.50	1.80	1.25	4.51				=		Y	41.00	147.92
Bromochloromethane	129.4	5.06	25.29	134.03	25.29	134.03	134.03	134.03	0.050	0.250	0.25	1.32	1.25	6.62				=		Y	25.29	134.03

Methyl acrylate	86.1	5.19	25.94	91.46	25.94	91.46	91.46	91.46	0.100	0.500	0.50	1.76	2.50	8.82	=	Y	25.94	91.46
Tetrahydrofuran	72.1	9.30	46.52	137.36	46.52	137.36	137.36	137.36	0.050	0.300	0.25	0.74	1.50	4.43	=	Y	46.52	137.36
Isobutyl alcohol	74.1	5.76	28.79	87.37	28.79	87.37	87.37	87.37	0.200	0.800	1.00	3.03	4.00	12.14	=	Y	28.79	87.37
cis-1,2-Dichloroethene	96.9	8.47	42.37	168.13	42.37	168.13	168.13	168.13	0.050	0.250	0.25	0.99	1.25	4.96	=	Y	42.37	168.13
2,2-Dichloropropane	113.0	8.36	41.82	193.56	41.82	193.56	193.56	193.56	0.050	0.250	0.25	1.16	1.25	5.78	=	Y	41.82	193.56
Chloroform	119.4	8.96	44.81	219.13	44.81	219.13	219.13	219.13	0.050	0.250	0.25	1.23	1.25	6.11	=	Y	44.81	219.13
1,1,1-Trichloroethane	133.4	8.24	41.18	224.99	41.18	224.99	224.99	224.99	0.050	0.250	0.25	1.37	1.25	6.83	=	Y	41.18	224.99
1,2-Dichloroethane	99.0	8.06	40.32	163.48	40.32	163.48	163.48	163.48	0.050	0.250	0.25	1.01	1.25	5.07	=	Y	40.32	163.48
1,1-Dichloropropene	111.0	6.02	30.08	136.74	30.08	136.74	136.74	136.74	0.050	0.250	0.25	1.14	1.25	5.68	=	Y	30.08	136.74
Cyclohexane	84.2	7.32	36.61	126.25	36.61	126.25	126.25	126.25	0.050	0.250	0.25	0.86	1.25	4.31	=	Y	36.61	126.25
Benzene	78.1	8.03	40.15	128.42	40.15	128.42	128.42	128.42	0.350	0.500	1.75	5.60	2.50	8.00	=	Y	40.15	128.42
Carbon tetrachloride	153.8	10.84	54.22	341.55	54.22	341.55	341.55	341.55	0.050	0.250	0.25	1.57	1.25	7.87	=	Y	54.22	341.55
t-Amyl methyl ether	102.2	3.65	18.25	76.40	18.25	76.40	76.40	76.40	0.100	0.500	0.50	2.09	2.50	10.46	=	Y	18.25	76.40
2,2,4-Trimethylpentane	114.2	4.96	24.79	115.94	24.79	115.94	115.94	115.94	0.050	0.250	0.25	1.17	1.25	5.85	=	Y	24.79	115.94
n-Heptane	100.2	5.51	27.57	113.14	27.57	113.14	113.14	113.14	0.100	0.250	0.50	2.05	1.25	5.13	=	Y	27.57	113.14
1,2-Dichloropropane	113.0	8.16	40.78	188.71	40.78	188.71	188.71	188.71	0.050	0.250	0.25	1.16	1.25	5.78	=	Y	40.78	188.71
1,4 Dioxane	88.1	15.07	75.34	271.82	75.34	271.82	271.82	271.82	0.100	0.500	0.50	1.80	2.50	9.02	=	Y	75.34	271.82
Dibromomethane	173.8	4.41	22.04	156.88	22.04	156.88	156.88	156.88	0.050	0.250	0.25	1.78	1.25	8.90	=	Y	22.04	156.88
Trichloroethene (TCE)	131.4	8.47	42.34	227.86	42.34	227.86	227.86	227.86	0.025	0.250	0.13	0.67	1.25	6.73	=	Y	42.34	227.86
Bromodichloromethane	163.8	4.44	22.21	148.97	22.21	148.97	148.97	148.97	0.050	0.250	0.25	1.68	1.25	8.39	=	Y	22.21	148.97
Methyl methacrylate	100.1	7.41	37.03	151.81	37.03	151.81	151.81	151.81	0.100	0.250	0.50	2.05	1.25	5.12	=	Y	37.03	151.81
4-Methyl-2-pentanone (MIBK)	100.2	6.51	32.53	133.50	32.53	133.50	133.50	133.50	0.100	0.800	0.50	2.05	4.00	16.41	=	Y	32.53	133.50
cis-1,3-Dichloropropene	111.0	9.51	47.53	216.08	47.53	216.08	216.08	216.08	0.050	0.250	0.25	1.14	1.25	5.68	=	Y	47.53	216.08
Toluene	92.1	8.28	41.41	156.19	41.41	156.19	156.19	156.19	0.200	0.250	1.00	3.77	1.25	4.71	=	Y	41.41	156.19
trans-1,3-Dichloropropene	111.0	9.99	49.97	227.15	49.97	227.15	227.15	227.15	0.050	0.250	0.25	1.14	1.25	5.68	=	Y	49.97	227.15
1,1,2-Trichloroethane	133.4	8.40	42.02	229.60	42.02	229.60	229.60	229.60	0.050	0.250	0.25	1.37	1.25	6.83	=	Y	42.02	229.60
Ethyl methacrylate	114.2	4.45	22.24	104.02	22.24	104.02	104.02	104.02	0.100	0.250	0.50	2.34	1.25	5.85	=	Y	22.24	104.02
2-Hexanone	100.2	5.63	28.15	115.53	28.15	115.53	115.53	115.53	0.100	0.800	0.50	2.05	4.00	16.41	=	Y	28.15	115.53
1,3-Dichloropropane	113.0	6.20	31.01	143.50	31.01	143.50	143.50	143.50	0.050	0.700	0.25	1.16	3.50	16.20	=	Y	31.01	143.50
Octane	114.2	5.55	27.74	129.73	27.74	129.73	129.73	129.73	0.100	0.250	0.50	2.34	1.25	5.85	=	Y	27.74	129.73
Dibromochloromethane	208.3	5.24	26.22	223.67	26.22	223.67	223.67	223.67	0.100	0.250	0.50	4.27	1.25	10.66	=	Y	26.22	223.67
1,2-Dibromoethane (EDB)	187.9	4.50	22.51	173.20	22.51	173.20	173.20	173.20	0.100	0.250	0.50	3.85	1.25	9.62	=	Y	22.51	173.20
Tetrachloroethene (PCE)	165.8	4.88	24.41	165.72	24.41	165.72	165.72	165.72	0.025	0.250	0.13	0.85	1.25	8.49	=	Y	24.41	165.72
Chlorobenzene	112.6	8.02	40.08	184.82	40.08	184.82	184.82	184.82	0.100	0.250	0.50	2.31	1.25	5.76	=	Y	40.08	184.82
1,1,1,2-Tetrachloroethane	167.8	5.03	25.17	172.96	25.17	172.96	172.96	172.96	0.100	0.250	0.50	3.44	1.25	8.59	=	Y	25.17	172.96
Ethylbenzene	106.2	8.79	43.97	191.23	43.97	191.23	191.23	191.23	0.100	0.250	0.50	2.17	1.25	5.44	=	Y	43.97	191.23
m,p-Xylenes	106.2	8.76	43.80	190.53	43.80	190.53	190.53	190.53	0.100	0.250	0.50	2.17	1.25	5.44	=	Y	43.80	190.53
Nonane	128.3	4.69	23.45	123.20	23.45	123.20	123.20	123.20	0.100	0.250	0.50	2.63	1.25	6.57	=	Y	23.45	123.20
Styrene	104.2	8.90	44.48	189.81	44.48	189.81	189.81	189.81	0.150	0.250	0.75	3.20	1.25	5.33	=	Y	44.48	189.81
Bromoform	252.7	3.41	17.03	176.29	17.03	176.29	176.29	176.29	0.100	0.250	0.50	5.17	1.25	12.94	=	Y	17.03	176.29
o-Xylene	106.2	8.41	42.03	182.80	42.03	182.80	182.80	182.80	0.100	0.250	0.50	2.17	1.25	5.44	=	Y	42.03	182.80
1,1,2,2-Tetrachloroethane	167.8	4.28	21.42	147.23	21.42	147.23	147.23	147.23	0.200	0.500	1.00	6.87	2.50	17.18	=	Y	21.42	147.23
1,2,3-Trichloropropane	147.4	4.72	23.60	142.48	23.60	142.48	142.48	142.48	0.200	0.600	1.00	6.04	3.00	18.11	=	Y	23.60	142.48
t-1,4-Dichloro-2-butene	125.0	5.88	29.41	150.54	29.41	150.54	150.54	150.54	0.200	0.600	1.00	5.12	3.00	15.36	=	Y	29.41	150.54
n-Propylbenzene	120.2	5.93	29.67	146.05	29.67	146.05	146.05	146.05	0.200	0.700	1.00	4.92	3.50	17.23	=	Y	29.67	146.05
Isopropylbenzene	120.2	4.71	23.56	115.98	23.56	115.98	115.98	115.98	0.200	0.700	1.00	4.92	3.50	17.23	=	Y	23.56	115.98
4-Ethyltoluene	120.2	12.89	64.45	317.26	64.45	317.26	317.26	317.26	0.200	1.600	1.00	4.92	8.00	39.38	=	Y	64.45	317.26
1,3,5-Trimethylbenzene	120.2	8.19	40.94	201.55	40.94	201.55	201.55	201.55	0.200	0.900	1.00	4.92	4.50	22.15	=	Y	40.94	201.55
Decane	142.3	4.30	21.49	125.23	21.49	125.23	125.23	125.23	0.200	0.600	1.00	5.83	3.00	17.48	=	Y	21.49	125.23
tert-butyl benzene	134.2	4.30	21.50	118.16	21.50	118.16	118.16	118.16	0.200	0.600	1.00	5.50	3.00	16.49	=	Y	21.50	118.16
1,2,4-Trimethylbenzene	120.2	7.42	37.09	182.61	37.09	182.61	182.61	182.61	0.200	0.900	1.00	4.92	4.50	22.15	=	Y	37.09	182.61
i-Butylbenzene	134.2	5.26	26.30	144.54	26.30	144.54	144.54	144.54	0.200	0.600	1.00	5.50	3.00	16.49	=	Y	26.30	144.54

sec-butylbenzene	134.2	5.96	29.79	163.71	29.79	163.71	163.71	163.71	0.200	0.700	1.00	5.50	3.50	19.24		=	Y	29.79	163.71
1,3-Dichlorobenzene	147.0	6.34	31.70	190.83	31.70	190.83	190.83	190.83	0.200	0.800	1.00	6.02	4.00	24.08		=	Y	31.70	190.83
Isopropyltoluene	134.2	4.54	22.70	124.75	22.70	124.75	124.75	124.75	0.200	0.600	1.00	5.50	3.00	16.49		=	Y	22.70	124.75
Benzyl chloride	126.6	6.22	31.10	161.27	31.10	161.27	161.27	161.27	0.200	0.500	1.00	5.18	2.50	12.96		=	Y	31.10	161.27
1,4-Dichlorobenzene	147.0	6.97	34.83	209.69	34.83	209.69	209.69	209.69	0.200	0.500	1.00	6.02	2.50	15.05		=	Y	34.83	209.69
n-Butylbenzene	134.2	4.29	21.45	117.87	21.45	117.87	117.87	117.87	0.200	0.600	1.00	5.50	3.00	16.49		=	Y	21.45	117.87
1,2-Dichlorobenzene	147.0	5.14	25.72	154.87	25.72	154.87	154.87	154.87	0.200	0.700	1.00	6.02	3.50	21.07		=	Y	25.72	154.87
1,2-Dibromo-3-chloropropane	236.3	3.07	15.37	148.74	15.37	148.74	148.74	148.74	0.300	0.700	1.50	14.52	3.50	33.87		=	Y	15.37	148.74
1,2,4-Trichlorobenzene	181.4	0.63	3.14	23.34	3.14	23.34	23.34	23.34	0.300	0.500	1.50	11.14	2.50	18.57		=	Y	3.14	23.34
Naphthalene	128.2	1.13	5.63	29.57	5.63	29.57	29.57	29.57	0.500	0.100	2.50	13.13	0.50	2.63		=	Y	5.63	29.57
1,2,3-Trichlorobenzene	181.4	1.40	7.00	52.00	7.00	52.00	52.00	52.00	0.300	0.500	1.50	11.14	2.50	18.57		=	Y	7.00	52.00
Hexachlorobutadiene	260.8	1.48	7.38	78.86	7.38	78.86	78.86	78.86	0.250	0.300	1.25	13.35	1.50	16.02		=	Y	7.38	78.86
Pentafluorobenzene		20.00							20.0	20.0						=	Y		
1,4-Difluorobenzene		20.00							20.0	20.0						=	Y		
Chlorobenzene-d5		20.00							20.0	20.0						=	Y		
Toluene-d8		10.15	102	102	102	102	102	102	10.0	10.0						=	Y		
0																			
0																			
0																			

File : C:\MSCHEM\1\DATA\03315A\C03315A.D
Operator : MM
Acquired : 31 Mar 125 7:36 am using AcqMethod A1563_O.M
Instrument : 5970 - MS
Sample Name: ST62126
Misc Info :
Vial Number: 1



CONTINUING CALIBRATION REPORT

SDG:	**LABQC**		**Sample Calculation:**
QC_Batch:	**040225-MA1**		1) $CCRFi = \frac{(Astdi)\ (Cistdi)}{(Cstdi)\ (Aistdi)}$ i
Sample ID:	ST62126		
Sample Analysis Date:	1 Apr 125 8:05 am		
Run Method:	A1563_P.M		CCRFi is the Continuing Calibration RF
Quant/Calibration Method:	A15CS2_P.M		
Calibration Level:	**Level 4**	**10**	PFB - Pentafluorobenzene
			14DFB - 1,4-Difluorobenzene
A passing calibration can have (10%) or 10 compounds out			d5CB - d5-Chlorobenzene

Compound	Area Astdi	Cal Level Cstdi ppbv	CCRRFi	ICALRF AvgRFn	%Dev	%Dev Limit	%Dev Flag	Quant IS
Propylene	998884	**9.500**	0.174	0.246	29.3	**30**	IN	**PFB**
Dichlorodifluoromethane	4854886	**9.500**	0.845	1.109	23.8	**30**	IN	**PFB**
Methanol	6779259	**15.700**	0.714	1.100	35.1	**50**	IN	**PFB**
Chloromethane	1706112	**9.500**	0.297	0.391	24.0	**30**	IN	**PFB**
1,2-Dichlorotetrafluoroethane	4104435	**9.500**	0.715	0.898	20.4	**30**	IN	**PFB**
Vinyl chloride	1573685	**9.500**	0.274	0.389	29.6	**30**	IN	**PFB**
1,3-Butadiene	1513408	**9.500**	0.263	0.339	22.4	**30**	IN	**PFB**
Bromomethane	1522314	**9.500**	0.265	0.318	16.6	**30**	IN	**PFB**
Chloroethane	889401	**9.500**	0.155	0.192	19.5	**30**	IN	**PFB**
Ethanol	1693154	**32.080**	0.087	0.142	38.6	**50**	IN	**PFB**
Acrolein	829639	**13.780**	0.100	0.130	23.2	**30**	IN	**PFB**
Trichlorofluoromethane	3473579	**9.130**	0.629	0.737	14.6	**30**	IN	**PFB**
Acetone	1179330	**12.750**	0.153	0.238	35.9	**40**	IN	**PFB**
2-propanol (isopropylalcohol)	5891710	**12.270**	0.794	0.996	20.2	**50**	IN	**PFB**
t-Butyl alcohol	4317002	**9.120**	0.783	0.910	14.0	**40**	IN	**PFB**
Methyl iodide	1252759	**2.780**	0.745	0.749	0.5	**30**	IN	**PFB**
1,1-Dichloroethene	2622666	**8.690**	0.499	0.673	25.8	**30**	IN	**PFB**
Acrylonitrile	1530072	**10.550**	0.240	0.332	27.7	**40**	IN	**PFB**
1,1,2-Trichlorotrifluoroethane	2212435	**8.410**	0.435	0.453	3.9	**30**	IN	**PFB**
Allyl chloride	790603	**9.970**	0.131	0.172	23.9	**40**	IN	**PFB**
Methylene chloride	1097153	**9.160**	0.198	0.239	17.2	**30**	IN	**PFB**
Carbon disulfide	4018467	**9.630**	0.690	0.883	21.8	**30**	IN	**PFB**
trans-1,2-Dichloroethene	1311006	**7.490**	0.289	0.334	13.3	**30**	IN	**PFB**
Methyl tert butyl ether	4266001	**7.640**	0.923	1.105	16.5	**40**	IN	**PFB**
Propionitrile	1828962	**13.020**	0.232	0.327	29.0	**40**	IN	**PFB**
1,1-Dichloroethane	3419172	**8.760**	0.646	0.796	18.9	**30**	IN	**PFB**
Ethyl tert butyl ether	4020004	**6.020**	1.104	1.308	15.5	**40**	IN	**PFB**
Vinyl acetate	3733079	**9.110**	0.678	0.747	9.3	**40**	IN	**PFB**
2-Butanone (MEK)	1130987	**10.550**	0.177	0.200	11.3	**40**	IN	**PFB**
Diisopropyl ether	779321	**5.400**	0.239	0.270	11.6	**40**	IN	**PFB**
Hexane	2814668	**7.660**	0.608	0.739	17.8	**40**	IN	**PFB**
Methacrylonitrile	1183978	**9.950**	0.197	0.219	10.3	**40**	IN	**PFB**
Ethyl acetate	3690018	**9.080**	0.672	0.771	12.9	**40**	IN	**PFB**
Bromochloromethane	2374632	**5.520**	0.711	0.803	11.4	**30**	IN	**PFB**

Compound	Area Astdi	Cal Level Cstdi ppbv	CCRRFi	ICALRF AvgRFn	%Dev	%Dev Limit	%Dev Flag	Quant IS
Methyl acrylate	1336483	**4.910**	0.450	0.497	9.4	**40**	IN	**PFB**
Tetrahydrofuran	1104385	**10.770**	0.170	0.213	20.5	**40**	IN	**PFB**
Isobutyl alcohol	199225	**7.570**	0.044	0.081	46.0	**40**	OUT	**PFB**
cis-1,2-Dichloroethene	2004267	**9.430**	0.352	0.374	6.1	**30**	IN	**PFB**
2,2-Dichloropropane	3755578	**9.230**	0.673	0.774	13.1	**30**	IN	**PFB**
Chloroform	3844722	**9.540**	0.667	0.715	6.8	**30**	IN	**PFB**
1,1,1-Trichloroethane	4072003	**8.420**	0.655	0.658	0.3	**30**	IN	**14DFB**
1,2-Dichloroethane	3482206	**8.670**	0.544	0.600	9.2	**30**	IN	**14DFB**
1,1-Dichloropropene	2514517	**6.830**	0.499	0.549	9.0	**30**	IN	**14DFB**
Cyclohexane	3265300	**7.940**	0.557	0.593	6.0	**30**	IN	**14DFB**
Benzene	6429646	**8.930**	0.976	1.074	9.1	**30**	IN	**14DFB**
Carbon tetrachloride	3626267	**8.990**	0.547	0.437	-25.2	**30**	IN	**14DFB**
t-Amyl methyl ether	3914455	**4.600**	1.153	1.421	18.8	**40**	IN	**14DFB**
2,2,4-Trimethylpentane	7675059	**5.650**	1.841	2.015	8.6	**30**	IN	**14DFB**
n-Heptane	1679814	**6.280**	0.363	0.395	8.1	**30**	IN	**14DFB**
1,2-Dichloropropane	2873582	**9.150**	0.426	0.464	8.2	**30**	IN	**14DFB**
1,4 Dioxane	3276873	**17.520**	0.254	0.298	14.8	**40**	IN	**14DFB**
Dibromomethane	1595767	**3.900**	0.555	0.467	-18.7	**30**	IN	**14DFB**
Trichloroethene (TCE)	3185654	**8.860**	0.487	0.487	-0.1	**30**	IN	**14DFB**
Bromodichloromethane	2162063	**4.170**	0.703	0.683	-2.9	**40**	IN	**14DFB**
Methyl methacrylate	1902559	**7.010**	0.368	0.368	0.2	**40**	IN	**14DFB**
4-Methyl-2-pentanone (MIBK)	2485349	**7.840**	0.430	0.510	15.8	**40**	IN	**14DFB**
cis-1,3-Dichloropropene	3994759	**9.100**	0.595	0.584	-1.8	**30**	IN	**14DFB**
Toluene	9051530	**9.160**	1.339	1.500	10.7	**30**	IN	**14DFB**
trans-1,3-Dichloropropene	4102782	**9.110**	0.610	0.587	-4.0	**30**	IN	**14DFB**
1,1,2-Trichloroethane	2220933	**9.030**	0.333	0.373	10.7	**30**	IN	**14DFB**
Ethyl methacrylate	2197307	**4.790**	0.622	0.700	11.1	**40**	IN	**14DFB**
2-Hexanone	3570908	**7.350**	0.659	0.852	22.7	**40**	IN	**14DFB**
1,3-Dichloropropane	4136377	**6.810**	0.823	0.878	6.2	**30**	IN	**14DFB**
Octane	2482695	**5.650**	0.596	0.593	-0.5	**30**	IN	**14DFB**
Dibromochloromethane	2879818	**4.140**	0.943	0.752	-25.4	**40**	IN	**14DFB**
1,2-Dibromoethane (EDB)	3189862	**4.610**	0.938	0.932	-0.6	**30**	IN	**14DFB**
Tetrachloroethene (PCE)	2857704	**4.630**	0.837	0.736	-13.7	**30**	IN	**14DFB**
Chlorobenzene	7479363	**8.650**	1.052	1.009	-4.3	**30**	IN	**d5CB**
1,1,1,2-Tetrachloroethane	1925775	**4.290**	0.546	0.429	-27.4	**30**	IN	**d5CB**
Ethylbenzene	14990253	**9.290**	1.963	1.781	-10.2	**30**	IN	**d5CB**
m,p-Xylenes	12706956	**9.310**	1.660	1.591	-4.4	**30**	IN	**d5CB**
Nonane	5541657	**4.930**	1.367	1.278	-7.0	**30**	IN	**d5CB**
Styrene	9210728	**9.100**	1.231	1.106	-11.4	**30**	IN	**d5CB**
Bromoform	1958620	**2.780**	0.857	0.671	-27.7	**40**	IN	**d5CB**
o-Xylene	12807912	**9.050**	1.721	1.662	-3.6	**30**	IN	**d5CB**
1,1,2,2-Tetrachloroethane	5424082	**4.710**	1.401	1.356	-3.3	**30**	IN	**d5CB**
1,2,3-Trichloropropane	1593696	**5.100**	0.380	0.366	-3.7	**30**	IN	**d5CB**
t-1,4-Dichloro-2-butene	729023	**5.770**	0.154	0.169	9.0	**40**	IN	**d5CB**
n-Propylbenzene	15745930	**6.420**	2.983	3.012	1.0	**30**	IN	**d5CB**
Isopropylbenzene	12579963	**6.490**	2.358	3.234	27.1	**30**	IN	**d5CB**
4-Ethyltoluene	22822103	**15.540**	1.786	2.169	17.6	**30**	IN	**d5CB**
1,3,5-Trimethylbenzene	14352633	**9.080**	1.923	1.952	1.5	**30**	IN	**d5CB**
Decane	8479586	**5.250**	1.965	2.327	15.6	**30**	IN	**d5CB**
tert-butyl benzene	8284507	**5.730**	1.759	2.295	23.4	**40**	IN	**d5CB**

Compound	Area Astdi	Cal Level Cstdi ppbv	CCRRFi	ICALRF AvgRFn	%Dev	%Dev Limit	%Dev Flag	Quant IS
1,2,4-Trimethylbenzene	12628505	**8.930**	1.720	2.061	16.5	**30**	IN	**d5CB**
i-Butylbenzene	12909800	**5.690**	2.760	2.908	5.1	**40**	IN	**d5CB**
sec-butylbenzene	15744642	**6.040**	3.171	3.135	-1.1	**40**	IN	**d5CB**
1,3-Dichlorobenzene	6985428	**7.050**	1.205	1.314	8.3	**40**	IN	**d5CB**
Isopropyltoluene	11014585	**5.970**	2.244	2.915	23.0	**40**	IN	**d5CB**
Benzyl chloride	4393790	**6.280**	0.851	1.033	17.6	**40**	IN	**d5CB**
1,4-Dichlorobenzene	6985428	**6.580**	1.291	1.196	-8.0	**40**	IN	**d5CB**
n-Butylbenzene	11661449	**5.600**	2.533	3.264	22.4	**40**	IN	**d5CB**
1,2-Dichlorobenzene	6665119	**6.492**	1.249	1.531	18.4	**40**	IN	**d5CB**
1,2-Dibromo-3-chloropropane	667218	**6.280**	0.129	0.307	57.9	**50**	OUT	**d5CB**
1,2,4-Trichlorobenzene	42564	**3.910**	0.013	0.098	86.5	**50**	OUT	**d5CB**
Naphthalene	41025	**1.530**	0.033	0.103	68.3	**50**	OUT	**d5CB**
1,2,3-Trichlorobenzene	33419	**4.910**	0.008	0.015	44.6	**50**	IN	**d5CB**
Hexachlorobutadiene	1328772	**2.520**	0.641	1.138	43.6	**50**	IN	**d5CB**
Pentafluorobenzene	12092858	**20.000**		0.000				
1,4-Difluorobenzene	14755659	**20.000**		0.000				
Chlorobenzene-d5	16443150	**20.000**		0.000				
Toluene-d8	8828930	**10.000**		0.000				

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

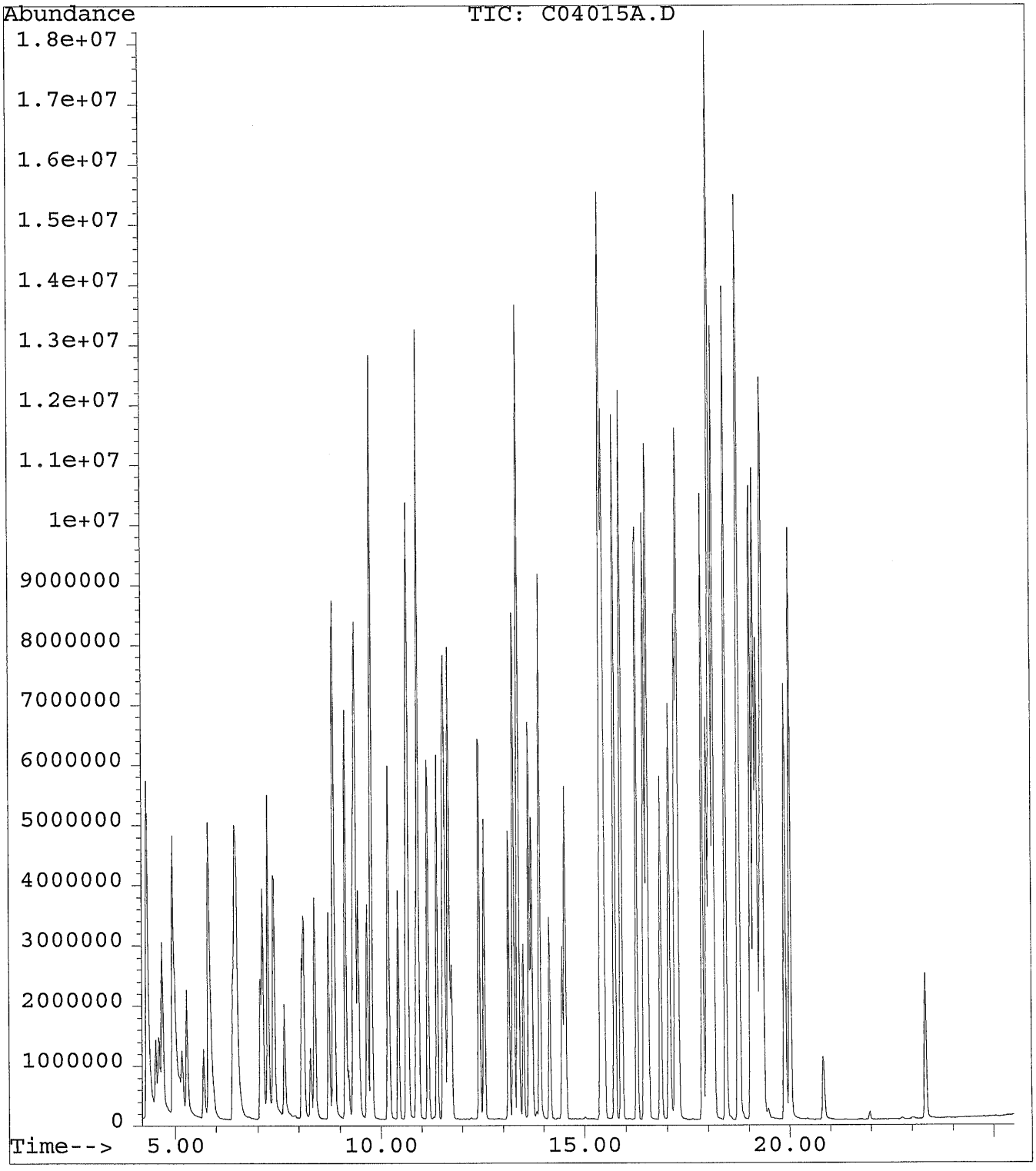
				SDG:	**LABQC**		
				EAS ID:	**C04025**		
File Name:	C04015A.D	**Method:**	**TO-15**	**Date Sampled:**	**NA**	**Time:**	**NA**
Sample ID:	ST62126	**Matrix:**	**AA**	**Date Received:**	**NA**	**Time:**	**NA**
MiscInfo-Vol:		**Detect:**	**ND**	**Date Analyzed:**	**04/02/25**	**Time:**	**6:58**
Anal Date:	1 Apr 125 8:05 am	**SF:**	**2**	**QCbatch:**	**040225-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**200.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**NA**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.00**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	MM	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.5**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	6.714	4.41	42.00	998884
75-71-8	Dichlorodifluoromethane	3	TRG	7.239	4.48	85.00	4854886
67-56-1	Methanol	4	TRG	10.197	4.86	31.00	6779259
74-87-3	Chloromethane	5	TRG	7.219	4.77	50.00	1706112
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	7.559	4.77	85.00	4104435
75-01-4	Vinyl chloride	7	TRG	6.689	5.02	62.00	1573685
106-99-0	1,3-Butadiene	8	TRG	7.373	5.14	54.00	1513408
74-83-9	Bromomethane	9	TRG	7.920	5.56	94.00	1522314
75-00-3	Chloroethane	10	TRG	7.643	5.72	64.00	889401
64-17-5	Ethanol	11	TRG	19.682	5.72	46.00	1693154
107-02-8	Acrolein	12	TRG	10.585	6.32	56.00	829639
75-69-4	Trichlorofluoromethane	13	TRG	7.800	6.38	101.00	3473579
67-64-1	Acetone	14	TRG	8.178	6.42	58.00	1179330
67-63-0	2-propanol (isopropylalcoh	15	TRG	9.788	6.45	45.00	5891710
75-65-0	t-Butyl alcohol	16	TRG	7.846	7.03	59.00	4317002
4227-95-6	Methyl iodide	17	TRG	2.765	7.19	142.00	1252759
75-35-4	1,1-Dichloroethene	18	TRG	6.448	7.07	61.00	2622666
107-13-1	Acrylonitrile	19	TRG	7.632	7.07	53.00	1530072
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	8.086	7.21	151.00	2212435
107-05-1	Allyl chloride	21	TRG	7.585	7.37	76.00	790603
75-09-2	Methylene chloride	22	TRG	7.589	7.35	84.00	1097153
75-15-0	Carbon disulfide	23	TRG	7.526	7.61	76.00	4018467
156-60-5	trans-1,2-Dichloroethene	24	TRG	6.492	8.06	96.00	1311006
1634-04-4	Methyl tert butyl ether	25	TRG	6.383	8.11	73.00	4266001
107-12-0	Propionitrile	26	TRG	9.249	8.31	54.00	1828962
75-34-3	1,1-Dichloroethane	27	TRG	7.108	8.41	63.00	3419172
637-92-3	Ethyl tert butyl ether	28	TRG	5.085	9.40	59.00	4020004
108-05-4	Vinyl acetate	29	TRG	8.263	8.39	43.00	3733079
78-93-3	2-Butanone (MEK)	30	TRG	9.360	8.75	72.00	1130987
108-20-3	Diisopropyl ether	31	TRG	4.774	8.90	87.00	779321
110-54-3	Hexane	32	TRG	6.298	8.86	57.00	2814668
126-98-7	Methacrylonitrile	33	TRG	8.928	8.88	67.00	1183978
141-78-6	Ethyl acetate	34	TRG	7.912	9.17	61.00	3690018
74-97-5	Bromochloromethane	35	TRG	4.893	9.43	49.00	2374632

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	4.447	9.25	55.00	1336483
109-99-9	Tetrahydrofuran	37	TRG	8.564	9.72	72.00	1104385
78-83-1	Isobutyl alcohol	38	TRG	4.087	9.51	74.00	199225
156-59-2	cis-1,2-Dichloroethene	39	TRG	8.852	9.16	96.00	2004267
594-20-7	2,2-Dichloropropane	40	TRG	8.023	9.37	77.00	3755578
67-66-3	Chloroform	41	TRG	8.894	9.42	83.00	**3844722**
71-55-6	1,1,1-Trichloroethane	43	TRG	8.393	10.24	97.00	4072003
107-06-2	1,2-Dichloroethane	44	TRG	7.873	10.27	61.95	3482206
563-58-6	1,1-Dichloropropene	45	TRG	6.213	10.50	75.00	2514517
110-82-7	Cyclohexane	46	TRG	7.461	10.74	56.00	3265300
71-43-2	Benzene	47	TRG	8.118	10.70	78.00	6429646
56-23-5	Carbon tetrachloride	48	TRG	11.256	10.73	116.90	3626267
994-05-8	t-Amyl methyl ether	49	TRG	3.733	10.95	73.00	3914455
540-84-1	2,2,4-Trimethylpentane	50	TRG	5.164	11.25	57.00	7675059
142-82-5	n-Heptane	51	TRG	5.771	11.48	71.00	1679814
78-87-5	1,2-Dichloropropane	52	TRG	8.397	11.64	63.00	2873582
123-91-1	1,4 Dioxane	53	TRG	14.928	11.79	88.00	3276873
74-95-3	Dibromomethane	54	TRG	4.630	11.75	174.00	1595767
79-01-6	Trichloroethene (TCE)	55	TRG	8.872	10.70	130.00	3185654
75-27-4	Bromodichloromethane	56	TRG	4.291	11.85	83.00	2162063
80-62-6	Methyl methacrylate	57	TRG	6.999	11.76	69.00	1902559
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	6.599	12.55	58.00	2485349
10061-01-5	cis-1,3-Dichloropropene	59	TRG	9.266	12.67	75.00	**3994759**
108-88-3	Toluene	61	TRG	8.177	13.50	91.00	9051530
10061-02-6	trans-1,3-Dichloropropene	62	TRG	9.477	13.28	75.00	4102782
79-00-5	1,1,2-Trichloroethane	63	TRG	8.067	13.52	61.00	2220933
97-63-2	Ethyl methacrylate	64	TRG	4.256	13.63	69.00	2197307
591-78-6	2-Hexanone	65	TRG	5.684	13.79	58.00	3570908
142-28-9	1,3-Dichloropropane	66	TRG	6.389	13.86	76.00	4136377
111-65-9	Octane	67	TRG	5.677	14.04	85.00	2482695
124-48-1	Dibromochloromethane	68	TRG	5.192	14.30	129.00	2879818
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	4.639	14.62	107.00	3189862
127-18-4	Tetrachloroethene (PCE)	70	TRG	5.262	14.69	166.00	2857704
108-90-7	Chlorobenzene	72	TRG	9.020	15.62	112.00	7479363
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	5.466	15.64	131.00	1925775
100-41-4	Ethylbenzene	74	TRG	10.240	15.90	106	14990253
1330-20-7	m,p-Xylenes	75	TRG	9.717	16.06	91.00	12706956
111-84-2	Nonane	76	TRG	5.273	16.43	57.00	5541657
100-42-5	Styrene	77	TRG	10.134	16.61	104.00	9210728
75-25-2	Bromoform	78	TRG	3.549	16.67	173.00	1958620
95-47-6	o-Xylene	79	TRG	9.374	16.55	91.00	12807912
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	4.864	17.02	83.00	5424082
96-18-4	1,2,3-Trichloropropane	81	TRG	5.291	17.22	110.00	1593696
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	5.251	17.24	53.00	729023
103-65-1	n-Propylbenzene	83	TRG	6.358	18.04	91.00	15745930
98-82-8	Isopropylbenzene	84	TRG	4.732	18.23	105.00	12579963
622-96-8	4-Ethyltoluene	85	TRG	12.801	18.23	105.00	22822103
108-67-8	1,3,5-Trimethylbenzene	86	TRG	8.945	18.31	105.00	14352633
124-18-5	Decane	87	TRG	4.433	18.60	57.00	8479586
98-06-6	tert-butyl benzene	88	TRG	4.390	18.93	119.00	8284507

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	7.453	18.95	105.00	12628505
538-93-2	i-Butylbenzene	90	TRG	5.400	19.24	91.00	12909800
135-98-8	sec-butylbenzene	91	TRG	6.108	19.32	105.00	15744642
541-73-1	1,3-Dichlorobenzene	92	TRG	6.467	19.39	146.00	6985428
99-87-6	Isopropyltoluene	93	TRG	4.597	19.53	119.00	11014585
100-44-7	Benzyl chloride	94	TRG	5.175	19.46	91.00	4393790
106-46-7	1,4-Dichlorobenzene	95	TRG	7.106	19.39	146.00	6985428
104-51-8	n-Butylbenzene	96	TRG	4.346	20.20	91.00	11661449
95-50-1	1,2-Dichlorobenzene	97	TRG	5.296	20.07	146.00	6665119
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	2.641	21.02	75.00	667218
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.529	22.95	180.00	42564
91-20-3	Naphthalene	100	TRG	0.485	23.23	128.00	41025
87-61-6	1,2,3-Trichlorobenzene	101	TRG	2.721	23.71	180.00	33419
87-68-3	Hexachlorobutadiene	102	TRG	1.420	23.35	225.00	1328772
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**12092858**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**14755659**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**16443150**
2037-26-5	Toluene-d8	103	SURR	9.733	13.40	98.00	**8828930**

File : C:\MSCHEM\1\DATA\04015A_C\C04015A.D
Operator : MM
Acquired : 1 Apr 125 8:05 am using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: ST62126
Misc Info :
Vial Number: 1



CONTINUING CALIBRATION REPORT

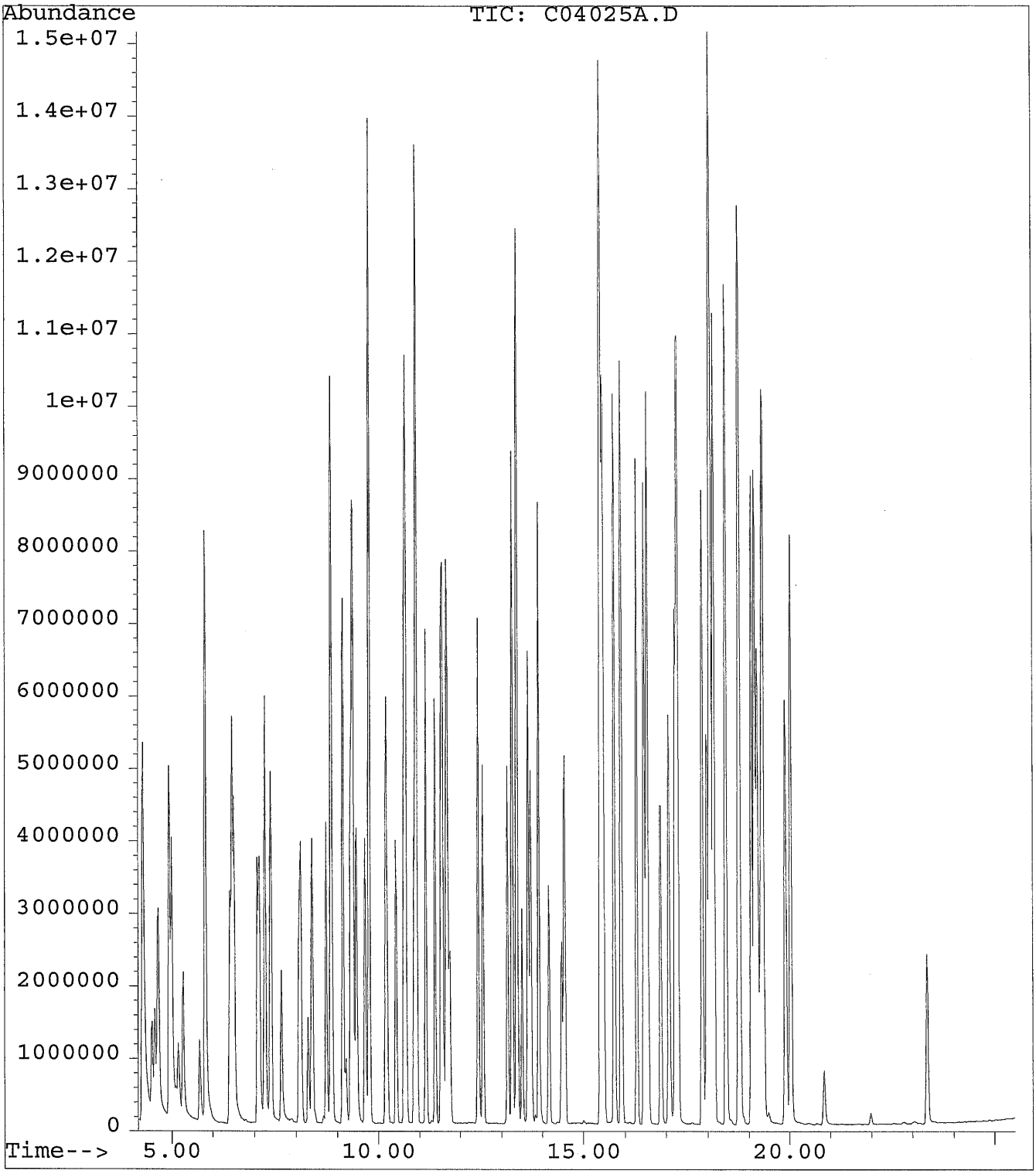
SDG:	**LABQC**		**Sample Calculation:**
QC_Batch:	**040225-MA1**		1) $CCRFi = \frac{(Astdi)\ (Cistdi)}{(Cstdi)\ (Aistdi)}$ i
Sample ID:	ST62126		
Sample Analysis Date:	2 Apr 125 6:58 am		
Run Method:	A1563_P.M		CCRFi is the Continuing Calibration RF
Quant/Calibration Method:	A15CS2_P.M		
Calibration Level:	**Level 4**	**10**	PFB - Pentafluorobenzene
			14DFB - 1,4-Difluorobenzene
A passing calibration can have (10%) or 10 compounds out			d5CB - d5-Chlorobenzene

Compound	Area Astdi	**Cal Level Cstdi ppbv**	CCRRFi	ICALRF AvgRFn	%Dev	%Dev Limit	%Dev Flag	**Quant IS**
Propylene	1068376	**9.500**	0.176	0.246	28.6	**30**	IN	**PFB**
Dichlorodifluoromethane	5268423	**9.500**	0.866	1.109	21.9	**30**	IN	**PFB**
Methanol	7846702	**15.700**	0.781	1.100	29.0	**50**	IN	**PFB**
Chloromethane	1739384	**9.500**	0.286	0.391	26.8	**30**	IN	**PFB**
1,2-Dichlorotetrafluoroethane	5268423	**9.500**	0.866	0.898	3.5	**30**	IN	**PFB**
Vinyl chloride	1845753	**9.500**	0.303	0.389	22.0	**30**	IN	**PFB**
1,3-Butadiene	1509843	**9.500**	0.248	0.339	26.9	**30**	IN	**PFB**
Bromomethane	1593810	**9.500**	0.262	0.318	17.6	**30**	IN	**PFB**
Chloroethane	953833	**9.500**	0.157	0.192	18.5	**30**	IN	**PFB**
Ethanol	2096675	**32.080**	0.102	0.142	28.3	**50**	IN	**PFB**
Acrolein	854670	**13.780**	0.097	0.130	25.3	**30**	IN	**PFB**
Trichlorofluoromethane	3579084	**9.130**	0.612	0.737	16.9	**30**	IN	**PFB**
Acetone	1322646	**12.750**	0.162	0.238	32.1	**40**	IN	**PFB**
2-propanol (isopropylalcohol)	6393654	**12.270**	0.814	0.996	18.3	**50**	IN	**PFB**
t-Butyl alcohol	4584994	**9.120**	0.785	0.910	13.7	**40**	IN	**PFB**
Methyl iodide	1406253	**2.780**	0.790	0.749	-5.4	**30**	IN	**PFB**
1,1-Dichloroethene	2792009	**8.690**	0.502	0.673	25.4	**30**	IN	**PFB**
Acrylonitrile	1682948	**10.550**	0.249	0.332	24.9	**40**	IN	**PFB**
1,1,2-Trichlorotrifluoroethane	2484232	**8.410**	0.461	0.453	-1.9	**30**	IN	**PFB**
Allyl chloride	900673	**9.970**	0.141	0.172	18.2	**40**	IN	**PFB**
Methylene chloride	1324094	**9.160**	0.226	0.239	5.6	**30**	IN	**PFB**
Carbon disulfide	4505560	**9.630**	0.731	0.883	17.3	**30**	IN	**PFB**
trans-1,2-Dichloroethene	1475123	**7.490**	0.308	0.334	7.9	**30**	IN	**PFB**
Methyl tert butyl ether	4718857	**7.640**	0.965	1.105	12.7	**40**	IN	**PFB**
Propionitrile	1993830	**13.020**	0.239	0.327	26.9	**40**	IN	**PFB**
1,1-Dichloroethane	3613517	**8.760**	0.644	0.796	19.0	**30**	IN	**PFB**
Ethyl tert butyl ether	4189550	**6.020**	1.087	1.308	16.9	**40**	IN	**PFB**
Vinyl acetate	4110151	**9.110**	0.705	0.747	5.7	**40**	IN	**PFB**
2-Butanone (MEK)	1233074	**10.550**	0.183	0.200	8.7	**40**	IN	**PFB**
Diisopropyl ether	846962	**5.400**	0.245	0.270	9.3	**40**	IN	**PFB**
Hexane	3041809	**7.660**	0.620	0.739	16.1	**40**	IN	**PFB**
Methacrylonitrile	1260301	**9.950**	0.198	0.219	9.8	**40**	IN	**PFB**
Ethyl acetate	3986185	**9.080**	0.686	0.771	11.1	**40**	IN	**PFB**
Bromochloromethane	2466336	**5.520**	0.698	0.803	13.1	**30**	IN	**PFB**

Compound	Area Astdi	Cal Level Cstdi ppbv	CCRRFi	ICALRF AvgRFn	%Dev	%Dev Limit	%Dev Flag	Quant IS
Methyl acrylate	1417747	**4.910**	0.451	0.497	9.3	**40**	IN	**PFB**
Tetrahydrofuran	1163226	**10.770**	0.169	0.213	20.9	**40**	IN	**PFB**
Isobutyl alcohol	285853	**7.570**	0.059	0.081	26.9	**40**	IN	**PFB**
cis-1,2-Dichloroethene	2135064	**9.430**	0.354	0.374	5.6	**30**	IN	**PFB**
2,2-Dichloropropane	3990570	**9.230**	0.675	0.774	12.8	**30**	IN	**PFB**
Chloroform	3911784	**9.540**	0.640	0.715	10.4	**30**	IN	**PFB**
1,1,1-Trichloroethane	4155753	**8.420**	0.648	0.658	1.5	**30**	IN	**14DFB**
1,2-Dichloroethane	3505299	**8.670**	0.531	0.600	11.5	**30**	IN	**14DFB**
1,1-Dichloropropene	2545723	**6.830**	0.489	0.549	10.8	**30**	IN	**14DFB**
Cyclohexane	3354509	**7.940**	0.555	0.593	6.5	**30**	IN	**14DFB**
Benzene	6760038	**8.930**	0.994	1.074	7.4	**30**	IN	**14DFB**
Carbon tetrachloride	3866956	**8.990**	0.565	0.437	-29.3	**30**	IN	**14DFB**
t-Amyl methyl ether	3998973	**4.600**	1.141	1.421	19.7	**40**	IN	**14DFB**
2,2,4-Trimethylpentane	7993874	**5.650**	1.857	2.015	7.8	**30**	IN	**14DFB**
n-Heptane	1726118	**6.280**	0.361	0.395	8.5	**30**	IN	**14DFB**
1,2-Dichloropropane	2928340	**9.150**	0.420	0.464	9.4	**30**	IN	**14DFB**
1,4 Dioxane	3335581	**17.520**	0.250	0.298	16.0	**40**	IN	**14DFB**
Dibromomethane	1763836	**3.900**	0.594	0.467	-27.1	**30**	IN	**14DFB**
Trichloroethene (TCE)	3312984	**8.860**	0.491	0.487	-0.9	**30**	IN	**14DFB**
Bromodichloromethane	2244434	**4.170**	0.707	0.683	-3.5	**40**	IN	**14DFB**
Methyl methacrylate	1970034	**7.010**	0.369	0.368	-0.1	**40**	IN	**14DFB**
4-Methyl-2-pentanone (MIBK)	2423077	**7.840**	0.406	0.510	20.5	**40**	IN	**14DFB**
cis-1,3-Dichloropropene	3922828	**9.100**	0.566	0.584	3.1	**30**	IN	**14DFB**
Toluene	8371704	**9.160**	1.200	1.500	20.0	**30**	IN	**14DFB**
trans-1,3-Dichloropropene	3824355	**9.110**	0.551	0.587	6.1	**30**	IN	**14DFB**
1,1,2-Trichloroethane	2101030	**9.030**	0.305	0.373	18.1	**30**	IN	**14DFB**
Ethyl methacrylate	2044977	**4.790**	0.560	0.700	19.9	**40**	IN	**14DFB**
2-Hexanone	3336902	**7.350**	0.596	0.852	30.0	**40**	IN	**14DFB**
1,3-Dichloropropane	3914908	**6.810**	0.755	0.878	14.0	**30**	IN	**14DFB**
Octane	2350881	**5.650**	0.546	0.593	7.8	**30**	IN	**14DFB**
Dibromochloromethane	2816468	**4.140**	0.893	0.752	-18.8	**40**	IN	**14DFB**
1,2-Dibromoethane (EDB)	2894758	**4.610**	0.824	0.932	11.5	**30**	IN	**14DFB**
Tetrachloroethene (PCE)	2825160	**4.630**	0.801	0.736	-8.8	**30**	IN	**14DFB**
Chlorobenzene	6801449	**8.650**	1.062	1.009	-5.3	**30**	IN	**d5CB**
1,1,1,2-Tetrachloroethane	1744084	**4.290**	0.549	0.429	-28.2	**30**	IN	**d5CB**
Ethylbenzene	13539176	**9.290**	1.969	1.781	-10.6	**30**	IN	**d5CB**
m,p-Xylenes	11251597	**9.310**	1.633	1.591	-2.7	**30**	IN	**d5CB**
Nonane	4737794	**4.930**	1.298	1.278	-1.6	**30**	IN	**d5CB**
Styrene	7977610	**9.100**	1.185	1.106	-7.1	**30**	IN	**d5CB**
Bromoform	1855970	**2.780**	0.902	0.671	-34.4	**40**	IN	**d5CB**
o-Xylene	11215659	**9.050**	1.675	1.662	-0.8	**30**	IN	**d5CB**
1,1,2,2-Tetrachloroethane	4628974	**4.710**	1.328	1.356	2.1	**30**	IN	**d5CB**
1,2,3-Trichloropropane	1387557	**5.100**	0.368	0.366	-0.3	**30**	IN	**d5CB**
t-1,4-Dichloro-2-butene	585027	**5.770**	0.137	0.169	18.9	**40**	IN	**d5CB**
n-Propylbenzene	13465787	**6.420**	2.834	3.012	5.9	**30**	IN	**d5CB**
Isopropylbenzene	19223770	**6.490**	4.002	3.234	-23.8	**30**	IN	**d5CB**
4-Ethyltoluene	19223770	**15.540**	1.671	2.169	22.9	**30**	IN	**d5CB**
1,3,5-Trimethylbenzene	12035998	**9.080**	1.791	1.952	8.2	**30**	IN	**d5CB**
Decane	7129815	**5.250**	1.835	2.327	21.1	**30**	IN	**d5CB**
tert-butyl benzene	7310737	**5.730**	1.724	2.295	24.9	**40**	IN	**d5CB**

Compound	Area Astdi	**Cal Level Cstdi ppbv**	CCRRFi	ICALRF AvgRFn	%Dev	%Dev Limit	%Dev Flag	**Quant IS**
1,2,4-Trimethylbenzene	10541662	**8.930**	1.595	2.061	22.6	**30**	IN	**d5CB**
i-Butylbenzene	10835362	**5.690**	2.573	2.908	11.5	**40**	IN	**d5CB**
sec-butylbenzene	13338255	**6.040**	2.984	3.135	4.8	**40**	IN	**d5CB**
1,3-Dichlorobenzene	6076898	**7.050**	1.165	1.314	11.4	**40**	IN	**d5CB**
Isopropyltoluene	9568495	**5.970**	2.166	2.915	25.7	**40**	IN	**d5CB**
Benzyl chloride	3457396	**6.280**	0.744	1.033	28.0	**40**	IN	**d5CB**
1,4-Dichlorobenzene	6076898	**6.580**	1.248	1.196	-4.4	**40**	IN	**d5CB**
n-Butylbenzene	9652287	**5.600**	2.329	3.264	28.6	**40**	IN	**d5CB**
1,2-Dichlorobenzene	5668728	**6.492**	1.180	1.531	22.9	**40**	IN	**d5CB**
1,2-Dibromo-3-chloropropane	494810	**6.280**	0.106	0.307	65.4	**50**	OUT	**d5CB**
1,2,4-Trichlorobenzene	64905	**3.910**	0.022	0.098	77.1	**50**	OUT	**d5CB**
Naphthalene	53887	**1.530**	0.048	0.103	53.7	**50**	OUT	**d5CB**
1,2,3-Trichlorobenzene	44414	**4.910**	0.012	0.015	18.2	**50**	IN	**d5CB**
Hexachlorobutadiene	1329880	**2.520**	0.713	1.138	37.3	**50**	IN	**d5CB**
Pentafluorobenzene	12805872	**20.000**		0.000				
1,4-Difluorobenzene	15234000	**20.000**		0.000				
Chlorobenzene-d5	14801936	**20.000**		0.000				
Toluene-d8	9197092	**10.000**		0.000				

File : C:\MSCHEM\1\DATA\04025A_C\C04025A.D
Operator : MM
Acquired : 2 Apr 125 6:58 am using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: ST62126
Misc Info :
Vial Number: 1



CONTINUING CALIBRATION REPORT

SDG:	**LABQC**	
QC_Batch:	**040325-MA1**	
Sample ID:	ST62126	
Sample Analysis Date:	3 Apr 125 7:35 am	
Run Method:	A1563_P.M	
Quant/Calibration Method:	A15CS2_P.M	
Calibration Level:	**Level 4**	**10**

Sample Calculation:

$$1)\ CCRFi = \left| \frac{(Astdi)\ (Cistdi)}{(Cstdi)\ (Aistdi)} \right|_i$$

CCRFi is the Continuing Calibration RF

PFB - Pentafluorobenzene
14DFB - 1,4-Difluorobenzene
d5CB - d5-Chlorobenzene

A passing calibration can have (10%) or 10 compounds out

Compound	Area Astdi	Cal Level Cstdi ppbv	CCRRFi	ICALRF AvgRFn	%Dev	%Dev Limit	%Dev Flag	Quant IS
Propylene	1126363	**9.500**	0.176	0.246	28.6	**30**	IN	**PFB**
Dichlorodifluoromethane	5503251	**9.500**	0.858	1.109	22.6	**30**	IN	**PFB**
Methanol	7857151	**15.700**	0.741	1.100	32.6	**50**	IN	**PFB**
Chloromethane	1916191	**9.500**	0.299	0.391	23.5	**30**	IN	**PFB**
1,2-Dichlorotetrafluoroethane	4700290	**9.500**	0.733	0.898	18.4	**30**	IN	**PFB**
Vinyl chloride	1932664	**9.500**	0.301	0.389	22.5	**30**	IN	**PFB**
1,3-Butadiene	1688953	**9.500**	0.263	0.339	22.4	**30**	IN	**PFB**
Bromomethane	1897821	**9.500**	0.296	0.318	6.9	**30**	IN	**PFB**
Chloroethane	1034081	**9.500**	0.161	0.192	16.2	**30**	IN	**PFB**
Ethanol	2154955	**32.080**	0.100	0.142	30.1	**50**	IN	**PFB**
Acrolein	846619	**13.780**	0.091	0.130	29.8	**30**	IN	**PFB**
Trichlorofluoromethane	4069297	**9.130**	0.660	0.737	10.4	**30**	IN	**PFB**
Acetone	1381228	**12.750**	0.160	0.238	32.7	**40**	IN	**PFB**
2-propanol (isopropylalcohol)	6609713	**12.270**	0.798	0.996	19.8	**50**	IN	**PFB**
t-Butyl alcohol	4838774	**9.120**	0.786	0.910	13.6	**40**	IN	**PFB**
Methyl iodide	1602623	**2.780**	0.854	0.749	-14.0	**30**	IN	**PFB**
1,1-Dichloroethene	3075377	**8.690**	0.524	0.673	22.1	**30**	IN	**PFB**
Acrylonitrile	1729439	**10.550**	0.243	0.332	26.8	**40**	IN	**PFB**
1,1,2-Trichlorotrifluoroethane	2851660	**8.410**	0.502	0.453	-11.0	**30**	IN	**PFB**
Allyl chloride	866362	**9.970**	0.129	0.172	25.3	**40**	IN	**PFB**
Methylene chloride	1208542	**9.160**	0.195	0.239	18.3	**30**	IN	**PFB**
Carbon disulfide	4911444	**9.630**	0.756	0.883	14.4	**30**	IN	**PFB**
trans-1,2-Dichloroethene	1499475	**7.490**	0.297	0.334	11.2	**30**	IN	**PFB**
Methyl tert butyl ether	4640711	**7.640**	0.900	1.105	18.6	**40**	IN	**PFB**
Propionitrile	2167036	**13.020**	0.247	0.327	24.6	**40**	IN	**PFB**
1,1-Dichloroethane	3620102	**8.760**	0.612	0.796	23.0	**30**	IN	**PFB**
Ethyl tert butyl ether	4491372	**6.020**	1.105	1.308	15.5	**40**	IN	**PFB**
Vinyl acetate	3959406	**9.110**	0.644	0.747	13.8	**40**	IN	**PFB**
2-Butanone (MEK)	1342398	**10.550**	0.188	0.200	5.7	**40**	IN	**PFB**
Diisopropyl ether	889507	**5.400**	0.244	0.270	9.6	**40**	IN	**PFB**
Hexane	3160434	**7.660**	0.611	0.739	17.3	**40**	IN	**PFB**
Methacrylonitrile	1388455	**9.950**	0.207	0.219	5.7	**40**	IN	**PFB**
Ethyl acetate	4003113	**9.080**	0.653	0.771	15.3	**40**	IN	**PFB**
Bromochloromethane	2534131	**5.520**	0.680	0.803	15.3	**30**	IN	**PFB**

Compound	Area Astdi	Cal Level Cstdi ppbv	CCRRFi	ICALRF AvgRFn	%Dev	%Dev Limit	%Dev Flag	Quant IS
Methyl acrylate	1504095	**4.910**	0.454	0.497	8.7	**40**	IN	**PFB**
Tetrahydrofuran	1311843	**10.770**	0.180	0.213	15.4	**40**	IN	**PFB**
Isobutyl alcohol	258719	**7.570**	0.051	0.081	37.2	**40**	IN	**PFB**
cis-1,2-Dichloroethene	2280609	**9.430**	0.358	0.374	4.3	**30**	IN	**PFB**
2,2-Dichloropropane	4061126	**9.230**	0.652	0.774	15.8	**30**	IN	**PFB**
Chloroform	4225441	**9.540**	0.656	0.715	8.2	**30**	IN	**PFB**
1,1,1-Trichloroethane	4208399	**8.420**	0.622	0.658	5.4	**30**	IN	**14DFB**
1,2-Dichloroethane	3648190	**8.670**	0.523	0.600	12.7	**30**	IN	**14DFB**
1,1-Dichloropropene	2736034	**6.830**	0.498	0.549	9.2	**30**	IN	**14DFB**
Cyclohexane	3384669	**7.940**	0.530	0.593	10.6	**30**	IN	**14DFB**
Benzene	7389088	**8.930**	1.029	1.074	4.1	**30**	IN	**14DFB**
Carbon tetrachloride	3921256	**8.990**	0.543	0.437	-24.3	**30**	IN	**14DFB**
t-Amyl methyl ether	4293734	**4.600**	1.161	1.421	18.3	**40**	IN	**14DFB**
2,2,4-Trimethylpentane	8460505	**5.650**	1.863	2.015	7.5	**30**	IN	**14DFB**
n-Heptane	1830713	**6.280**	0.363	0.395	8.1	**30**	IN	**14DFB**
1,2-Dichloropropane	3095477	**9.150**	0.421	0.464	9.3	**30**	IN	**14DFB**
1,4 Dioxane	3597729	**17.520**	0.255	0.298	14.1	**40**	IN	**14DFB**
Dibromomethane	2003335	**3.900**	0.639	0.467	-36.8	**30**	OUT	**14DFB**
Trichloroethene (TCE)	3570304	**8.860**	0.501	0.487	-3.0	**30**	IN	**14DFB**
Bromodichloromethane	2415216	**4.170**	0.721	0.683	-5.5	**40**	IN	**14DFB**
Methyl methacrylate	1994310	**7.010**	0.354	0.368	3.9	**40**	IN	**14DFB**
4-Methyl-2-pentanone (MIBK)	2690048	**7.840**	0.427	0.510	16.4	**40**	IN	**14DFB**
cis-1,3-Dichloropropene	4316997	**9.100**	0.590	0.584	-1.0	**30**	IN	**14DFB**
Toluene	8993968	**9.160**	1.221	1.500	18.6	**30**	IN	**14DFB**
trans-1,3-Dichloropropene	4209496	**9.110**	0.575	0.587	2.0	**30**	IN	**14DFB**
1,1,2-Trichloroethane	2141709	**9.030**	0.295	0.373	20.9	**30**	IN	**14DFB**
Ethyl methacrylate	2285452	**4.790**	0.594	0.700	15.2	**40**	IN	**14DFB**
2-Hexanone	3848057	**7.350**	0.651	0.852	23.5	**40**	IN	**14DFB**
1,3-Dichloropropane	4478814	**6.810**	0.818	0.878	6.8	**30**	IN	**14DFB**
Octane	2519146	**5.650**	0.555	0.593	6.4	**30**	IN	**14DFB**
Dibromochloromethane	3344941	**4.140**	1.005	0.752	-33.7	**40**	IN	**14DFB**
1,2-Dibromoethane (EDB)	3352790	**4.610**	0.905	0.932	2.9	**30**	IN	**14DFB**
Tetrachloroethene (PCE)	3208140	**4.630**	0.862	0.736	-17.1	**30**	IN	**14DFB**
Chlorobenzene	6809791	**8.650**	1.031	1.009	-2.2	**30**	IN	**d5CB**
1,1,1,2-Tetrachloroethane	1818507	**4.290**	0.555	0.429	-29.6	**30**	IN	**d5CB**
Ethylbenzene	14074633	**9.290**	1.984	1.781	-11.4	**30**	IN	**d5CB**
m,p-Xylenes	11861744	**9.310**	1.669	1.591	-4.9	**30**	IN	**d5CB**
Nonane	5194010	**4.930**	1.380	1.278	-8.0	**30**	IN	**d5CB**
Styrene	8503465	**9.100**	1.224	1.106	-10.7	**30**	IN	**d5CB**
Bromoform	2068345	**2.780**	0.974	0.671	-45.2	**40**	OUT	**d5CB**
o-Xylene	11389443	**9.050**	1.648	1.662	0.8	**30**	IN	**d5CB**
1,1,2,2-Tetrachloroethane	5517028	**4.710**	1.534	1.356	-13.1	**30**	IN	**d5CB**
1,2,3-Trichloropropane	1525208	**5.100**	0.392	0.366	-6.9	**30**	IN	**d5CB**
t-1,4-Dichloro-2-butene	695999	**5.770**	0.158	0.169	6.4	**40**	IN	**d5CB**
n-Propylbenzene	14584504	**6.420**	2.975	3.012	1.2	**30**	IN	**d5CB**
Isopropylbenzene	19056925	**6.490**	3.846	3.234	-18.9	**30**	IN	**d5CB**
4-Ethyltoluene	19056925	**15.540**	1.606	2.169	25.9	**30**	IN	**d5CB**
1,3,5-Trimethylbenzene	11592815	**9.080**	1.672	1.952	14.3	**30**	IN	**d5CB**
Decane	7057006	**5.250**	1.761	2.327	24.3	**30**	IN	**d5CB**
tert-butyl benzene	6812456	**5.730**	1.557	2.295	32.2	**40**	IN	**d5CB**

Compound	Area Astdi	Cal Level Cstdi ppbv	CCRRFi	ICALRF AvgRFn	%Dev	%Dev Limit	%Dev Flag	Quant IS
1,2,4-Trimethylbenzene	10335169	**8.930**	1.516	2.061	26.4	**30**	IN	**d5CB**
i-Butylbenzene	12877776	**5.690**	2.964	2.908	-1.9	**40**	IN	**d5CB**
sec-butylbenzene	13252561	**6.040**	2.874	3.135	8.3	**40**	IN	**d5CB**
1,3-Dichlorobenzene	6648721	**7.050**	1.235	1.314	6.0	**40**	IN	**d5CB**
Isopropyltoluene	9112629	**5.970**	1.999	2.915	31.4	**40**	IN	**d5CB**
Benzyl chloride	4307161	**6.280**	0.898	1.033	13.0	**40**	IN	**d5CB**
1,4-Dichlorobenzene	6648721	**6.580**	1.323	1.196	-10.7	**40**	IN	**d5CB**
n-Butylbenzene	10495738	**5.600**	2.455	3.264	24.8	**40**	IN	**d5CB**
1,2-Dichlorobenzene	6500241	**6.492**	1.311	1.531	14.3	**40**	IN	**d5CB**
1,2-Dibromo-3-chloropropane	611886	**6.280**	0.128	0.307	58.5	**50**	OUT	**d5CB**
1,2,4-Trichlorobenzene	38600	**3.910**	0.013	0.098	86.8	**50**	OUT	**d5CB**
Naphthalene	38937	**1.530**	0.033	0.103	67.6	**50**	OUT	**d5CB**
1,2,3-Trichlorobenzene	20390	**4.910**	0.005	0.015	63.6	**50**	OUT	**d5CB**
Hexachlorobutadiene	1900474	**2.520**	0.988	1.138	13.2	**50**	IN	**d5CB**
Pentafluorobenzene	13500850	**20.000**		0.000				
1,4-Difluorobenzene	16077269	**20.000**		0.000				
Chlorobenzene-d5	15269835	**20.000**		0.000				
Toluene-d8	9690437	**10.000**		0.000				

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

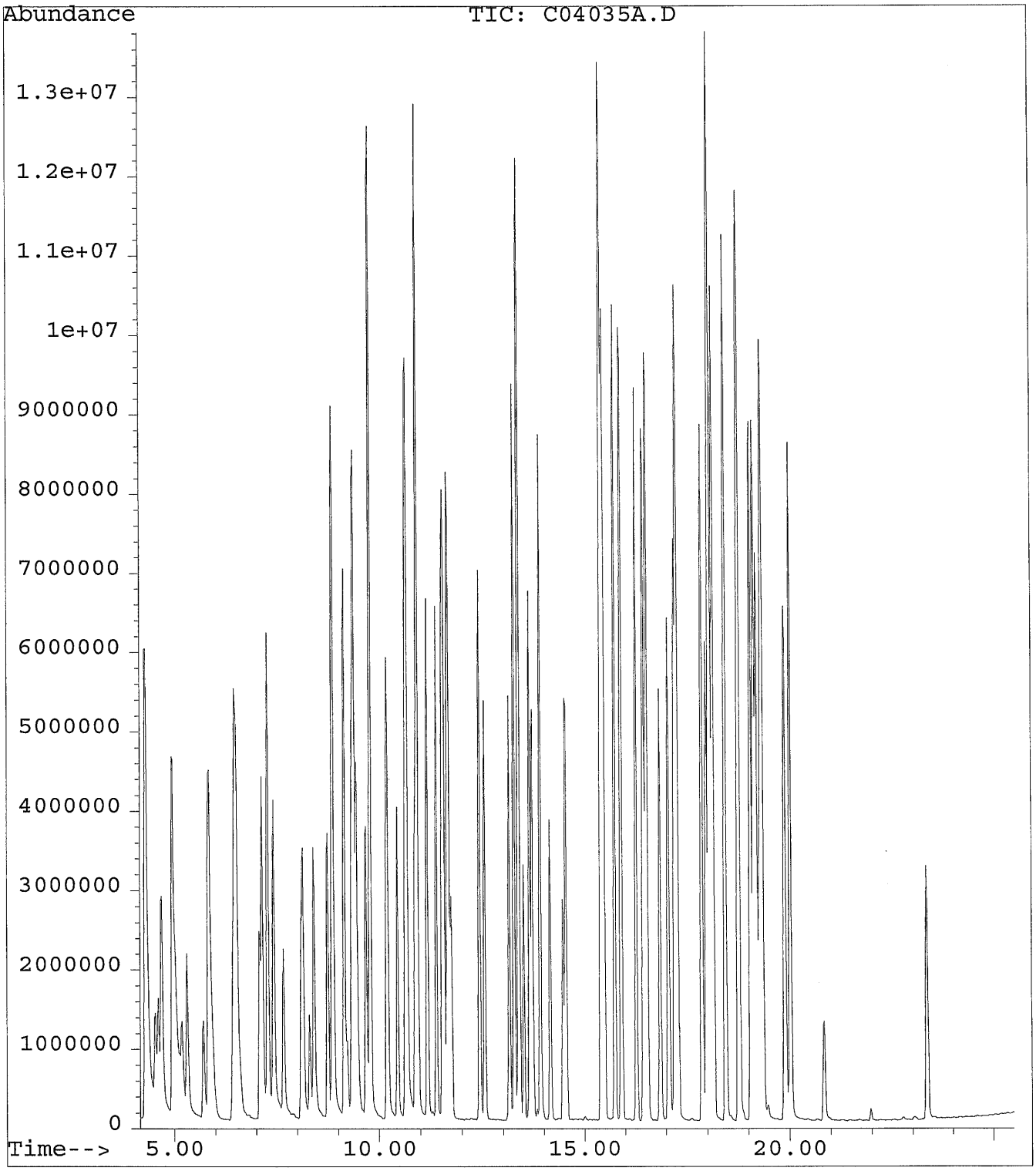
				SDG:	**LABQC**		
				EAS ID:	**C04035**		
File Name:	C04035A.D	**Method:**	**TO-15**	**Date Sampled:**	**NA**	**Time:**	**NA**
Sample ID:	ST62126	**Matrix:**	**AA**	**Date Received:**	**NA**	**Time:**	**NA**
MiscInfo-Vol:		**Detect:**	**ND**	**Date Analyzed:**	**04/03/25**	**Time:**	**7:35**
Anal Date:	3 Apr 125 7:35 am	**SF:**	**2**	**QCbatch:**	**040325-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**200.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**NA**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.00**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	MM	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.5**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	6.781	4.41	42.00	1126363
75-71-8	Dichlorodifluoromethane	3	TRG	7.350	4.48	85.00	5503251
67-56-1	Methanol	4	TRG	10.586	4.86	31.00	7857151
74-87-3	Chloromethane	5	TRG	7.263	4.77	50.00	1916191
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	7.754	4.77	85.00	4700290
75-01-4	Vinyl chloride	7	TRG	7.358	5.02	62.00	1932664
106-99-0	1,3-Butadiene	8	TRG	7.370	5.14	54.00	1688953
74-83-9	Bromomethane	9	TRG	8.844	5.56	94.00	1897821
75-00-3	Chloroethane	10	TRG	7.960	5.72	64.00	1034081
64-17-5	Ethanol	11	TRG	22.438	5.72	46.00	2154955
107-02-8	Acrolein	12	TRG	9.675	6.32	56.00	846619
75-69-4	Trichlorofluoromethane	13	TRG	8.184	6.38	101.00	4069297
67-64-1	Acetone	14	TRG	8.580	6.42	58.00	1381228
67-63-0	2-propanol (isopropylalcoh	15	TRG	9.836	6.45	45.00	6609713
75-65-0	t-Butyl alcohol	16	TRG	7.877	7.03	59.00	4838774
4227-95-6	Methyl iodide	17	TRG	3.169	7.19	142.00	1602623
75-35-4	1,1-Dichloroethene	18	TRG	6.773	7.07	61.00	3075377
107-13-1	Acrylonitrile	19	TRG	7.727	7.07	53.00	1729439
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	9.335	7.21	151.00	2851660
107-05-1	Allyl chloride	21	TRG	7.445	7.37	76.00	866362
75-09-2	Methylene chloride	22	TRG	7.487	7.35	84.00	1208542
75-15-0	Carbon disulfide	23	TRG	8.239	7.61	76.00	4911444
156-60-5	trans-1,2-Dichloroethene	24	TRG	6.651	8.06	96.00	1499475
1634-04-4	Methyl tert butyl ether	25	TRG	6.219	8.11	73.00	4640711
107-12-0	Propionitrile	26	TRG	9.816	8.31	54.00	2167036
75-34-3	1,1-Dichloroethane	27	TRG	6.741	8.41	63.00	3620102
637-92-3	Ethyl tert butyl ether	28	TRG	5.089	9.40	59.00	4491372
108-05-4	Vinyl acetate	29	TRG	7.850	8.39	43.00	3959406
78-93-3	2-Butanone (MEK)	30	TRG	9.951	8.75	72.00	1342398
108-20-3	Diisopropyl ether	31	TRG	4.881	8.90	87.00	889507
110-54-3	Hexane	32	TRG	6.334	8.86	57.00	3160434
126-98-7	Methacrylonitrile	33	TRG	9.378	8.88	67.00	1388455
141-78-6	Ethyl acetate	34	TRG	7.689	9.17	61.00	4003113
74-97-5	Bromochloromethane	35	TRG	4.677	9.43	49.00	2534131

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	4.483	9.25	55.00	1504095
109-99-9	Tetrahydrofuran	37	TRG	9.112	9.72	72.00	1311843
78-83-1	Isobutyl alcohol	38	TRG	4.754	9.51	74.00	258719
156-59-2	cis-1,2-Dichloroethene	39	TRG	9.022	9.16	96.00	2280609
594-20-7	2,2-Dichloropropane	40	TRG	7.771	9.37	77.00	4061126
67-66-3	Chloroform	41	TRG	8.755	9.42	83.00	**4225441**
71-55-6	1,1,1-Trichloroethane	43	TRG	7.961	10.24	97.00	4208399
107-06-2	1,2-Dichloroethane	44	TRG	7.570	10.27	61.95	3648190
563-58-6	1,1-Dichloropropene	45	TRG	6.205	10.50	75.00	2736034
110-82-7	Cyclohexane	46	TRG	7.098	10.74	56.00	3384669
71-43-2	Benzene	47	TRG	8.562	10.70	78.00	7389088
56-23-5	Carbon tetrachloride	48	TRG	11.171	10.73	116.90	3921256
994-05-8	t-Amyl methyl ether	49	TRG	3.758	10.95	73.00	4293734
540-84-1	2,2,4-Trimethylpentane	50	TRG	5.224	11.25	57.00	8460505
142-82-5	n-Heptane	51	TRG	5.772	11.48	71.00	1830713
78-87-5	1,2-Dichloropropane	52	TRG	8.301	11.64	63.00	3095477
123-91-1	1,4 Dioxane	53	TRG	15.042	11.79	88.00	3597729
74-95-3	Dibromomethane	54	TRG	5.335	11.75	174.00	2003335
79-01-6	Trichloroethene (TCE)	55	TRG	9.126	10.70	130.00	3570304
75-27-4	Bromodichloromethane	56	TRG	4.399	11.85	83.00	2415216
80-62-6	Methyl methacrylate	57	TRG	6.734	11.76	69.00	1994310
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	6.555	12.55	58.00	2690048
10061-01-5	cis-1,3-Dichloropropene	59	TRG	9.191	12.67	75.00	**4316997**
108-88-3	Toluene	61	TRG	7.457	13.50	91.00	8993968
10061-02-6	trans-1,3-Dichloropropene	62	TRG	8.925	13.28	75.00	4209496
79-00-5	1,1,2-Trichloroethane	63	TRG	7.140	13.52	61.00	2141709
97-63-2	Ethyl methacrylate	64	TRG	4.063	13.63	69.00	2285452
591-78-6	2-Hexanone	65	TRG	5.622	13.79	58.00	3848057
142-28-9	1,3-Dichloropropane	66	TRG	6.349	13.86	76.00	4478814
111-65-9	Octane	67	TRG	5.287	14.04	85.00	2519146
124-48-1	Dibromochloromethane	68	TRG	5.535	14.30	129.00	3344941
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	4.475	14.62	107.00	3352790
127-18-4	Tetrachloroethene (PCE)	70	TRG	5.422	14.69	166.00	3208140
108-90-7	Chlorobenzene	72	TRG	8.844	15.62	112.00	6809791
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	5.558	15.64	131.00	1818507
100-41-4	Ethylbenzene	74	TRG	10.353	15.90	106	14074633
1330-20-7	m,p-Xylenes	75	TRG	9.767	16.06	91.00	11861744
111-84-2	Nonane	76	TRG	5.322	16.43	57.00	5194010
100-42-5	Styrene	77	TRG	10.075	16.61	104.00	8503465
75-25-2	Bromoform	78	TRG	4.036	16.67	173.00	2068345
95-47-6	o-Xylene	79	TRG	8.976	16.56	91.00	11389443
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	5.328	17.02	83.00	5517028
96-18-4	1,2,3-Trichloropropane	81	TRG	5.453	17.22	110.00	1525208
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	5.399	17.24	53.00	695999
103-65-1	n-Propylbenzene	83	TRG	6.341	18.04	91.00	14584504
98-82-8	Isopropylbenzene	84	TRG	7.719	18.23	105.00	19056925
622-96-8	4-Ethyltoluene	85	TRG	11.510	18.23	105.00	19056925
108-67-8	1,3,5-Trimethylbenzene	86	TRG	7.780	18.31	105.00	11592815
124-18-5	Decane	87	TRG	3.972	18.60	57.00	7057006
98-06-6	tert-butyl benzene	88	TRG	3.888	18.93	119.00	6812456

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	6.568	18.95	105.00	10335169
538-93-2	i-Butylbenzene	90	TRG	5.801	19.24	91.00	12877776
135-98-8	sec-butylbenzene	91	TRG	5.537	19.32	105.00	13252561
541-73-1	1,3-Dichlorobenzene	92	TRG	6.628	19.39	146.00	6648721
99-87-6	Isopropyltoluene	93	TRG	4.095	19.53	119.00	9112629
100-44-7	Benzyl chloride	94	TRG	5.462	19.46	91.00	4307161
106-46-7	1,4-Dichlorobenzene	95	TRG	7.283	19.39	146.00	6648721
104-51-8	n-Butylbenzene	96	TRG	4.212	20.20	91.00	10495738
95-50-1	1,2-Dichlorobenzene	97	TRG	5.562	20.07	146.00	6500241
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	2.608	21.02	75.00	611886
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.516	22.95	180.00	38600
91-20-3	Naphthalene	100	TRG	0.496	23.23	128.00	38937
87-61-6	1,2,3-Trichlorobenzene	101	TRG	1.788	23.71	180.00	20390
87-68-3	Hexachlorobutadiene	102	TRG	2.187	23.35	225.00	1900474
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**13500850**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**16077269**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15269835**
2037-26-5	Toluene-d8	103	SURR	9.805	13.40	98.00	**9690437**

File : C:\MSCHEM\1\DATA\04035A_C\C04035A.D
Operator : MM
Acquired : 3 Apr 125 7:35 am using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: ST62126
Misc Info :
Vial Number: 1



CONTINUING CALIBRATION REPORT

SDG:	**LABQC**		**Sample Calculation:**
QC_Batch:	**040425-MA1**		1) $CCRFi = \frac{(Astdi)\ (Cistdi)}{(Cstdi)\ (Aistdi)}\ i$
Sample ID:	ST62126		
Sample Analysis Date:	4 Apr 125 7:26 am		
Run Method:	A1563_P.M		CCRFi is the Continuing Calibration RF
Quant/Calibration Method:	A15CS2_P.M		
Calibration Level:	**Level 4**	**10**	PFB - Pentafluorobenzene
			14DFB - 1,4-Difluorobenzene
A passing calibration can have (10%) or 10 compounds out			d5CB - d5-Chlorobenzene

Compound	Area Astdi	**Cal Level Cstdi ppbv**	CCRRFi	ICALRF AvgRFn	%Dev	%Dev Limit	%Dev Flag	**Quant IS**
Propylene	1093025	**9.500**	0.174	0.246	29.3	**30**	IN	**PFB**
Dichlorodifluoromethane	5376858	**9.500**	0.856	1.109	22.8	**30**	IN	**PFB**
Methanol	8208095	**15.700**	0.791	1.100	28.1	**50**	IN	**PFB**
Chloromethane	1766977	**9.500**	0.281	0.391	28.0	**30**	IN	**PFB**
1,2-Dichlorotetrafluoroethane	4410944	**9.500**	0.702	0.898	21.8	**30**	IN	**PFB**
Vinyl chloride	1756724	**9.500**	0.280	0.389	28.1	**30**	IN	**PFB**
1,3-Butadiene	1583386	**9.500**	0.252	0.339	25.7	**30**	IN	**PFB**
Bromomethane	1714794	**9.500**	0.273	0.318	14.1	**30**	IN	**PFB**
Chloroethane	966912	**9.500**	0.154	0.192	20.0	**30**	IN	**PFB**
Ethanol	2055108	**32.080**	0.097	0.142	31.9	**50**	IN	**PFB**
Acrolein	917845	**13.780**	0.101	0.130	22.3	**30**	IN	**PFB**
Trichlorofluoromethane	3697124	**9.130**	0.613	0.737	16.8	**30**	IN	**PFB**
Acetone	1409106	**12.750**	0.167	0.238	29.9	**40**	IN	**PFB**
2-propanol (isopropylalcohol)	6511612	**12.270**	0.803	0.996	19.4	**50**	IN	**PFB**
t-Butyl alcohol	4668402	**9.120**	0.774	0.910	14.9	**40**	IN	**PFB**
Methyl iodide	1339603	**2.780**	0.729	0.749	2.7	**30**	IN	**PFB**
1,1-Dichloroethene	2902762	**8.690**	0.505	0.673	24.9	**30**	IN	**PFB**
Acrylonitrile	1822881	**10.550**	0.261	0.332	21.2	**40**	IN	**PFB**
1,1,2-Trichlorotrifluoroethane	2535038	**8.410**	0.456	0.453	-0.8	**30**	IN	**PFB**
Allyl chloride	898899	**9.970**	0.136	0.172	20.9	**40**	IN	**PFB**
Methylene chloride	73602	**9.160**	0.012	0.239	94.9	**30**	OUT	**PFB**
Carbon disulfide	4581968	**9.630**	0.720	0.883	18.5	**30**	IN	**PFB**
trans-1,2-Dichloroethene	1549400	**7.490**	0.313	0.334	6.3	**30**	IN	**PFB**
Methyl tert butyl ether	4855545	**7.640**	0.961	1.105	13.0	**40**	IN	**PFB**
Propionitrile	2105856	**13.020**	0.245	0.327	25.2	**40**	IN	**PFB**
1,1-Dichloroethane	3945405	**8.760**	0.681	0.796	14.4	**30**	IN	**PFB**
Ethyl tert butyl ether	4410400	**6.020**	1.108	1.308	15.2	**40**	IN	**PFB**
Vinyl acetate	4239205	**9.110**	0.704	0.747	5.8	**40**	IN	**PFB**
2-Butanone (MEK)	1325794	**10.550**	0.190	0.200	4.9	**40**	IN	**PFB**
Diisopropyl ether	881984	**5.400**	0.247	0.270	8.5	**40**	IN	**PFB**
Hexane	3326340	**7.660**	0.657	0.739	11.1	**40**	IN	**PFB**
Methacrylonitrile	1325554	**9.950**	0.202	0.219	8.1	**40**	IN	**PFB**
Ethyl acetate	4272301	**9.080**	0.712	0.771	7.7	**40**	IN	**PFB**
Bromochloromethane	2528360	**5.520**	0.693	0.803	13.7	**30**	IN	**PFB**

Compound	Area Astdi	Cal Level Cstdi ppbv	CCRRFi	ICALRF AvgRFn	%Dev	%Dev Limit	%Dev Flag	Quant IS
Methyl acrylate	1511608	**4.910**	0.466	0.497	6.3	**40**	IN	**PFB**
Tetrahydrofuran	1270580	**10.770**	0.178	0.213	16.3	**40**	IN	**PFB**
Isobutyl alcohol	248984	**7.570**	0.050	0.081	38.3	**40**	IN	**PFB**
cis-1,2-Dichloroethene	2273238	**9.430**	0.365	0.374	2.6	**30**	IN	**PFB**
2,2-Dichloropropane	4158241	**9.230**	0.682	0.774	12.0	**30**	IN	**PFB**
Chloroform	3996942	**9.540**	0.634	0.715	11.4	**30**	IN	**PFB**
1,1,1-Trichloroethane	4162033	**8.420**	0.632	0.658	3.9	**30**	IN	**14DFB**
1,2-Dichloroethane	3497389	**8.670**	0.516	0.600	14.0	**30**	IN	**14DFB**
1,1-Dichloropropene	2707663	**6.830**	0.507	0.549	7.6	**30**	IN	**14DFB**
Cyclohexane	3400812	**7.940**	0.547	0.593	7.7	**30**	IN	**14DFB**
Benzene	7218701	**8.930**	1.033	1.074	3.8	**30**	IN	**14DFB**
Carbon tetrachloride	3908005	**8.990**	0.556	0.437	-27.2	**30**	IN	**14DFB**
t-Amyl methyl ether	4023073	**4.600**	1.118	1.421	21.3	**40**	IN	**14DFB**
2,2,4-Trimethylpentane	8331135	**5.650**	1.885	2.015	6.5	**30**	IN	**14DFB**
n-Heptane	1755231	**6.280**	0.357	0.395	9.5	**30**	IN	**14DFB**
1,2-Dichloropropane	2929055	**9.150**	0.409	0.464	11.8	**30**	IN	**14DFB**
1,4 Dioxane	3433289	**17.520**	0.250	0.298	15.8	**40**	IN	**14DFB**
Dibromomethane	1842802	**3.900**	0.604	0.467	-29.3	**30**	IN	**14DFB**
Trichloroethene (TCE)	3303962	**8.860**	0.477	0.487	2.1	**30**	IN	**14DFB**
Bromodichloromethane	2298287	**4.170**	0.704	0.683	-3.1	**40**	IN	**14DFB**
Methyl methacrylate	2040770	**7.010**	0.372	0.368	-1.0	**40**	IN	**14DFB**
4-Methyl-2-pentanone (MIBK)	2626162	**7.840**	0.428	0.510	16.1	**40**	IN	**14DFB**
cis-1,3-Dichloropropene	4123841	**9.100**	0.579	0.584	0.9	**30**	IN	**14DFB**
Toluene	8627119	**9.160**	1.204	1.500	19.8	**30**	IN	**14DFB**
trans-1,3-Dichloropropene	4173941	**9.110**	0.586	0.587	0.2	**30**	IN	**14DFB**
1,1,2-Trichloroethane	2076636	**9.030**	0.294	0.373	21.2	**30**	IN	**14DFB**
Ethyl methacrylate	2272262	**4.790**	0.606	0.700	13.4	**40**	IN	**14DFB**
2-Hexanone	3663941	**7.350**	0.637	0.852	25.2	**40**	IN	**14DFB**
1,3-Dichloropropane	4120250	**6.810**	0.773	0.878	11.9	**30**	IN	**14DFB**
Octane	2352661	**5.650**	0.532	0.593	10.2	**30**	IN	**14DFB**
Dibromochloromethane	3106682	**4.140**	0.959	0.752	-27.6	**40**	IN	**14DFB**
1,2-Dibromoethane (EDB)	3103963	**4.610**	0.861	0.932	7.7	**30**	IN	**14DFB**
Tetrachloroethene (PCE)	2993595	**4.630**	0.826	0.736	-12.3	**30**	IN	**14DFB**
Chlorobenzene	6496637	**8.650**	0.974	1.009	3.5	**30**	IN	**d5CB**
1,1,1,2-Tetrachloroethane	1715572	**4.290**	0.518	0.429	-21.0	**30**	IN	**d5CB**
Ethylbenzene	13743200	**9.290**	1.918	1.781	-7.7	**30**	IN	**d5CB**
m,p-Xylenes	11449947	**9.310**	1.594	1.591	-0.2	**30**	IN	**d5CB**
Nonane	5065830	**4.930**	1.332	1.278	-4.2	**30**	IN	**d5CB**
Styrene	7962423	**9.100**	1.134	1.106	-2.6	**30**	IN	**d5CB**
Bromoform	1996609	**2.780**	0.931	0.671	-38.7	**40**	IN	**d5CB**
o-Xylene	11264799	**9.050**	1.614	1.662	2.9	**30**	IN	**d5CB**
1,1,2,2-Tetrachloroethane	5081195	**4.710**	1.398	1.356	-3.1	**30**	IN	**d5CB**
1,2,3-Trichloropropane	1458791	**5.100**	0.371	0.366	-1.2	**30**	IN	**d5CB**
t-1,4-Dichloro-2-butene	670139	**5.770**	0.151	0.169	10.8	**40**	IN	**d5CB**
n-Propylbenzene	14018521	**6.420**	2.831	3.012	6.0	**30**	IN	**d5CB**
Isopropylbenzene	9923119	**6.490**	1.982	3.234	38.7	**30**	OUT	**d5CB**
4-Ethyltoluene	17337849	**15.540**	1.446	2.169	33.3	**30**	OUT	**d5CB**
1,3,5-Trimethylbenzene	12621486	**9.080**	1.802	1.952	7.7	**30**	IN	**d5CB**
Decane	7149738	**5.250**	1.765	2.327	24.1	**30**	IN	**d5CB**
tert-butyl benzene	6703137	**5.730**	1.516	2.295	33.9	**40**	IN	**d5CB**

Compound	Area Astdi	Cal Level Cstdi ppbv	CCRRFi	ICALRF AvgRFn	%Dev	%Dev Limit	%Dev Flag	Quant IS
1,2,4-Trimethylbenzene	9976601	**8.930**	1.448	2.061	29.7	**30**	IN	**d5CB**
i-Butylbenzene	12535886	**5.690**	2.856	2.908	1.8	**40**	IN	**d5CB**
sec-butylbenzene	12660385	**6.040**	2.717	3.135	13.3	**40**	IN	**d5CB**
1,3-Dichlorobenzene	6147970	**7.050**	1.130	1.314	14.0	**40**	IN	**d5CB**
Isopropyltoluene	8941202	**5.970**	1.941	2.915	33.4	**40**	IN	**d5CB**
Benzyl chloride	4312262	**6.280**	0.890	1.033	13.8	**40**	IN	**d5CB**
1,4-Dichlorobenzene	4422239	**6.580**	0.871	1.196	27.1	**40**	IN	**d5CB**
n-Butylbenzene	9953443	**5.600**	2.304	3.264	29.4	**40**	IN	**d5CB**
1,2-Dichlorobenzene	5794981	**6.492**	1.157	1.531	24.4	**40**	IN	**d5CB**
1,2-Dibromo-3-chloropropane	519248	**6.280**	0.107	0.307	65.1	**50**	OUT	**d5CB**
1,2,4-Trichlorobenzene	53270	**3.910**	0.018	0.098	82.0	**50**	OUT	**d5CB**
Naphthalene	48242	**1.530**	0.041	0.103	60.3	**50**	OUT	**d5CB**
1,2,3-Trichlorobenzene	20022	**4.910**	0.005	0.015	64.6	**50**	OUT	**d5CB**
Hexachlorobutadiene	1356946	**2.520**	0.698	1.138	38.7	**50**	IN	**d5CB**
Pentafluorobenzene	13221154	**20.000**		0.000				
1,4-Difluorobenzene	15648315	**20.000**		0.000				
Chlorobenzene-d5	15428315	**20.000**		0.000				
Toluene-d8	9439672	**10.000**		0.000				

QUANTITATION REPORT

EPA Method TO-15 Modified Full Scan GC/MS

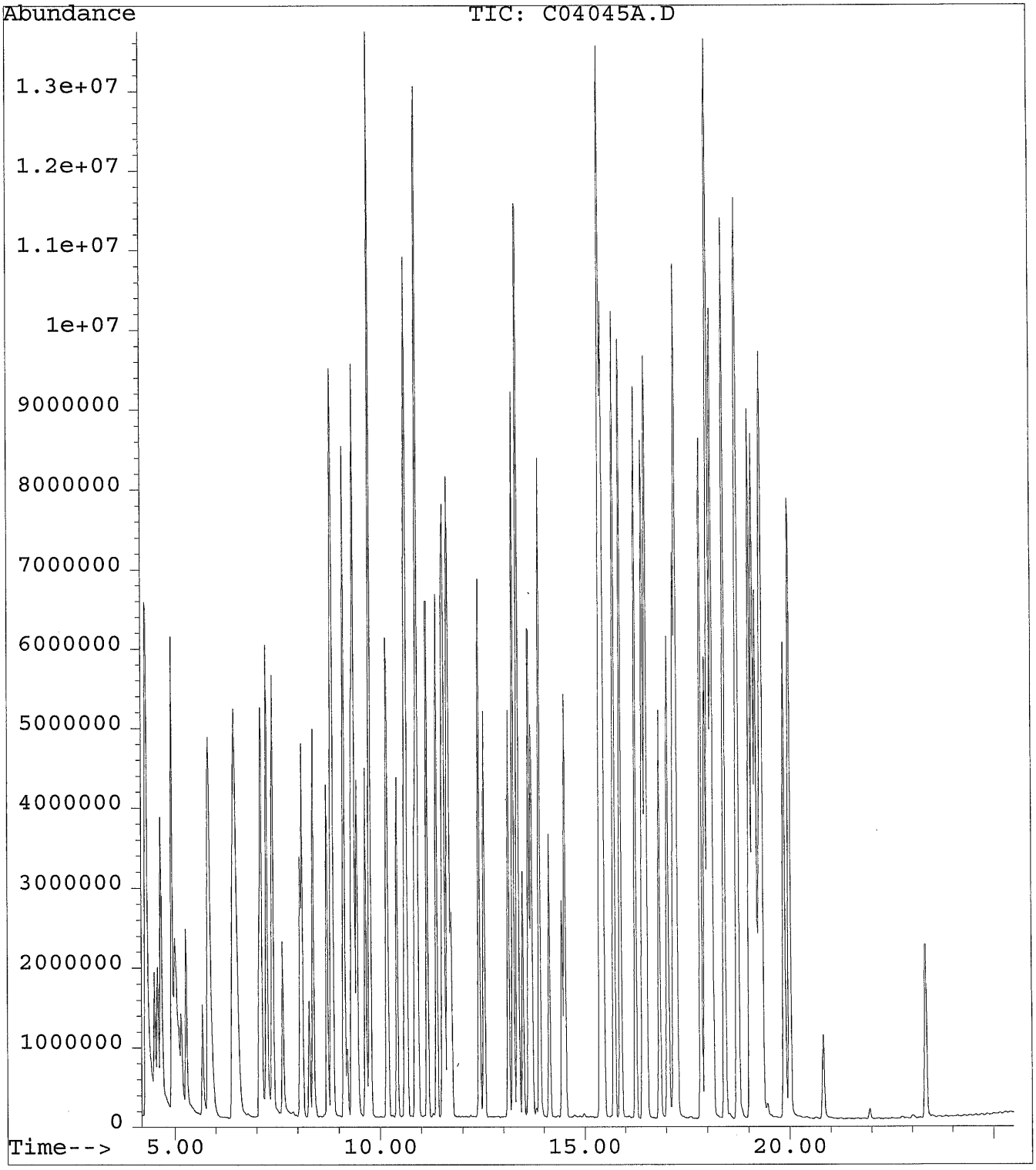
				SDG:	**LABQC**		
				EAS ID:	**C04045A**		
File Name:	C04045A.D	**Method:**	**TO-15**	**Date Sampled:**	**NA**	**Time:**	**NA**
Sample ID:	ST62126	**Matrix:**	**AA**	**Date Received:**	**NA**	**Time:**	**NA**
MiscInfo-Vol:		**Detect:**	**ND**	**Date Analyzed:**	**04/04/25**	**Time:**	**7:26**
Anal Date:	4 Apr 125 7:26 am	**SF:**	**2**	**QCbatch:**	**040425-MA1**		
Quant Method:	A15CS2_P.M	**MDLSF:**	**2**	**Volume:**	**200.0**		
Run Method:	A1563_P.M	**Type:**	**TRG**	**Can (Vial) No:**	**NA**		
Cal Update:	Fri Mar 28 11:07:25 2025	**Instrument:**	**MA1**	**Can Factor:**	**1.00**		
Instrument:	5970 - MS	**EDD SURR:**	**PERCENT**	**SamType:**	**SA**		
Analyst:	MM	**UnitDil:**	**1000**	PPBV			
Template:	**A15CHIQ.MA1**	**MDL FAC**	**1**	UG/M3			
Temp	**24.5**	**EFLAG:**	**1.5**				

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
115-07-1	Propylene	2	TRG	6.720	4.41	42.00	1093025
75-71-8	Dichlorodifluoromethane	3	TRG	7.333	4.48	85.00	5376858
67-56-1	Methanol	4	TRG	11.292	4.86	31.00	8208095
74-87-3	Chloromethane	5	TRG	6.839	4.77	50.00	1766977
76-14-2	1,2-Dichlorotetrafluoroetha	6	TRG	7.431	4.77	85.00	4410944
75-01-4	Vinyl chloride	7	TRG	6.830	5.02	62.00	1756724
106-99-0	1,3-Butadiene	8	TRG	7.056	5.14	54.00	1583386
74-83-9	Bromomethane	9	TRG	8.160	5.56	94.00	1714794
75-00-3	Chloroethane	10	TRG	7.600	5.72	64.00	966912
64-17-5	Ethanol	11	TRG	21.851	5.72	46.00	2055108
107-02-8	Acrolein	12	TRG	10.711	6.32	56.00	917845
75-69-4	Trichlorofluoromethane	13	TRG	7.593	6.38	101.00	3697124
67-64-1	Acetone	14	TRG	8.938	6.42	58.00	1409106
67-63-0	2-propanol (isopropylalcoh	15	TRG	9.895	6.45	45.00	6511612
75-65-0	t-Butyl alcohol	16	TRG	7.760	7.03	59.00	4668402
4227-95-6	Methyl iodide	17	TRG	2.705	7.19	142.00	1339603
75-35-4	1,1-Dichloroethene	18	TRG	6.528	7.07	61.00	2902762
107-13-1	Acrylonitrile	19	TRG	8.317	7.07	53.00	1822881
76-13-1	1,1,2-Trichlorotrifluoroetha	20	TRG	8.474	7.21	151.00	2535038
107-05-1	Allyl chloride	21	TRG	7.888	7.37	76.00	898899
75-09-2	Methylene chloride	22	TRG	0.466	7.35	84.00	73602
75-15-0	Carbon disulfide	23	TRG	7.849	7.61	76.00	4581968
156-60-5	trans-1,2-Dichloroethene	24	TRG	7.017	8.06	96.00	1549400
1634-04-4	Methyl tert butyl ether	25	TRG	6.645	8.11	73.00	4855545
107-12-0	Propionitrile	26	TRG	9.740	8.31	54.00	2105856
75-34-3	1,1-Dichloroethane	27	TRG	7.502	8.41	63.00	3945405
637-92-3	Ethyl tert butyl ether	28	TRG	5.103	9.40	59.00	4410400
108-05-4	Vinyl acetate	29	TRG	8.582	8.39	43.00	4239205
78-93-3	2-Butanone (MEK)	30	TRG	10.036	8.75	72.00	1325794
108-20-3	Diisopropyl ether	31	TRG	4.942	8.90	87.00	881984
110-54-3	Hexane	32	TRG	6.808	8.86	57.00	3326340
126-98-7	Methacrylonitrile	33	TRG	9.143	8.88	67.00	1325554
141-78-6	Ethyl acetate	34	TRG	8.379	9.17	61.00	4272301
74-97-5	Bromochloromethane	35	TRG	4.766	9.43	49.00	2528360

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
96-33-3	Methyl acrylate	36	TRG	4.601	9.25	55.00	1511608
109-99-9	Tetrahydrofuran	37	TRG	9.012	9.72	72.00	1270580
78-83-1	Isobutyl alcohol	38	TRG	4.671	9.51	74.00	248984
156-59-2	cis-1,2-Dichloroethene	39	TRG	9.183	9.16	96.00	2273238
594-20-7	2,2-Dichloropropane	40	TRG	8.125	9.37	77.00	4158241
67-66-3	Chloroform	41	TRG	8.457	9.42	83.00	**3996942**
71-55-6	1,1,1-Trichloroethane	43	TRG	8.090	10.24	97.00	4162033
107-06-2	1,2-Dichloroethane	44	TRG	7.456	10.27	61.95	3497389
563-58-6	1,1-Dichloropropene	45	TRG	6.308	10.50	75.00	2707663
110-82-7	Cyclohexane	46	TRG	7.327	10.74	56.00	3400812
71-43-2	Benzene	47	TRG	8.594	10.70	78.00	7218701
56-23-5	Carbon tetrachloride	48	TRG	11.439	10.73	116.90	3908005
994-05-8	t-Amyl methyl ether	49	TRG	3.618	10.95	73.00	4023073
540-84-1	2,2,4-Trimethylpentane	50	TRG	5.286	11.25	57.00	8331135
142-82-5	n-Heptane	51	TRG	5.686	11.48	71.00	1755231
78-87-5	1,2-Dichloropropane	52	TRG	8.070	11.64	63.00	2929055
123-91-1	1,4 Dioxane	53	TRG	14.748	11.79	88.00	3433289
74-95-3	Dibromomethane	54	TRG	5.042	11.75	174.00	1842802
79-01-6	Trichloroethene (TCE)	55	TRG	8.677	10.70	130.00	3303962
75-27-4	Bromodichloromethane	56	TRG	4.301	11.85	83.00	2298287
80-62-6	Methyl methacrylate	57	TRG	7.079	11.76	69.00	2040770
108-10-1	4-Methyl-2-pentanone (MI	58	TRG	6.575	12.55	58.00	2626162
10061-01-5	cis-1,3-Dichloropropene	59	TRG	9.020	12.67	75.00	**4123841**
108-88-3	Toluene	61	TRG	7.349	13.50	91.00	8627119
10061-02-6	trans-1,3-Dichloropropene	62	TRG	9.092	13.28	75.00	4173941
79-00-5	1,1,2-Trichloroethane	63	TRG	7.113	13.52	61.00	2076636
97-63-2	Ethyl methacrylate	64	TRG	4.150	13.63	69.00	2272262
591-78-6	2-Hexanone	65	TRG	5.499	13.79	58.00	3663941
142-28-9	1,3-Dichloropropane	66	TRG	6.001	13.86	76.00	4120250
111-65-9	Octane	67	TRG	5.073	14.04	85.00	2352661
124-48-1	Dibromochloromethane	68	TRG	5.281	14.30	129.00	3106682
106-93-4	1,2-Dibromoethane (EDB)	69	TRG	4.257	14.62	107.00	3103963
127-18-4	Tetrachloroethene (PCE)	70	TRG	5.198	14.69	166.00	2993595
108-90-7	Chlorobenzene	72	TRG	8.350	15.62	112.00	6496637
630-20-6	1,1,1,2-Tetrachloroethane	73	TRG	5.190	15.64	131.00	1715572
100-41-4	Ethylbenzene	74	TRG	10.006	15.90	106	13743200
1330-20-7	m,p-Xylenes	75	TRG	9.331	16.06	91.00	11449947
111-84-2	Nonane	76	TRG	5.138	16.43	57.00	5065830
100-42-5	Styrene	77	TRG	9.337	16.61	104.00	7962423
75-25-2	Bromoform	78	TRG	3.856	16.67	173.00	1996609
95-47-6	o-Xylene	79	TRG	8.787	16.54	91.00	11264799
79-34-5	1,1,2,2-Tetrachloroethane	80	TRG	4.857	17.02	83.00	5081195
96-18-4	1,2,3-Trichloropropane	81	TRG	5.162	17.22	110.00	1458791
110-57-6	t-1,4-Dichloro-2-butene	82	TRG	5.145	17.24	53.00	670139
103-65-1	n-Propylbenzene	83	TRG	6.033	18.04	91.00	14018521
98-82-8	Isopropylbenzene	84	TRG	3.978	18.23	105.00	9923119
622-96-8	4-Ethyltoluene	85	TRG	10.364	18.23	105.00	17337849
108-67-8	1,3,5-Trimethylbenzene	86	TRG	8.384	18.31	105.00	12621486
124-18-5	Decane	87	TRG	3.983	18.60	57.00	7149738
98-06-6	tert-butyl benzene	88	TRG	3.786	18.93	119.00	6703137

CAS#	Compound	n	Type	Raw Amount	Target RT	Ion	Sample Area
95-63-6	1,2,4-Trimethylbenzene	89	TRG	6.275	18.95	105.00	9976601
538-93-2	i-Butylbenzene	90	TRG	5.589	19.24	91.00	12535886
135-98-8	sec-butylbenzene	91	TRG	5.235	19.32	105.00	12660385
541-73-1	1,3-Dichlorobenzene	92	TRG	6.066	19.39	146.00	6147970
99-87-6	Isopropyltoluene	93	TRG	3.977	19.53	119.00	8941202
100-44-7	Benzyl chloride	94	TRG	5.413	19.46	91.00	4312262
106-46-7	1,4-Dichlorobenzene	95	TRG	4.795	19.39	146.00	4422239
104-51-8	n-Butylbenzene	96	TRG	3.953	20.20	91.00	9953443
95-50-1	1,2-Dichlorobenzene	97	TRG	4.908	20.07	146.00	5794981
96-12-8	1,2-Dibromo-3-chloropropa	98	TRG	2.191	21.02	75.00	519248
120-82-1	1,2,4-Trichlorobenzene	99	TRG	0.705	22.95	180.00	53270
91-20-3	Naphthalene	100	TRG	0.608	23.23	128.00	48242
87-61-6	1,2,3-Trichlorobenzene	101	TRG	1.738	23.71	180.00	20022
87-68-3	Hexachlorobutadiene	102	TRG	1.546	23.34	225.00	1356946
363-72-4	Pentafluorobenzene	1	IS	20.000	9.82	168.00	**13221154**
540-36-3	1,4-Difluorobenzene	42	IS	20.000	11.00	114.00	**15648315**
3114-55-4	Chlorobenzene-d5	71	IS	20.000	15.57	117.00	**15428315**
2037-26-5	Toluene-d8	103	SURR	9.813	13.40	98.00	**9439672**

File : C:\MSCHEM\1\DATA\04045A_C\C04045A.D
Operator : MM
Acquired : 4 Apr 125 7:26 am using AcqMethod A1563_P.M
Instrument : 5970 - MS
Sample Name: ST62126
Misc Info :
Vial Number: 1



Initial Calibration Data Packages

Samples were analyzed using the methods listed in Section 3. For each of the methods there is an Initial Calibration Curve that meets the criteria defined in Section 2 on Quality Control for the modified method.

Index

Response Factors
Instrument Quant Report
Chromatogram

Response Factor Report 5970 - MS

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 10:31:20 2025
Response via : Initial Calibration

Calibration Files
0.25 =C03275B.D 1.0 =C03275D.D 2.0 =C03275E.D
5.0 =C03275F.D 10.0 =C03275G.D 20.0 =C03275H.D

		Compound	0.25	1.0	2.0	5.0	10.0	20.0	Avg	%RSD
1)	I	Pentafluorobenzene	ISTD							
2)	T	Propylene	0.324	0.240	0.236	0.211	0.261	0.204	0.246	17.64
3)	T	Dichlorodifluoromet	0.971	1.124	1.153	1.055	1.346	1.006	1.109	12.14
4)	T	Methanol	1.113	1.141	1.198	1.365	1.009	0.772	1.100	18.06
5)	T	Chloromethane		0.387	0.406	0.367	0.463	0.331	0.391	12.52
6)	T	1,2-Dichlorotetrafl		0.891	0.941	0.870	1.045	0.743	0.898	12.23
7)	T	Vinyl chloride	0.377	0.368	0.415	0.385	0.460	0.330	0.389	11.35
8)	T	1,3-Butadiene	0.293	0.348	0.372	0.344	0.383	0.297	0.339	11.01
9)	T	Bromomethane		0.276	0.346	0.302	0.356	0.310	0.318	10.33
10)	T	Chloroethane	0.151	0.210	0.211	0.185	0.211	0.188	0.192	12.28
11)	T	Ethanol	0.135	0.052	0.134	0.236	0.104	0.118	0.130	46.45
12)	T	Acrolein	0.135	0.128	0.118	0.140	0.137	0.120	0.130	6.98
13)	T	Trichlorofluorometh		0.731	0.755	0.700	0.796	0.701	0.737	5.49
14)	T	Acetone	0.381	0.232	0.202	0.217	0.206	0.193	0.238	29.85
15)	T	2-propanol (isoprop		0.650	0.614	1.809	1.100	1.082	1.051	45.88
16)	T	t-Butyl alcohol	0.976	0.675	0.579	1.263	0.998	0.969	0.910	27.13
17)	T	Methyl iodide		0.654	0.789	0.758	0.859	0.687	0.749	10.89
18)	T	1,1-Dichloroethene	0.759	0.639	0.710	0.643	0.689	0.596	0.673	8.66
19)	T	Acrylonitrile	0.406	0.259	0.277	0.370	0.352	0.324	0.332	16.98
20)	T	1,1,2-Trichlorotrif		0.439	0.469	0.426	0.492	0.437	0.453	5.98
21)	T	Allyl chloride	0.190	0.169	0.189	0.165	0.179	0.141	0.172	10.55
22)	T	Methylene chloride	0.260	0.260	0.247	0.207	0.261	0.200	0.239	11.77
23)	T	Carbon disulfide		0.834	0.903	0.833	0.994	0.851	0.883	7.76
24)	T	trans-1,2-Dichloroe	0.340	0.345	0.335	0.323	0.338	0.322	0.334	2.76
25)	T	Methyl tert butyl e	1.073	1.073	1.102	1.109	1.153	1.122	1.105	2.76
26)	T	Propionitrile	0.306	0.270	0.285	0.440	0.339	0.323	0.327	18.51
27)	T	1,1-Dichloroethane	0.761	0.809	0.819	0.765	0.811	0.808	0.796	3.20
28)	T	Ethyl tert butyl et	1.200	1.319	1.312	1.397	1.341	1.276	1.308	5.05
29)	T	Vinyl acetate	0.515	0.521	0.649	0.839	0.979	0.981	0.747	28.81
30)	T	2-Butanone (MEK)	0.131	0.192	0.206	0.239	0.217	0.214	0.200	18.62
31)	T	Diisopropyl ether		0.255	0.270	0.280	0.276	0.269	0.270	3.57
32)	T	Hexane		0.854	0.736	0.655	0.768	0.684	0.739	10.49
33)	T	Methacrylonitrile	0.214	0.196	0.202	0.252	0.232	0.221	0.219	9.42
34)	T	Ethyl acetate	0.675	0.753	0.724	0.827	0.817	0.832	0.771	8.38
35)	T	Bromochloromethane	0.668	0.809	0.827	0.850	0.854	0.808	0.803	8.59
36)	T	Methyl acrylate	0.293	0.391	0.439	0.586	0.616	0.657	0.497	28.99
37)	T	Tetrahydrofuran	0.177	0.208	0.203	0.269	0.210	0.213	0.213	14.15
38)	T	Isobutyl alcohol	0.097		0.073	0.120	0.057	0.057	0.081	33.96
39)	T	cis-1,2-Dichloroeth	0.345	0.384	0.371	0.377	0.388	0.382	0.374	4.16
40)	T	2,2-Dichloropropane	0.692	0.788	0.770	0.768	0.813	0.814	0.774	5.78
41)	T	Chloroform	0.634	0.742	0.724	0.729	0.759	0.702	0.715	6.14
42)	I	1,4-Difluorobenzene	ISTD							
43)	T	1,1,1-Trichloroetha	0.570	0.656	0.644	0.671	0.690	0.715	0.658	7.54
44)	T	1,2-Dichloroethane	0.549	0.579	0.555	0.615	0.634	0.666	0.600	7.73
45)	T	1,1-Dichloropropene	0.498	0.549	0.525	0.566	0.564	0.589	0.549	5.92
46)	T	Cyclohexane	0.517	0.640	0.595	0.597	0.627	0.583	0.593	7.23
47)	T	Benzene		1.244	1.011	1.069	1.035	1.008	1.074	9.16
48)	T	Carbon tetrachlorid	0.221	0.344	0.384	0.509	0.590	0.572	0.437	33.16

49)	T	t-Amyl methyl ether		1.730	1.432	1.364	1.280	1.300	1.421	12.85
50)	T	2,2,4-Trimethylpent	1.814	2.179	1.989	1.986	2.020	2.098	2.015	6.12
51)	T	n-Heptane	0.363	0.416	0.384	0.390	0.392	0.422	0.395	5.52
52)	T	1,2-Dichloropropane	0.405	0.474	0.480	0.481	0.474	0.469	0.464	6.31
53)	T	1,4 Dioxane	0.267	0.275	0.267	0.431	0.276	0.270	0.298	21.97
54)	T	Dibromomethane	0.401	0.431	0.432	0.502	0.515	0.520	0.467	11.02
55)	T	Trichloroethene (TC	0.503	0.514	0.457	0.494	0.486	0.465	0.487	4.55
56)	T	Bromodichloromethan	0.447	0.576	0.619	0.757	0.800	0.898	0.683	24.21
57)	T	Methyl methacrylate	0.286	0.312	0.362	0.425	0.412	0.414	0.368	15.92
58)	T	4-Methyl-2-pentanon	0.489	0.470	0.481	0.630	0.480	0.512	0.510	11.78
59)	T	cis-1,3-Dichloropro	0.392	0.495	0.537	0.655	0.664	0.763	0.584	23.04
60)	S	Toluene-d8	1.253	1.215	1.227	1.196	1.225	1.260	1.230	1.94
61)	T	Toluene		1.553	1.500	1.628	1.490	1.330	1.500	7.31
62)	T	trans-1,3-Dichlorop	0.390	0.434	0.487	0.673	0.710	0.825	0.587	29.65
63)	T	1,1,2-Trichloroetha	0.327	0.401	0.369	0.413	0.368	0.361	0.373	8.27
64)	T	Ethyl methacrylate		0.552	0.641	0.775	0.715	0.816	0.700	15.11
65)	T	2-Hexanone	0.888	0.693	0.752	1.139	0.784	0.852	0.852	18.47
66)	T	1,3-Dichloropropane	0.774	0.872	0.846	0.939	0.879	0.956	0.878	7.50
67)	T	Octane	0.501	0.600	0.610	0.584	0.622	0.639	0.593	8.22
68)	T	Dibromochloromethan	0.375	0.598	0.656	0.878	0.951	1.054	0.752	33.74
69)	T	1,2-Dibromoethane (	0.739	0.868	0.858	1.019	1.007	1.100	0.932	14.24
70)	T	Tetrachloroethene (	0.572	0.753	0.730	0.766	0.786	0.809	0.736	11.50
71)	IS	Chlorobenzene-d5		----------ISTD----------						
72)	T	Chlorobenzene	0.950	1.096	1.074	1.161	0.969	0.802	1.009	12.78
73)	T	1,1,1,2-Tetrachloro	0.255	0.400	0.459	0.543	0.480	0.434	0.429	22.75
74)	T	Ethylbenzene	1.635	2.003	1.955	2.034	1.726	1.329	1.781	15.33
75)	T	m,p-Xylenes	1.525	1.729	1.789	1.748	1.527	1.225	1.591	13.35
76)	T	Nonane	1.197	1.437	1.391	1.249	1.269	1.127	1.278	9.15
77)	T	Styrene	1.041	1.013	1.153	1.271	1.153	1.001	1.106	9.52
78)	T	Bromoform	0.433	0.534	0.589	0.801	0.843	0.829	0.671	26.12
79)	T	o-Xylene	1.577	1.772	1.816	1.878	1.631	1.298	1.662	12.71
80)	T	1,1,2,2-Tetrachloro	1.382	1.212	1.343	1.500	1.415	1.287	1.356	7.43
81)	T	1,2,3-Trichloroprop	0.349	0.350	0.374	0.421	0.374	0.330	0.366	8.63
82)	T	t-1,4-Dichloro-2-bu		0.106	0.139	0.195	0.203	0.202	0.169	26.08
83)	T	n-Propylbenzene	2.864	3.297	3.584	3.260	3.022	2.048	3.012	17.70
84)	T	Isopropylbenzene	3.657	3.529	3.908	3.592	2.844	1.871	3.234	23.38
85)	T	4-Ethyltoluene	2.127	2.234	3.162	2.652	1.662	1.175	2.169	32.42
86)	T	1,3,5-Trimethylbenz	1.765	1.690	2.618	2.314	1.933	1.389	1.952	22.85
87)	T	Decane	2.531	2.467	2.818	2.429	2.150	1.566	2.327	18.46
88)	T	tert-butyl benzene	2.422	2.590	2.902	2.496	1.974	1.387	2.295	23.38
89)	T	1,2,4-Trimethylbenz	1.734	1.721	2.852	2.622	2.069	1.367	2.061	27.84
90)	T	i-Butylbenzene	2.122	2.887	3.617	3.316	3.014	2.491	2.908	18.67
91)	T	sec-butylbenzene	2.414	2.589	4.320	3.907	3.367	2.214	3.135	27.52
92)	T	1,3-Dichlorobenzene	1.346	1.048		1.603	1.513	1.060	1.314	19.39
93)	T	Isopropyltoluene	3.360	3.144	3.575	3.202	2.559	1.648	2.915	24.26
94)	T	Benzyl chloride	0.884	0.496	0.804	1.242	1.514	1.257	1.033	35.92
95)	T	1,4-Dichlorobenzene	1.351	0.976	1.256	1.470	1.325	0.796	1.196	21.43
96)	T	n-Butylbenzene	3.991	3.012	3.544	3.659	3.227	2.151	3.264	19.70
97)	T	1,2-Dichlorobenzene	1.700	1.017	1.369	1.975	1.864	1.259	1.531	24.47
98)	T	1,2-Dibromo-3-chlor		0.088	0.147	0.391	0.613	0.297	0.307	68.03
99)	T	1,2,4-Trichlorobenz	0.121	0.034	0.027	0.078	0.319		0.116	103.27
100)	T	Naphthalene	0.141	0.071	0.053	0.063	0.192		0.104	57.80
101)	T	1,2,3-Trichlorobenz	0.008	0.007	0.002	0.005	0.029		0.010	102.39
102)	T	Hexachlorobutadiene		0.613	0.771	1.608	1.974	0.724	1.138	53.83

(#) = Out of Range

A15CS2_P.M Fri Mar 28 10:31:27 2025

Daily Analytical Batch

DAB: 032725-MSA

MSA

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
032725-MSA	01	MSA	STD			C03275A		ST62126		0.25	MM		A1563_O			
032725-MSA	02	MSA	STD			C03275B		ST62126		0.25	MM		A1563_O			
032725-MSA	03	MSA	STD			C03275C		ST62126		0.25	MM		A1563_O			
032725-MSA	04	MSA	STD			C03275D		ST62126		1	MM		A1563_O			
032725-MSA	05	MSA	STD			C03275E		ST62126		2	MM		A1563_O			
032725-MSA	06	MSA	STD			C03275F		ST62126		5	MM		A1563_O			
032725-MSA	07	MSA	STD			C03275G		ST62126		10	MM		A1563_O			
032725-MSA	08	MSA	STD			C03275H		ST62126		20	MM		A1563_O			
032725-MSA	09	MSA	STD			C03275I		ST62125		10	SS		A1563_O	SECONDARY		
032725-MSA	10	MSA	STD			C03275J		ST62125		10	SS		A1563_O			
032725-MSA	11	MSA	STD			QC03275A		ST63255		5	SS		A1563_O			
032725-MSA	12	MSA	STD			QC03275B		ST63255		5	SS		A1563_O			
032725-MSA	13	MSA	STD			QC03275C		ST63255		5	SS		A1563_O			
032725-MSA	14	MSA	STD			QC03275D		ST63255		5	SS		A1563_O			
032725-MSA	15	MSA	STD			QC03275E		ST63255		5	SS		A1563_O			

REVIEWED

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275B.D
Acq Time : 27 Mar 125 7:51 am
Sample : ST62126
Misc : 0.25 ML
Quant Time: Mar 28 10:33 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min
1) Pentafluorobenzene	9.78	168	10619989	20.00	ppbV	-0.04
42) 1,4-Difluorobenzene	10.92	114	13200694	20.00	ppbV	-0.08
71) Chlorobenzene-d5	15.41	117	15915638	20.00	ppbV	-0.16
System Monitoring Compounds						%Recovery
60) Toluene-d8	13.26	98	8270691	10.19	ppbV	101.93
Target Compounds						Qvalue
2) Propylene	4.55	42	41320	0.35	ppbV m	98
3) Dichlorodifluoromethane	4.62	85	122747	0.24	ppbV m	98
4) Methanol	5.17	31	231654	0.55	ppbV m	97
5) Chloromethane	4.89	50	43788	0.21	ppbV m	55
6) 1,2-Dichlorotetrafluoroeth	4.91	85	85874	0.18	ppbV m	53
7) Vinyl chloride	5.13	62	47703	0.24	ppbV m	89
8) 1,3-Butadiene	5.25	54	37020	0.21	ppbV m	69
9) Bromomethane	5.66	94	35543	0.23	ppbV m	92
10) Chloroethane	5.81	64	19030	0.20	ppbV m	86
11) Ethanol	5.98	46	57516	0.88	ppbV m	71
12) Acrolein	6.41	56	24624	0.38	ppbV m	82
13) Trichlorofluoromethane	6.45	101	80690	0.22	ppbV m	100
14) Acetone	6.53	58	64759	0.57	ppbV m	67
15) 2-propanol (isopropylalcoh	6.65	45	212278	0.43	ppbV m	100
16) t-Butyl alcohol	7.16	59	118136	0.26	ppbV m	83
17) Methyl iodide	7.23	142	25361	0.07	ppbV m	94
18) 1,1-Dichloroethene	7.11	61	87435	0.25	ppbV m	97
19) Acrylonitrile	7.15	53	56972	0.35	ppbV m	93
20) 1,1,2-Trichlorotrifluoroet	7.25	151	48048	0.21	ppbV m	94
21) Allyl chloride	7.42	76	25217	0.29	ppbV m	85
22) Methylene chloride	7.39	84	31603	0.27	ppbV m	97
23) Carbon disulfide	7.64	76	117320	0.27	ppbV m	96
24) trans-1,2-Dichloroethene	8.09	96	33786	0.20	ppbV m	77
25) Methyl tert butyl ether	8.14	73	108863	0.20	ppbV m	94
26) Propionitrile	8.34	54	52829	0.34	ppbV m	92
27) 1,1-Dichloroethane	8.39	63	88467	0.22	ppbV m	92
28) Ethyl tert butyl ether	9.38	59	96202	0.15	ppbV m	98
29) Vinyl acetate	8.41	43	62300	0.17	ppbV m	61
30) 2-Butanone (MEK)	8.77	72	18315	0.18	ppbV m	46
31) Diisopropyl ether	8.89	87	16919	0.12	ppbV m	85
32) Hexane	8.84	57	64093	0.18	ppbV m	14
33) Methacrylonitrile	8.89	67	28232	0.26	ppbV m	96
34) Ethyl acetate	9.15	61	81330	0.21	ppbV m	68
35) Bromochloromethane	9.38	49	48921	0.14	ppbV m	93
36) Methyl acrylate	9.25	55	19143	0.08	ppbV m	68

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275B.D
Acq Time : 27 Mar 125 7:51 am
Sample : ST62126
Misc : 0.25 ML
Quant Time: Mar 28 10:33 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37) Tetrahydrofuran	9.71	72	25338	0.25	ppbV	m	93
38) Isobutyl alcohol	9.50	74	9777	0.21	ppbV	m	88
39) cis-1,2-Dichloroethene	9.15	96	43246	0.23	ppbV	m	67
40) 2,2-Dichloropropane	9.33	77	84908	0.23	ppbV	m	99
41) Chloroform	9.38	83	80133	0.23	ppbV	m	95
43) 1,1,1-Trichloroethane	10.19	97	79438	0.20	ppbV	m	98
44) 1,2-Dichloroethane	10.22	62	78631	0.21	ppbV	m	99
45) 1,1-Dichloropropene	10.44	75	56182	0.17	ppbV	m	98
46) Cyclohexane	10.66	56	67608	0.18	ppbV	m	96
47) Benzene	10.63	78	290195	0.44	ppbV	m	92
48) Carbon tetrachloride	10.66	117	32799	0.12	ppbV	m	99
49) t-Amyl methyl ether	10.92	73	195137	0.22	ppbV	m	56
50) 2,2,4-Trimethylpentane	11.16	57	168815	0.13	ppbV	m	92
51) n-Heptane	11.38	71	37573	0.15	ppbV	m	96
52) 1,2-Dichloropropane	11.54	63	61180	0.21	ppbV	m	96
53) 1,4 Dioxane	11.74	88	77564	0.40	ppbV	m	99
54) Dibromomethane	11.66	174	25957	0.09	ppbV	m	70
55) Trichloroethene (TCE)	11.57	130	73420	0.24	ppbV	m	95
56) Bromodichloromethane	11.76	83	30685	0.07	ppbV	m	82
57) Methyl methacrylate	11.69	69	32999	0.15	ppbV	m	80
58) 4-Methyl-2-pentanone (MIBK	12.44	58	62972	0.20	ppbV	m	92
59) cis-1,3-Dichloropropene	12.56	75	58972	0.16	ppbV	m	99
61) Toluene	13.38	91	243948	0.25	ppbV	m	95
62) trans-1,3-Dichloropropene	13.16	75	58722	0.16	ppbV	m	93
63) 1,1,2-Trichloroethane	13.40	61	48718	0.20	ppbV	m	79
64) Ethyl methacrylate	13.52	69	41257	0.09	ppbV	m	92
65) 2-Hexanone	13.69	58	108456	0.20	ppbV	m	79
66) 1,3-Dichloropropane	13.74	76	86804	0.15	ppbV	m	97
67) Octane	13.91	85	46618	0.12	ppbV	m	97
68) Dibromochloromethane	14.17	129	33902	0.07	ppbV	m	88
69) 1,2-Dibromoethane (EDB)	14.47	107	56116	0.09	ppbV	m	95
70) Tetrachloroethene (PCE)	14.54	166	43830	0.09	ppbV	m	94
72) Chlorobenzene	15.46	112	164732	0.21	ppbV	m	89
73) 1,1,1,2-Tetrachloroethane	15.48	131	21737	0.06	ppbV	m	92
74) Ethylbenzene	15.75	91	301880	0.22	ppbV	m	93
75) m,p-Xylenes	15.91	91	282852	0.23	ppbV	m	95
76) Nonane	16.26	57	117169	0.12	ppbV	m	93
77) Styrene	16.45	104	188929	0.22	ppbV	m	99
78) Bromoform	16.50	173	24093	0.05	ppbV	m	97
79) o-Xylene	16.54	91	283630	0.22	ppbV	m	96
80) 1,1,2,2-Tetrachloroethane	16.86	83	129754	0.12	ppbV	m	95
81) 1,2,3-Trichloropropane	17.05	110	35537	0.12	ppbV	m	90
82) t-1,4-Dichloro-2-butene	17.08	53	18588	0.14	ppbV	m	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275B.D
Acq Time : 27 Mar 125 7:51 am
Sample : ST62126
Misc : 0.25 ML
Quant Time: Mar 28 10:33 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
83) n-Propylbenzene	17.87	91	364684	0.16	ppbV	m	98
84) Isopropylbenzene	18.77	105	474411	0.18	ppbV	m	96
85) 4-Ethyltoluene	18.06	105	673711	0.46	ppbV	m	95
86) 1,3,5-Trimethylbenzene	18.14	105	320291	0.18	ppbV	m	75
87) Decane	18.43	57	267862	0.15	ppbV	m	96
88) tert-butyl benzene	18.75	119	275633	0.16	ppbV	m	98
89) 1,2,4-Trimethylbenzene	18.77	105	455367	0.28	ppbV	m	96
90) i-Butylbenzene	19.06	91	320793	0.15	ppbV	m	98
91) sec-butylbenzene	19.13	105	461032	0.20	ppbV	m	88
92) 1,3-Dichlorobenzene	19.20	146	188494	0.18	ppbV	m	96
93) Isopropyltoluene	19.35	119	398399	0.17	ppbV	m	97
94) Benzyl chloride	19.28	91	110407	0.15	ppbV	m	91
95) 1,4-Dichlorobenzene	19.32	146	177433	0.17	ppbV	m	96
96) n-Butylbenzene	20.02	91	444580	0.17	ppbV	m	97
97) 1,2-Dichlorobenzene	19.90	146	220563	0.19	ppbV	m	94
98) 1,2-Dibromo-3-chloropropan	20.83	75	38679	0.16	ppbV	m	99
99) 1,2,4-Trichlorobenzene	22.78	180	7870	0.06	ppbV	m	0
100) Naphthalene	23.07	128	4253	0.03	ppbV	m	0
101) 1,2,3-Trichlorobenzene	23.63	180	1781	0.13	ppbV	m	0
102) Hexachlorobutadiene	23.36	225	122667	0.14	ppbV	m	96

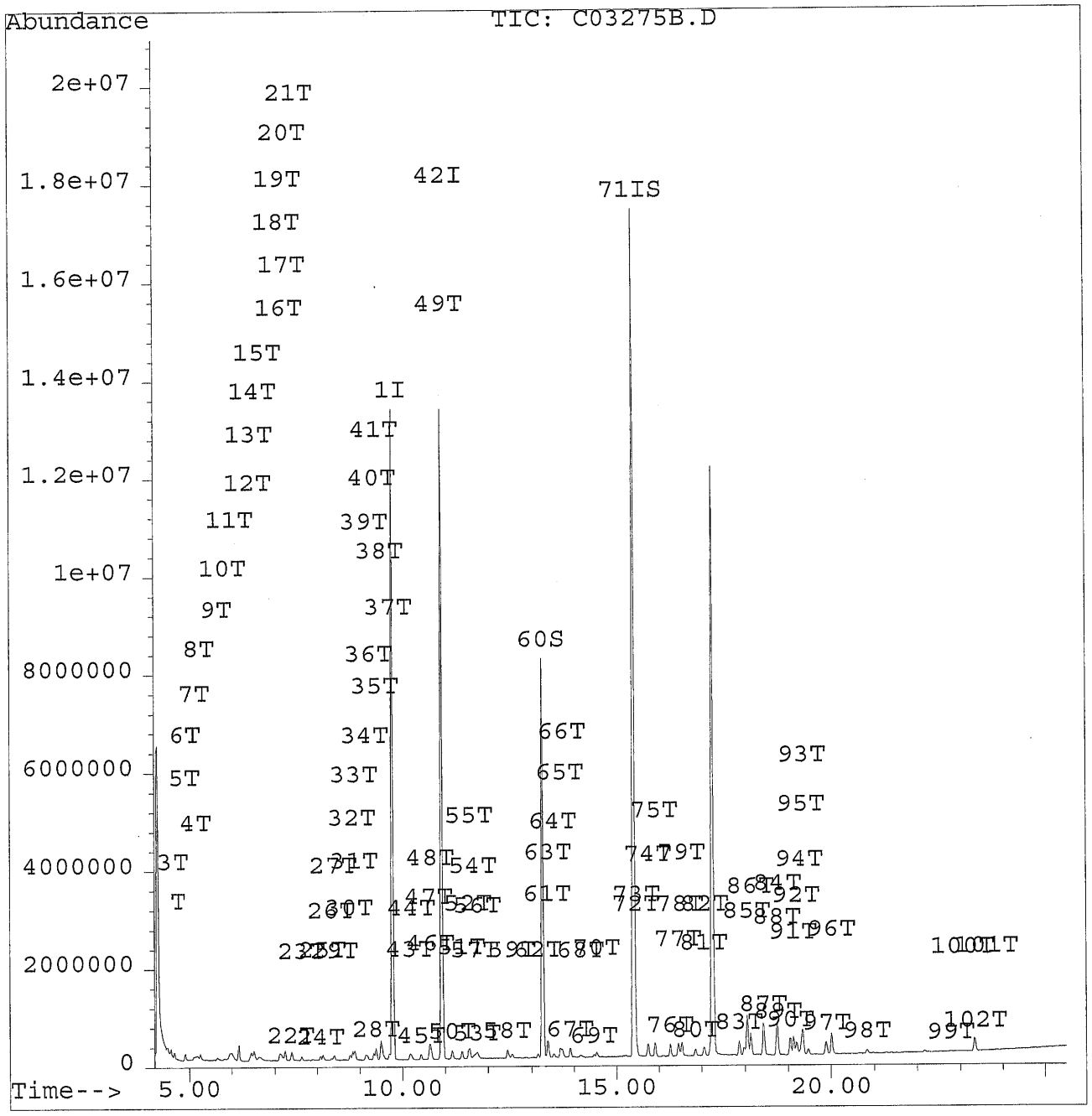
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275B.D
Acq Time : 27 Mar 125 7:51 am
Sample : ST62126
Misc : 0.25 ML
Quant Time: Mar 28 10:33 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275D.D
Acq Time : 27 Mar 125 9:10 am
Sample : ST62126
Misc : 1 ML
Quant Time: Mar 28 10:39 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min
1) Pentafluorobenzene	9.80	168	9658662	20.00	ppbV		-0.03
42) 1,4-Difluorobenzene	10.94	114	12267252	20.00	ppbV		-0.06
71) Chlorobenzene-d5	15.41	117	15649255	20.00	ppbV		-0.16
System Monitoring Compounds							%Recovery
60) Toluene-d8	13.28	98	7455370	9.89	ppbV		98.87
Target Compounds							Qvalue
2) Propylene	4.59	42	110259	1.03	ppbV		95
3) Dichlorodifluoromethane	4.65	85	515851	1.10	ppbV		98
4) Methanol	5.15	31	864901	2.27	ppbV	m	96
5) Chloromethane	4.93	50	177774	0.94	ppbV	m	51
6) 1,2-Dichlorotetrafluoroeth	4.93	85	408557	0.95	ppbV	m	53
7) Vinyl chloride	5.17	62	168873	0.93	ppbV	m	96
8) 1,3-Butadiene	5.29	54	159485	1.02	ppbV	m	99
9) Bromomethane	5.68	94	126618	0.88	ppbV	m	97
10) Chloroethane	5.85	64	96120	1.10	ppbV		96
11) Ethanol	5.83	46	197342	3.34	ppbV	m	90
12) Acrolein	6.45	56	85419	1.46	ppbV		87
13) Trichlorofluoromethane	6.46	101	321217	0.96	ppbV		98
14) Acetone	6.55	58	143492	1.39	ppbV	m	98
15) 2-propanol (isopropylalcoh	6.67	45	386189	0.87	ppbV	m	90
16) t-Butyl alcohol	7.18	59	296571	0.71	ppbV	m	94
17) Methyl iodide	7.25	142	88397	0.25	ppbV	m	95
18) 1,1-Dichloroethene	7.15	61	268538	0.84	ppbV	m	91
19) Acrylonitrile	7.18	53	131425	0.88	ppbV	#	94
20) 1,1,2-Trichlorotrifluoroet	7.28	151	177978	0.86	ppbV		88
21) Allyl chloride	7.44	76	81817	1.03	ppbV	#	35
22) Methylene chloride	7.42	84	115305	1.06	ppbV		97
23) Carbon disulfide	7.66	76	386657	0.97	ppbV		99
24) trans-1,2-Dichloroethene	8.10	96	124843	0.82	ppbV		84
25) Methyl tert butyl ether	8.16	73	393879	0.78	ppbV		97
26) Propionitrile	8.36	54	169351	1.19	ppbV		95
27) 1,1-Dichloroethane	8.43	63	343978	0.95	ppbV		98
28) Ethyl tert butyl ether	9.40	59	382202	0.65	ppbV		99
29) Vinyl acetate	8.43	43	228933	0.70	ppbV	#	67
30) 2-Butanone (MEK)	8.79	72	98425	1.05	ppbV	#	48
31) Diisopropyl ether	8.91	87	66404	0.53	ppbV		95
32) Hexane	8.86	57	317383	0.98	ppbV	#	49
33) Methacrylonitrile	8.91	67	94593	0.97	ppbV		94
34) Ethyl acetate	9.16	61	330821	0.94	ppbV	#	68
35) Bromochloromethane	9.42	49	214935	0.66	ppbV		99
36) Methyl acrylate	9.27	55	92491	0.41	ppbV	#	81

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275D.D
Acq Time : 27 Mar 125 9:10 am
Sample : ST62126
Misc : 1 ML
Quant Time: Mar 28 10:39 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Tetrahydrofuran	9.71	72	108265	1.16	ppbV		98
38)	Isobutyl alcohol	9.52	74	26189	0.62	ppbV	#	87
39)	cis-1,2-Dichloroethene	9.16	96	174379	1.01	ppbV	#	75
40)	2,2-Dichloropropane	9.35	77	350270	1.02	ppbV		96
41)	Chloroform	9.40	83	340296	1.05	ppbV		97
43)	1,1,1-Trichloroethane	10.21	97	337809	0.92	ppbV		94
44)	1,2-Dichloroethane	10.24	62	309003	0.90	ppbV		98
45)	1,1-Dichloropropene	10.44	75	229158	0.72	ppbV		98
46)	Cyclohexane	10.68	56	309902	0.87	ppbV		99
47)	Benzene	10.65	78	679023	1.12	ppbV		99
48)	Carbon tetrachloride	10.68	117	190118	0.73	ppbV		100
49)	t-Amyl methyl ether	10.89	73	488159	0.60	ppbV	#	77
50)	2,2,4-Trimethylpentane	11.18	57	748561	0.63	ppbV		99
51)	n-Heptane	11.40	71	160865	0.69	ppbV		98
52)	1,2-Dichloropropane	11.55	63	267621	0.97	ppbV		94
53)	1,4 Dioxane	11.73	88	294991	1.63	ppbV		97
54)	Dibromomethane	11.67	174	103161	0.38	ppbV	#	82
55)	Trichloroethene (TCE)	11.59	130	280854	1.01	ppbV		96
56)	Bromodichloromethane	11.76	83	148508	0.37	ppbV	#	91
57)	Methyl methacrylate	11.69	69	134085	0.65	ppbV		87
58)	4-Methyl-2-pentanone (MIBK	12.44	58	224937	0.78	ppbV		96
59)	cis-1,3-Dichloropropene	12.56	75	276162	0.79	ppbV		100
61)	Toluene	13.40	91	876297	0.98	ppbV		92
62)	trans-1,3-Dichloropropene	13.16	75	242429	0.70	ppbV		94
63)	1,1,2-Trichloroethane	13.40	61	221535	1.00	ppbV	#	80
64)	Ethyl methacrylate	13.52	69	162515	0.39	ppbV	#	88
65)	2-Hexanone	13.67	58	314614	0.63	ppbV		95
66)	1,3-Dichloropropane	13.74	76	363561	0.69	ppbV		96
67)	Octane	13.93	85	209846	0.59	ppbV	#	88
68)	Dibromochloromethane	14.17	129	150313	0.33	ppbV		91
69)	1,2-Dibromoethane (EDB)	14.47	107	244968	0.44	ppbV	#	91
70)	Tetrachloroethene (PCE)	14.54	166	212338	0.49	ppbV	#	91
72)	Chlorobenzene	15.48	112	745999	0.97	ppbV	#	89
73)	1,1,1,2-Tetrachloroethane	15.48	131	134651	0.41	ppbV		96
74)	Ethylbenzene	15.75	91	1457737	1.07	ppbV		93
75)	m,p-Xylenes	15.91	91	1258540	1.05	ppbV		90
76)	Nonane	16.27	57	550775	0.57	ppbV		98
77)	Styrene	16.45	104	721447	0.85	ppbV	m	96
78)	Bromoform	16.51	173	116949	0.23	ppbV		96
79)	o-Xylene	16.54	91	1261673	0.98	ppbV		94
80)	1,1,2,2-Tetrachloroethane	16.85	83	445562	0.43	ppbV		99
81)	1,2,3-Trichloropropane	17.05	110	139517	0.49	ppbV		97
82)	t-1,4-Dichloro-2-butene	17.09	53	48105	0.38	ppbV		89

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275D.D
Acq Time : 27 Mar 125 9:10 am
Sample : ST62126
Misc : 1 ML
Quant Time: Mar 28 10:39 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
83)	n-Propylbenzene	17.87	91	1651064	0.72	ppbV		99
84)	Isopropylbenzene	18.76	105	1795023	0.68	ppbV	m	98
85)	4-Ethyltoluene	18.06	105	2709186	1.87	ppbV	m	97
86)	1,3,5-Trimethylbenzene	18.14	105	1203440	0.67	ppbV	m	73
87)	Decane	18.43	57	1022927	0.59	ppbV	m	98
88)	tert-butyl benzene	18.76	119	1155097	0.67	ppbV	m	94
89)	1,2,4-Trimethylbenzene	18.76	105	1777436	1.12	ppbV	m	96
90)	i-Butylbenzene	19.05	91	1287576	0.60	ppbV	m	97
91)	sec-butylbenzene	19.13	105	1822975	0.79	ppbV	#	97
92)	1,3-Dichlorobenzene	19.20	146	578083	0.57	ppbV		96
93)	Isopropyltoluene	19.35	119	1468773	0.65	ppbV	#	95
94)	Benzyl chloride	19.27	91	243747	0.34	ppbV		97
95)	1,4-Dichlorobenzene	19.32	146	502456	0.50	ppbV	m	96
96)	n-Butylbenzene	20.02	91	1319938	0.53	ppbV		99
97)	1,2-Dichlorobenzene	19.88	146	516240	0.44	ppbV		96
98)	1,2-Dibromo-3-chloropropan	20.84	75	43113	0.18	ppbV	#	91
99)	1,2,4-Trichlorobenzene	22.76	180	11826	0.10	ppbV	m	0
100)	Naphthalene	23.09	128	10853	0.07	ppbV	m	0
101)	1,2,3-Trichlorobenzene	23.60	180	4278	0.31	ppbV	m	0
102)	Hexachlorobutadiene	23.34	225	119967	0.14	ppbV		95

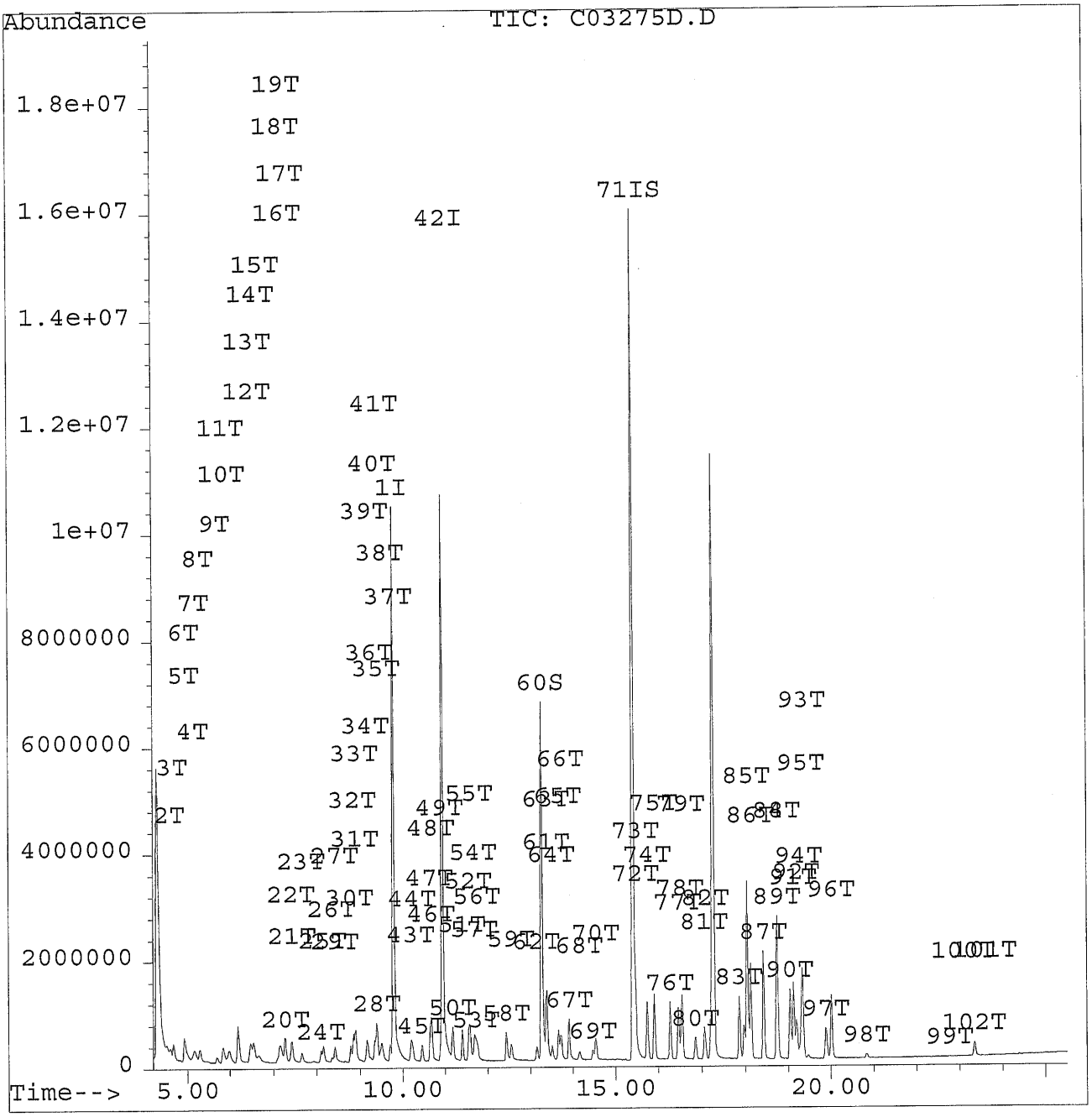
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275D.D
Acq Time : 27 Mar 125 9:10 am
Sample : ST62126
Misc : 1 ML
Quant Time: Mar 28 10:39 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275E.D
Acq Time : 27 Mar 125 9:50 am
Sample : ST62126
Misc : 2 ML
Quant Time: Mar 28 10:37 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min
1) Pentafluorobenzene	9.79	168	9515421	20.00	ppbV		-0.03
42) 1,4-Difluorobenzene	10.94	114	12371154	20.00	ppbV		-0.06
71) Chlorobenzene-d5	15.41	117	15617229	20.00	ppbV		-0.16
System Monitoring Compounds							%Recovery
60) Toluene-d8	13.28	98	7587645	9.98	ppbV		99.78
Target Compounds							Qvalue
2) Propylene	4.57	42	213070	2.02	ppbV		97
3) Dichlorodifluoromethane	4.65	85	1042248	2.25	ppbV	#	97
4) Methanol	5.00	31	1793895	4.78	ppbV	m	93
5) Chloromethane	4.93	50	367142	1.97	ppbV	m	51
6) 1,2-Dichlorotetrafluoroeth	4.93	85	850664	2.00	ppbV	m	53
7) Vinyl chloride	5.15	62	374854	2.09	ppbV		93
8) 1,3-Butadiene	5.27	54	336080	2.18	ppbV		98
9) Bromomethane	5.68	94	312960	2.22	ppbV		94
10) Chloroethane	5.85	64	190792	2.22	ppbV		94
11) Ethanol	5.82	46	409025	7.02	ppbV	m	90
12) Acrolein	6.43	56	155257	2.70	ppbV		98
13) Trichlorofluoromethane	6.46	101	657408	2.00	ppbV		97
14) Acetone	6.53	58	245044	2.40	ppbV		83
15) 2-propanol (isopropylalcoh	6.62	45	715147	1.63	ppbV	m	97
16) t-Butyl alcohol	7.15	59	501729	1.22	ppbV	m	90
17) Methyl iodide	7.25	142	210302	0.61	ppbV		94
18) 1,1-Dichloroethene	7.15	61	587608	1.86	ppbV	#	84
19) Acrylonitrile	7.16	53	277647	1.89	ppbV	#	98
20) 1,1,2-Trichlorotrifluoroet	7.27	151	375054	1.85	ppbV		96
21) Allyl chloride	7.44	76	178963	2.28	ppbV	#	63
22) Methylene chloride	7.40	84	215406	2.02	ppbV		95
23) Carbon disulfide	7.66	76	829179	2.12	ppbV		97
24) trans-1,2-Dichloroethene	8.10	96	239093	1.59	ppbV		88
25) Methyl tert butyl ether	8.15	73	802156	1.62	ppbV	#	99
26) Propionitrile	8.34	54	352308	2.51	ppbV		99
27) 1,1-Dichloroethane	8.41	63	682010	1.90	ppbV		94
28) Ethyl tert butyl ether	9.38	59	749104	1.30	ppbV		97
29) Vinyl acetate	8.41	43	561698	1.73	ppbV	#	66
30) 2-Butanone (MEK)	8.77	72	206664	2.24	ppbV	#	46
31) Diisopropyl ether	8.89	87	138693	1.13	ppbV	#	90
32) Hexane	8.85	57	535436	1.68	ppbV	#	25
33) Methacrylonitrile	8.89	67	191033	2.00	ppbV		98
34) Ethyl acetate	9.16	61	626587	1.80	ppbV		96
35) Bromochloromethane	9.40	49	432863	1.35	ppbV		99
36) Methyl acrylate	9.25	55	204883	0.92	ppbV	#	85

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275E.D
Acq Time : 27 Mar 125 9:50 am
Sample : ST62126
Misc : 2 ML
Quant Time: Mar 28 10:37 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37) Tetrahydrofuran	9.69	72	207865	2.25	ppbV		95
38) Isobutyl alcohol	9.47	74	52120	1.26	ppbV	#	54
39) cis-1,2-Dichloroethene	9.16	96	333171	1.96	ppbV		86
40) 2,2-Dichloropropane	9.35	77	677547	2.01	ppbV		96
41) Chloroform	9.40	83	657908	2.06	ppbV		93
43) 1,1,1-Trichloroethane	10.20	97	669162	1.81	ppbV		94
44) 1,2-Dichloroethane	10.22	62	593757	1.71	ppbV		99
45) 1,1-Dichloropropene	10.44	75	445244	1.40	ppbV		94
46) Cyclohexane	10.68	56	584974	1.63	ppbV		96
47) Benzene	10.65	78	1119839	1.82	ppbV		100
48) Carbon tetrachloride	10.68	117	427272	1.63	ppbV		100
49) t-Amyl methyl ether	10.89	73	814711	0.99	ppbV	#	88
50) 2,2,4-Trimethylpentane	11.18	57	1390416	1.16	ppbV		98
51) n-Heptane	11.40	71	299470	1.28	ppbV		95
52) 1,2-Dichloropropane	11.55	63	543846	1.96	ppbV		97
53) 1,4 Dioxane	11.71	88	577906	3.17	ppbV		97
54) Dibromomethane	11.67	174	208450	0.76	ppbV	#	96
55) Trichloroethene (TCE)	11.59	130	500302	1.78	ppbV		96
56) Bromodichloromethane	11.76	83	317696	0.78	ppbV		99
57) Methyl methacrylate	11.69	69	313131	1.51	ppbV		80
58) 4-Methyl-2-pentanone (MIBK	12.44	58	467577	1.60	ppbV		96
59) cis-1,3-Dichloropropene	12.56	75	604835	1.71	ppbV		98
61) Toluene	13.38	91	1698403	1.88	ppbV		92
62) trans-1,3-Dichloropropene	13.16	75	548643	1.56	ppbV		97
63) 1,1,2-Trichloroethane	13.40	61	412812	1.84	ppbV		94
64) Ethyl methacrylate	13.52	69	380481	0.90	ppbV		97
65) 2-Hexanone	13.67	58	683679	1.37	ppbV		98
66) 1,3-Dichloropropane	13.72	76	712107	1.35	ppbV		97
67) Octane	13.93	85	426711	1.20	ppbV	#	92
68) Dibromochloromethane	14.16	129	336617	0.73	ppbV		99
69) 1,2-Dibromoethane (EDB)	14.47	107	488301	0.86	ppbV	#	97
70) Tetrachloroethene (PCE)	14.54	166	419942	0.95	ppbV	#	89
72) Chlorobenzene	15.48	112	1450302	1.89	ppbV		97
73) 1,1,1,2-Tetrachloroethane	15.50	131	307908	0.93	ppbV		97
74) Ethylbenzene	15.75	91	2840137	2.10	ppbV		94
75) m,p-Xylenes	15.91	91	2597860	2.17	ppbV		99
76) Nonane	16.26	57	1075504	1.11	ppbV		95
77) Styrene	16.45	104	1639060	1.93	ppbV		95
78) Bromoform	16.50	173	257453	0.50	ppbV	#	95
79) o-Xylene	16.54	91	2567212	2.01	ppbV		95
80) 1,1,2,2-Tetrachloroethane	16.86	83	985444	0.95	ppbV		98
81) 1,2,3-Trichloropropane	17.07	110	298040	1.05	ppbV		95
82) t-1,4-Dichloro-2-butene	17.08	53	124715	0.98	ppbV		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275E.D
Acq Time : 27 Mar 125 9:50 am
Sample : ST62126
Misc : 2 ML
Quant Time: Mar 28 10:37 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
83) n-Propylbenzene	17.87	91	3582144	1.57	ppbV		99
84) Isopropylbenzene	18.77	105	3967319	1.51	ppbV	m	96
85) 4-Ethyltoluene	18.06	105	7679649	5.32	ppbV		93
86) 1,3,5-Trimethylbenzene	18.14	105	3720608	2.09	ppbV	m	76
87) Decane	18.43	57	2310681	1.33	ppbV	#	95
88) tert-butyl benzene	18.76	119	2605644	1.51	ppbV		96
89) 1,2,4-Trimethylbenzene	18.77	105	3987009	2.51	ppbV		93
90) i-Butylbenzene	19.06	91	3220197	1.50	ppbV		98
91) sec-butylbenzene	19.13	105	4081899	1.78	ppbV		97
92) 1,3-Dichlorobenzene	19.22	146	1396837	1.38	ppbV		96
93) Isopropyltoluene	19.35	119	3321809	1.47	ppbV	#	97
94) Benzyl chloride	19.28	91	791021	1.12	ppbV	#	91
95) 1,4-Dichlorobenzene	19.34	146	1295003	1.29	ppbV	m	96
96) n-Butylbenzene	20.02	91	3099324	1.24	ppbV		99
97) 1,2-Dichlorobenzene	19.90	146	1314610	1.13	ppbV		95
98) 1,2-Dibromo-3-chloropropan	20.84	75	144374	0.62	ppbV		95
99) 1,2,4-Trichlorobenzene	22.80	180	17094	0.14	ppbV	m	0
100) Naphthalene	23.09	128	12865	0.09	ppbV	m	0
101) 1,2,3-Trichlorobenzene	23.53	180	6467	0.46	ppbV	m	0
102) Hexachlorobutadiene	23.35	225	303484	0.35	ppbV		95

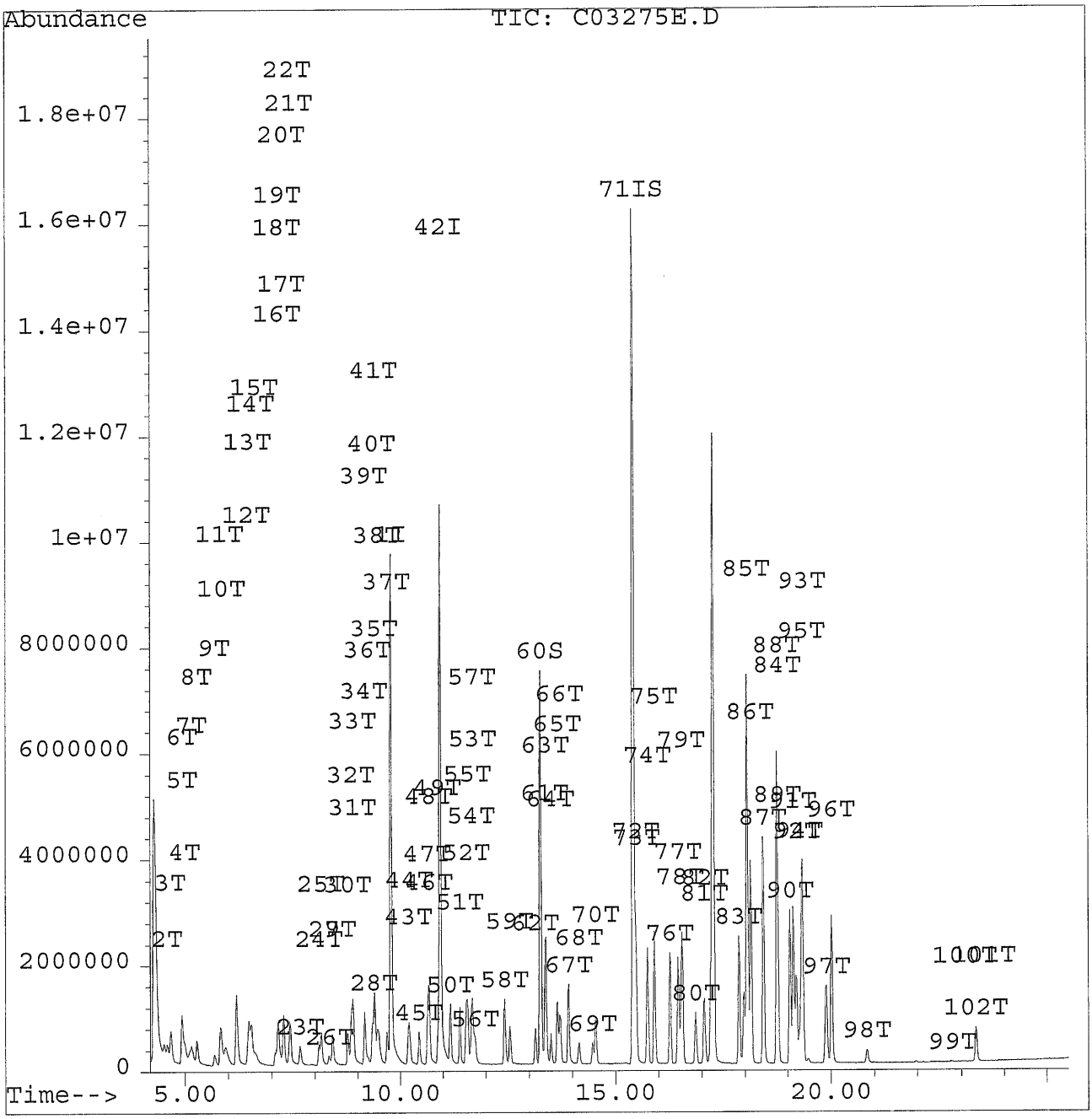
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275E.D
Acq Time : 27 Mar 125 9:50 am
Sample : ST62126
Misc : 2 ML
Quant Time: Mar 28 10:37 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275F.D
Acq Time : 27 Mar 125 10:43 am
Sample : ST62126
Misc : 5 ML
Quant Time: Mar 28 10:45 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min
1) Pentafluorobenzene	9.80	168	9607935	20.00	ppbV		-0.03
42) 1,4-Difluorobenzene	10.94	114	12633007	20.00	ppbV		-0.06
71) Chlorobenzene-d5	15.41	117	16033041	20.00	ppbV		-0.16
System Monitoring Compounds							%Recovery
60) Toluene-d8	13.28	98	7555941	9.73	ppbV		97.31
Target Compounds							Qvalue
2) Propylene	4.60	42	481606	4.53	ppbV		97
3) Dichlorodifluoromethane	4.69	85	2407769	5.15	ppbV		98
4) Methanol	5.01	31	5159678	13.62	ppbV	m	86
5) Chloromethane	4.94	50	836766	4.45	ppbV	m	51
6) 1,2-Dichlorotetrafluoroeth	4.96	85	1984562	4.62	ppbV	m	52
7) Vinyl chloride	5.18	62	879214	4.86	ppbV		96
8) 1,3-Butadiene	5.30	54	785282	5.04	ppbV		99
9) Bromomethane	5.71	94	688422	4.83	ppbV		97
10) Chloroethane	5.87	64	422809	4.88	ppbV		99
11) Ethanol	5.83	46	1816644	30.87	ppbV		93
12) Acrolein	6.45	56	463106	7.96	ppbV		98
13) Trichlorofluoromethane	6.48	101	1533746	4.62	ppbV		98
14) Acetone	6.53	58	665597	6.47	ppbV	#	35
15) 2-propanol (isopropylalcoh	6.53	45	4519701	10.21	ppbV	m	99
16) t-Butyl alcohol	7.08	59	2766544	6.67	ppbV	m	91
17) Methyl iodide	7.27	142	505993	1.46	ppbV		99
18) 1,1-Dichloroethene	7.15	61	1343313	4.21	ppbV		98
19) Acrylonitrile	7.15	53	937354	6.33	ppbV		98
20) 1,1,2-Trichlorotrifluoroet	7.29	151	859760	4.19	ppbV		96
21) Allyl chloride	7.46	76	395685	4.99	ppbV	#	70
22) Methylene chloride	7.42	84	454777	4.22	ppbV	m	46
23) Carbon disulfide	7.68	76	1924572	4.87	ppbV		98
24) trans-1,2-Dichloroethene	8.10	96	580594	3.83	ppbV		90
25) Methyl tert butyl ether	8.16	73	2034252	4.06	ppbV	#	99
26) Propionitrile	8.31	54	1374615	9.71	ppbV		98
27) 1,1-Dichloroethane	8.43	63	1610618	4.45	ppbV		95
28) Ethyl tert butyl ether	9.39	59	2019900	3.47	ppbV		96
29) Vinyl acetate	8.41	43	1838708	5.62	ppbV	#	66
30) 2-Butanone (MEK)	8.75	72	606583	6.51	ppbV	#	48
31) Diisopropyl ether	8.91	87	363084	2.94	ppbV		89
32) Hexane	8.86	57	1204653	3.74	ppbV	#	14
33) Methacrylonitrile	8.87	67	603400	6.25	ppbV		95
34) Ethyl acetate	9.16	61	1804060	5.14	ppbV		100
35) Bromochloromethane	9.40	49	1126351	3.49	ppbV		99
36) Methyl acrylate	9.23	55	692375	3.09	ppbV	#	85

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275F.D
Acq Time : 27 Mar 125 10:43 am
Sample : ST62126
Misc : 5 ML
Quant Time: Mar 28 10:45 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37) Tetrahydrofuran	9.69	72	694557	7.46	ppbV		96
38) Isobutyl alcohol	9.47	74	217118	5.19	ppbV	#	79
39) cis-1,2-Dichloroethene	9.16	96	855741	4.98	ppbV		95
40) 2,2-Dichloropropane	9.35	77	1704796	5.00	ppbV		96
41) Chloroform	9.40	83	1671465	5.20	ppbV		98
43) 1,1,1-Trichloroethane	10.21	97	1783427	4.72	ppbV		97
44) 1,2-Dichloroethane	10.22	62	1685937	4.76	ppbV		99
45) 1,1-Dichloropropene	10.44	75	1222260	3.75	ppbV		96
46) Cyclohexane	10.68	56	1497186	4.08	ppbV		96
47) Benzene	10.65	78	3012764	4.81	ppbV		97
48) Carbon tetrachloride	10.68	117	1448133	5.41	ppbV		99
49) t-Amyl methyl ether	10.89	73	1981620	2.36	ppbV	#	93
50) 2,2,4-Trimethylpentane	11.18	57	3538016	2.90	ppbV		97
51) n-Heptane	11.40	71	773852	3.24	ppbV		97
52) 1,2-Dichloropropane	11.54	63	1391125	4.91	ppbV		93
53) 1,4 Dioxane	11.69	88	2383491	12.81	ppbV		97
54) Dibromomethane	11.66	174	618849	2.20	ppbV	#	77
55) Trichloroethene (TCE)	11.59	130	1382622	4.81	ppbV		95
56) Bromodichloromethane	11.76	83	994361	2.40	ppbV		99
57) Methyl methacrylate	11.67	69	941281	4.45	ppbV		97
58) 4-Methyl-2-pentanone (MIBK	12.44	58	1559320	5.22	ppbV		96
59) cis-1,3-Dichloropropene	12.56	75	1881597	5.22	ppbV		100
61) Toluene	13.38	91	4709809	5.10	ppbV		97
62) trans-1,3-Dichloropropene	13.16	75	1939524	5.41	ppbV		100
63) 1,1,2-Trichloroethane	13.40	61	1180024	5.16	ppbV		87
64) Ethyl methacrylate	13.52	69	1169465	2.71	ppbV		97
65) 2-Hexanone	13.65	58	2648039	5.18	ppbV		94
66) 1,3-Dichloropropane	13.72	76	2021960	3.74	ppbV		97
67) Octane	13.93	85	1044174	2.86	ppbV		93
68) Dibromochloromethane	14.17	129	1147567	2.44	ppbV		92
69) 1,2-Dibromoethane (EDB)	14.47	107	1487219	2.58	ppbV		94
70) Tetrachloroethene (PCE)	14.54	166	1117846	2.49	ppbV		95
72) Chlorobenzene	15.48	112	4031714	5.12	ppbV		96
73) 1,1,1,2-Tetrachloroethane	15.48	131	935786	2.76	ppbV		92
74) Ethylbenzene	15.74	91	7566771	5.44	ppbV		95
75) m,p-Xylenes	15.91	91	6530924	5.31	ppbV		92
76) Nonane	16.27	57	2472570	2.49	ppbV		96
77) Styrene	16.45	104	4636207	5.32	ppbV		96
78) Bromoform	16.51	173	892111	1.70	ppbV		98
79) o-Xylene	16.54	91	6818556	5.19	ppbV		99
80) 1,1,2,2-Tetrachloroethane	16.86	83	2825697	2.64	ppbV		99
81) 1,2,3-Trichloropropane	17.05	110	861122	2.97	ppbV		97
82) t-1,4-Dichloro-2-butene	17.09	53	451770	3.45	ppbV		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275F.D
Acq Time : 27 Mar 125 10:43 am
Sample : ST62126
Misc : 5 ML
Quant Time: Mar 28 10:45 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
83)	n-Propylbenzene	17.87	91	8388558	3.57	ppbV		99
84)	Isopropylbenzene	18.78	105	9328494	3.47	ppbV	m	96
85)	4-Ethyltoluene	18.06	105	16515906	11.15	ppbV		96
86)	1,3,5-Trimethylbenzene	18.14	105	8420966	4.61	ppbV	m	74
87)	Decane	18.43	57	5121594	2.87	ppbV	#	98
88)	tert-butyl benzene	18.76	119	5723241	3.23	ppbV		96
89)	1,2,4-Trimethylbenzene	18.78	105	9375543	5.74	ppbV		97
90)	i-Butylbenzene	19.07	91	7575198	3.45	ppbV		99
91)	sec-butylbenzene	19.13	105	9458000	4.01	ppbV		97
92)	1,3-Dichlorobenzene	19.20	146	4523953	4.35	ppbV		97
93)	Isopropyltoluene	19.36	119	7648954	3.29	ppbV		97
94)	Benzyl chloride	19.29	91	3126645	4.29	ppbV	#	94
95)	1,4-Dichlorobenzene	19.32	146	3877132	3.77	ppbV	m	97
96)	n-Butylbenzene	20.02	91	8213293	3.20	ppbV		98
97)	1,2-Dichlorobenzene	19.88	146	4891822	4.08	ppbV		96
98)	1,2-Dibromo-3-chloropropan	20.82	75	984865	4.12	ppbV		93
99)	1,2,4-Trichlorobenzene	22.77	180	102593	0.81	ppbV	m	97
100)	Naphthalene	23.06	128	38823	0.26	ppbV	m	94
101)	1,2,3-Trichlorobenzene	23.52	180	15563	1.09	ppbV	m	0
102)	Hexachlorobutadiene	23.35	225	1624076	1.80	ppbV		94

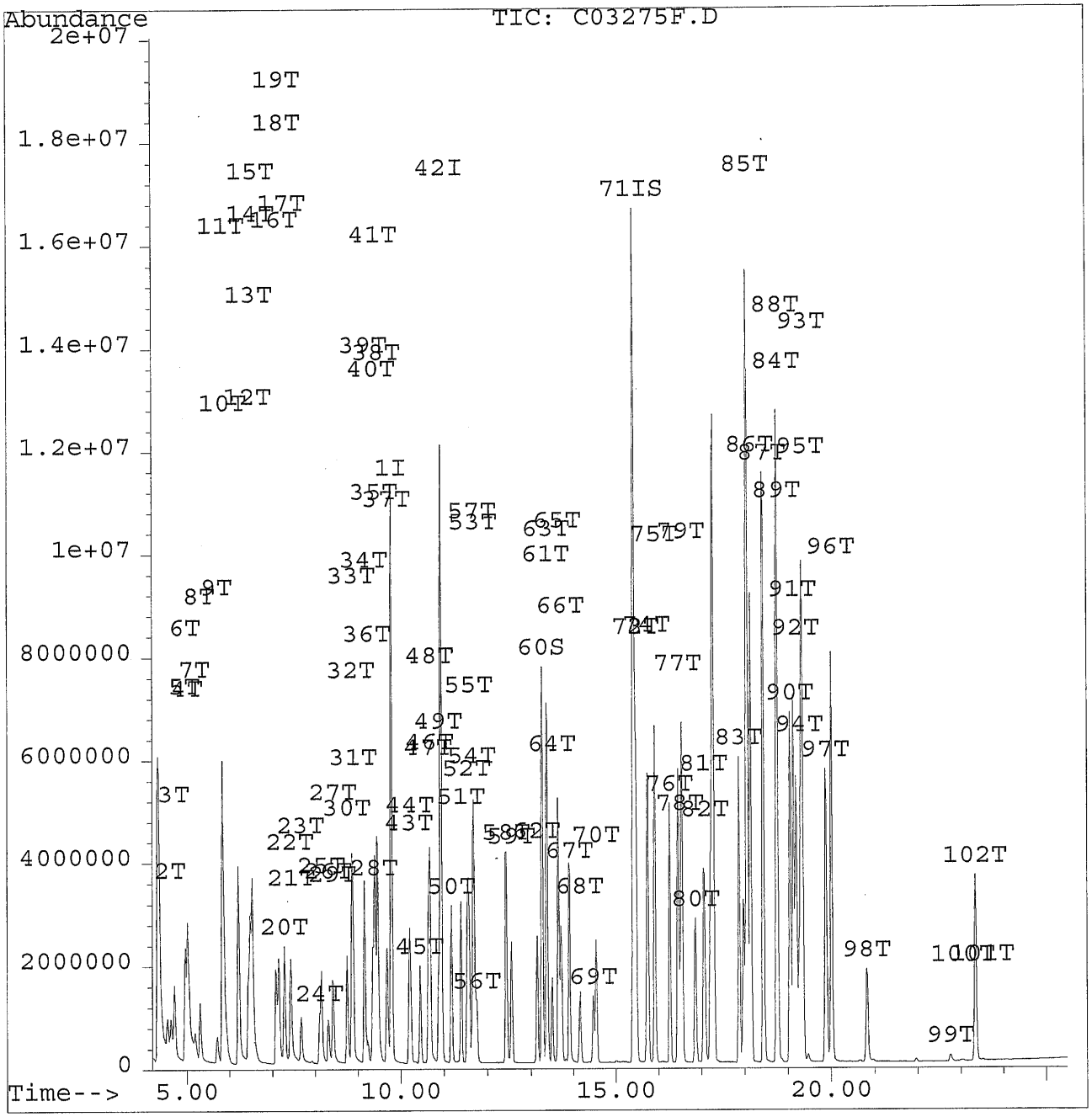
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275F.D
Acq Time : 27 Mar 125 10:43 am
Sample : ST62126
Misc : 5 ML
Quant Time: Mar 28 10:45 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275G.D
Acq Time : 27 Mar 125 11:30 am
Sample : ST62126
Misc : 10 ML
Quant Time: Mar 28 11:07 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min
1) Pentafluorobenzene	9.76	168	9821966	20.00	ppbV		-0.06
42) 1,4-Difluorobenzene	10.92	114	12737316	20.00	ppbV		-0.08
71) Chlorobenzene-d5	15.43	117	17524444	20.00	ppbV		-0.14
System Monitoring Compounds							%Recovery
60) Toluene-d8	13.26	98	7803656	9.97	ppbV		99.67
Target Compounds							Qvalue
2) Propylene	4.53	42	1215529	11.19	ppbV		98
3) Dichlorodifluoromethane	4.60	85	6278588	13.15	ppbV	#	99
4) Methanol	4.96	31	7777311	20.09	ppbV	m	76
5) Chloromethane	4.88	50	2159261	11.23	ppbV		92
6) 1,2-Dichlorotetrafluoroeth	4.88	85	4876409	11.11	ppbV	#	89
7) Vinyl chloride	5.12	62	2144062	11.58	ppbV	m	43
8) 1,3-Butadiene	5.23	54	1787327	11.22	ppbV		98
9) Bromomethane	5.63	94	1659340	11.38	ppbV		95
10) Chloroethane	5.80	64	982578	11.09	ppbV		96
11) Ethanol	5.78	46	1642283	27.30	ppbV	m	1
12) Acrolein	6.38	56	925338	15.56	ppbV	m	100
13) Trichlorofluoromethane	6.41	101	3569368	10.51	ppbV		95
14) Acetone	6.46	58	1288821	12.25	ppbV		100
15) 2-propanol (isopropylalcoh	6.50	45	6628474	14.65	ppbV	#	90
16) t-Butyl alcohol	7.05	59	4470658	10.54	ppbV	#	91
17) Methyl iodide	7.20	142	1172128	3.30	ppbV		97
18) 1,1-Dichloroethene	7.10	61	2941820	9.01	ppbV		93
19) Acrylonitrile	7.10	53	1825921	12.06	ppbV	#	99
20) 1,1,2-Trichlorotrifluoroet	7.23	151	2030223	9.69	ppbV		87
21) Allyl chloride	7.39	76	878184	10.84	ppbV	#	71
22) Methylene chloride	7.37	84	1173902	10.64	ppbV		96
23) Carbon disulfide	7.63	76	4703193	11.65	ppbV		97
24) trans-1,2-Dichloroethene	8.05	96	1244900	8.04	ppbV		95
25) Methyl tert butyl ether	8.10	73	4326555	8.46	ppbV	#	97
26) Propionitrile	8.28	54	2167625	14.98	ppbV		99
27) 1,1-Dichloroethane	8.38	63	3487750	9.44	ppbV		99
28) Ethyl tert butyl ether	9.35	59	3964550	6.66	ppbV		98
29) Vinyl acetate	8.36	43	4378362	13.09	ppbV	#	67
30) 2-Butanone (MEK)	8.72	72	1124665	11.81	ppbV	#	48
31) Diisopropyl ether	8.86	87	732194	5.79	ppbV		93
32) Hexane	8.82	57	2888428	8.76	ppbV	#	44
33) Methacrylonitrile	8.84	67	1132936	11.48	ppbV		95
34) Ethyl acetate	9.13	61	3644640	10.15	ppbV		98
35) Bromochloromethane	9.37	49	2315546	7.02	ppbV		98
36) Methyl acrylate	9.20	55	1484982	6.48	ppbV	#	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275G.D
Acq Time : 27 Mar 125 11:30 am
Sample : ST62126
Misc : 10 ML
Quant Time: Mar 28 11:07 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37) Tetrahydrofuran	9.66	72	1110828	11.67	ppbV		96
38) Isobutyl alcohol	9.45	74	210500	4.92	ppbV	#	96
39) cis-1,2-Dichloroethene	9.13	96	1794655	10.21	ppbV		93
40) 2,2-Dichloropropane	9.32	77	3683397	10.56	ppbV		97
41) Chloroform	9.37	83	3554252	10.81	ppbV		95
43) 1,1,1-Trichloroethane	10.17	97	3698903	9.72	ppbV		94
44) 1,2-Dichloroethane	10.20	62	3498472	9.80	ppbV		97
45) 1,1-Dichloropropene	10.43	75	2454926	7.48	ppbV		99
46) Cyclohexane	10.65	56	3172166	8.58	ppbV		96
47) Benzene	10.61	78	5887311	9.31	ppbV		97
48) Carbon tetrachloride	10.65	117	3376775	12.50	ppbV		97
49) t-Amyl methyl ether	10.87	73	3748905	4.42	ppbV		98
50) 2,2,4-Trimethylpentane	11.14	57	7269052	5.91	ppbV		99
51) n-Heptane	11.38	71	1568572	6.51	ppbV		95
52) 1,2-Dichloropropane	11.52	63	2760013	9.66	ppbV		97
53) 1,4 Dioxane	11.69	88	3077408	16.41	ppbV		100
54) Dibromomethane	11.66	174	1280184	4.52	ppbV	#	95
55) Trichloroethene (TCE)	11.57	130	2742806	9.46	ppbV	#	89
56) Bromodichloromethane	11.74	83	2124389	5.08	ppbV		99
57) Methyl methacrylate	11.67	69	1840191	8.63	ppbV		95
58) 4-Methyl-2-pentanone (MIBK	12.42	58	2395760	7.96	ppbV		95
59) cis-1,3-Dichloropropene	12.54	75	3847533	10.59	ppbV		98
61) Toluene	13.38	91	8692916	9.33	ppbV		97
62) trans-1,3-Dichloropropene	13.16	75	4118662	11.40	ppbV		99
63) 1,1,2-Trichloroethane	13.38	61	2114776	9.16	ppbV		95
64) Ethyl methacrylate	13.52	69	2181484	5.02	ppbV		97
65) 2-Hexanone	13.67	58	3671285	7.13	ppbV		96
66) 1,3-Dichloropropane	13.72	76	3812632	7.00	ppbV		97
67) Octane	13.91	85	2237599	6.09	ppbV		90
68) Dibromochloromethane	14.17	129	2508665	5.29	ppbV		98
69) 1,2-Dibromoethane (EDB)	14.47	107	2957832	5.08	ppbV		99
70) Tetrachloroethene (PCE)	14.54	166	2318310	5.12	ppbV		99
72) Chlorobenzene	15.48	112	7344567	8.53	ppbV		95
73) 1,1,1,2-Tetrachloroethane	15.50	131	1805077	4.88	ppbV		95
74) Ethylbenzene	15.75	91	14053013	9.24	ppbV		93
75) m,p-Xylenes	15.91	91	12454236	9.26	ppbV		91
76) Nonane	16.28	57	5482553	5.05	ppbV		99
77) Styrene	16.47	104	9192637	9.66	ppbV		93
78) Bromoform	16.52	173	2053798	3.58	ppbV		97
79) o-Xylene	16.55	91	12930401	9.01	ppbV		95
80) 1,1,2,2-Tetrachloroethane	16.86	83	5840256	5.00	ppbV		96
81) 1,2,3-Trichloropropane	17.07	110	1669824	5.27	ppbV		99
82) t-1,4-Dichloro-2-butene	17.08	53	1025161	7.16	ppbV	#	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275G.D
Acq Time : 27 Mar 125 11:30 am
Sample : ST62126
Misc : 10 ML
Quant Time: Mar 28 11:07 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
83) n-Propylbenzene	17.88	91	16997035	6.62	ppbV		98
84) Isopropylbenzene	18.77	105	16170788	5.50	ppbV	m	97
85) 4-Ethyltoluene	18.07	105	22624546	13.98	ppbV	m	87
86) 1,3,5-Trimethylbenzene	18.16	105	15380036	7.70	ppbV	m	80
87) Decane	18.45	57	9889127	5.06	ppbV	#	96
88) tert-butyl benzene	18.75	119	9909972	5.11	ppbV		97
89) 1,2,4-Trimethylbenzene	18.77	105	16192330	9.08	ppbV		98
90) i-Butylbenzene	19.06	91	15027014	6.25	ppbV		98
91) sec-butylbenzene	19.15	105	17821844	6.91	ppbV	#	96
92) 1,3-Dichlorobenzene	19.21	146	9343782	8.23	ppbV		99
93) Isopropyltoluene	19.37	119	13384835	5.27	ppbV		96
94) Benzyl chloride	19.28	91	8329524	10.47	ppbV		97
95) 1,4-Dichlorobenzene	19.33	146	7637750	6.79	ppbV	m	99
96) n-Butylbenzene	20.03	91	15835483	5.64	ppbV		95
97) 1,2-Dichlorobenzene	19.90	146	10603309	8.10	ppbV		94
98) 1,2-Dibromo-3-chloropropan	20.83	75	3374714	12.90	ppbV	#	84
99) 1,2,4-Trichlorobenzene	22.76	180	721905	5.22	ppbV	m	98
100) Naphthalene	23.03	128	221419	1.36	ppbV	m	96
101) 1,2,3-Trichlorobenzene	23.51	180	124819	7.98	ppbV	m	96
102) Hexachlorobutadiene	23.36	225	4358838	4.42	ppbV		94

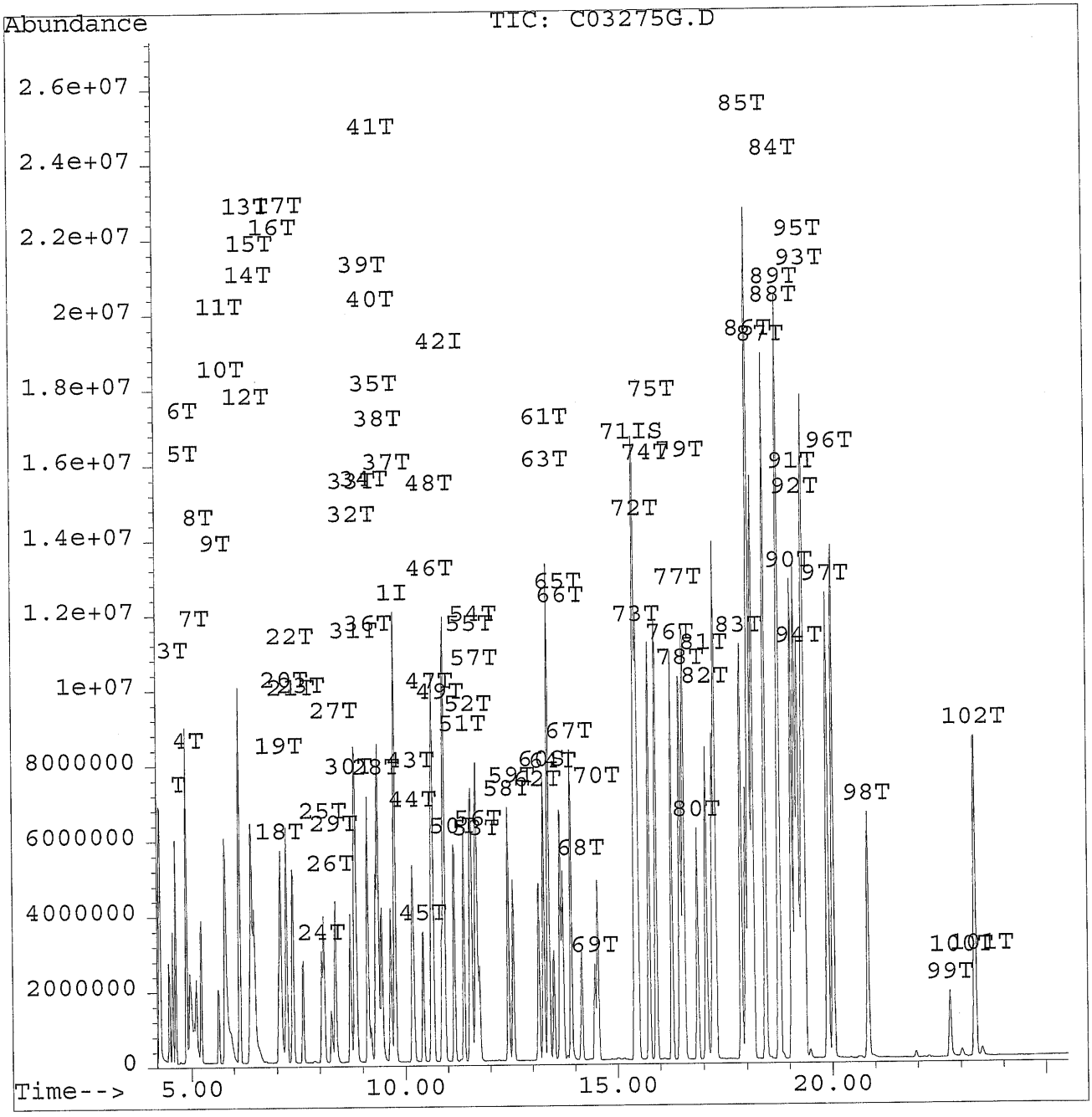
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275G.D
Acq Time : 27 Mar 125 11:30 am
Sample : ST62126
Misc : 10 ML
Quant Time: Mar 28 11:07 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275H.D
Acq Time : 27 Mar 125 12:14 pm
Sample : ST62126
Misc : 20 ML
Quant Time: Mar 28 10:11 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min
1) Pentafluorobenzene	9.79	168	10013109	20.00	ppbV		-0.03
42) 1,4-Difluorobenzene	10.94	114	12594177	20.00	ppbV		-0.06
71) Chlorobenzene-d5	15.43	117	18179470	20.00	ppbV		-0.15
System Monitoring Compounds							%Recovery
60) Toluene-d8	13.28	98	7936408	10.25	ppbV		102.52
Target Compounds							Qvalue
2) Propylene	4.59	42	1944809	17.56	ppbV		97
3) Dichlorodifluoromethane	4.67	85	9568364	19.65	ppbV		96
4) Methanol	5.05	31	12174811	30.84	ppbV	m	76
5) Chloromethane	4.93	50	3149234	16.07	ppbV	m	51
6) 1,2-Dichlorotetrafluoroeth	4.93	85	7071756	15.80	ppbV	m	52
7) Vinyl chloride	5.17	62	3134643	16.61	ppbV	m	43
8) 1,3-Butadiene	5.28	54	2827896	17.42	ppbV		96
9) Bromomethane	5.69	94	2947198	19.83	ppbV		95
10) Chloroethane	5.85	64	1784964	19.76	ppbV		96
11) Ethanol	5.86	46	3776171	61.57	ppbV	m	1
12) Acrolein	6.43	56	1654890	27.30	ppbV		98
13) Trichlorofluoromethane	6.48	101	6404856	18.51	ppbV		99
14) Acetone	6.51	58	2461334	22.95	ppbV		97
15) 2-propanol (isopropylalcoh	6.55	45	13293667	28.82	ppbV	#	90
16) t-Butyl alcohol	7.09	59	8852530	20.47	ppbV	#	92
17) Methyl iodide	7.25	142	1912214	5.28	ppbV		95
18) 1,1-Dichloroethene	7.15	61	5187077	15.59	ppbV		93
19) Acrylonitrile	7.15	53	3427876	22.21	ppbV	#	95
20) 1,1,2-Trichlorotrifluoroet	7.28	151	3677474	17.21	ppbV		86
21) Allyl chloride	7.43	76	1412854	17.11	ppbV	#	61
22) Methylene chloride	7.40	84	1835242	16.32	ppbV	m	44
23) Carbon disulfide	7.66	76	8205026	19.94	ppbV		99
24) trans-1,2-Dichloroethene	8.10	96	2416812	15.32	ppbV		85
25) Methyl tert butyl ether	8.14	73	8589433	16.47	ppbV		99
26) Propionitrile	8.31	54	4210778	28.54	ppbV		99
27) 1,1-Dichloroethane	8.41	63	7084340	18.80	ppbV		97
28) Ethyl tert butyl ether	9.38	59	7699803	12.70	ppbV		97
29) Vinyl acetate	8.39	43	8948234	26.25	ppbV	m	66
30) 2-Butanone (MEK)	8.75	72	2261996	23.30	ppbV	#	65
31) Diisopropyl ether	8.89	87	1456025	11.30	ppbV		91
32) Hexane	8.85	57	5247663	15.61	ppbV	#	14
33) Methacrylonitrile	8.87	67	2199438	21.85	ppbV		96
34) Ethyl acetate	9.14	61	7565358	20.67	ppbV		98
35) Bromochloromethane	9.40	49	4469266	13.28	ppbV		99
36) Methyl acrylate	9.23	55	3233522	13.84	ppbV	#	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275H.D
Acq Time : 27 Mar 125 12:14 pm
Sample : ST62126
Misc : 20 ML
Quant Time: Mar 28 10:11 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37) Tetrahydrofuran	9.69	72	2300172	23.70	ppbV		98
38) Isobutyl alcohol	9.48	74	431605	9.91	ppbV	#	91
39) cis-1,2-Dichloroethene	9.14	96	3611117	20.15	ppbV		98
40) 2,2-Dichloropropane	9.35	77	7521693	21.16	ppbV		96
41) Chloroform	9.40	83	6700244	19.98	ppbV		99
43) 1,1,1-Trichloroethane	10.18	97	7582229	20.14	ppbV		96
44) 1,2-Dichloroethane	10.22	62	7271918	20.61	ppbV		97
45) 1,1-Dichloropropene	10.44	75	5063279	15.60	ppbV		97
46) Cyclohexane	10.68	56	5832529	15.95	ppbV		97
47) Benzene	10.65	78	11330119	18.13	ppbV		100
48) Carbon tetrachloride	10.68	117	6472153	24.23	ppbV	m	96
49) t-Amyl methyl ether	10.89	73	7533292	8.98	ppbV		95
50) 2,2,4-Trimethylpentane	11.18	57	14931487	12.27	ppbV		100
51) n-Heptane	11.40	71	3336295	14.00	ppbV		98
52) 1,2-Dichloropropane	11.55	63	5407153	19.13	ppbV		94
53) 1,4 Dioxane	11.70	88	5950592	32.09	ppbV		98
54) Dibromomethane	11.67	174	2558578	9.14	ppbV	#	94
55) Trichloroethene (TCE)	11.58	130	5186357	18.09	ppbV		96
56) Bromodichloromethane	11.77	83	4713022	11.40	ppbV		100
57) Methyl methacrylate	11.67	69	3657579	17.35	ppbV		88
58) 4-Methyl-2-pentanone (MIBK	12.44	58	5062399	17.01	ppbV		99
59) cis-1,3-Dichloropropene	12.56	75	8754070	24.36	ppbV		98
61) Toluene	13.40	91	15338562	16.65	ppbV		96
62) trans-1,3-Dichloropropene	13.16	75	9470247	26.50	ppbV	m	94
63) 1,1,2-Trichloroethane	13.40	61	4110931	18.02	ppbV		94
64) Ethyl methacrylate	13.51	69	4923373	11.46	ppbV		97
65) 2-Hexanone	13.67	58	7894991	15.50	ppbV		94
66) 1,3-Dichloropropane	13.74	76	8198528	15.23	ppbV		96
67) Octane	13.92	85	4547070	12.51	ppbV		91
68) Dibromochloromethane	14.16	129	5493593	11.72	ppbV	m	95
69) 1,2-Dibromoethane (EDB)	14.49	107	6391661	11.11	ppbV		98
70) Tetrachloroethene (PCE)	14.56	166	4718594	10.54	ppbV		98
72) Chlorobenzene	15.48	112	12609293	14.12	ppbV	#	93
73) 1,1,1,2-Tetrachloroethane	15.49	131	3388218	8.82	ppbV		96
74) Ethylbenzene	15.75	91	22431089	14.22	ppbV	#	72
75) m,p-Xylenes	15.92	91	20734260	14.87	ppbV	#	78
76) Nonane	16.28	57	10097173	8.96	ppbV		98
77) Styrene	16.47	104	16556450	16.76	ppbV		97
78) Bromoform	16.52	173	4187570	7.03	ppbV		97
79) o-Xylene	16.55	91	21363821	14.35	ppbV	#	84
80) 1,1,2,2-Tetrachloroethane	16.86	83	11004303	9.08	ppbV		98
81) 1,2,3-Trichloropropane	17.06	110	3064070	9.32	ppbV		95
82) t-1,4-Dichloro-2-butene	17.08	53	2115156	14.23	ppbV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275H.D
Acq Time : 27 Mar 125 12:14 pm
Sample : ST62126
Misc : 20 ML
Quant Time: Mar 28 10:11 19125

Operator: MM
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
83)	n-Propylbenzene	17.88	91	23901580	8.98	ppbV	#	89
84)	Isopropylbenzene	18.79	105	22080588	7.24	ppbV	m	89
85)	4-Ethyltoluene	18.07	105	33177756	19.76	ppbV	m	72
86)	1,3,5-Trimethylbenzene	18.16	105	22922759	11.07	ppbV	m	90
87)	Decane	18.46	57	14965203	7.39	ppbV	#	96
88)	tert-butyl benzene	18.77	119	14447408	7.18	ppbV		99
89)	1,2,4-Trimethylbenzene	18.79	105	22186684	11.99	ppbV	#	91
90)	i-Butylbenzene	19.08	91	25767754	10.34	ppbV		96
91)	sec-butylbenzene	19.16	105	24307707	9.08	ppbV	#	85
92)	1,3-Dichlorobenzene	19.23	146	13579591	11.53	ppbV		99
93)	Isopropyltoluene	19.37	119	17872846	6.79	ppbV	#	76
94)	Benzyl chloride	19.30	91	14396800	17.44	ppbV		96
95)	1,4-Dichlorobenzene	19.33	146	9545175	8.18	ppbV	m	99
96)	n-Butylbenzene	20.03	91	21894451	7.51	ppbV		92
97)	1,2-Dichlorobenzene	19.91	146	14078632	10.36	ppbV		94
98)	1,2-Dibromo-3-chloropropan	20.83	75	3393629	12.51	ppbV	m	94
99)	1,2,4-Trichlorobenzene	22.76	180	561525	3.91	ppbV		98
100)	Naphthalene	23.05	128	276877	1.64	ppbV		95
101)	1,2,3-Trichlorobenzene	23.53	180	104494	6.44	ppbV		90
102)	Hexachlorobutadiene	23.36	225	3316232	3.24	ppbV		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275H.D
Acq Time : 27 Mar 125 12:14 pm
Sample : ST62126
Misc : 20 ML
Quant Time: Mar 28 10:11 19125

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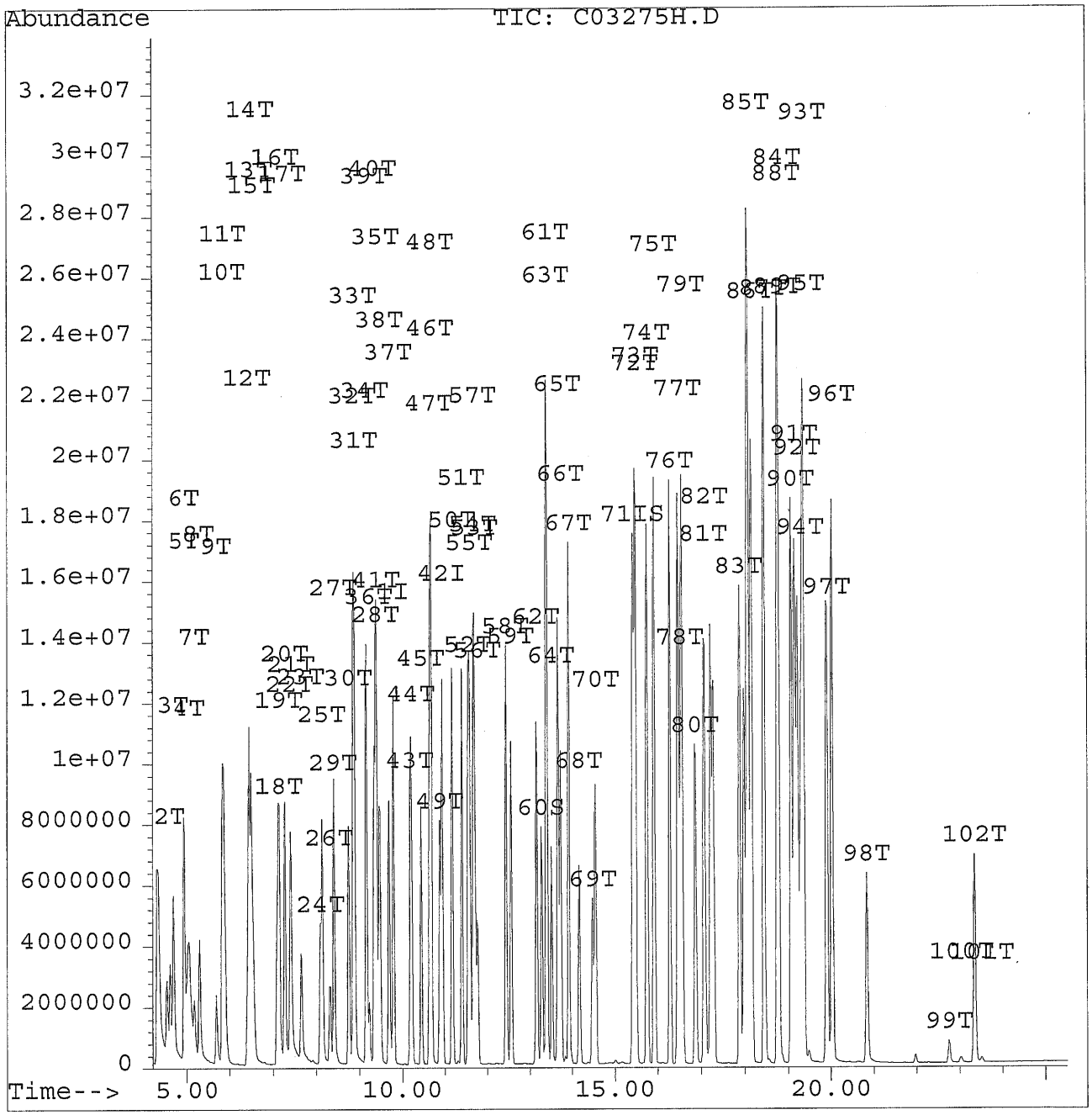
Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration



Response Factor Report 5970 - MS

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Initial Calibration

Calibration Files
0.25 =C03275B.D 1.0 =C03275D.D 2.0 =C03275E.D
5.0 =C03275F.D 10.0 =C03275G.D 20.0 =C03275H.D

		Compound	0.25	1.0	2.0	5.0	10.0	20.0	Avg	%RSD
1)	I	Pentafluorobenzene	----------	ISTD	----------					
2)	T	Propylene	0.324	0.240	0.236	0.211	0.261	0.204	0.246	17.64
3)	T	Dichlorodifluoromet	0.971	1.124	1.153	1.055	1.346	1.006	1.109	12.14
4)	T	Methanol	1.113	1.141	1.198	1.365	1.009	0.772	1.100	18.06
5)	T	Chloromethane		0.387	0.406	0.367	0.463	0.331	0.391	12.52
6)	T	1,2-Dichlorotetrafl		0.891	0.941	0.870	1.045	0.743	0.898	12.23
7)	T	Vinyl chloride	0.377	0.368	0.415	0.385	0.460	0.330	0.389	11.35
8)	T	1,3-Butadiene	0.293	0.348	0.372	0.344	0.383	0.297	0.339	11.01
9)	T	Bromomethane		0.276	0.346	0.302	0.356	0.310	0.318	10.33
10)	T	Chloroethane	0.151	0.210	0.211	0.185	0.211	0.188	0.192	12.28
11)	T	Ethanol	0.135	0.127	0.134	0.236	0.104	0.118	0.142	33.18
12)	T	Acrolein	0.135	0.128	0.118	0.140	0.137	0.120	0.130	6.98
13)	T	Trichlorofluorometh		0.731	0.755	0.700	0.796	0.701	0.737	5.49
14)	T	Acetone	0.381	0.232	0.202	0.217	0.206	0.193	0.238	29.85
15)	T	2-propanol (isoprop		0.650	0.614	1.532	1.100	1.082	0.996	37.97
16)	T	t-Butyl alcohol	0.976	0.675	0.579	1.263	0.998	0.969	0.910	27.13
17)	T	Methyl iodide		0.654	0.789	0.758	0.859	0.687	0.749	10.89
18)	T	1,1-Dichloroethene	0.759	0.639	0.710	0.643	0.689	0.596	0.673	8.66
19)	T	Acrylonitrile	0.406	0.259	0.277	0.370	0.352	0.324	0.332	16.98
20)	T	1,1,2-Trichlorotrif		0.439	0.469	0.426	0.492	0.437	0.453	5.98
21)	T	Allyl chloride	0.190	0.169	0.189	0.165	0.179	0.141	0.172	10.55
22)	T	Methylene chloride	0.260	0.260	0.247	0.207	0.261	0.200	0.239	11.77
23)	T	Carbon disulfide		0.834	0.903	0.833	0.994	0.851	0.883	7.76
24)	T	trans-1,2-Dichloroe	0.340	0.345	0.335	0.323	0.338	0.322	0.334	2.76
25)	T	Methyl tert butyl e	1.073	1.073	1.102	1.109	1.153	1.122	1.105	2.76
26)	T	Propionitrile	0.306	0.270	0.285	0.440	0.339	0.323	0.327	18.51
27)	T	1,1-Dichloroethane	0.761	0.809	0.819	0.765	0.811	0.808	0.796	3.20
28)	T	Ethyl tert butyl et	1.200	1.319	1.312	1.397	1.341	1.276	1.308	5.05
29)	T	Vinyl acetate	0.515	0.521	0.649	0.839	0.979	0.981	0.747	28.81
30)	T	2-Butanone (MEK)	0.131	0.192	0.206	0.239	0.217	0.214	0.200	18.62
31)	T	Diisopropyl ether		0.255	0.270	0.280	0.276	0.269	0.270	3.57
32)	T	Hexane		0.854	0.736	0.655	0.768	0.684	0.739	10.49
33)	T	Methacrylonitrile	0.214	0.196	0.202	0.252	0.232	0.221	0.219	9.42
34)	T	Ethyl acetate	0.675	0.753	0.724	0.827	0.817	0.832	0.771	8.38
35)	T	Bromochloromethane	0.668	0.809	0.827	0.850	0.854	0.808	0.803	8.59
36)	T	Methyl acrylate	0.293	0.391	0.439	0.586	0.616	0.657	0.497	28.99
37)	T	Tetrahydrofuran	0.177	0.208	0.203	0.269	0.210	0.213	0.213	14.15
38)	T	Isobutyl alcohol	0.097		0.073	0.120	0.057	0.057	0.081	33.96
39)	T	cis-1,2-Dichloroeth	0.345	0.384	0.371	0.377	0.388	0.382	0.374	4.16
40)	T	2,2-Dichloropropane	0.692	0.788	0.770	0.768	0.813	0.814	0.774	5.78
41)	T	Chloroform	0.634	0.742	0.724	0.729	0.759	0.702	0.715	6.14
42)	I	1,4-Difluorobenzene	----------	ISTD	----------					

(#) = Out of Range

Response Factor Report 5970 - MS

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Initial Calibration

Calibration Files
0.25 =C03275B.D 1.0 =C03275D.D 2.0 =C03275E.D
5.0 =C03275F.D 10.0 =C03275G.D 20.0 =C03275H.D

		Compound	0.25	1.0	2.0	5.0	10.0	20.0	Avg	%RSD
43)	T	1,1,1-Trichloroetha	0.570	0.656	0.644	0.671	0.690	0.715	0.658	7.54
44)	T	1,2-Dichloroethane	0.549	0.579	0.555	0.615	0.634	0.666	0.600	7.73
45)	T	1,1-Dichloropropene	0.498	0.549	0.525	0.566	0.564	0.589	0.549	5.92
46)	T	Cyclohexane	0.517	0.640	0.595	0.597	0.627	0.583	0.593	7.23
47)	T	Benzene		1.244	1.011	1.069	1.035	1.008	1.074	9.16
48)	T	Carbon tetrachlorid	0.221	0.344	0.384	0.509	0.590	0.572	0.437	33.16
49)	T	t-Amyl methyl ether		1.730	1.432	1.364	1.280	1.300	1.421	12.85
50)	T	2,2,4-Trimethylpent	1.814	2.179	1.989	1.986	2.020	2.098	2.015	6.12
51)	T	n-Heptane	0.363	0.416	0.384	0.390	0.392	0.422	0.395	5.52
52)	T	1,2-Dichloropropane	0.405	0.474	0.480	0.481	0.474	0.469	0.464	6.31
53)	T	1,4 Dioxane	0.267	0.275	0.267	0.431	0.276	0.270	0.298	21.97
54)	T	Dibromomethane	0.401	0.431	0.432	0.502	0.515	0.520	0.467	11.02
55)	T	Trichloroethene (TC	0.503	0.514	0.457	0.494	0.486	0.465	0.487	4.55
56)	T	Bromodichloromethan	0.447	0.576	0.619	0.757	0.800	0.898	0.683	24.21
57)	T	Methyl methacrylate	0.286	0.312	0.362	0.425	0.412	0.414	0.368	15.92
58)	T	4-Methyl-2-pentanon	0.489	0.470	0.481	0.630	0.480	0.512	0.510	11.78
59)	T	cis-1,3-Dichloropro	0.392	0.495	0.537	0.655	0.664	0.763	0.584	23.04
60)	S	Toluene-d8	1.253	1.215	1.227	1.196	1.225	1.260	1.230	1.94
61)	T	Toluene		1.553	1.500	1.628	1.490	1.330	1.500	7.31
62)	T	trans-1,3-Dichlorop	0.390	0.434	0.487	0.673	0.710	0.825	0.587	29.65
63)	T	1,1,2-Trichloroetha	0.327	0.401	0.369	0.413	0.368	0.361	0.373	8.27
64)	T	Ethyl methacrylate		0.552	0.641	0.775	0.715	0.816	0.700	15.11
65)	T	2-Hexanone	0.888	0.693	0.752	1.139	0.784	0.852	0.852	18.47
66)	T	1,3-Dichloropropane	0.774	0.872	0.846	0.939	0.879	0.956	0.878	7.50
67)	T	Octane	0.501	0.600	0.610	0.584	0.622	0.639	0.593	8.22
68)	T	Dibromochloromethan	0.375	0.598	0.656	0.878	0.951	1.054	0.752	33.74
69)	T	1,2-Dibromoethane (	0.739	0.868	0.858	1.019	1.007	1.100	0.932	14.24
70)	T	Tetrachloroethene (	0.572	0.753	0.730	0.766	0.786	0.809	0.736	11.50
71)	IS	Chlorobenzene-d5		----------ISTD----------						
72)	T	Chlorobenzene	0.950	1.096	1.074	1.161	0.969	0.802	1.009	12.78
73)	T	1,1,1,2-Tetrachloro	0.255	0.400	0.459	0.543	0.480	0.434	0.429	22.75
74)	T	Ethylbenzene	1.635	2.003	1.955	2.034	1.726	1.329	1.781	15.33
75)	T	m,p-Xylenes	1.525	1.729	1.789	1.748	1.527	1.225	1.591	13.35
76)	T	Nonane	1.197	1.437	1.391	1.249	1.269	1.127	1.278	9.15
77)	T	Styrene	1.041	1.013	1.153	1.271	1.153	1.001	1.106	9.52
78)	T	Bromoform	0.433	0.534	0.589	0.801	0.843	0.829	0.671	26.12
79)	T	o-Xylene	1.577	1.772	1.816	1.878	1.631	1.298	1.662	12.71
80)	T	1,1,2,2-Tetrachloro	1.382	1.212	1.343	1.500	1.415	1.287	1.356	7.43
81)	T	1,2,3-Trichloroprop	0.349	0.350	0.374	0.421	0.374	0.330	0.366	8.63
82)	T	t-1,4-Dichloro-2-bu		0.106	0.139	0.195	0.203	0.202	0.169	26.08
83)	T	n-Propylbenzene	2.864	3.297	3.584	3.260	3.022	2.048	3.012	17.70
84)	T	Isopropylbenzene	3.657	3.529	3.908	3.592	2.844	1.871	3.234	23.38

(#) = Out of Range

Response Factor Report 5970 - MS

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Initial Calibration

Calibration Files
0.25 =C03275B.D 1.0 =C03275D.D 2.0 =C03275E.D
5.0 =C03275F.D 10.0 =C03275G.D 20.0 =C03275H.D

		Compound	0.25	1.0	2.0	5.0	10.0	20.0	Avg	%RSD
85)	T	4-Ethyltoluene	2.127	2.234	3.162	2.652	1.662	1.175	2.169	32.42
86)	T	1,3,5-Trimethylbenz	1.765	1.690	2.618	2.314	1.933	1.389	1.952	22.85
87)	T	Decane	2.531	2.467	2.818	2.429	2.150	1.566	2.327	18.46
88)	T	tert-butyl benzene	2.422	2.590	2.902	2.496	1.974	1.387	2.295	23.38
89)	T	1,2,4-Trimethylbenz	1.734	1.721	2.852	2.622	2.069	1.367	2.061	27.84
90)	T	i-Butylbenzene	2.122	2.887	3.617	3.316	3.014	2.491	2.908	18.67
91)	T	sec-butylbenzene	2.414	2.589	4.320	3.907	3.367	2.214	3.135	27.52
92)	T	1,3-Dichlorobenzene	1.346	1.048		1.603	1.513	1.060	1.314	19.39
93)	T	Isopropyltoluene	3.360	3.144	3.575	3.202	2.559	1.648	2.915	24.26
94)	T	Benzyl chloride	0.884	0.496	0.804	1.242	1.514	1.257	1.033	35.92
95)	T	1,4-Dichlorobenzene	1.351	0.976	1.256	1.470	1.325	0.796	1.196	21.43
96)	T	n-Butylbenzene	3.991	3.012	3.544	3.659	3.227	2.151	3.264	19.70
97)	T	1,2-Dichlorobenzene	1.700	1.017	1.369	1.975	1.864	1.259	1.531	24.47
98)	T	1,2-Dibromo-3-chlor		0.088	0.147	0.391	0.613	0.297	0.307	68.03
99)	T	1,2,4-Trichlorobenz	0.121	0.046	0.034	0.078	0.211		0.098	72.99
100)	T	Naphthalene	0.141	0.092	0.053	0.063	0.165		0.103	47.34
101)	T	1,2,3-Trichlorobenz	0.018	0.011	0.008	0.008	0.029		0.015	59.40
102)	T	Hexachlorobutadiene		0.613	0.771	1.608	1.974	0.724	1.138	53.83

(#) = Out of Range

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275I.D
Acq Time : 27 Mar 125 5:08 pm
Sample : ST62125
Misc : 10 ML
Quant Time: Mar 28 11:17 19125

Operator: SS
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min
1) Pentafluorobenzene	9.78	168	9442818	20.00	ppbV		-0.05
42) 1,4-Difluorobenzene	10.92	114	12607695	20.00	ppbV		-0.08
71) Chlorobenzene-d5	15.43	117	15121621	20.00	ppbV		-0.14
System Monitoring Compounds							%Recovery
60) Toluene-d8	13.28	98	8115465	10.47	ppbV		104.71
Target Compounds							Qvalue
2) Propylene	4.53	42	1064162	9.16	ppbV		96
3) Dichlorodifluoromethane	4.62	85	4709271	8.99	ppbV		98
4) Methanol	4.96	31	7096468	13.67	ppbV	m	76
5) Chloromethane	4.88	50	1700318	9.21	ppbV		94
6) 1,2-Dichlorotetrafluoroeth	4.88	85	4081140	9.63	ppbV		94
7) Vinyl chloride	5.12	62	1423763	7.75	ppbV	m	43
8) 1,3-Butadiene	5.23	54	1511965	9.43	ppbV		99
9) Bromomethane	5.64	94	1675362	11.16	ppbV		97
10) Chloroethane	5.80	64	770448	8.48	ppbV		98
11) Ethanol	5.85	46	1826917	27.20	ppbV	m	1
12) Acrolein	6.40	56	770684	12.59	ppbV		99
13) Trichlorofluoromethane	6.43	101	3049587	8.77	ppbV		98
14) Acetone	6.48	58	1130205	10.04	ppbV		76
15) 2-propanol (isopropylalcoh	6.50	45	6169443	13.13	ppbV	#	100
16) t-Butyl alcohol	7.06	59	4123949	9.60	ppbV	#	91
17) Methyl iodide	7.22	142	987152	2.79	ppbV		97
18) 1,1-Dichloroethene	7.11	61	2695228	8.49	ppbV		91
19) Acrylonitrile	7.11	53	1342476	8.58	ppbV		95
20) 1,1,2-Trichlorotrifluoroet	7.25	151	1943001	9.09	ppbV		96
21) Allyl chloride	7.40	76	712571	8.76	ppbV	#	53
22) Methylene chloride	7.39	84	819897	7.26	ppbV	m	45
23) Carbon disulfide	7.63	76	3774395	9.05	ppbV		100
24) trans-1,2-Dichloroethene	8.07	96	1078744	6.84	ppbV		87
25) Methyl tert butyl ether	8.12	73	3628829	6.95	ppbV		99
26) Propionitrile	8.29	54	1736954	11.25	ppbV		99
27) 1,1-Dichloroethane	8.39	63	3124366	8.32	ppbV		97
28) Ethyl tert butyl ether	9.37	59	3462244	5.61	ppbV		98
29) Vinyl acetate	8.38	43	3455639	9.80	ppbV	#	67
30) 2-Butanone (MEK)	8.72	72	935312	9.91	ppbV	#	58
31) Diisopropyl ether	8.87	87	630490	4.95	ppbV		93
32) Hexane	8.84	57	2414636	6.92	ppbV	#	34
33) Methacrylonitrile	8.86	67	958804	9.26	ppbV		93
34) Ethyl acetate	9.15	61	3052503	8.38	ppbV		95
35) Bromochloromethane	9.39	49	1862059	4.91	ppbV		98
36) Methyl acrylate	9.21	55	1111782	4.74	ppbV	#	85

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275I.D
Acq Time : 27 Mar 125 5:08 pm
Sample : ST62125
Misc : 10 ML
Quant Time: Mar 28 11:17 19125

Operator: SS
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37) Tetrahydrofuran	9.67	72	954830	9.48	ppbV		98
38) Isobutyl alcohol	9.45	74	215899	5.67	ppbV	#	72
39) cis-1,2-Dichloroethene	9.15	96	1591580	9.00	ppbV		88
40) 2,2-Dichloropropane	9.33	77	3025408	8.28	ppbV		97
41) Chloroform	9.39	83	2761640	8.18	ppbV		96
43) 1,1,1-Trichloroethane	10.19	97	2795705	6.74	ppbV		95
44) 1,2-Dichloroethane	10.20	62	2473463	6.54	ppbV		99
45) 1,1-Dichloropropene	10.43	75	1888660	5.46	ppbV		96
46) Cyclohexane	10.66	56	2580790	6.90	ppbV		95
47) Benzene	10.63	78	5529202	8.17	ppbV		99
48) Carbon tetrachloride	10.66	117	2752735	10.00	ppbV		99
49) t-Amyl methyl ether	10.87	73	3109654	3.47	ppbV		96
50) 2,2,4-Trimethylpentane	11.16	57	6649653	5.24	ppbV		100
51) n-Heptane	11.38	71	1258308	5.06	ppbV		97
52) 1,2-Dichloropropane	11.54	63	2030208	6.94	ppbV		98
53) 1,4 Dioxane	11.69	88	2742903	14.62	ppbV		97
54) Dibromomethane	11.66	174	983847	3.34	ppbV	#	88
55) Trichloroethene (TCE)	11.57	130	1982649	6.46	ppbV		98
56) Bromodichloromethane	11.74	83	1641505	3.81	ppbV		99
57) Methyl methacrylate	11.67	69	1473387	6.34	ppbV		98
58) 4-Methyl-2-pentanone (MIBK	12.42	58	1949842	6.06	ppbV		97
59) cis-1,3-Dichloropropene	12.56	75	3303119	8.97	ppbV		99
61) Toluene	13.38	91	7494070	7.92	ppbV		95
62) trans-1,3-Dichloropropene	13.16	75	3313966	8.96	ppbV		100
63) 1,1,2-Trichloroethane	13.38	61	1867775	7.94	ppbV		95
64) Ethyl methacrylate	13.52	69	1748669	3.96	ppbV		98
65) 2-Hexanone	13.65	58	2797656	5.21	ppbV		95
66) 1,3-Dichloropropane	13.72	76	2975974	5.38	ppbV		98
67) Octane	13.93	85	2016965	5.40	ppbV		89
68) Dibromochloromethane	14.16	129	1846523	3.90	ppbV		98
69) 1,2-Dibromoethane (EDB)	14.47	107	2025460	3.45	ppbV		98
70) Tetrachloroethene (PCE)	14.54	166	1592854	3.43	ppbV		96
72) Chlorobenzene	15.48	112	5366950	7.04	ppbV	m	97
73) 1,1,1,2-Tetrachloroethane	15.50	131	1377333	4.25	ppbV	m	93
74) Ethylbenzene	15.75	91	11418161	8.48	ppbV	m	94
75) m,p-Xylenes	15.91	91	9581504	7.97	ppbV	m	91
76) Nonane	16.28	57	3653028	3.78	ppbV	m	98
77) Styrene	16.45	104	6860548	8.21	ppbV	m	97
78) Bromoform	16.50	173	1286469	2.53	ppbV	m	99
79) o-Xylene	16.54	91	9651888	7.68	ppbV	m	95
80) 1,1,2,2-Tetrachloroethane	16.86	83	3619055	3.53	ppbV	m	98
81) 1,2,3-Trichloropropane	17.07	110	1089458	3.93	ppbV	m	96
82) t-1,4-Dichloro-2-butene	17.08	53	579802	4.54	ppbV	m	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275I.D
Acq Time : 27 Mar 125 5:08 pm
Sample : ST62125
Misc : 10 ML
Quant Time: Mar 28 11:17 19125

Operator: SS
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
83) n-Propylbenzene	17.87	91	11682230	5.13	ppbV	m	98
84) Isopropylbenzene	18.07	105	20146614	8.24	ppbV	m	97
85) 4-Ethyltoluene	18.07	105	20146614	12.29	ppbV	m	95
86) 1,3,5-Trimethylbenzene	18.16	105	12150882	8.23	ppbV	m	76
87) Decane	18.45	57	6794674	3.86	ppbV	m	97
88) tert-butyl benzene	18.76	119	7554332	4.35	ppbV	m	95
89) 1,2,4-Trimethylbenzene	18.77	105	11618027	7.46	ppbV	m	96
90) i-Butylbenzene	19.06	91	11191338	5.09	ppbV	m	97
91) sec-butylbenzene	19.15	105	12540715	5.29	ppbV	m	97
92) 1,3-Dichlorobenzene	19.22	146	4877265	4.91	ppbV	m	96
93) Isopropyltoluene	19.35	119	10014080	4.54	ppbV	m	99
94) Benzyl chloride	19.28	91	5642040	7.23	ppbV	m	98
95) 1,4-Dichlorobenzene	19.22	146	4760080	5.27	ppbV	m	96
96) n-Butylbenzene	20.02	91	9501693	3.85	ppbV	m	97
97) 1,2-Dichlorobenzene	19.90	146	4627116	4.00	ppbV	m	96
98) 1,2-Dibromo-3-chloropropan	20.84	75	886749	3.82	ppbV	m	75
99) 1,2,4-Trichlorobenzene	22.76	180	74743	1.01	ppbV	m	94
100) Naphthalene	23.05	128	52653	0.68	ppbV	m	91
101) 1,2,3-Trichlorobenzene	23.51	180	17120	1.52	ppbV	m	0
102) Hexachlorobutadiene	23.34	225	1105142	1.28	ppbV	m	95

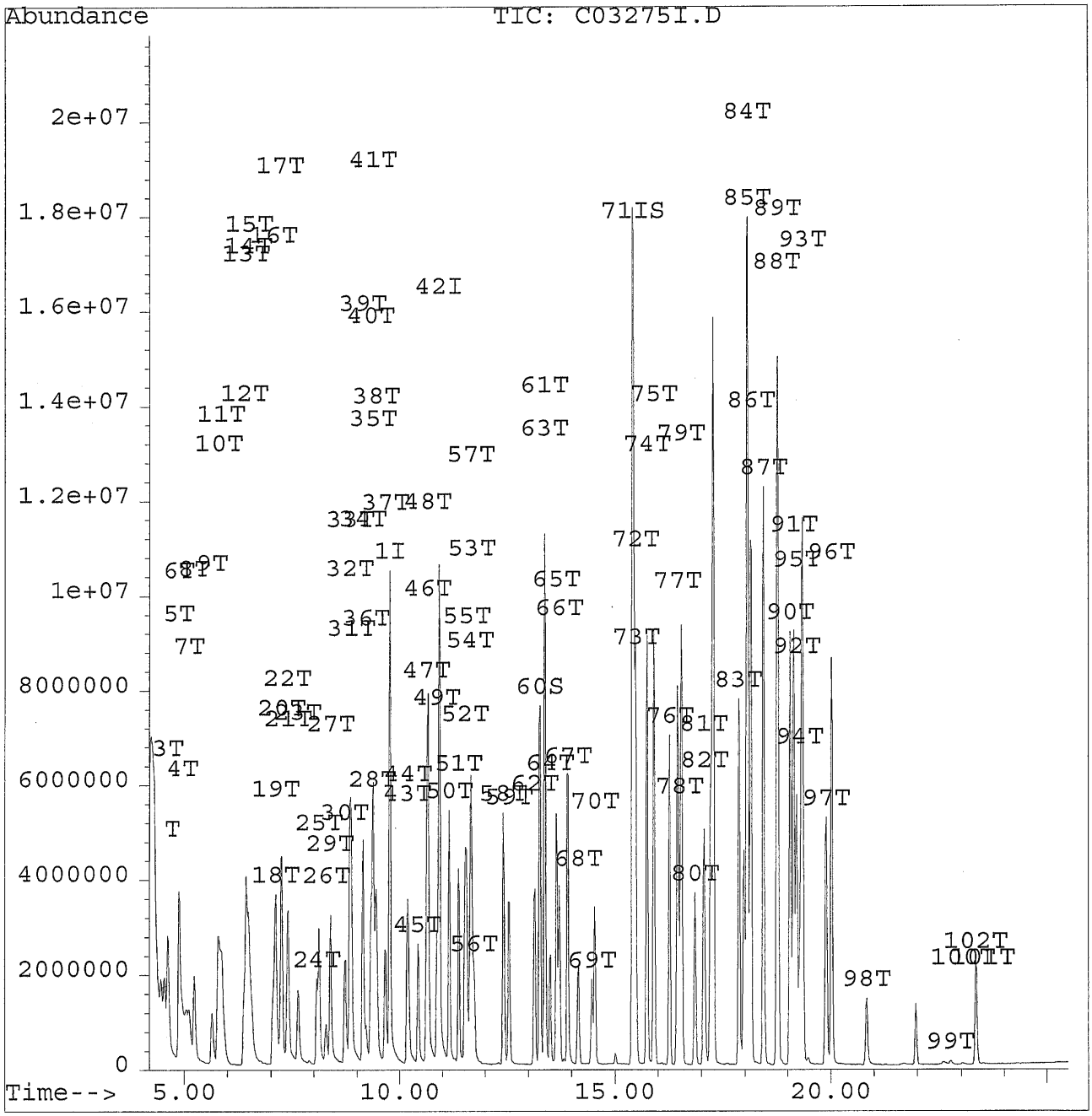
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275I.D
Acq Time : 27 Mar 125 5:08 pm
Sample : ST62125
Misc : 10 ML
Quant Time: Mar 28 11:17 19125

Operator: SS
Inst : 5970 - M
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275I.D
Acq Time : 27 Mar 125 5:08 pm
Sample : ST62125
Misc : 10 ML

Operator: SS
Inst : 5970 - MS
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	96	-0.05
2	T	Propylene	0.246	0.237	3.6	88	0.12
3	T	Dichlorodifluoromethane	1.109	1.050	5.3	75	0.13
4	T	Methanol	1.100	0.957	12.9	91	0.10
5	T	Chloromethane	0.391	0.379	3.0	79	0.10
6	T	1,2-Dichlorotetrafluoroetha	0.898	0.910	-1.3	84	0.10
7	T	Vinyl chloride	0.389	0.317	18.4	66	0.10
8	T	1,3-Butadiene	0.339	0.337	0.7	85	0.10
9	T	Bromomethane	0.318	0.374	-17.5	101	0.09
10	T	Chloroethane	0.192	0.172	10.7	78	0.08
11	T	Ethanol	0.142	0.121	15.2	111	0.13
12	T	Acrolein	0.130	0.118	8.6	83	0.08
13	T	Trichlorofluoromethane	0.737	0.707	4.0	85	0.05
14	T	Acetone	0.238	0.188	21.3	88	0.06
15	T	2-propanol (isopropylalcoho	0.996	1.065	-7.0	93	0.05
16	T	t-Butyl alcohol	0.910	0.958	-5.2	92	0.03
17	T	Methyl iodide	0.749	0.752	-0.4	84	0.03
18	T	1,1-Dichloroethene	0.673	0.657	2.3	92	0.04
19	T	Acrylonitrile	0.332	0.270	18.7	74	0.04
20	T	1,1,2-Trichlorotrifluoroeth	0.453	0.489	-8.1	96	0.04
21	T	Allyl chloride	0.172	0.151	12.2	81	0.03
22	T	Methylene chloride	0.239	0.190	20.7	70	0.04
23	T	Carbon disulfide	0.883	0.830	6.0	80	0.01
24	T	trans-1,2-Dichloroethene	0.334	0.305	8.7	87	0.00
25	T	Methyl tert butyl ether	1.105	1.006	9.0	84	0.00
26	T	Propionitrile	0.327	0.283	13.6	80	-0.02
27	T	1,1-Dichloroethane	0.796	0.755	5.0	90	-0.01
28	T	Ethyl tert butyl ether	1.308	1.218	6.8	87	-0.04
29	T	Vinyl acetate	0.747	0.803	-7.5	79	-0.01
30	T	2-Butanone (MEK)	0.200	0.188	6.0	83	-0.04
31	T	Diisopropyl ether	0.270	0.247	8.4	86	-0.02
32	T	Hexane	0.739	0.668	9.7	84	-0.02
33	T	Methacrylonitrile	0.219	0.204	6.9	85	-0.02
34	T	Ethyl acetate	0.771	0.712	7.7	84	-0.02
35	T	Bromochloromethane	0.803	0.714	11.0	80	-0.05
36	T	Methyl acrylate	0.497	0.480	3.5	75	-0.03
37	T	Tetrahydrofuran	0.213	0.188	12.0	86	-0.04
38	T	Isobutyl alcohol	0.081	0.060	25.1	103	-0.06
39	T	cis-1,2-Dichloroethene	0.374	0.357	4.5	89	-0.02
40	T	2,2-Dichloropropane	0.774	0.694	10.3	82	-0.04
41	T	Chloroform	0.715	0.613	14.2	78	-0.04

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275I.D
Acq Time : 27 Mar 125 5:08 pm
Sample : ST62125
Misc : 10 ML

Operator: SS
Inst : 5970 - MS
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
42	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	-0.08
43	T	1,1,1-Trichloroethane	0.658	0.527	19.9	76	-0.06
44	T	1,2-Dichloroethane	0.600	0.453	24.5	71	-0.07
45	T	1,1-Dichloropropene	0.549	0.439	20.0	77	-0.07
46	T	Cyclohexane	0.593	0.516	13.1	81	-0.08
47	T	Benzene	1.074	0.982	8.5	94	-0.07
48	T	Carbon tetrachloride	0.437	0.486	-11.2	82	-0.07
49	T	t-Amyl methyl ether	1.421	1.072	24.5	83	-0.08
50	T	2,2,4-Trimethylpentane	2.015	1.867	7.3	91	-0.09
51	T	n-Heptane	0.395	0.318	19.4	80	-0.10
52	T	1,2-Dichloropropane	0.464	0.352	24.1	74	-0.10
53	T	1,4 Dioxane	0.298	0.248	16.5	89	-0.10
54	T	Dibromomethane	0.467	0.400	14.3	77	-0.09
55	T	Trichloroethene (TCE)	0.487	0.355	27.1	72	-0.10
56	T	Bromodichloromethane	0.683	0.624	8.6	77	-0.11
57	T	Methyl methacrylate	0.368	0.333	9.5	80	-0.09
58	T	4-Methyl-2-pentanone (MIBK)	0.510	0.395	22.7	81	-0.12
59	T	cis-1,3-Dichloropropene	0.584	0.576	1.5	86	-0.11
60	S	Toluene-d8	1.230	1.287	-4.7	104	-0.12
61	T	Toluene	1.500	1.298	13.5	86	-0.12
62	T	trans-1,3-Dichloropropene	0.587	0.577	1.7	80	-0.12
63	T	1,1,2-Trichloroethane	0.373	0.328	12.1	88	-0.14
64	T	Ethyl methacrylate	0.700	0.579	17.2	80	-0.12
65	T	2-Hexanone	0.852	0.604	29.1	76	-0.14
66	T	1,3-Dichloropropane	0.878	0.693	21.0	78	-0.14
67	T	Octane	0.593	0.566	4.5	90	-0.12
68	T	Dibromochloromethane	0.752	0.708	5.9	74	-0.14
69	T	1,2-Dibromoethane (EDB)	0.932	0.697	25.2	68	-0.14
70	T	Tetrachloroethene (PCE)	0.736	0.546	25.9	69	-0.15
71	IS	Chlorobenzene-d5	1.000	1.000	0.0	86	-0.14
72	T	Chlorobenzene	1.009	0.821	18.6	73	-0.14
73	T	1,1,1,2-Tetrachloroethane	0.429	0.425	0.9	76	-0.15
74	T	Ethylbenzene	1.781	1.626	8.7	81	-0.15
75	T	m,p-Xylenes	1.591	1.361	14.4	77	-0.16
76	T	Nonane	1.278	0.980	23.3	67	-0.14
77	T	Styrene	1.106	0.997	9.8	75	-0.16
78	T	Bromoform	0.671	0.612	8.8	63	-0.17
79	T	o-Xylene	1.662	1.411	15.1	75	-0.17
80	T	1,1,2,2-Tetrachloroethane	1.356	1.016	25.1	62	-0.16
81	T	1,2,3-Trichloropropane	0.366	0.283	22.9	65	-0.15

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSCHEM\1\DATA\03275A_C\C03275I.D
Acq Time : 27 Mar 125 5:08 pm
Sample : ST62125
Misc : 10 ML

Operator: SS
Inst : 5970 - MS
Multiplr: 1.00

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA TO-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
82	T	t-1,4-Dichloro-2-butene	0.169	0.133	21.3	57	-0.16
83	T	n-Propylbenzene	3.012	2.407	20.1	69	-0.17
84	T	Isopropylbenzene	3.234	4.106	-27.0	125	-0.16
85	T	4-Ethyltoluene	2.169	1.715	20.9	89	-0.16
86	T	1,3,5-Trimethylbenzene	1.952	1.770	9.3	79	-0.15
87	T	Decane	2.327	1.712	26.4	69	-0.16
88	T	tert-butyl benzene	2.295	1.744	24.0	76	-0.17
89	T	1,2,4-Trimethylbenzene	2.061	1.721	16.5	72	-0.18
90	T	i-Butylbenzene	2.908	2.601	10.5	74	-0.18
91	T	sec-butylbenzene	3.135	2.746	12.4	70	-0.17
92	T	1,3-Dichlorobenzene	1.314	0.915	30.4#	52	-0.17
93	T	Isopropyltoluene	2.915	2.219	23.9	75	-0.18
94	T	Benzyl chloride	1.033	1.188	-15.1	68	-0.18
95	T	1,4-Dichlorobenzene	1.196	0.957	20.0	62	-0.17
96	T	n-Butylbenzene	3.264	2.244	31.2#	60	-0.18
97	T	1,2-Dichlorobenzene	1.531	0.943	38.4#	44#	-0.17
98	T	1,2-Dibromo-3-chloropropane	0.307	0.187	39.2#	26#	-0.19
99	T	1,2,4-Trichlorobenzene	0.098	0.025	74.2#	10#	-0.18
100	T	Naphthalene	0.103	0.046	55.8#	24#	-0.17
101	T	1,2,3-Trichlorobenzene	0.015	0.005	69.1#	14#	-0.20
102	T	Hexachlorobutadiene	1.138	0.580	49.0#	25#	-0.20

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Response Factor Report 5970 - MS

Method : C:\MSCHEM\1\METHODS\A15CS2_P.M
Title : EPA T0-15
Last Update : Fri Mar 28 11:07:25 2025
Response via : Initial Calibration

Calibration Files
0.25 =C03275B.D 1.0 =C03275D.D 2.0 =C03275E.D
5.0 =C03275F.D 10.0 =C03275G.D 20.0 =C03275H.D

		Compound	0.25	1.0	2.0	5.0	10.0	20.0	Avg	%RSD
1)	I	Pentafluorobenzene		----------ISTD----------						
2)	T	Propylene	0.324	0.240	0.236	0.211	0.261	0.204	0.246	17.64
3)	T	Dichlorodifluoromet	0.971	1.124	1.153	1.055	1.346	1.006	1.109	12.14
4)	T	Methanol	1.113	1.141	1.198	1.365	1.009	0.772	1.100	18.06
5)	T	Chloromethane		0.387	0.406	0.367	0.463	0.331	0.391	12.52
6)	T	1,2-Dichlorotetrafl		0.891	0.941	0.870	1.045	0.743	0.898	12.23
7)	T	Vinyl chloride	0.377	0.368	0.415	0.385	0.460	0.330	0.389	11.35
8)	T	1,3-Butadiene	0.293	0.348	0.372	0.344	0.383	0.297	0.339	11.01
9)	T	Bromomethane		0.276	0.346	0.302	0.356	0.310	0.318	10.33
10)	T	Chloroethane	0.151	0.210	0.211	0.185	0.211	0.188	0.192	12.28
11)	T	Ethanol	0.135	0.127	0.134	0.236	0.104	0.118	0.142	33.18
12)	T	Acrolein	0.135	0.128	0.118	0.140	0.137	0.120	0.130	6.98
13)	T	Trichlorofluorometh		0.731	0.755	0.700	0.796	0.701	0.737	5.49
14)	T	Acetone	0.381	0.232	0.202	0.217	0.206	0.193	0.238	29.85
15)	T	2-propanol (isoprop		0.650	0.614	1.532	1.100	1.082	0.996	37.97
16)	T	t-Butyl alcohol	0.976	0.675	0.579	1.263	0.998	0.969	0.910	27.13
17)	T	Methyl iodide		0.654	0.789	0.758	0.859	0.687	0.749	10.89
18)	T	1,1-Dichloroethene	0.759	0.639	0.710	0.643	0.689	0.596	0.673	8.66
19)	T	Acrylonitrile	0.406	0.259	0.277	0.370	0.352	0.324	0.332	16.98
20)	T	1,1,2-Trichlorotrif		0.439	0.469	0.426	0.492	0.437	0.453	5.98
21)	T	Allyl chloride	0.190	0.169	0.189	0.165	0.179	0.141	0.172	10.55
22)	T	Methylene chloride	0.260	0.260	0.247	0.207	0.261	0.200	0.239	11.77
23)	T	Carbon disulfide		0.834	0.903	0.833	0.994	0.851	0.883	7.76
24)	T	trans-1,2-Dichloroe	0.340	0.345	0.335	0.323	0.338	0.322	0.334	2.76
25)	T	Methyl tert butyl e	1.073	1.073	1.102	1.109	1.153	1.122	1.105	2.76
26)	T	Propionitrile	0.306	0.270	0.285	0.440	0.339	0.323	0.327	18.51
27)	T	1,1-Dichloroethane	0.761	0.809	0.819	0.765	0.811	0.808	0.796	3.20
28)	T	Ethyl tert butyl et	1.200	1.319	1.312	1.397	1.341	1.276	1.308	5.05
29)	T	Vinyl acetate	0.515	0.521	0.649	0.839	0.979	0.981	0.747	28.81
30)	T	2-Butanone (MEK)	0.131	0.192	0.206	0.239	0.217	0.214	0.200	18.62
31)	T	Diisopropyl ether		0.255	0.270	0.280	0.276	0.269	0.270	3.57
32)	T	Hexane		0.854	0.736	0.655	0.768	0.684	0.739	10.49
33)	T	Methacrylonitrile	0.214	0.196	0.202	0.252	0.232	0.221	0.219	9.42
34)	T	Ethyl acetate	0.675	0.753	0.724	0.827	0.817	0.832	0.771	8.38
35)	T	Bromochloromethane	0.668	0.809	0.827	0.850	0.854	0.808	0.803	8.59
36)	T	Methyl acrylate	0.293	0.391	0.439	0.586	0.616	0.657	0.497	28.99
37)	T	Tetrahydrofuran	0.177	0.208	0.203	0.269	0.210	0.213	0.213	14.15
38)	T	Isobutyl alcohol	0.097		0.073	0.120	0.057	0.057	0.081	33.96
39)	T	cis-1,2-Dichloroeth	0.345	0.384	0.371	0.377	0.388	0.382	0.374	4.16
40)	T	2,2-Dichloropropane	0.692	0.788	0.770	0.768	0.813	0.814	0.774	5.78
41)	T	Chloroform	0.634	0.742	0.724	0.729	0.759	0.702	0.715	6.14
42)	I	1,4-Difluorobenzene		----------ISTD----------						
43)	T	1,1,1-Trichloroetha	0.570	0.656	0.644	0.671	0.690	0.715	0.658	7.54
44)	T	1,2-Dichloroethane	0.549	0.579	0.555	0.615	0.634	0.666	0.600	7.73
45)	T	1,1-Dichloropropene	0.498	0.549	0.525	0.566	0.564	0.589	0.549	5.92
46)	T	Cyclohexane	0.517	0.640	0.595	0.597	0.627	0.583	0.593	7.23
47)	T	Benzene		1.244	1.011	1.069	1.035	1.008	1.074	9.16
48)	T	Carbon tetrachlorid	0.221	0.344	0.384	0.509	0.590	0.572	0.437	33.16

49)	T	t-Amyl methyl ether		1.730	1.432	1.364	1.280	1.300	1.421	12.85
50)	T	2,2,4-Trimethylpent	1.814	2.179	1.989	1.986	2.020	2.098	2.015	6.12
51)	T	n-Heptane	0.363	0.416	0.384	0.390	0.392	0.422	0.395	5.52
52)	T	1,2-Dichloropropane	0.405	0.474	0.480	0.481	0.474	0.469	0.464	6.31
53)	T	1,4 Dioxane	0.267	0.275	0.267	0.431	0.276	0.270	0.298	21.97
54)	T	Dibromomethane	0.401	0.431	0.432	0.502	0.515	0.520	0.467	11.02
55)	T	Trichloroethene (TC	0.503	0.514	0.457	0.494	0.486	0.465	0.487	4.55
56)	T	Bromodichloromethan	0.447	0.576	0.619	0.757	0.800	0.898	0.683	24.21
57)	T	Methyl methacrylate	0.286	0.312	0.362	0.425	0.412	0.414	0.368	15.92
58)	T	4-Methyl-2-pentanon	0.489	0.470	0.481	0.630	0.480	0.512	0.510	11.78
59)	T	cis-1,3-Dichloropro	0.392	0.495	0.537	0.655	0.664	0.763	0.584	23.04
60)	S	Toluene-d8	1.253	1.215	1.227	1.196	1.225	1.260	1.230	1.94
61)	T	Toluene		1.553	1.500	1.628	1.490	1.330	1.500	7.31
62)	T	trans-1,3-Dichlorop	0.390	0.434	0.487	0.673	0.710	0.825	0.587	29.65
63)	T	1,1,2-Trichloroetha	0.327	0.401	0.369	0.413	0.368	0.361	0.373	8.27
64)	T	Ethyl methacrylate		0.552	0.641	0.775	0.715	0.816	0.700	15.11
65)	T	2-Hexanone	0.888	0.693	0.752	1.139	0.784	0.852	0.852	18.47
66)	T	1,3-Dichloropropane	0.774	0.872	0.846	0.939	0.879	0.956	0.878	7.50
67)	T	Octane	0.501	0.600	0.610	0.584	0.622	0.639	0.593	8.22
68)	T	Dibromochloromethan	0.375	0.598	0.656	0.878	0.951	1.054	0.752	33.74
69)	T	1,2-Dibromoethane (	0.739	0.868	0.858	1.019	1.007	1.100	0.932	14.24
70)	T	Tetrachloroethene (	0.572	0.753	0.730	0.766	0.786	0.809	0.736	11.50
71)	IS	Chlorobenzene-d5		----------ISTD----------						
72)	T	Chlorobenzene	0.950	1.096	1.074	1.161	0.969	0.802	1.009	12.78
73)	T	1,1,1,2-Tetrachloro	0.255	0.400	0.459	0.543	0.480	0.434	0.429	22.75
74)	T	Ethylbenzene	1.635	2.003	1.955	2.034	1.726	1.329	1.781	15.33
75)	T	m,p-Xylenes	1.525	1.729	1.789	1.748	1.527	1.225	1.591	13.35
76)	T	Nonane	1.197	1.437	1.391	1.249	1.269	1.127	1.278	9.15
77)	T	Styrene	1.041	1.013	1.153	1.271	1.153	1.001	1.106	9.52
78)	T	Bromoform	0.433	0.534	0.589	0.801	0.843	0.829	0.671	26.12
79)	T	o-Xylene	1.577	1.772	1.816	1.878	1.631	1.298	1.662	12.71
80)	T	1,1,2,2-Tetrachloro	1.382	1.212	1.343	1.500	1.415	1.287	1.356	7.43
81)	T	1,2,3-Trichloroprop	0.349	0.350	0.374	0.421	0.374	0.330	0.366	8.63
82)	T	t-1,4-Dichloro-2-bu		0.106	0.139	0.195	0.203	0.202	0.169	26.08
83)	T	n-Propylbenzene	2.864	3.297	3.584	3.260	3.022	2.048	3.012	17.70
84)	T	Isopropylbenzene	3.657	3.529	3.908	3.592	2.844	1.871	3.234	23.38
85)	T	4-Ethyltoluene	2.127	2.234	3.162	2.652	1.662	1.175	2.169	32.42
86)	T	1,3,5-Trimethylbenz	1.765	1.690	2.618	2.314	1.933	1.389	1.952	22.85
87)	T	Decane	2.531	2.467	2.818	2.429	2.150	1.566	2.327	18.46
88)	T	tert-butyl benzene	2.422	2.590	2.902	2.496	1.974	1.387	2.295	23.38
89)	T	1,2,4-Trimethylbenz	1.734	1.721	2.852	2.622	2.069	1.367	2.061	27.84
90)	T	i-Butylbenzene	2.122	2.887	3.617	3.316	3.014	2.491	2.908	18.67
91)	T	sec-butylbenzene	2.414	2.589	4.320	3.907	3.367	2.214	3.135	27.52
92)	T	1,3-Dichlorobenzene	1.346	1.048		1.603	1.513	1.060	1.314	19.39
93)	T	Isopropyltoluene	3.360	3.144	3.575	3.202	2.559	1.648	2.915	24.26
94)	T	Benzyl chloride	0.884	0.496	0.804	1.242	1.514	1.257	1.033	35.92
95)	T	1,4-Dichlorobenzene	1.351	0.976	1.256	1.470	1.325	0.796	1.196	21.43
96)	T	n-Butylbenzene	3.991	3.012	3.544	3.659	3.227	2.151	3.264	19.70
97)	T	1,2-Dichlorobenzene	1.700	1.017	1.369	1.975	1.864	1.259	1.531	24.47
98)	T	1,2-Dibromo-3-chlor		0.088	0.147	0.391	0.613	0.297	0.307	68.03
99)	T	1,2,4-Trichlorobenz	0.121	0.046	0.034	0.078	0.211		0.098	72.99
100)	T	Naphthalene	0.141	0.092	0.053	0.063	0.165		0.103	47.34
101)	T	1,2,3-Trichlorobenz	0.018	0.011	0.008	0.008	0.029		0.015	59.40
102)	T	Hexachlorobutadiene		0.613	0.771	1.608	1.974	0.724	1.138	53.83

(#) = Out of Range

A15CS2_P.M Fri Mar 28 11:18:40 2025

Section 5 Standard Calibration Certificates

This section contains the Standard Calibration Certificates for the Standards and Internal Standards.

Section Contents

Standard Calibration Certificates

STANDARD CERTIFICATE
CALIBRATION GAS STANDARD

EPA Method TO-15 Calibration Standard

Standard: ST62126
Prepared: 5/12/2018
Recertified: 10/5/2023
Expiration: 10/5/2028

CAS	Component	MW	Std ppmv
	TO-14 Gas		
75-71-8	Freon 12	120.9	0.95
74-87-3	Chloromethane	50.5	0.95
76-14-2	Freon 114	170.9	0.95
106-99-0	1,3-Butadiene	54.1	0.95
74-83-9	Bromomethane	94.9	0.95
75-00-3	Chloroethane	64.5	0.95
75-37-6	1,1-Difluoroethane	66.05	0.95
75-01-4	Vinyl chloride	62.5	0.95
	TO-14 Mix A		
75-09-2	Dichloromethane	84.9	0.92
67-66-3	Chloroform	119.4	0.95
75-69-4	Trichlorofluoromethane	137.4	0.91
107-06-2	1,2-Dichloroethane	99	0.87
71-55-6	1,1,1-Trichloroethane	133.4	0.84
56-23-5	Carbon Tetrachloride	153.8	0.90
78-87-5	1,2-Dichloropropane	113	0.92
79-01-6	Trichloroethene	131.4	0.89
106-93-4	1,2-Dibromoethane	187.9	0.46
127-18-4	Tetrachloroethene	165.8	0.46
108-90-7	Chlorobenzene	112.6	0.87
79-34-5	1,1,2,2-Tetrachloroethane	167.8	0.47
541-73-1	1,3-Dichlorobenzene	147	0.70
106-46-7	1,4-Dichlorobenzene	147	0.66
95-50-1	1,2-Dichlorobenzene	147	0.62
120-82-1	1,2,4-Trichlorobenzene	181.4	0.33
87-68-3	Hexachlorobutadiene	260.8	0.25
	TO-14 Mix B		
71-43-2	Benzene	78.1	0.89
108-88-3	Toluene	92.1	0.92
100-41-4	Ethylbenzene	106.2	0.93
1330-20-7	m,p-Xylenes	106.2	0.93
100-42-5	Styrene	104.2	0.91
95-47-6	o-Xylene	106.2	0.91
TO-15 N	4-Ethyltoluene (Added to TO-15)	120.2	0.91
108-67-8	1,3,5-Trimethylbenzene	120.2	0.91
95-63-6	1,2,4-Trimethylbenzene	120.2	0.89
10061-01-5	c-1,3-Dichloropropene	111	0.91
10061-02-6	t-1,3-Dichloropropene	111	0.91

75-34-3	1,1-Dichloroethane	99	0.88
75-35-4	1,1-Dichloroethene	96.9	0.87
156-59-2	c-1,2-Dichloroethene	96.9	0.94
79-00-5	1,1,2-Trichloroethane	133.4	0.90
76-13-1	Freon 113	187.3	0.84
	TO-15 Normal		
78-93-3	2-Butanone	72.1	1.06
67-64-1	Acetone	58.1	1.28
75-15-0	Carbon Disulfide	76.1	0.96
75-25-2	Bromoform	252.7	0.28
108-10-1	4-Methyl-2-pentanone	100.2	0.78
591-78-6	2-Hexanone	100.2	0.74
75-27-4	Bromodichloromethane	163.8	0.42
124-48-1	Dibromochloromethane	208.3	0.41
108-05-4	Vinyl acetate	86.1	0.91
156-60-5	t-1,2-Dichloroethene(total)	96.9	0.75
100-44-7	Benzylchloride	126.6	0.63
622-96-8	4-Ethyltoluene	120.2	0.64
1634-04-4	Methyl t-butyl ether	88.1	0.76
110-82-7	Cyclohexane	84.2	0.79
594-20-7	2,2-Dichloropropane	113	0.92
110-54-3	Hexane	86.2	0.77
630-20-6	1,1,1,2-Tetrachloroethane	167.8	0.43
74-97-5	Bromochloromethane	163.8	0.55
540-84-1	2,2,4-Trimethylpentane (isooctane)	114.2	0.56
107-05-1	Allyl Chloride	76.5	1.00
141-78-6	Ethyl acetate	88.1	0.91
142-82-5	Heptane	100.2	0.63
11-65-9	Octane	114.2	0.57
111-84-2	Nonane	128.2	0.49
124-18-5	Decane	142.3	0.53
563-58-6	1,1-Dichloropropene	111	0.68
96-18-4	1,2,3 Trichloropropane	147.4	0.51
142-28-9	1,3-Dichloropropane	113	0.68
74-95-3	Dibromomethane	173.8	0.39
80-62-6	Methyl methacrylate	100.1	0.70
	TO-15 Extended		
123-91-1	1,4-Dioxane	88.1	1.75
64-17-5	Ethanol	46.1	3.21
104-51-8	n-Butylbenzene	134.2	0.56
135-98-8	sec-Butylbenzene	134.2	0.60
98-06-6	tert-butylbenzene	134.2	0.57
104-51-8	i-Butylbenzene	134.2	0.57
99-87-6	p-Isopropyltoluene(cymene)	134.2	0.60
110-57-6	t-1,4-Dichloro-2-butene	125	0.58
98-82-8	Isopropylbenzene (Cumene)	120.2	0.65
103-65-1	n-Propylbenzene	120.2	0.64
96-12-8	1,2-Dibromo-3-chloropropane	236.3	0.63
75-05-8	Acetonitrile	41.1	1.90
109-99-9	Tetrahydrofuran	72.1	1.08
67-63-0	2-Propanol (Isopropanol)	60.1	1.23
107-02-8	Acrolein	56.1	1.38

	TO-15 Special		
67-56-1	Methanol	32	1.57
75-65-0	t-Butanol	74.1	0.91
95-49-8	2-Chlorotoluene	126.6	0.44
126-98-7	Methacrylonitrile	67.1	1.00
97-63-2	Ethyl methacrylate	114.2	0.48
4227-95-6	Methyl iodide	142.9	0.28
107-12-0	Propionitrile	55.1	1.30
78-83-1	Isobutyl Alcohol (2-methyl-1-propanol)	74.1	0.76
107-13-1	Acrylonitrile	41.1	1.05
108-20-3	Di-isopropyl ether	102.2	0.54
78-00-2	Tetraethyl lead	323.4	0.17
106-43-4	4-Chlorotoluene	126.6	0.54
91-20-3	Naphthalene	128.2	0.15
87-61-6	1,2,3-Trichlorobenzene	181.5	0.17
637-92-3	Ethyl tert butyl Ether	102.2	0.60
96-33-3	Methyl Acrylate	86.1	0.49
994-05-8	tert-Amyl methyl ether	102.18	0.46

Analyst: Steve Hoyt, Ph.D.

Approved:

Section 6 Miscellaneous Documents

This section contains additional documents that pertain to the project.

Section Contents

Shipping and Receiving Documents
Contact Logs and Correspondence
Additional Documents for Sampling

ENVIRONMENTAL
Analytical Service, Inc.

Data Deliverable Package

Prepared For:
C.E. Schmidt
19200 Live Oak Road
Red Bluff CA 96080

EAS SDG Number: **225100**
Project Number: 17807
Report Sent: 4/11/2025
Sample Event Date:),3/20,3/21/2025

Client Project Manager: Chuck Schmidt
Project Name: Chiquita Canyon
Project Number: Data Package GC TO-12/TO-14

This is the Laboratory Data Deliverable Package for the samples in the indicated Sample Delivery Group (SDG).

INDEX TO DATA PACKAGE:

Section 1 **Project Summary**
- Laboratory Work Order
- Sample Data
- Laboratory Case Narrative and Chain of Custody

Section 2 **Quality Control**
- Project QC Criteria
- DAB QC Reports

Section 3 **Analytical Methods**
- Analytical Method Description(s)
- Analytical Reports

Section 4 **Data Package with Quant Report and Chromatogram**
- DAB Run Logs and Preparation Log
- Sample Data Package
- Blank Data Package
- Continuing Calibration Package
- Initial Calibration Package

Section 5 **Standard Certificates**

Section 6 **SDG Documentation, Notes, Correspondence**

173 Cross Street, San Luis Obispo, California, 93401 (805) 781-3585

Section 1 Project Summary

The following pages provide detailed information about the sample receipt, log-in, and sample preparation. The Laboratory Work Order provides a cross reference between the Client ID number and the EAS Lab Number as well as a list of the analytical tests preformed. The items included in this section are listed below.

Section Contents

Laboratory Work Order

Sample Data

Laboratory Case Narrative

Chain of Custody

Laboratory Work Order

SDG Number: 225100
Client: Chuck Schmidt
C.E. Schmidt

Project Number: 17807
Received: 3/21/2025

SAMPLE DESCRIPTION AND ANALYSIS REQUESTED

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-101	225100 1	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-101	225100 1	ASTM D3416 Low Level Methane	3/19/2025
T-101	225100 1	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-101	225100 1	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-101	225100 1	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-102	225100 2	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-102	225100 2	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-102	225100 2	ASTM D3416 Low Level Methane	3/19/2025
T-102	225100 2	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-102	225100 2	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-103	225100 3	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-103	225100 3	ASTM D3416 Low Level Methane	3/19/2025
T-103	225100 3	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-103	225100 3	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-103	225100 3	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-104	225100 4	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-104	225100 4	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-104	225100 4	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-104	225100 4	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-104	225100 4	ASTM D3416 Low Level Methane	3/19/2025
T-105	225100 5	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-105	225100 5	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-105	225100 5	ASTM D3416 Low Level Methane	3/19/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-105	225100 5	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-105	225100 5	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-106	225100 6	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-106	225100 6	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-106	225100 6	ASTM D3416 Low Level Methane	3/19/2025
T-106	225100 6	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-106	225100 6	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-107	225100 7	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-107	225100 7	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-107	225100 7	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-107	225100 7	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-107	225100 7	ASTM D3416 Low Level Methane	3/19/2025
T-108	225100 8	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-108	225100 8	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-108	225100 8	ASTM D3416 Low Level Methane	3/19/2025
T-108	225100 8	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-108	225100 8	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-109	225100 9	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-109	225100 9	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-109	225100 9	ASTM D3416 Low Level Methane	3/19/2025
T-109	225100 9	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-109	225100 9	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-110	225100 10	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-110	225100 10	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-110	225100 10	ASTM D3416 Low Level Methane	3/19/2025
T-110	225100 10	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-110	225100 10	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-111	225100 11	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-111	225100 11	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-111	225100 11	ASTM D3416 Low Level Methane	3/19/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-111	225100 11	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-111	225100 11	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-112	225100 12	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-112	225100 12	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-112	225100 12	ASTM D3416 Low Level Methane	3/19/2025
T-112	225100 12	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-112	225100 12	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-113	225100 13	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-113	225100 13	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-113	225100 13	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-113	225100 13	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-113	225100 13	ASTM D3416 Low Level Methane	3/19/2025
T-114	225100 14	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-114	225100 14	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-114	225100 14	ASTM D3416 Low Level Methane	3/19/2025
T-114	225100 14	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-114	225100 14	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-115	225100 15	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-115	225100 15	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-115	225100 15	ASTM D3416 Low Level Methane	3/19/2025
T-115	225100 15	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-115	225100 15	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-116	225100 16	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-116	225100 16	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-116	225100 16	ASTM D3416 Low Level Methane	3/19/2025
T-116	225100 16	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-116	225100 16	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-117	225100 17	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-117	225100 17	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-117	225100 17	ASTM D3416 Low Level Methane	3/19/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-117	225100 17	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-117	225100 17	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-118	225100 18	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-118	225100 18	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-118	225100 18	ASTM D3416 Low Level Methane	3/19/2025
T-118	225100 18	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-118	225100 18	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-201	225100 19	ASTM D3416 Low Level Methane	3/20/2025
T-201	225100 19	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-201	225100 19	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-201	225100 19	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-201	225100 19	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-202	225100 20	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-202	225100 20	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-202	225100 20	ASTM D3416 Low Level Methane	3/20/2025
T-202	225100 20	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-202	225100 20	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-203	225100 21	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-203	225100 21	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-203	225100 21	ASTM D3416 Low Level Methane	3/20/2025
T-203	225100 21	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-203	225100 21	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-204	225100 22	ASTM D3416 Low Level Methane	3/20/2025
T-204	225100 22	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-204	225100 22	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-204	225100 22	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-204	225100 22	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-205	225100 23	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-205	225100 23	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-205	225100 23	ASTM D3416 Low Level Methane	3/20/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-205	225100 23	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-205	225100 23	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-206	225100 24	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-206	225100 24	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-206	225100 24	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-206	225100 24	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-206	225100 24	ASTM D3416 Low Level Methane	3/20/2025
T-207	225100 25	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-207	225100 25	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-207	225100 25	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-207	225100 25	ASTM D3416 Low Level Methane	3/20/2025
T-207	225100 25	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-208	225100 26	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-208	225100 26	ASTM D3416 Low Level Methane	3/20/2025
T-208	225100 26	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-208	225100 26	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-208	225100 26	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-209	225100 27	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-209	225100 27	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-209	225100 27	ASTM D3416 Low Level Methane	3/20/2025
T-209	225100 27	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-209	225100 27	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-210	225100 28	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-210	225100 28	ASTM D3416 Low Level Methane	3/20/2025
T-210	225100 28	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-210	225100 28	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-210	225100 28	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-211	225100 29	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-211	225100 29	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-211	225100 29	EPA TO-12 C2 to C12 CRYO	3/20/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-211	225100 29	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-211	225100 29	ASTM D3416 Low Level Methane	3/20/2025
T-212	225100 30	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-212	225100 30	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-212	225100 30	ASTM D3416 Low Level Methane	3/20/2025
T-212	225100 30	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-212	225100 30	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-213	225100 31	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-213	225100 31	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-213	225100 31	ASTM D3416 Low Level Methane	3/20/2025
T-213	225100 31	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-213	225100 31	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-214	225100 32	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-214	225100 32	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-214	225100 32	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-214	225100 32	ASTM D3416 Low Level Methane	3/20/2025
T-214	225100 32	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-215	225100 33	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-215	225100 33	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-215	225100 33	ASTM D3416 Low Level Methane	3/20/2025
T-215	225100 33	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-215	225100 33	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-216	225100 34	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-216	225100 34	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-216	225100 34	ASTM D3416 Low Level Methane	3/20/2025
T-216	225100 34	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-216	225100 34	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-217	225100 35	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-217	225100 35	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-217	225100 35	ASTM D3416 Low Level Methane	3/20/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-217	225100 35	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-217	225100 35	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-218	225100 36	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-218	225100 36	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-218	225100 36	ASTM D3416 Low Level Methane	3/20/2025
T-218	225100 36	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-218	225100 36	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-301	225100 37	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-301	225100 37	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-301	225100 37	ASTM D3416 Low Level Methane	3/21/2025
T-301	225100 37	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-301	225100 37	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-302	225100 38	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-302	225100 38	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-302	225100 38	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-302	225100 38	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-302	225100 38	ASTM D3416 Low Level Methane	3/21/2025
T-303	225100 39	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-303	225100 39	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-303	225100 39	ASTM D3416 Low Level Methane	3/21/2025
T-303	225100 39	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-303	225100 39	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-304	225100 40	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-304	225100 40	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-304	225100 40	ASTM D3416 Low Level Methane	3/21/2025
T-304	225100 40	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-304	225100 40	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-305	225100 41	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-305	225100 41	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-305	225100 41	ASTM D3416 Low Level Methane	3/21/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-305	225100 41	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-305	225100 41	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-306	225100 42	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-306	225100 42	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-306	225100 42	ASTM D3416 Low Level Methane	3/21/2025
T-306	225100 42	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-306	225100 42	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-307	225100 43	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-307	225100 43	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-307	225100 43	ASTM D3416 Low Level Methane	3/21/2025
T-307	225100 43	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-307	225100 43	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-308	225100 44	ASTM D3416 Low Level Methane	3/21/2025
T-308	225100 44	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-308	225100 44	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-308	225100 44	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-308	225100 44	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-309	225100 45	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-309	225100 45	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-309	225100 45	ASTM D3416 Low Level Methane	3/21/2025
T-309	225100 45	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-309	225100 45	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-310	225100 46	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-310	225100 46	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-310	225100 46	ASTM D3416 Low Level Methane	3/21/2025
T-310	225100 46	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-310	225100 46	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-311	225100 47	ASTM D3416 Low Level Methane	3/21/2025
T-311	225100 47	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-311	225100 47	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-311	225100 47	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-311	225100 47	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-312	225100 48	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-312	225100 48	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-312	225100 48	ASTM D3416 Low Level Methane	3/21/2025
T-312	225100 48	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-312	225100 48	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-313	225100 49	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-313	225100 49	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-313	225100 49	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-313	225100 49	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-313	225100 49	ASTM D3416 Low Level Methane	3/21/2025
T-314	225100 50	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-314	225100 50	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-314	225100 50	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-314	225100 50	ASTM D3416 Low Level Methane	3/21/2025
T-314	225100 50	EPA TO-12 C2 to C12 CRYO	3/21/2025

Project Sample Media

SDG Number: 225100

The following sample media was used for this Sample Delivery Group (SDG). The Sample Media column identifies the type of media. For canisters, the Sample Media Batch gives the canister number followed by the cleaning batch number, which is a unique identification. The initial pressure of the canister when it is received is recorded. If the canister is not pressurized, the final pressure will be the same as the initial pressure. If the canister is pessurized the final pressure will be recorded, and the canister dilution factor is calculated as the ratio of the final to initial pressure. The results are adjusted for the can dilution factor.

SDG	Lab ID	Client Sample No.	Sample Media	Batch	Pressure, torr Initial	Final	Can Factor
225100	1	T-101	668		723	871	1.20
225100	2	T-102	895		734	913	1.24
225100	3	T-103	881		728	870	1.20
225100	4	T-104	860		723	947	1.31
225100	5	T-105	685		719	882	1.23
225100	6	T-106	621		718	880	1.23
225100	7	T-107	644		720	888	1.23
225100	8	T-108	556		702	886	1.26
225100	9	T-109	694		713	926	1.30
225100	10	T-110	857		707	901	1.27
225100	11	T-111	504		697	871	1.25
225100	12	T-112	631		714	882	1.24
225100	13	T-113	690		705	870	1.23
225100	14	T-114	645		701	888	1.27
225100	15	T-115	654		696	881	1.27
225100	16	T-116	782		706	881	1.25
225100	17	T-117	643		709	883	1.25
225100	18	T-118	553		783	891	1.14
225100	19	T-201	726		738	895	1.21
225100	20	T-202	883		739	873	1.18
225100	21	T-203	858		735	879	1.20
225100	22	T-204	758		743	874	1.18
225100	23	T-205	659		708	897	1.27
225100	24	T-206	882		710	883	1.24
225100	25	T-207	627		692	904	1.31

SDG	Lab ID	Client Sample No.	Sample Media	Batch	Pressure, torr Initial	Final	Can Factor
225100	26	T-208	791		709	890	1.26
225100	27	T-209	778		682	887	1.30
225100	28	T-210	714		695	882	1.27
225100	29	T-211	629		685	881	1.29
225100	30	T-212	502		687	930	1.35
225100	31	T-213	712		678	905	1.33
225100	32	T-214	610		786	875	1.11
225100	33	T-215	751		677	874	1.29
225100	34	T-216	896		632	874	1.38
225100	35	T-217	634		693	881	1.27
225100	36	T-218	698		692	877	1.27
225100	37	T-301	638		738	879	1.19
225100	38	T-302	857		734	872	1.19
225100	39	T-303	552		727	877	1.21
225100	40	T-304	529		731	878	1.20
225100	41	T-305	660		709	871	1.23
225100	42	T-306	859		722	874	1.21
225100	43	T-307	636		720	878	1.22
225100	44	T-308	661		717	875	1.22
225100	45	T-309	579		726	877	1.21
225100	46	T-310	771		679	874	1.29
225100	47	T-311	605		680	873	1.28
225100	48	T-312	990		689	913	1.33
225100	49	T-313	549		695	872	1.25
225100	50	T-314	784		701	876	1.25

Laboratory Case Narrative

EAS SDG Number: 225100 **Project Number:** 17807

Client: C.E. Schmidt

The Laboratory Case Narrative for the SDG is below. The Chain of Custody form(s) follow the Laboratory Case Narrative.

Sample Control Narrative

The samples were all received in good condition and with proper preservation.

Analytical Methods

The methods used for sample analysis are listed on the Analytyical Report header, and have been modified as described in the EAS Quality Manual..

Case Narrative

QC Narrative

All analyses met EAS method criteria as defined in the Quality Manual, except as noted in the report or QC reports with data qualifiers.

Subcontract Narrative

No sample analysis was subcontracted for this project

Laboratory Certification

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness other than the condition(s) noted above. The Laboratory Report is property of EAS and its client. The entire report has been reviewed and approved.

Date Approved: 4/15/2025

Steven D. Hoyt, Ph.D.
Environmental Analytical Service
Laboratory Director

001416 of 004929

CE Schmidt, PhD, Environmental Consultant 225100 **TO-15 Day 1**

Chain of Custody Record

Form Serial Number: CES F1-02106	For Information Regarding These Samples Please Contact:
Client Name: *SCS* / *Chiquita Canyon Landfill*	**Dr. Charles E. Schmidt**
Project Manager: *Pat Sullivan*	19200 Live Oak Road, Red Bluff, CA 96080
Requested Completion Date	530-529-4256 Cell: 530-200-2473
	E-Mail: SCHMIDTCE@aol.com

Client Address and Phone Number: *3900 Kilroy Airport Way, Suite 100, Long Beach, CA 90806 562-743-7895*

Laboratory Name: *EAS* 17807

Laboratory Address: *173 Cross Street, San Luis Obispo, CA 93401*

Laboratory Phone: *805-781-3585*

Laboratory Contact: *Dr. Steve Hoyt* *stevehoyt@easlab.com*

Station Number	Date	Time	COMP	GRAB	Sample ID Number	Can ID Number	# OF CONTAINERS	Sample Container: Vial	Can	Tube	Analysis Requested: TO-12 FID (TNMHC)	TO-14 FID (See back)	TO-15 (List on back)	Fixed gases (List on back)		Can Pressure In (Inches Hg)	Can Pressure Out (Inches	Remarks
	3/19/2025	840		x	T - 101	468	1		x		x	x	x	x		-29	0	01
	3/19/2025	856		x	T - 102	515	1		x		x	x	x	x		-29	0	02
	3/19/2025	844		x	T - 103	881	1		x		x	x	x	x		-29	0	03
	3/19/2025	837		x	T - 104	860	1		x		x	x	x	x		-29	0	04
	3/19/2025	106		x	T - 105	665	1		x		x	x	x	x		-29	0	05
	3/19/2025	1022		x	T - 106	621	1		x		x	x	x	x		-29	0	06
	3/19/2025	1022		x	T - 107	644	1		x		x	x	x	x		-29	0	07
	3/19/2025	1080		x	T - 108	556	1		x		x	x	x	x		-29	0	08
	3/19/2025	1125		x	T - 109	654	1		x		x	x	x	x		-29	0	09
	3/19/2025	1232		x	T - 110	857	1		x		x	x	x	x		-29	0	10
	3/19/2025	1138		x	T - 111	504	1		x		x	x	x	x		-29	0	11
	3/19/2025	1131		x	T - 112	631	1		x		x	x	x	x		-29	0	12
	3/19/2025	1305		x	T - 113	690	1		x		x	x	x	x		-29	0	13
	3/19/2025	1311		x	T - 114	645	1		x		x	x	x	x		-29	0	14
	3/19/2025	1253		x	T - 115	654/654	1		x		x	x	x	x		-29	0	15
	3/19/2025	1303		x	T - 116	782	1		x		x	x	x	x		-29	0	16
	3/19/2025	1303		x	T - 117	643	1		x		x	x	x	x		-29	0	17
	3/19/2025	1325		x	T - 118	553	1		x		x	x	x	x		-29	0	18

Sampler: CESCHMIDT	Date/Time: 3/21/25 1130	Relinquished by: CESCHMIDT	Date/Time: 3/21/25 1130
Recieved by: [illegible]	Date/Time	Relinquished by	Date/Time
Recieved by	Date/Time	Relinquished by	Date/Time
Recieved by Laboratory	Date/Time: 3/21/2025 1430	Sample Shipped Via: UPS FEDEX BUS Other	
Remarks	**Do Not Pressurize with Helium**		

HAZWRAP/NEESA Y N
QC Level 1 2 3
COC
Ana Req
Cust Seal
Sample Condition

File: Chiquita Cyn Forms TO-15.xlsb Form: COC TO-15 D1

001417 of 004929

CE Schmidt, PhD, Environmental Consultant

Chain of Custody Record

22510D

TO-15 Day 2

Form Serial Number: CES F1-02106	For Information Regarding These Samples Please Contact:
Client Name: *SCS* / *Chiquita Canyon Landfill*	**Dr. Charles E. Schmidt**
Project Manager: *Pat Sullivan*	19200 Live Oak Road, Red Bluff, CA 96080
Requested Completion Date	530-529-4256 Cell: 530-200-2473
	E-Mail: SCHMIDTCE@aol.com

Client Address and Phone Number: ***3900 Kilroy Airport Way, Suite 100, Long Beach, CA 90806 562-743-7895***

Laboratory Name: *EAS* 17807

Laboratory Address: ***173 Cross Street, San Luis Obispo, CA 93401***

Laboratory Phone: ***805-781-3585***

Laboratory Contact: ***Dr. Steve Hoyt*** *stevehoyt@easlab.com*

Station Number	Date	Time	COMP	GRAB	Sample ID Number	Can ID Number	# OF CONTAINERS	Sample Container: Vial	Can	Tube	Analysis Requested: TO-12 FID (TNMHC)	TO-14 FID (See back)	TO-15 (List on back)	Fixed gases (If List on back)		Can Pressure In (Inches Hg)	Can Pressure Out (Inches	Remarks
	3/20/2025	823		x	T - 201	726	1		x		x	x	x	x		-29	0	19
	3/20/2025	838		x	T - 202	883	1		x		x	x	x	x		-29	0	20
	3/20/2025	833		x	T - 203	858	1		x		x	x	x	x		-29	0	21
	3/20/2025	857		x	T - 204	758	1		x		x	x	x	x		-29	0	22
	3/20/2025	1000		x	T - 205	659	1		x		x	x	x	x		-29	0	23
	3/20/2025	955		x	T - 206	892	1		x		x	x	x	x		-29	0	24
	3/20/2025	1005		x	T - 207	627	1		x		x	x	x	x		-29	0	25
	3/20/2025	1008		x	T - 208	791	1		x		x	x	x	x		-29	0	26
	3/20/2025	1121		x	T - 209	798	1		x		x	x	x	x		-29	0	27
	3/20/2025	1121		x	T - 210	714	1		x		x	x	x	x		-29	0	28
	3/20/2025	1126		x	T - 211	629	1		x		x	x	x	x		-29	0	29
	3/20/2025	1130		x	T - 212	502	1		x		x	x	x	x		-29	0	30
	3/20/2025	1130		x	T - 213	712	1		x		x	x	x	x		-29	0	31
	3/20/2025	1257		x	T - 214	610	1		x		x	x	x	x		-29	0	32
	11	1234		x	T 215	751	1		x		x	x	x	x		-29	0	33
	11	1246		x	T 216	576	1		x		x	x	x	x		-29	0	34
	11	1248		x	T 217	624	1		x		x	x	x	x		-29	0	35
	11	1242		x	T 218	698	1		x		x	x	x	x		-29	0	36

Sampler: CE Schmidt	Date/Time: 3/21/25 1130	Relinquished by: CE Schmidt	Date/Time: 3/21/25 1130
Recieved by: EAS	Date/Time	Relinquished by	Date/Time
Recieved by	Date/Time	Relinquished by	Date/Time
Recieved by Laboratory	Date/Time: 3/21/2025 1430	Sample Shipped Via: UPS FEDEX BUS Other	
Remarks: 0	**Do Not Pressurize with Helium**		

HAZWRAP/NEESA Y N

QC Level 1 2 3

COC

Ana Req

Cust Seal

Sample Condition

File: Chiquita Cyn Forms TO-15.xlsb Form: COC TO-15 D2

CE Schmidt, PhD, Environmental Consultant

Chain of Custody Record

225100

TO-15 Day 3

Form Serial Number CES F1-02106	For Information Regarding These Samples Please Contact:
Client Name *SCS* ***Chiquita Canyon Landfill***	**Dr. Charles E. Schmidt** 19200 Live Oak Road, Red Bluff, CA 96080 530-529-4256 Cell: 530-200-2473 E-Mail: SCHMIDTCE@aol.com
Project Manager ***Pat Sullivan***	
Requested Completion Date	

Client Address and Phone Number
3900 Kilroy Airport Way, Suite 100
Long Beach, CA 90806 562-743-7895

Laboratory Name
EAS 17807

Laboratory Address
173 Cross Street
San Luis Obispo, CA 93401

Laboratory Phone
805-781-3585

Laboratory Contact
Dr. Steve Hoyt
stevehoyt@easlab.com

Station Number	Date	Time	COMP	GRAB	Sample ID Number	Can ID Number	# OF CONTAINERS	Sample Container: Vial	Can	Tube	Analysis Requested: TO-12 FID (TNMHC)	TO-14 FID (See back)	TO-15 (List on back)	Fixed gases (If List on back)		Can Pressure In (inches Hg)	Can Pressure Out (inches	Remarks
	3/21/2025	758		x	T - 301	638	1		x		x	x	x	x		-29	0	37
	3/21/2025	804		x	T - 302	857	1		x		x	x	x	x		-29	0	38
	3/21/2025	805		x	T - 303	552	1		x		x	x	x	x		-29	0	39
	3/21/2025	758		x	T - 304	529	1		x		x	x	x	x		-29	0	40
	3/21/2025	922		x	T - 305	640	1		x		x	x	x	x		-28	0	41
	3/21/2025	913		x	T - 306	854	1		x		x	x	x	x		-29	0	42
	3/21/2025	910		x	T - 307	636	1		x		x	x	x	x		-29	0	43
	3/21/2025	918		x	T - 308	661	1		x		x	x	x	x		-29	0	44
	3/21/2025	924		x	T - 309	579	1		x		x	x	x	x		-29	0	45
	3/21/2025	1018		x	T - 310	771	1		x		x	x	x	x		-29	0	46
	3/21/2025	1035		x	T - 311	605	1		x		x	x	x	x		-29	0	47
	3/21/2025	1030		x	T - 312	990	1		x		x	x	x	x		-29	0	48
	3/21/2025	1031		x	T - 313	549	1		x		x	x	x	x		-29	0	49
	3/21/2025	1038		x	T - 314	784	1		x		x	x	x	x		-29	0	50

Sampler: CE SCHMIDT	Date/Time: 3/21/25 1130	Relinquished by: CE SCHMIDT	Date/Time: 3/21/25 1130
Recieved by: EAS	Date/Time	Relinquished by	Date/Time
Recieved by	Date/Time	Relinquished by	Date/Time
Recieved by Laboratory: BH	Date/Time: 3/21/2025 1430	Sample Shipped Via: UPS FEDEX BUS Other	
Remarks	**Do Not Pressurize with Helium**		

HAZWRAP/NEESA Y N
QC Level 1 2 3
COC
Ana Req
Cust Seal
Sample Condition

Section 2 Quality Control

This section contains the QC Reports for each Daily Analytical Batch (DAB) which make up the Sample Delivery Group (SDG). It also contains either the EAS or Project QC criteria that was used for the DAB. The methods used for this project have been modified from the original method. The modifications include modifications to the QC for the method. This is either because the method did not specify certain aspects of the QC, the method was originally designed for a different matrix, or additional compounds were added to the target list of the method which required modified QC. The QC modifications used by EAS follows those used by other air testing laboratories.

The Daily Analytical Batch data was checked against the QC criteria for the method. Any deviations from the QC criteria are listed on the QC Reports for each DAB, which are summarized in this section and are given in more detail in Section 4 which has the Quantitation Reports and Calculations for the Samples, Method Blank, Lab Control Spikes, as well as the Initial Calibration and Continuing Calibration. This section contains the following:

Section Contents

Project QC Critera

DAB Quality Control Reports

- Method Blank
- Laboratory Control Spike
- Laboratory Control Duplicate

Quality Control Report

EAS SDG Number: 225100

Project Number: 17807

QC Narrative

Samples were anlayzed in a daily analytical batch (DAB) designated by a QC batch number, and were analyzed using EAS standard laboratory QC specified in the EAS Quality Manual which may be different then the referrenced agency method. Any deviations from the EAS QC criteria are flagged in the Laboratory Control Reports or in the sample Analytical Reports.

Standard Laboratory QC Report

Unless project specific QC was requested, this Section containing the standard laboratory QC (Level 2) supplied with the Analytical Reports. Each sample is analyzed in a Daily Analytical Batch (DAB) which includes the method blank, a laboratory control spike (LCS) and a laboratory control duplicate (LCD). A Daily Analytical Batch QC report is supplied for each method requested.

Method Blank

The method blank is a laboratory generated sample which assesses the degree to which laboratory operations cause a false positive. The target analytes in the analytical reports for a daily analytical batch are "B" flagged if their concentrations are present in the Method Blank above the RL, unless the result is greater then ten times the blank value..

Laboratory Control Spike

A laboratory control spike is a well characterized matrix similar to the sample which is spiked and run in duplicate with each Daily Analytical Batch. The laboratory control spike results are reported as a percent recovery. The QC Criteria for the control spike is listed in the Laboratory Control Report. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report. The control spike contains an abbreviated list of compounds in the method, and may contain compounds not on the target list for the specified report.

Laboratory Control Duplicate

The laboratory control duplicate is a duplicate analysis of the laboratory control spike, a standard, or a sample depending on the method. The results are reported as a relative percent difference (RPD). The criteria for the duplicate is in the Laboratory Control Report for the Daily Analytical Batch. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report.

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: LABQC
Laboratory Number: B03275

File Name: B03275B
Description: METHOD BLANK
Canister:
QC_Batch: 032725-GCK

Date Sampled: **Time:**
Date Analyzed: 03/27/25 **Time:** 9:02
Can Factor: 1.00
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.00	3.00	ND	1.15	3.45	ND	ND
74-86-2	Acetylene	1.00	3.00	ND	1.07	3.20	ND	ND
74-84-0	Ethane	1.00	3.00	ND	1.23	3.70	ND	ND
115-07-1	Propene	0.67	2.00	ND	1.15	3.45	ND	ND
74-98-6	Propane	0.67	2.00	ND	1.20	3.61	ND	ND
75-28-5	i-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
106-98-9	1-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
106-97-8	n-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
624-64-6	t-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
590-18-1	c-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
78-78-4	i-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
109-67-1	1-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
109-66-0	n-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
646-04-8	t-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
627-20-3	c-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
75-83-2	2,2-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
142-29-0	Cyclopentene	0.40	1.20	ND	1.12	3.35	ND	ND
287-92-3	Cyclopentane	0.40	1.20	ND	1.15	3.45	ND	ND
79-29-8	2,3-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
107-83-5	2-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
96-14-0	3-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
592-41-6	1-Hexene	0.33	1.00	ND	1.15	3.45	ND	ND
110-54-3	n-Hexane	0.33	1.00	ND	1.18	3.53	ND	ND
1120-62-3	3-Methylcyclopentene	0.33	1.00	ND	1.12	3.36	ND	ND
96-37-7	Methylcyclopentane	0.33	1.00	ND	1.15	3.45	ND	ND
108-08-7	2,4-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
71-43-2	Benzene	0.33	1.00	ND	1.07	3.20	ND	ND
110-82-7	Cyclohexane	0.33	1.00	ND	1.15	3.45	ND	ND
591-76-4	2-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
565-59-3	2,3-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
589-34-4	3-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND
142-82-5	n-Heptane	0.29	0.86	ND	1.17	3.52	ND	ND
108-87-2	Methylcyclohexane	0.29	0.86	ND	1.15	3.45	ND	ND
592-13-2	2,5-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
589-43-5	2,4-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.29	0.86	ND	1.08	3.24	ND	ND
584-94-1	2,3-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
592-27-8	2-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-53-7	4-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-81-1	3-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
111-65-9	n-Octane	0.25	0.75	ND	1.17	3.51	ND	ND
100-41-4	Ethylbenzene	0.25	0.75	ND	1.09	3.26	ND	ND
108-38-3	m,p-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
100-42-5	Styrene	0.25	0.75	ND	1.07	3.20	ND	ND
95-47-6	o-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
111-84-2	n-Nonane	0.22	0.67	ND	1.17	3.51	ND	ND
98-82-8	i-Propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
103-65-1	n-propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
620-14-4	3-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
622-96-8	4-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
611-14-3	2-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
124-18-5	n-Decane	0.20	0.60	ND	1.17	3.50	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
141-93-5	1,3-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
105-05-5	1,4-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
104-51-8	n-Butylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
1120-21-4	Undecane	0.18	0.55	ND	1.16	3.49	ND	ND
91-20-3	Naphthalene	0.20	0.60	ND	1.05	3.15	ND	ND
112-40-3	Dodecane	0.17	0.50	ND	1.16	3.49	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	7.50	22.50	ND	26.50	79.49	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	45.00	135.00	ND	29.51	88.52	ND	ND

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: LABQC
Laboratory Number: B03285

File Name: B03285B
Description: METHOD BLANK
Canister:
QC_Batch: 032825-GCK

Date Sampled: **Time:**
Date Analyzed: 03/28/25 **Time:** 10:43
Can Factor: 1.00
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.00	3.00	ND	1.15	3.45	ND	ND
74-86-2	Acetylene	1.00	3.00	ND	1.07	3.20	ND	ND
74-84-0	Ethane	1.00	3.00	ND	1.23	3.70	ND	ND
115-07-1	Propene	0.67	2.00	ND	1.15	3.45	ND	ND
74-98-6	Propane	0.67	2.00	ND	1.20	3.61	ND	ND
75-28-5	i-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
106-98-9	1-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
106-97-8	n-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
624-64-6	t-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
590-18-1	c-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
78-78-4	i-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
109-67-1	1-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
109-66-0	n-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
646-04-8	t-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
627-20-3	c-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
75-83-2	2,2-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
142-29-0	Cyclopentene	0.40	1.20	ND	1.12	3.35	ND	ND
287-92-3	Cyclopentane	0.40	1.20	ND	1.15	3.45	ND	ND
79-29-8	2,3-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
107-83-5	2-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
96-14-0	3-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
592-41-6	1-Hexene	0.33	1.00	ND	1.15	3.45	ND	ND
110-54-3	n-Hexane	0.33	1.00	ND	1.18	3.53	ND	ND
1120-62-3	3-Methylcyclopentene	0.33	1.00	ND	1.12	3.36	ND	ND
96-37-7	Methylcyclopentane	0.33	1.00	ND	1.15	3.45	ND	ND
108-08-7	2,4-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
71-43-2	Benzene	0.33	1.00	ND	1.07	3.20	ND	ND
110-82-7	Cyclohexane	0.33	1.00	ND	1.15	3.45	ND	ND
591-76-4	2-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
565-59-3	2,3-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
589-34-4	3-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND
142-82-5	n-Heptane	0.29	0.86	ND	1.17	3.52	ND	ND
108-87-2	Methylcyclohexane	0.29	0.86	ND	1.15	3.45	ND	ND
592-13-2	2,5-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
589-43-5	2,4-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.29	0.86	ND	1.08	3.24	ND	ND
584-94-1	2,3-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
592-27-8	2-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-53-7	4-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-81-1	3-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
111-65-9	n-Octane	0.25	0.75	ND	1.17	3.51	ND	ND
100-41-4	Ethylbenzene	0.25	0.75	ND	1.09	3.26	ND	ND
108-38-3	m,p-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
100-42-5	Styrene	0.25	0.75	ND	1.07	3.20	ND	ND
95-47-6	o-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
111-84-2	n-Nonane	0.22	0.67	ND	1.17	3.51	ND	ND
98-82-8	i-Propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
103-65-1	n-propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
620-14-4	3-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
622-96-8	4-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
611-14-3	2-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
124-18-5	n-Decane	0.20	0.60	ND	1.17	3.50	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
141-93-5	1,3-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
105-05-5	1,4-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
104-51-8	n-Butylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
1120-21-4	Undecane	0.18	0.55	ND	1.16	3.49	ND	ND
91-20-3	Naphthalene	0.20	0.60	ND	1.05	3.15	ND	ND
112-40-3	Dodecane	0.17	0.50	ND	1.16	3.49	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	7.50	22.50	ND	26.50	79.49	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	45.00	135.00	ND	29.51	88.52	ND	ND

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: LABQC
Laboratory Number: B03315

File Name: B03315B
Description: METHOD BLANK
Canister:
QC_Batch: 033125-GCK

Date Sampled: **Time:**
Date Analyzed: 03/31/25 **Time:** 10:43
Can Factor: 1.00
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.00	3.00	ND	1.15	3.45	ND	ND
74-86-2	Acetylene	1.00	3.00	ND	1.07	3.20	ND	ND
74-84-0	Ethane	1.00	3.00	ND	1.23	3.70	ND	ND
115-07-1	Propene	0.67	2.00	ND	1.15	3.45	ND	ND
74-98-6	Propane	0.67	2.00	ND	1.20	3.61	ND	ND
75-28-5	i-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
106-98-9	1-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
106-97-8	n-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
624-64-6	t-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
590-18-1	c-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
78-78-4	i-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
109-67-1	1-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
109-66-0	n-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
646-04-8	t-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
627-20-3	c-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
75-83-2	2,2-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
142-29-0	Cyclopentene	0.40	1.20	ND	1.12	3.35	ND	ND
287-92-3	Cyclopentane	0.40	1.20	ND	1.15	3.45	ND	ND
79-29-8	2,3-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
107-83-5	2-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
96-14-0	3-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
592-41-6	1-Hexene	0.33	1.00	ND	1.15	3.45	ND	ND
110-54-3	n-Hexane	0.33	1.00	ND	1.18	3.53	ND	ND
1120-62-3	3-Methylcyclopentene	0.33	1.00	ND	1.12	3.36	ND	ND
96-37-7	Methylcyclopentane	0.33	1.00	ND	1.15	3.45	ND	ND
108-08-7	2,4-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
71-43-2	Benzene	0.33	1.00	ND	1.07	3.20	ND	ND
110-82-7	Cyclohexane	0.33	1.00	ND	1.15	3.45	ND	ND
591-76-4	2-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
565-59-3	2,3-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
589-34-4	3-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND
142-82-5	n-Heptane	0.29	0.86	ND	1.17	3.52	ND	ND
108-87-2	Methylcyclohexane	0.29	0.86	ND	1.15	3.45	ND	ND
592-13-2	2,5-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
589-43-5	2,4-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.29	0.86	ND	1.08	3.24	ND	ND
584-94-1	2,3-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
592-27-8	2-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-53-7	4-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-81-1	3-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
111-65-9	n-Octane	0.25	0.75	ND	1.17	3.51	ND	ND
100-41-4	Ethylbenzene	0.25	0.75	ND	1.09	3.26	ND	ND
108-38-3	m,p-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
100-42-5	Styrene	0.25	0.75	ND	1.07	3.20	ND	ND
95-47-6	o-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
111-84-2	n-Nonane	0.22	0.67	ND	1.17	3.51	ND	ND
98-82-8	i-Propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
103-65-1	n-propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
620-14-4	3-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
622-96-8	4-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
611-14-3	2-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
124-18-5	n-Decane	0.20	0.60	ND	1.17	3.50	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
141-93-5	1,3-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
105-05-5	1,4-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
104-51-8	n-Butylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
1120-21-4	Undecane	0.18	0.55	ND	1.16	3.49	ND	ND
91-20-3	Naphthalene	0.20	0.60	ND	1.05	3.15	ND	ND
112-40-3	Dodecane	0.17	0.50	ND	1.16	3.49	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	7.50	22.50	ND	26.50	79.49	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	45.00	135.00	ND	29.51	88.52	ND	ND

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: LABQC
Laboratory Number: B04015

File Name: B04015B
Description: METHOD BLANK
Canister:
QC_Batch: 040125-GCK

Date Sampled: **Time:**
Date Analyzed: 04/01/25 **Time:** 10:35
Can Factor: 1.00
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.00	3.00	ND	1.15	3.45	ND	ND
74-86-2	Acetylene	1.00	3.00	ND	1.07	3.20	ND	ND
74-84-0	Ethane	1.00	3.00	ND	1.23	3.70	ND	ND
115-07-1	Propene	0.67	2.00	ND	1.15	3.45	ND	ND
74-98-6	Propane	0.67	2.00	ND	1.20	3.61	ND	ND
75-28-5	i-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
106-98-9	1-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
106-97-8	n-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
624-64-6	t-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
590-18-1	c-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
78-78-4	i-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
109-67-1	1-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
109-66-0	n-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
646-04-8	t-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
627-20-3	c-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
75-83-2	2,2-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
142-29-0	Cyclopentene	0.40	1.20	ND	1.12	3.35	ND	ND
287-92-3	Cyclopentane	0.40	1.20	ND	1.15	3.45	ND	ND
79-29-8	2,3-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
107-83-5	2-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
96-14-0	3-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
592-41-6	1-Hexene	0.33	1.00	ND	1.15	3.45	ND	ND
110-54-3	n-Hexane	0.33	1.00	ND	1.18	3.53	ND	ND
1120-62-3	3-Methylcyclopentene	0.33	1.00	ND	1.12	3.36	ND	ND
96-37-7	Methylcyclopentane	0.33	1.00	ND	1.15	3.45	ND	ND
108-08-7	2,4-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
71-43-2	Benzene	0.33	1.00	ND	1.07	3.20	ND	ND
110-82-7	Cyclohexane	0.33	1.00	ND	1.15	3.45	ND	ND
591-76-4	2-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
565-59-3	2,3-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
589-34-4	3-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND
142-82-5	n-Heptane	0.29	0.86	ND	1.17	3.52	ND	ND
108-87-2	Methylcyclohexane	0.29	0.86	ND	1.15	3.45	ND	ND
592-13-2	2,5-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
589-43-5	2,4-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.29	0.86	ND	1.08	3.24	ND	ND
584-94-1	2,3-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
592-27-8	2-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-53-7	4-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-81-1	3-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
111-65-9	n-Octane	0.25	0.75	ND	1.17	3.51	ND	ND
100-41-4	Ethylbenzene	0.25	0.75	ND	1.09	3.26	ND	ND
108-38-3	m,p-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
100-42-5	Styrene	0.25	0.75	ND	1.07	3.20	ND	ND
95-47-6	o-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
111-84-2	n-Nonane	0.22	0.67	ND	1.17	3.51	ND	ND
98-82-8	i-Propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
103-65-1	n-propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
620-14-4	3-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
622-96-8	4-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
611-14-3	2-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
124-18-5	n-Decane	0.20	0.60	ND	1.17	3.50	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
141-93-5	1,3-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
105-05-5	1,4-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
104-51-8	n-Butylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
1120-21-4	Undecane	0.18	0.55	ND	1.16	3.49	ND	ND
91-20-3	Naphthalene	0.20	0.60	ND	1.05	3.15	ND	ND
112-40-3	Dodecane	0.17	0.50	ND	1.16	3.49	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	7.50	22.50	ND	26.50	79.49	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	45.00	135.00	ND	29.51	88.52	ND	ND

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: LABQC
Laboratory Number: B04025

File Name: B04025B
Description: METHOD BLANK
Canister:
QC_Batch: 040225-GCK

Date Sampled: **Time:**
Date Analyzed: 04/02/25 **Time:** 10:23
Can Factor: 1.00
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.00	3.00	ND	1.15	3.45	ND	ND
74-86-2	Acetylene	1.00	3.00	ND	1.07	3.20	ND	ND
74-84-0	Ethane	1.00	3.00	ND	1.23	3.70	ND	ND
115-07-1	Propene	0.67	2.00	ND	1.15	3.45	ND	ND
74-98-6	Propane	0.67	2.00	ND	1.20	3.61	ND	ND
75-28-5	i-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
106-98-9	1-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
106-97-8	n-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
624-64-6	t-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
590-18-1	c-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
78-78-4	i-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
109-67-1	1-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
109-66-0	n-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
646-04-8	t-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
627-20-3	c-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
75-83-2	2,2-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
142-29-0	Cyclopentene	0.40	1.20	ND	1.12	3.35	ND	ND
287-92-3	Cyclopentane	0.40	1.20	ND	1.15	3.45	ND	ND
79-29-8	2,3-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
107-83-5	2-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
96-14-0	3-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
592-41-6	1-Hexene	0.33	1.00	ND	1.15	3.45	ND	ND
110-54-3	n-Hexane	0.33	1.00	ND	1.18	3.53	ND	ND
1120-62-3	3-Methylcyclopentene	0.33	1.00	ND	1.12	3.36	ND	ND
96-37-7	Methylcyclopentane	0.33	1.00	ND	1.15	3.45	ND	ND
108-08-7	2,4-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
71-43-2	Benzene	0.33	1.00	ND	1.07	3.20	ND	ND
110-82-7	Cyclohexane	0.33	1.00	ND	1.15	3.45	ND	ND
591-76-4	2-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
565-59-3	2,3-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
589-34-4	3-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND
142-82-5	n-Heptane	0.29	0.86	ND	1.17	3.52	ND	ND
108-87-2	Methylcyclohexane	0.29	0.86	ND	1.15	3.45	ND	ND
592-13-2	2,5-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
589-43-5	2,4-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.29	0.86	ND	1.08	3.24	ND	ND
584-94-1	2,3-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
592-27-8	2-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-53-7	4-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-81-1	3-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
111-65-9	n-Octane	0.25	0.75	ND	1.17	3.51	ND	ND
100-41-4	Ethylbenzene	0.25	0.75	ND	1.09	3.26	ND	ND
108-38-3	m,p-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
100-42-5	Styrene	0.25	0.75	ND	1.07	3.20	ND	ND
95-47-6	o-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
111-84-2	n-Nonane	0.22	0.67	ND	1.17	3.51	ND	ND
98-82-8	i-Propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
103-65-1	n-propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
620-14-4	3-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
622-96-8	4-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
611-14-3	2-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
124-18-5	n-Decane	0.20	0.60	ND	1.17	3.50	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
141-93-5	1,3-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
105-05-5	1,4-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
104-51-8	n-Butylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
1120-21-4	Undecane	0.18	0.55	ND	1.16	3.49	ND	ND
91-20-3	Naphthalene	0.20	0.60	ND	1.05	3.15	ND	ND
112-40-3	Dodecane	0.17	0.50	ND	1.16	3.49	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	7.50	22.50	ND	26.50	79.49	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	45.00	135.00	ND	29.51	88.52	ND	ND

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: LABQC
Laboratory Number: B04035

File Name: B04035B
Description: METHOD BLANK
Canister:
QC_Batch: 040325-GCK

Date Sampled: **Time:**
Date Analyzed: 04/03/25 **Time:** 10:37
Can Factor: 1.00
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.00	3.00	ND	1.15	3.45	ND	ND
74-86-2	Acetylene	1.00	3.00	ND	1.07	3.20	ND	ND
74-84-0	Ethane	1.00	3.00	ND	1.23	3.70	ND	ND
115-07-1	Propene	0.67	2.00	ND	1.15	3.45	ND	ND
74-98-6	Propane	0.67	2.00	ND	1.20	3.61	ND	ND
75-28-5	i-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
106-98-9	1-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
106-97-8	n-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
624-64-6	t-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
590-18-1	c-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
78-78-4	i-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
109-67-1	1-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
109-66-0	n-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
646-04-8	t-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
627-20-3	c-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
75-83-2	2,2-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
142-29-0	Cyclopentene	0.40	1.20	ND	1.12	3.35	ND	ND
287-92-3	Cyclopentane	0.40	1.20	ND	1.15	3.45	ND	ND
79-29-8	2,3-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
107-83-5	2-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
96-14-0	3-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
592-41-6	1-Hexene	0.33	1.00	ND	1.15	3.45	ND	ND
110-54-3	n-Hexane	0.33	1.00	ND	1.18	3.53	ND	ND
1120-62-3	3-Methylcyclopentene	0.33	1.00	ND	1.12	3.36	ND	ND
96-37-7	Methylcyclopentane	0.33	1.00	ND	1.15	3.45	ND	ND
108-08-7	2,4-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
71-43-2	Benzene	0.33	1.00	ND	1.07	3.20	ND	ND
110-82-7	Cyclohexane	0.33	1.00	ND	1.15	3.45	ND	ND
591-76-4	2-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
565-59-3	2,3-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
589-34-4	3-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND
142-82-5	n-Heptane	0.29	0.86	ND	1.17	3.52	ND	ND
108-87-2	Methylcyclohexane	0.29	0.86	ND	1.15	3.45	ND	ND
592-13-2	2,5-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
589-43-5	2,4-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.29	0.86	ND	1.08	3.24	ND	ND
584-94-1	2,3-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
592-27-8	2-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-53-7	4-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-81-1	3-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
111-65-9	n-Octane	0.25	0.75	ND	1.17	3.51	ND	ND
100-41-4	Ethylbenzene	0.25	0.75	ND	1.09	3.26	ND	ND
108-38-3	m,p-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
100-42-5	Styrene	0.25	0.75	ND	1.07	3.20	ND	ND
95-47-6	o-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
111-84-2	n-Nonane	0.22	0.67	ND	1.17	3.51	ND	ND
98-82-8	i-Propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
103-65-1	n-propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
620-14-4	3-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
622-96-8	4-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
611-14-3	2-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
124-18-5	n-Decane	0.20	0.60	ND	1.17	3.50	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
141-93-5	1,3-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
105-05-5	1,4-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
104-51-8	n-Butylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
1120-21-4	Undecane	0.18	0.55	ND	1.16	3.49	ND	ND
91-20-3	Naphthalene	0.20	0.60	ND	1.05	3.15	ND	ND
112-40-3	Dodecane	0.17	0.50	ND	1.16	3.49	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	7.50	22.50	ND	26.50	79.49	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	45.00	135.00	ND	29.51	88.52	ND	ND

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: LABQC
Laboratory Number: B04085

File Name: B04085B
Description: METHOD BLANK
Canister:
QC_Batch: 040825-GCK

Date Sampled: **Time:**
Date Analyzed: 04/08/25 **Time:** 11:36
Can Factor: 1.00
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.00	3.00	ND	1.15	3.45	ND	ND
74-86-2	Acetylene	1.00	3.00	ND	1.07	3.20	ND	ND
74-84-0	Ethane	1.00	3.00	ND	1.23	3.70	ND	ND
115-07-1	Propene	0.67	2.00	ND	1.15	3.45	ND	ND
74-98-6	Propane	0.67	2.00	ND	1.20	3.61	ND	ND
75-28-5	i-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
106-98-9	1-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
106-97-8	n-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
624-64-6	t-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
590-18-1	c-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
78-78-4	i-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
109-67-1	1-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
109-66-0	n-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
646-04-8	t-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
627-20-3	c-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
75-83-2	2,2-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
142-29-0	Cyclopentene	0.40	1.20	ND	1.12	3.35	ND	ND
287-92-3	Cyclopentane	0.40	1.20	ND	1.15	3.45	ND	ND
79-29-8	2,3-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
107-83-5	2-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
96-14-0	3-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
592-41-6	1-Hexene	0.33	1.00	ND	1.15	3.45	ND	ND
110-54-3	n-Hexane	0.33	1.00	ND	1.18	3.53	ND	ND
1120-62-3	3-Methylcyclopentene	0.33	1.00	ND	1.12	3.36	ND	ND
96-37-7	Methylcyclopentane	0.33	1.00	ND	1.15	3.45	ND	ND
108-08-7	2,4-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
71-43-2	Benzene	0.33	1.00	ND	1.07	3.20	ND	ND
110-82-7	Cyclohexane	0.33	1.00	ND	1.15	3.45	ND	ND
591-76-4	2-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
565-59-3	2,3-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
589-34-4	3-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND
142-82-5	n-Heptane	0.29	0.86	ND	1.17	3.52	ND	ND
108-87-2	Methylcyclohexane	0.29	0.86	ND	1.15	3.45	ND	ND
592-13-2	2,5-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
589-43-5	2,4-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.29	0.86	ND	1.08	3.24	ND	ND
584-94-1	2,3-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
592-27-8	2-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-53-7	4-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-81-1	3-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
111-65-9	n-Octane	0.25	0.75	ND	1.17	3.51	ND	ND
100-41-4	Ethylbenzene	0.25	0.75	ND	1.09	3.26	ND	ND
108-38-3	m,p-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
100-42-5	Styrene	0.25	0.75	ND	1.07	3.20	ND	ND
95-47-6	o-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
111-84-2	n-Nonane	0.22	0.67	ND	1.17	3.51	ND	ND
98-82-8	i-Propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
103-65-1	n-propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
620-14-4	3-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
622-96-8	4-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
611-14-3	2-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
124-18-5	n-Decane	0.20	0.60	ND	1.17	3.50	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
141-93-5	1,3-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
105-05-5	1,4-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
104-51-8	n-Butylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
1120-21-4	Undecane	0.18	0.55	ND	1.16	3.49	ND	ND
91-20-3	Naphthalene	0.20	0.60	ND	1.05	3.15	ND	ND
112-40-3	Dodecane	0.17	0.50	ND	1.16	3.49	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	7.50	22.50	ND	26.50	79.49	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	45.00	135.00	ND	29.51	88.52	ND	ND

QUALITY CONTROL SPIKE

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

EPA Method TO-12 Total Non-Methane Hydrocarbons

QC_Batch: 032725-GCK
Date: 03/27/25

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
109-66-0	n-Pentane	103		104		70	130	1	25	
110-54-3	n-Hexane	99		101		70	130	2	25	
71-43-2	Benzene	105		105		70	130	0	25	
142-82-5	n-Heptane	104		102		70	130	2	25	
108-88-3	Toluene	111		106		70	130	5	25	
111-65-9	n-Octane	110		105		70	130	5	25	
108-38-3	m,p-xylene	123		114		70	130	9	25	
95-47-6	o-xylene	127		117		70	130	10	25	
108-67-8	1,3,5-Trimethylbenzene	115		123		70	130	8	25	

LCS- Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicates out of Limit

QUALITY CONTROL SPIKE

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

EPA Method TO-12 Total Non-Methane Hydrocarbons

QC_Batch: 032825-GCK
Date: 03/27/25

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
109-66-0	n-Pentane	97		110		70	130	12	25	
110-54-3	n-Hexane	96		105		70	130	10	25	
71-43-2	Benzene	95		111		70	130	16	25	
142-82-5	n-Heptane	99		106		70	130	7	25	
108-88-3	Toluene	96		111		70	130	14	25	
111-65-9	n-Octane	97		112		70	130	15	25	
108-38-3	m,p-xylene	97		111		70	130	14	25	
95-47-6	o-xylene	97		111		70	130	14	25	
108-67-8	1,3,5-Trimethylbenzene	94		112		70	130	18	25	

LCS- Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicates out of Limit

QUALITY CONTROL SPIKE

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

EPA Method TO-12 Total Non-Methane Hydrocarbons

QC_Batch: 033125-GCK
Date: 03/27/25

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate Duplicate %	Duplicate Limit %	Flag
109-66-0	n-Pentane	94		108		70	130	14	25	
110-54-3	n-Hexane	97		105		70	130	8	25	
71-43-2	Benzene	96		115		70	130	19	25	
142-82-5	n-Heptane	94		109		70	130	15	25	
108-88-3	Toluene	97		114		70	130	17	25	
111-65-9	n-Octane	94		110		70	130	16	25	
108-38-3	m,p-xylene	100		119		70	130	19	25	
95-47-6	o-xylene	101		119		70	130	17	25	
108-67-8	1,3,5-Trimethylbenzene	108		124		70	130	16	25	

LCS- Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicates out of Limit

QUALITY CONTROL SPIKE

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

EPA Method TO-12 Total Non-Methane Hydrocarbons

QC_Batch: 040125-GCK
Date: 04/01/25

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate Duplicate %	Duplicate Limit %	Flag
109-66-0	n-Pentane	94		109		70	130	15	25	
110-54-3	n-Hexane	96		106		70	130	10	25	
71-43-2	Benzene	96		112		70	130	17	25	
142-82-5	n-Heptane	96		110		70	130	14	25	
108-88-3	Toluene	95		116		70	130	21	25	
111-65-9	n-Octane	95		114		70	130	19	25	
108-38-3	m,p-xylene	99		115		70	130	16	25	
95-47-6	o-xylene	100		111		70	130	11	25	
108-67-8	1,3,5-Trimethylbenzene	109		125		70	130	16	25	

LCS- Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicates out of Limit

QUALITY CONTROL SPIKE

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

EPA Method TO-12 Total Non-Methane Hydrocarbons

QC_Batch: 040225-GCK
Date: 04/02/25

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
109-66-0	n-Pentane	101		109		70	130	8	25	
110-54-3	n-Hexane	104		102		70	130	2	25	
71-43-2	Benzene	103		103		70	130	0	25	
142-82-5	n-Heptane	101		108		70	130	7	25	
108-88-3	Toluene	97		106		70	130	10	25	
111-65-9	n-Octane	103		111		70	130	8	25	
108-38-3	m,p-xylene	99		108		70	130	9	25	
95-47-6	o-xylene	104		111		70	130	7	25	
108-67-8	1,3,5-Trimethylbenzene	100		97		70	130	3	25	

LCS- Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicates out of Limit

QUALITY CONTROL SPIKE

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

EPA Method TO-12 Total Non-Methane Hydrocarbons

QC_Batch: 040325-GCK
Date: 04/03/25

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
109-66-0	n-Pentane	110		106		70	130	4	25	
110-54-3	n-Hexane	107		102		70	130	6	25	
71-43-2	Benzene	111		104		70	130	8	25	
142-82-5	n-Heptane	107		102		70	130	5	25	
108-88-3	Toluene	107		96		70	130	11	25	
111-65-9	n-Octane	112		100		70	130	11	25	
108-38-3	m,p-xylene	109		98		70	130	11	25	
95-47-6	o-xylene	109		100		70	130	9	25	
108-67-8	1,3,5-Trimethylbenzene	117		99		70	130	18	25	

LCS- Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicates out of Limit

QUALITY CONTROL SPIKE

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

EPA Method TO-12 Total Non-Methane Hydrocarbons

QC_Batch: 040825-GCK
Date: 04/08/25

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate Duplicate %	Duplicate Limit %	Flag
109-66-0	n-Pentane	105		104		70	130	1	25	
110-54-3	n-Hexane	105		104		70	130	1	25	
71-43-2	Benzene	107		106		70	130	1	25	
142-82-5	n-Heptane	105		106		70	130	2	25	
108-88-3	Toluene	109		108		70	130	1	25	
111-65-9	n-Octane	105		103		70	130	2	25	
108-38-3	m,p-xylene	107		102		70	130	6	25	
95-47-6	o-xylene	109		102		70	130	7	25	
108-67-8	1,3,5-Trimethylbenzene	107		103		70	130	4	25	

LCS- Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicates out of Limit

Section 3 Analytical Methods

This section has information on the analytial methods and a copy of the analytical reports for the Sample Delivery Group (SDG) listed below. The reports are organized in order of the EAS Laboratory Number.

Section Contents

Analytical Method Description(s)

Analytical Reports

Analytical Reports

EAS SDG Number: 225100

Project Number: 17807

The following pages contain the certified Analytical Reports for the samples submitted in the Sample Delivery Group (SDG) and are in order of the EAS Lab ID number. All of the analytical methods used are modifications of the published methods. Procedural method modifications, QC modifications, QC Criteria modifications, target lists, definitions of detection limits, and flags are all explained in detail in the EAS Quality Manual. The Analytical Report has columns for the method detection limit (MDL), the reporting limit (RL), and the Amount. The Amount is the concentration of the compound in the sample. The report usually has the results reported with two commonly used units. The MDL, RL, and Amount are adjusted for the canister dilution factor and any dilution caused by sample matrix effects.

NELAC CERTIFICATION

EAS is accredited by the National Environmental Laboratory Accreditation (NELAC) with the Florida Department of Health, one of the NELAC certifying states. EAS is certified for the EPA TO-15, EPA TO-11 and EPA TO-4 methods. A list of accredited compounds is available on request.

DETECTION LIMITS

MDL: The MDL is lowest concentration that can be measured to be statistically above the noise level and is determined using the EPA 2016 method which uses the standard deviation of replicate measurements made over time. The method also incorporates systematic instrumentation blank levels. See Quality Manual for detailed explanation.

RL: The reporting limit (RL) is the lowest concentration that can be reliably reported for each compound that meets the QC Criteria for the method, background levels, or project specific considerations. The QC criteria level for the method blank is to be less then the RL See Quality Manual for more information.

DATA FLAGS

In the standard report, if a compound is not detected above the method detection limit, a "ND" is in the Amount column. The flag column is used for both the not detect flag and for any data flags.

B - This compound was detected in the batch method blank above the reporting limit and is greater then one tenth the amount in the sample.

E - This compound exceeds the calibration range for this sample volume.

J - The amount reported is estimated because it was below the RL and could be below the lowest calibration point, have higher uncertainty, or could be the result of system background

SIGNIFICANT FIGURES

Based on the uncertainty in the methods, the numbers on the Analytical Reports should be used with only two significant digits. Additional significant figures are reported for ease of use and to avoid rounding errors when used in further calculations.

UNITS

PPBV or PPMV: Parts-per-billion (or million) by volume is a mole (volume) ratio of the moles of analyte divided by the moles of air (gas). This is the primary unit used to report air or gas concentrations and is independent of temperature and pressure.

UG/M3 OR MG/M3: The reported result was calculated based on 1 atm pressure and a temperature of 25C. The conversion from PPBV is: UG/M3 = PPBV x MW/24.46 where 24.26 is the gas constant and MW is the Compounds Molecular Weight (sometimes called Formula Weight)

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 01

File Name: 2510001A
Description: T-101
Canister: 668
QC_Batch: 040825-GCK

Date Sampled: 03/19/25 **Time:** 8:40
Date Analyzed: 04/08/25 **Time:** 12:12
Can Factor: 1.20
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.20	3.61	ND	1.39	4.16	ND	ND
74-86-2	Acetylene	1.20	3.61	ND	1.28	3.85	ND	ND
74-84-0	Ethane	1.20	3.61	4.95	1.49	4.46	6.10	
115-07-1	Propene	0.80	2.41	2.06	1.39	4.16	3.55	J
74-98-6	Propane	0.80	2.41	1.89	1.45	4.35	3.41	J
75-28-5	i-Butane	0.60	1.81	ND	1.43	4.30	ND	ND
106-98-9	1-Butene	0.60	1.81	ND	1.38	4.15	ND	ND
106-97-8	n-Butane	0.60	1.81	ND	1.43	4.30	ND	ND
624-64-6	t-2-Butene	0.60	1.81	ND	1.38	4.15	ND	ND
590-18-1	c-2-Butene	0.60	1.81	ND	1.38	4.15	ND	ND
78-78-4	i-Pentane	0.48	1.45	ND	1.43	4.28	ND	ND
109-67-1	1-Pentene	0.48	1.45	ND	1.38	4.15	ND	ND
109-66-0	n-Pentane	0.48	1.45	ND	1.42	4.27	ND	ND
646-04-8	t-2-Pentene	0.48	1.45	ND	1.38	4.15	ND	ND
627-20-3	c-2-Pentene	0.48	1.45	ND	1.38	4.15	ND	ND
75-83-2	2,2-Dimethylbutane	0.40	1.20	ND	1.42	4.26	ND	ND
142-29-0	Cyclopentene	0.48	1.45	ND	1.34	4.03	ND	ND
287-92-3	Cyclopentane	0.48	1.45	ND	1.38	4.15	ND	ND
79-29-8	2,3-Dimethylbutane	0.40	1.20	ND	1.42	4.26	ND	ND
107-83-5	2-Methylpentane	0.40	1.20	ND	1.42	4.26	ND	ND
96-14-0	3-Methylpentane	0.40	1.20	ND	1.42	4.26	ND	ND
592-41-6	1-Hexene	0.40	1.20	ND	1.39	4.16	ND	ND
110-54-3	n-Hexane	0.40	1.20	ND	1.42	4.26	ND	ND
1120-62-3	3-Methylcyclopentene	0.40	1.20	ND	1.35	4.05	ND	ND
96-37-7	Methylcyclopentane	0.40	1.20	ND	1.39	4.16	ND	ND
108-08-7	2,4-Dimethylpentane	0.34	1.03	ND	1.41	4.24	ND	ND
71-43-2	Benzene	0.40	1.20	0.77	1.29	3.86	2.47	J
110-82-7	Cyclohexane	0.40	1.20	ND	1.39	4.16	ND	ND
591-76-4	2-Methylhexane	0.34	1.03	ND	1.41	4.24	ND	ND
565-59-3	2,3-Dimethylpentane	0.34	1.03	ND	1.41	4.24	ND	ND
589-34-4	3-Methylhexane	0.34	1.03	ND	1.41	4.24	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.90	ND	1.41	4.23	ND	ND
142-82-5	n-Heptane	0.34	1.03	ND	1.41	4.24	ND	ND
108-87-2	Methylcyclohexane	0.34	1.03	ND	1.39	4.16	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.90	ND	1.41	4.23	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.90	ND	1.41	4.23	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.90	ND	1.41	4.23	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.34	1.03	ND	1.30	3.90	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.90	ND	1.41	4.23	ND	ND
592-27-8	2-Methylheptane	0.30	0.90	ND	1.41	4.23	ND	ND
589-53-7	4-Methylheptane	0.30	0.90	ND	1.41	4.23	ND	ND
589-81-1	3-Methylheptane	0.30	0.90	ND	1.41	4.23	ND	ND
111-65-9	n-Octane	0.30	0.90	ND	1.41	4.23	ND	ND
100-41-4	Ethylbenzene	0.30	0.90	ND	1.31	3.93	ND	ND
108-38-3	m,p-xylene	0.30	0.90	ND	1.31	3.93	ND	ND
100-42-5	Styrene	0.30	0.90	ND	1.29	3.86	ND	ND
95-47-6	o-xylene	0.30	0.90	ND	1.31	3.93	ND	ND
111-84-2	n-Nonane	0.27	0.80	ND	1.41	4.22	ND	ND
98-82-8	i-Propylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
103-65-1	n-propylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.80	ND	1.32	3.96	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.80	ND	1.32	3.96	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.80	ND	1.32	3.96	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
124-18-5	n-Decane	0.24	0.72	ND	1.41	4.22	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.72	ND	1.33	3.98	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.72	ND	1.33	3.98	ND	ND
104-51-8	n-Butylbenzene	0.24	0.72	ND	1.33	3.98	ND	ND
1120-21-4	Undecane	0.22	0.66	ND	1.40	4.21	ND	ND
91-20-3	Naphthalene	0.24	0.72	ND	1.27	3.80	ND	ND
112-40-3	Dodecane	0.20	0.60	ND	1.40	4.20	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.04	27.11	31.63	31.92	95.76	111.73	
TNMHC - C1	Total Non-Methane Hydrocarbons	54.21	162.63	189.76	35.55	106.65	124.43	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 02

File Name: 2510002A
Description: T-102
Canister: 895
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 8:50
Date Analyzed: 03/27/25 **Time:** 16:44
Can Factor: 1.24
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.24	3.73	3.83	1.43	4.30	4.41	
74-86-2	Acetylene	1.24	3.73	ND	1.33	3.98	ND	ND
74-84-0	Ethane	1.24	3.73	3.29	1.53	4.60	4.06	J
115-07-1	Propene	0.83	2.49	ND	1.43	4.29	ND	ND
74-98-6	Propane	0.83	2.49	2.75	1.50	4.50	4.98	
75-28-5	i-Butane	0.62	1.87	ND	1.48	4.44	ND	ND
106-98-9	1-Butene	0.62	1.87	2.40	1.43	4.29	5.51	
106-97-8	n-Butane	0.62	1.87	1.05	1.48	4.44	2.51	J
624-64-6	t-2-Butene	0.62	1.87	ND	1.43	4.29	ND	ND
590-18-1	c-2-Butene	0.62	1.87	ND	1.43	4.29	ND	ND
78-78-4	i-Pentane	0.50	1.49	ND	1.47	4.42	ND	ND
109-67-1	1-Pentene	0.50	1.49	ND	1.43	4.29	ND	ND
109-66-0	n-Pentane	0.50	1.49	ND	1.47	4.41	ND	ND
646-04-8	t-2-Pentene	0.50	1.49	1.14	1.43	4.29	3.29	J
627-20-3	c-2-Pentene	0.50	1.49	ND	1.43	4.29	ND	ND
75-83-2	2,2-Dimethylbutane	0.41	1.24	ND	1.46	4.39	ND	ND
142-29-0	Cyclopentene	0.50	1.49	ND	1.39	4.17	ND	ND
287-92-3	Cyclopentane	0.50	1.49	ND	1.43	4.29	ND	ND
79-29-8	2,3-Dimethylbutane	0.41	1.24	ND	1.46	4.39	ND	ND
107-83-5	2-Methylpentane	0.41	1.24	ND	1.46	4.39	ND	ND
96-14-0	3-Methylpentane	0.41	1.24	ND	1.46	4.39	ND	ND
592-41-6	1-Hexene	0.41	1.24	ND	1.43	4.29	ND	ND
110-54-3	n-Hexane	0.41	1.24	0.44	1.46	4.39	1.57	J
1120-62-3	3-Methylcyclopentene	0.41	1.24	ND	1.40	4.19	ND	ND
96-37-7	Methylcyclopentane	0.41	1.24	ND	1.43	4.29	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.07	ND	1.46	4.38	ND	ND
71-43-2	Benzene	0.41	1.24	0.72	1.33	3.98	2.29	J
110-82-7	Cyclohexane	0.41	1.24	4.20	1.43	4.29	14.49	
591-76-4	2-Methylhexane	0.36	1.07	ND	1.46	4.38	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.07	ND	1.46	4.38	ND	ND
589-34-4	3-Methylhexane	0.36	1.07	ND	1.46	4.38	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.31	0.93	ND	1.46	4.37	ND	ND
142-82-5	n-Heptane	0.36	1.07	ND	1.46	4.38	ND	ND
108-87-2	Methylcyclohexane	0.36	1.07	ND	1.43	4.29	ND	ND
592-13-2	2,5-Dimethylhexane	0.31	0.93	ND	1.46	4.37	ND	ND
589-43-5	2,4-Dimethylhexane	0.31	0.93	ND	1.46	4.37	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.31	0.93	ND	1.46	4.37	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.07	1.16	1.34	4.02	4.39	
584-94-1	2,3-Dimethylhexane	0.31	0.93	ND	1.46	4.37	ND	ND
592-27-8	2-Methylheptane	0.31	0.93	ND	1.46	4.37	ND	ND
589-53-7	4-Methylheptane	0.31	0.93	ND	1.46	4.37	ND	ND
589-81-1	3-Methylheptane	0.31	0.93	ND	1.46	4.37	ND	ND
111-65-9	n-Octane	0.31	0.93	ND	1.46	4.37	ND	ND
100-41-4	Ethylbenzene	0.31	0.93	2.33	1.35	4.06	10.13	
108-38-3	m,p-xylene	0.31	0.93	0.65	1.35	4.06	2.84	J
100-42-5	Styrene	0.31	0.93	ND	1.33	3.98	ND	ND
95-47-6	o-xylene	0.31	0.93	0.93	1.35	4.06	4.04	J
111-84-2	n-Nonane	0.28	0.83	ND	1.45	4.36	ND	ND
98-82-8	i-Propylbenzene	0.28	0.83	ND	1.36	4.09	ND	ND
103-65-1	n-propylbenzene	0.28	0.83	0.46	1.36	4.09	2.25	J
620-14-4	3-Ethyltoluene	0.28	0.83	ND	1.36	4.09	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.83	ND	1.36	4.09	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.83	ND	1.36	4.09	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.83	ND	1.36	4.09	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.83	0.46	1.36	4.09	2.24	J
124-18-5	n-Decane	0.25	0.75	0.45	1.45	4.35	2.65	J
526-73-8	1,2,3-Trimethylbenzene	0.28	0.83	ND	1.36	4.09	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.75	2.56	1.37	4.10	14.06	
105-05-5	1,4-Diethylbenzene	0.25	0.75	ND	1.37	4.10	ND	ND
104-51-8	n-Butylbenzene	0.25	0.75	ND	1.37	4.10	ND	ND
1120-21-4	Undecane	0.23	0.68	ND	1.45	4.35	ND	ND
91-20-3	Naphthalene	0.25	0.75	ND	1.31	3.92	ND	ND
112-40-3	Dodecane	0.21	0.62	ND	1.45	4.34	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.33	27.99	51.54	32.96	98.87	182.08	
TNMHC - C1	Total Non-Methane Hydrocarbons	55.97	167.92	309.24	36.70	110.11	202.78	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 03

File Name: 2510003A
Description: T-103
Canister: 881
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 8:44
Date Analyzed: 03/27/25 **Time:** 17:46
Can Factor: 1.20
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.20	3.59	ND	1.38	4.13	ND	ND
74-86-2	Acetylene	1.20	3.59	ND	1.27	3.82	ND	ND
74-84-0	Ethane	1.20	3.59	1.88	1.47	4.42	2.32	J
115-07-1	Propene	0.80	2.39	ND	1.37	4.12	ND	ND
74-98-6	Propane	0.80	2.39	2.22	1.44	4.32	4.02	J
75-28-5	i-Butane	0.60	1.79	ND	1.42	4.27	ND	ND
106-98-9	1-Butene	0.60	1.79	0.93	1.37	4.12	2.13	J
106-97-8	n-Butane	0.60	1.79	ND	1.42	4.27	ND	ND
624-64-6	t-2-Butene	0.60	1.79	0.83	1.37	4.12	1.92	J
590-18-1	c-2-Butene	0.60	1.79	ND	1.37	4.12	ND	ND
78-78-4	i-Pentane	0.48	1.43	ND	1.41	4.24	ND	ND
109-67-1	1-Pentene	0.48	1.43	ND	1.37	4.12	ND	ND
109-66-0	n-Pentane	0.48	1.43	0.87	1.41	4.24	2.56	J
646-04-8	t-2-Pentene	0.48	1.43	0.85	1.37	4.12	2.45	J
627-20-3	c-2-Pentene	0.48	1.43	ND	1.37	4.12	ND	ND
75-83-2	2,2-Dimethylbutane	0.40	1.20	ND	1.41	4.22	ND	ND
142-29-0	Cyclopentene	0.48	1.43	ND	1.33	4.00	ND	ND
287-92-3	Cyclopentane	0.48	1.43	ND	1.37	4.12	ND	ND
79-29-8	2,3-Dimethylbutane	0.40	1.20	ND	1.41	4.22	ND	ND
107-83-5	2-Methylpentane	0.40	1.20	ND	1.41	4.22	ND	ND
96-14-0	3-Methylpentane	0.40	1.20	ND	1.41	4.22	ND	ND
592-41-6	1-Hexene	0.40	1.20	ND	1.37	4.12	ND	ND
110-54-3	n-Hexane	0.40	1.20	0.42	1.41	4.22	1.47	J
1120-62-3	3-Methylcyclopentene	0.40	1.20	ND	1.34	4.02	ND	ND
96-37-7	Methylcyclopentane	0.40	1.20	ND	1.37	4.12	ND	ND
108-08-7	2,4-Dimethylpentane	0.34	1.02	ND	1.40	4.21	ND	ND
71-43-2	Benzene	0.40	1.20	ND	1.28	3.83	ND	ND
110-82-7	Cyclohexane	0.40	1.20	ND	1.37	4.12	ND	ND
591-76-4	2-Methylhexane	0.34	1.02	ND	1.40	4.21	ND	ND
565-59-3	2,3-Dimethylpentane	0.34	1.02	ND	1.40	4.21	ND	ND
589-34-4	3-Methylhexane	0.34	1.02	ND	1.40	4.21	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.90	ND	1.40	4.19	ND	ND
142-82-5	n-Heptane	0.34	1.02	ND	1.40	4.21	ND	ND
108-87-2	Methylcyclohexane	0.34	1.02	ND	1.37	4.12	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.90	ND	1.40	4.19	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.90	ND	1.40	4.19	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.90	ND	1.40	4.19	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.34	1.02	ND	1.29	3.87	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.90	ND	1.40	4.19	ND	ND
592-27-8	2-Methylheptane	0.30	0.90	ND	1.40	4.19	ND	ND
589-53-7	4-Methylheptane	0.30	0.90	ND	1.40	4.19	ND	ND
589-81-1	3-Methylheptane	0.30	0.90	ND	1.40	4.19	ND	ND
111-65-9	n-Octane	0.30	0.90	ND	1.40	4.19	ND	ND
100-41-4	Ethylbenzene	0.30	0.90	ND	1.30	3.90	ND	ND
108-38-3	m,p-xylene	0.30	0.90	ND	1.30	3.90	ND	ND
100-42-5	Styrene	0.30	0.90	ND	1.28	3.83	ND	ND
95-47-6	o-xylene	0.30	0.90	ND	1.30	3.90	ND	ND
111-84-2	n-Nonane	0.27	0.80	ND	1.40	4.19	ND	ND
98-82-8	i-Propylbenzene	0.27	0.80	ND	1.31	3.92	ND	ND
103-65-1	n-propylbenzene	0.27	0.80	ND	1.31	3.92	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.80	ND	1.31	3.92	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.80	ND	1.31	3.92	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.80	ND	1.31	3.92	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.80	ND	1.31	3.92	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.80	ND	1.31	3.92	ND	ND
124-18-5	n-Decane	0.24	0.72	ND	1.39	4.18	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.80	ND	1.31	3.92	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.72	ND	1.31	3.94	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.72	ND	1.31	3.94	ND	ND
104-51-8	n-Butylbenzene	0.24	0.72	ND	1.31	3.94	ND	ND
1120-21-4	Undecane	0.22	0.65	ND	1.39	4.18	ND	ND
91-20-3	Naphthalene	0.24	0.72	ND	1.26	3.77	ND	ND
112-40-3	Dodecane	0.20	0.60	ND	1.39	4.17	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	8.96	26.89	13.18	31.66	94.99	46.56	J
TNMHC - C1	Total Non-Methane Hydrocarbons	53.78	161.33	79.08	35.26	105.79	51.86	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 04

File Name: 2510004A
Description: T-104
Canister: 860
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 8:37
Date Analyzed: 03/27/25 **Time:** 18:45
Can Factor: 1.31
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.31	3.93	ND	1.51	4.53	ND	ND
74-86-2	Acetylene	1.31	3.93	ND	1.40	4.19	ND	ND
74-84-0	Ethane	1.31	3.93	6.65	1.62	4.85	8.21	
115-07-1	Propene	0.87	2.62	ND	1.51	4.52	ND	ND
74-98-6	Propane	0.87	2.62	2.79	1.58	4.73	5.05	
75-28-5	i-Butane	0.65	1.96	ND	1.56	4.68	ND	ND
106-98-9	1-Butene	0.65	1.96	2.71	1.51	4.52	6.23	
106-97-8	n-Butane	0.65	1.96	2.07	1.56	4.68	4.93	
624-64-6	t-2-Butene	0.65	1.96	ND	1.51	4.52	ND	ND
590-18-1	c-2-Butene	0.65	1.96	ND	1.51	4.52	ND	ND
78-78-4	i-Pentane	0.52	1.57	ND	1.55	4.65	ND	ND
109-67-1	1-Pentene	0.52	1.57	ND	1.51	4.52	ND	ND
109-66-0	n-Pentane	0.52	1.57	ND	1.55	4.64	ND	ND
646-04-8	t-2-Pentene	0.52	1.57	ND	1.51	4.52	ND	ND
627-20-3	c-2-Pentene	0.52	1.57	ND	1.51	4.52	ND	ND
75-83-2	2,2-Dimethylbutane	0.44	1.31	ND	1.54	4.63	ND	ND
142-29-0	Cyclopentene	0.52	1.57	ND	1.46	4.39	ND	ND
287-92-3	Cyclopentane	0.52	1.57	ND	1.51	4.52	ND	ND
79-29-8	2,3-Dimethylbutane	0.44	1.31	ND	1.54	4.63	ND	ND
107-83-5	2-Methylpentane	0.44	1.31	ND	1.54	4.63	ND	ND
96-14-0	3-Methylpentane	0.44	1.31	ND	1.54	4.63	ND	ND
592-41-6	1-Hexene	0.44	1.31	ND	1.51	4.52	ND	ND
110-54-3	n-Hexane	0.44	1.31	ND	1.54	4.63	ND	ND
1120-62-3	3-Methylcyclopentene	0.44	1.31	ND	1.47	4.41	ND	ND
96-37-7	Methylcyclopentane	0.44	1.31	ND	1.51	4.52	ND	ND
108-08-7	2,4-Dimethylpentane	0.37	1.12	0.52	1.54	4.61	2.14	J
71-43-2	Benzene	0.44	1.31	ND	1.40	4.19	ND	ND
110-82-7	Cyclohexane	0.44	1.31	ND	1.51	4.52	ND	ND
591-76-4	2-Methylhexane	0.37	1.12	ND	1.54	4.61	ND	ND
565-59-3	2,3-Dimethylpentane	0.37	1.12	ND	1.54	4.61	ND	ND
589-34-4	3-Methylhexane	0.37	1.12	ND	1.54	4.61	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.33	0.98	ND	1.53	4.60	ND	ND
142-82-5	n-Heptane	0.37	1.12	ND	1.54	4.61	ND	ND
108-87-2	Methylcyclohexane	0.37	1.12	ND	1.51	4.52	ND	ND
592-13-2	2,5-Dimethylhexane	0.33	0.98	ND	1.53	4.60	ND	ND
589-43-5	2,4-Dimethylhexane	0.33	0.98	ND	1.53	4.60	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.33	0.98	ND	1.53	4.60	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.37	1.12	ND	1.41	4.24	ND	ND
584-94-1	2,3-Dimethylhexane	0.33	0.98	ND	1.53	4.60	ND	ND
592-27-8	2-Methylheptane	0.33	0.98	ND	1.53	4.60	ND	ND
589-53-7	4-Methylheptane	0.33	0.98	ND	1.53	4.60	ND	ND
589-81-1	3-Methylheptane	0.33	0.98	ND	1.53	4.60	ND	ND
111-65-9	n-Octane	0.33	0.98	0.93	1.53	4.60	4.36	J
100-41-4	Ethylbenzene	0.33	0.98	0.75	1.43	4.28	3.27	J
108-38-3	m,p-xylene	0.33	0.98	4.23	1.43	4.28	18.40	
100-42-5	Styrene	0.33	0.98	ND	1.40	4.20	ND	ND
95-47-6	o-xylene	0.33	0.98	1.04	1.43	4.28	4.54	
111-84-2	n-Nonane	0.29	0.87	0.74	1.53	4.59	3.91	J
98-82-8	i-Propylbenzene	0.29	0.87	ND	1.43	4.30	ND	ND
103-65-1	n-propylbenzene	0.29	0.87	ND	1.43	4.30	ND	ND
620-14-4	3-Ethyltoluene	0.29	0.87	ND	1.43	4.30	ND	ND
622-96-8	4-Ethyltoluene	0.29	0.87	ND	1.43	4.30	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.29	0.87	ND	1.43	4.30	ND	ND
611-14-3	2-Ethyltoluene	0.29	0.87	ND	1.43	4.30	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	0.87	ND	1.43	4.30	ND	ND
124-18-5	n-Decane	0.26	0.79	ND	1.53	4.58	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.29	0.87	ND	1.43	4.30	ND	ND
141-93-5	1,3-Diethylbenzene	0.26	0.79	ND	1.44	4.32	ND	ND
105-05-5	1,4-Diethylbenzene	0.26	0.79	ND	1.44	4.32	ND	ND
104-51-8	n-Butylbenzene	0.26	0.79	ND	1.44	4.32	ND	ND
1120-21-4	Undecane	0.24	0.71	ND	1.53	4.58	ND	ND
91-20-3	Naphthalene	0.26	0.79	ND	1.38	4.13	ND	ND
112-40-3	Dodecane	0.22	0.65	ND	1.52	4.57	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.82	29.47	24.73	34.70	104.11	87.37	J
TNMHC - C1	Total Non-Methane Hydrocarbons	58.94	176.83	148.39	38.65	115.95	97.30	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 05

File Name: 2510005A
Description: T-105
Canister: 685
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 10:16
Date Analyzed: 03/27/25 **Time:** 19:41
Can Factor: 1.23
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.23	3.68	ND	1.41	4.24	ND	ND
74-86-2	Acetylene	1.23	3.68	ND	1.31	3.92	ND	ND
74-84-0	Ethane	1.23	3.68	4.53	1.51	4.54	5.58	
115-07-1	Propene	0.82	2.45	ND	1.41	4.23	ND	ND
74-98-6	Propane	0.82	2.45	1.95	1.48	4.43	3.53	J
75-28-5	i-Butane	0.61	1.84	ND	1.46	4.38	ND	ND
106-98-9	1-Butene	0.61	1.84	2.64	1.41	4.23	6.07	
106-97-8	n-Butane	0.61	1.84	ND	1.46	4.38	ND	ND
624-64-6	t-2-Butene	0.61	1.84	ND	1.41	4.23	ND	ND
590-18-1	c-2-Butene	0.61	1.84	ND	1.41	4.23	ND	ND
78-78-4	i-Pentane	0.49	1.47	ND	1.45	4.36	ND	ND
109-67-1	1-Pentene	0.49	1.47	ND	1.41	4.23	ND	ND
109-66-0	n-Pentane	0.49	1.47	ND	1.45	4.35	ND	ND
646-04-8	t-2-Pentene	0.49	1.47	0.90	1.41	4.23	2.58	J
627-20-3	c-2-Pentene	0.49	1.47	ND	1.41	4.23	ND	ND
75-83-2	2,2-Dimethylbutane	0.41	1.23	ND	1.44	4.33	ND	ND
142-29-0	Cyclopentene	0.49	1.47	ND	1.37	4.11	ND	ND
287-92-3	Cyclopentane	0.49	1.47	ND	1.41	4.23	ND	ND
79-29-8	2,3-Dimethylbutane	0.41	1.23	ND	1.44	4.33	ND	ND
107-83-5	2-Methylpentane	0.41	1.23	ND	1.44	4.33	ND	ND
96-14-0	3-Methylpentane	0.41	1.23	0.64	1.44	4.33	2.25	J
592-41-6	1-Hexene	0.41	1.23	ND	1.41	4.23	ND	ND
110-54-3	n-Hexane	0.41	1.23	ND	1.44	4.33	ND	ND
1120-62-3	3-Methylcyclopentene	0.41	1.23	ND	1.38	4.13	ND	ND
96-37-7	Methylcyclopentane	0.41	1.23	ND	1.41	4.23	ND	ND
108-08-7	2,4-Dimethylpentane	0.35	1.05	ND	1.44	4.32	ND	ND
71-43-2	Benzene	0.41	1.23	6.64	1.31	3.93	21.24	
110-82-7	Cyclohexane	0.41	1.23	ND	1.41	4.23	ND	ND
591-76-4	2-Methylhexane	0.35	1.05	ND	1.44	4.32	ND	ND
565-59-3	2,3-Dimethylpentane	0.35	1.05	ND	1.44	4.32	ND	ND
589-34-4	3-Methylhexane	0.35	1.05	ND	1.44	4.32	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.31	0.92	ND	1.44	4.31	ND	ND
142-82-5	n-Heptane	0.35	1.05	0.93	1.44	4.32	3.81	J
108-87-2	Methylcyclohexane	0.35	1.05	ND	1.41	4.23	ND	ND
592-13-2	2,5-Dimethylhexane	0.31	0.92	ND	1.44	4.31	ND	ND
589-43-5	2,4-Dimethylhexane	0.31	0.92	ND	1.44	4.31	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.31	0.92	0.35	1.44	4.31	1.64	J

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.05	2.04	1.32	3.97	7.72	
584-94-1	2,3-Dimethylhexane	0.31	0.92	ND	1.44	4.31	ND	ND
592-27-8	2-Methylheptane	0.31	0.92	ND	1.44	4.31	ND	ND
589-53-7	4-Methylheptane	0.31	0.92	ND	1.44	4.31	ND	ND
589-81-1	3-Methylheptane	0.31	0.92	ND	1.44	4.31	ND	ND
111-65-9	n-Octane	0.31	0.92	0.54	1.44	4.31	2.52	J
100-41-4	Ethylbenzene	0.31	0.92	0.97	1.33	4.00	4.22	
108-38-3	m,p-xylene	0.31	0.92	2.16	1.33	4.00	9.40	
100-42-5	Styrene	0.31	0.92	ND	1.31	3.93	ND	ND
95-47-6	o-xylene	0.31	0.92	0.70	1.33	4.00	3.07	J
111-84-2	n-Nonane	0.27	0.82	0.41	1.43	4.30	2.16	J
98-82-8	i-Propylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
103-65-1	n-propylbenzene	0.27	0.82	0.33	1.34	4.03	1.63	J
620-14-4	3-Ethyltoluene	0.27	0.82	ND	1.34	4.03	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.82	ND	1.34	4.03	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.82	0.46	1.34	4.03	2.25	J
611-14-3	2-Ethyltoluene	0.27	0.82	ND	1.34	4.03	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.82	0.78	1.34	4.03	3.84	J
124-18-5	n-Decane	0.25	0.74	0.98	1.43	4.29	5.71	
526-73-8	1,2,3-Trimethylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.74	3.50	1.35	4.05	19.26	
105-05-5	1,4-Diethylbenzene	0.25	0.74	ND	1.35	4.05	ND	ND
104-51-8	n-Butylbenzene	0.25	0.74	ND	1.35	4.05	ND	ND
1120-21-4	Undecane	0.22	0.67	ND	1.43	4.29	ND	ND
91-20-3	Naphthalene	0.25	0.74	ND	1.29	3.87	ND	ND
112-40-3	Dodecane	0.20	0.61	ND	1.43	4.28	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.20	27.60	33.89	32.50	97.51	119.74	
TNMHC - C1	Total Non-Methane Hydrocarbons	55.20	165.61	203.36	36.20	108.59	133.35	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 06

File Name: 2510006A
Description: T-106
Canister: 621
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 10:22
Date Analyzed: 03/27/25 **Time:** 11:21
Can Factor: 1.23
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.23	3.68	ND	1.41	4.23	ND	ND
74-86-2	Acetylene	1.23	3.68	ND	1.31	3.92	ND	ND
74-84-0	Ethane	1.23	3.68	3.99	1.51	4.54	4.93	
115-07-1	Propene	0.82	2.45	ND	1.41	4.23	ND	ND
74-98-6	Propane	0.82	2.45	1.09	1.48	4.43	1.97	J
75-28-5	i-Butane	0.61	1.84	ND	1.46	4.38	ND	ND
106-98-9	1-Butene	0.61	1.84	ND	1.41	4.23	ND	ND
106-97-8	n-Butane	0.61	1.84	ND	1.46	4.38	ND	ND
624-64-6	t-2-Butene	0.61	1.84	ND	1.41	4.23	ND	ND
590-18-1	c-2-Butene	0.61	1.84	ND	1.41	4.23	ND	ND
78-78-4	i-Pentane	0.49	1.47	ND	1.45	4.35	ND	ND
109-67-1	1-Pentene	0.49	1.47	ND	1.41	4.23	ND	ND
109-66-0	n-Pentane	0.49	1.47	ND	1.45	4.35	ND	ND
646-04-8	t-2-Pentene	0.49	1.47	ND	1.41	4.23	ND	ND
627-20-3	c-2-Pentene	0.49	1.47	ND	1.41	4.23	ND	ND
75-83-2	2,2-Dimethylbutane	0.41	1.23	ND	1.44	4.33	ND	ND
142-29-0	Cyclopentene	0.49	1.47	ND	1.37	4.10	ND	ND
287-92-3	Cyclopentane	0.49	1.47	ND	1.41	4.23	ND	ND
79-29-8	2,3-Dimethylbutane	0.41	1.23	ND	1.44	4.33	ND	ND
107-83-5	2-Methylpentane	0.41	1.23	ND	1.44	4.33	ND	ND
96-14-0	3-Methylpentane	0.41	1.23	ND	1.44	4.33	ND	ND
592-41-6	1-Hexene	0.41	1.23	ND	1.41	4.23	ND	ND
110-54-3	n-Hexane	0.41	1.23	ND	1.44	4.33	ND	ND
1120-62-3	3-Methylcyclopentene	0.41	1.23	ND	1.37	4.12	ND	ND
96-37-7	Methylcyclopentane	0.41	1.23	ND	1.41	4.23	ND	ND
108-08-7	2,4-Dimethylpentane	0.35	1.05	ND	1.44	4.31	ND	ND
71-43-2	Benzene	0.41	1.23	1.92	1.31	3.92	6.16	
110-82-7	Cyclohexane	0.41	1.23	ND	1.41	4.23	ND	ND
591-76-4	2-Methylhexane	0.35	1.05	ND	1.44	4.31	ND	ND
565-59-3	2,3-Dimethylpentane	0.35	1.05	ND	1.44	4.31	ND	ND
589-34-4	3-Methylhexane	0.35	1.05	ND	1.44	4.31	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.31	0.92	ND	1.43	4.30	ND	ND
142-82-5	n-Heptane	0.35	1.05	ND	1.44	4.31	ND	ND
108-87-2	Methylcyclohexane	0.35	1.05	ND	1.41	4.23	ND	ND
592-13-2	2,5-Dimethylhexane	0.31	0.92	ND	1.43	4.30	ND	ND
589-43-5	2,4-Dimethylhexane	0.31	0.92	ND	1.43	4.30	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.31	0.92	ND	1.43	4.30	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.05	ND	1.32	3.97	ND	ND
584-94-1	2,3-Dimethylhexane	0.31	0.92	ND	1.43	4.30	ND	ND
592-27-8	2-Methylheptane	0.31	0.92	ND	1.43	4.30	ND	ND
589-53-7	4-Methylheptane	0.31	0.92	ND	1.43	4.30	ND	ND
589-81-1	3-Methylheptane	0.31	0.92	ND	1.43	4.30	ND	ND
111-65-9	n-Octane	0.31	0.92	ND	1.43	4.30	ND	ND
100-41-4	Ethylbenzene	0.31	0.92	ND	1.33	4.00	ND	ND
108-38-3	m,p-xylene	0.31	0.92	ND	1.33	4.00	ND	ND
100-42-5	Styrene	0.31	0.92	ND	1.31	3.93	ND	ND
95-47-6	o-xylene	0.31	0.92	ND	1.33	4.00	ND	ND
111-84-2	n-Nonane	0.27	0.82	ND	1.43	4.30	ND	ND
98-82-8	i-Propylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
103-65-1	n-propylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.82	ND	1.34	4.03	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.82	ND	1.34	4.03	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.82	ND	1.34	4.03	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
124-18-5	n-Decane	0.25	0.74	ND	1.43	4.29	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.74	ND	1.35	4.04	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.74	ND	1.35	4.04	ND	ND
104-51-8	n-Butylbenzene	0.25	0.74	ND	1.35	4.04	ND	ND
1120-21-4	Undecane	0.22	0.67	ND	1.43	4.28	ND	ND
91-20-3	Naphthalene	0.25	0.74	ND	1.29	3.86	ND	ND
112-40-3	Dodecane	0.20	0.61	ND	1.43	4.28	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.19	27.58	ND	32.47	97.42	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	55.15	165.46	ND	36.17	108.50	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 07

File Name: 2510007A
Description: T-107
Canister: 644
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 10:22
Date Analyzed: 03/27/25 **Time:** 12:09
Can Factor: 1.23
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.23	3.70	ND	1.42	4.26	ND	ND
74-86-2	Acetylene	1.23	3.70	ND	1.31	3.94	ND	ND
74-84-0	Ethane	1.23	3.70	3.94	1.52	4.56	4.86	
115-07-1	Propene	0.82	2.47	ND	1.42	4.26	ND	ND
74-98-6	Propane	0.82	2.47	1.33	1.49	4.46	2.40	J
75-28-5	i-Butane	0.62	1.85	ND	1.47	4.41	ND	ND
106-98-9	1-Butene	0.62	1.85	ND	1.42	4.25	ND	ND
106-97-8	n-Butane	0.62	1.85	ND	1.47	4.41	ND	ND
624-64-6	t-2-Butene	0.62	1.85	ND	1.42	4.25	ND	ND
590-18-1	c-2-Butene	0.62	1.85	ND	1.42	4.25	ND	ND
78-78-4	i-Pentane	0.49	1.48	ND	1.46	4.38	ND	ND
109-67-1	1-Pentene	0.49	1.48	ND	1.42	4.25	ND	ND
109-66-0	n-Pentane	0.49	1.48	ND	1.46	4.37	ND	ND
646-04-8	t-2-Pentene	0.49	1.48	ND	1.42	4.25	ND	ND
627-20-3	c-2-Pentene	0.49	1.48	ND	1.42	4.25	ND	ND
75-83-2	2,2-Dimethylbutane	0.41	1.23	ND	1.45	4.36	ND	ND
142-29-0	Cyclopentene	0.49	1.48	ND	1.38	4.13	ND	ND
287-92-3	Cyclopentane	0.49	1.48	ND	1.42	4.25	ND	ND
79-29-8	2,3-Dimethylbutane	0.41	1.23	ND	1.45	4.36	ND	ND
107-83-5	2-Methylpentane	0.41	1.23	ND	1.45	4.36	ND	ND
96-14-0	3-Methylpentane	0.41	1.23	ND	1.45	4.36	ND	ND
592-41-6	1-Hexene	0.41	1.23	ND	1.42	4.26	ND	ND
110-54-3	n-Hexane	0.41	1.23	ND	1.45	4.36	ND	ND
1120-62-3	3-Methylcyclopentene	0.41	1.23	ND	1.38	4.15	ND	ND
96-37-7	Methylcyclopentane	0.41	1.23	ND	1.42	4.26	ND	ND
108-08-7	2,4-Dimethylpentane	0.35	1.06	ND	1.45	4.34	ND	ND
71-43-2	Benzene	0.41	1.23	4.21	1.32	3.95	13.49	
110-82-7	Cyclohexane	0.41	1.23	ND	1.42	4.26	ND	ND
591-76-4	2-Methylhexane	0.35	1.06	ND	1.45	4.34	ND	ND
565-59-3	2,3-Dimethylpentane	0.35	1.06	ND	1.45	4.34	ND	ND
589-34-4	3-Methylhexane	0.35	1.06	ND	1.45	4.34	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.31	0.93	ND	1.44	4.33	ND	ND
142-82-5	n-Heptane	0.35	1.06	ND	1.45	4.34	ND	ND
108-87-2	Methylcyclohexane	0.35	1.06	ND	1.42	4.25	ND	ND
592-13-2	2,5-Dimethylhexane	0.31	0.93	ND	1.44	4.33	ND	ND
589-43-5	2,4-Dimethylhexane	0.31	0.93	ND	1.44	4.33	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.31	0.93	ND	1.44	4.33	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.06	0.96	1.33	3.99	3.61	J
584-94-1	2,3-Dimethylhexane	0.31	0.93	ND	1.44	4.33	ND	ND
592-27-8	2-Methylheptane	0.31	0.93	ND	1.44	4.33	ND	ND
589-53-7	4-Methylheptane	0.31	0.93	ND	1.44	4.33	ND	ND
589-81-1	3-Methylheptane	0.31	0.93	ND	1.44	4.33	ND	ND
111-65-9	n-Octane	0.31	0.93	ND	1.44	4.33	ND	ND
100-41-4	Ethylbenzene	0.31	0.93	0.35	1.34	4.03	1.54	J
108-38-3	m,p-xylene	0.31	0.93	0.83	1.34	4.03	3.61	J
100-42-5	Styrene	0.31	0.93	ND	1.32	3.95	ND	ND
95-47-6	o-xylene	0.31	0.93	ND	1.34	4.03	ND	ND
111-84-2	n-Nonane	0.27	0.82	ND	1.44	4.32	ND	ND
98-82-8	i-Propylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
103-65-1	n-propylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.82	ND	1.35	4.05	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.82	ND	1.35	4.05	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.82	ND	1.35	4.05	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
124-18-5	n-Decane	0.25	0.74	ND	1.44	4.32	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.74	1.18	1.36	4.07	6.47	
105-05-5	1,4-Diethylbenzene	0.25	0.74	ND	1.36	4.07	ND	ND
104-51-8	n-Butylbenzene	0.25	0.74	ND	1.36	4.07	ND	ND
1120-21-4	Undecane	0.22	0.67	ND	1.44	4.31	ND	ND
91-20-3	Naphthalene	0.25	0.74	ND	1.30	3.89	ND	ND
112-40-3	Dodecane	0.21	0.62	ND	1.43	4.30	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.25	27.75	23.36	32.68	98.03	82.53	J
TNMHC - C1	Total Non-Methane Hydrocarbons	55.50	166.50	140.17	36.39	109.18	91.91	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 08

File Name: 2510008A
Description: T-108
Canister: 556
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 10:30
Date Analyzed: 03/27/25 **Time:** 12:57
Can Factor: 1.26
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.26	3.79	499.84	1.45	4.36	575.63	
74-86-2	Acetylene	1.26	3.79	111.06	1.34	4.03	118.34	
74-84-0	Ethane	1.26	3.79	548.39	1.56	4.67	676.50	
115-07-1	Propene	0.84	2.52	90.37	1.45	4.36	155.93	
74-98-6	Propane	0.84	2.52	38.40	1.52	4.56	69.41	
75-28-5	i-Butane	0.63	1.89	ND	1.50	4.51	ND	ND
106-98-9	1-Butene	0.63	1.89	ND	1.45	4.35	ND	ND
106-97-8	n-Butane	0.63	1.89	976.64	1.50	4.51	2,325.53	
624-64-6	t-2-Butene	0.63	1.89	53.12	1.45	4.35	122.13	
590-18-1	c-2-Butene	0.63	1.89	ND	1.45	4.35	ND	ND
78-78-4	i-Pentane	0.50	1.51	299.04	1.49	4.48	884.85	
109-67-1	1-Pentene	0.50	1.51	221.96	1.45	4.35	637.69	
109-66-0	n-Pentane	0.50	1.51	237.95	1.49	4.48	703.13	
646-04-8	t-2-Pentene	0.50	1.51	ND	1.45	4.35	ND	ND
627-20-3	c-2-Pentene	0.50	1.51	290.55	1.45	4.35	834.75	
75-83-2	2,2-Dimethylbutane	0.42	1.26	23.66	1.49	4.46	83.59	
142-29-0	Cyclopentene	0.50	1.51	ND	1.41	4.23	ND	ND
287-92-3	Cyclopentane	0.50	1.51	112.76	1.45	4.35	323.96	
79-29-8	2,3-Dimethylbutane	0.42	1.26	21.72	1.49	4.46	76.73	
107-83-5	2-Methylpentane	0.42	1.26	79.19	1.49	4.46	279.75	
96-14-0	3-Methylpentane	0.42	1.26	55.70	1.49	4.46	196.78	
592-41-6	1-Hexene	0.42	1.26	ND	1.45	4.36	ND	ND
110-54-3	n-Hexane	0.42	1.26	79.50	1.49	4.46	280.85	
1120-62-3	3-Methylcyclopentene	0.42	1.26	95.86	1.42	4.25	322.54	
96-37-7	Methylcyclopentane	0.42	1.26	104.17	1.45	4.36	359.48	
108-08-7	2,4-Dimethylpentane	0.36	1.08	67.96	1.48	4.44	279.10	
71-43-2	Benzene	0.42	1.26	10,170.31	1.35	4.04	32,553.34	
110-82-7	Cyclohexane	0.42	1.26	ND	1.45	4.36	ND	ND
591-76-4	2-Methylhexane	0.36	1.08	20.35	1.48	4.44	83.58	
565-59-3	2,3-Dimethylpentane	0.36	1.08	13.84	1.48	4.44	56.82	
589-34-4	3-Methylhexane	0.36	1.08	6.74	1.48	4.44	27.67	
540-84-1	2,2,4-Trimethylpentane	0.32	0.95	83.91	1.48	4.43	392.71	
142-82-5	n-Heptane	0.36	1.08	172.41	1.48	4.44	708.01	
108-87-2	Methylcyclohexane	0.36	1.08	59.42	1.45	4.35	239.15	
592-13-2	2,5-Dimethylhexane	0.32	0.95	ND	1.48	4.43	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.95	12.26	1.48	4.43	57.36	
565-75-3	2,3,4-Trimethylpentane	0.32	0.95	ND	1.48	4.43	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.08	54.89	1.36	4.08	207.20	
584-94-1	2,3-Dimethylhexane	0.32	0.95	6.26	1.48	4.43	29.31	
592-27-8	2-Methylheptane	0.32	0.95	9.64	1.48	4.43	45.10	
589-53-7	4-Methylheptane	0.32	0.95	8.05	1.48	4.43	37.68	
589-81-1	3-Methylheptane	0.32	0.95	8.97	1.48	4.43	41.97	
111-65-9	n-Octane	0.32	0.95	8.90	1.48	4.43	41.68	
100-41-4	Ethylbenzene	0.32	0.95	20.45	1.37	4.12	89.01	
108-38-3	m,p-xylene	0.32	0.95	13.51	1.37	4.12	58.79	
100-42-5	Styrene	0.32	0.95	ND	1.35	4.04	ND	ND
95-47-6	o-xylene	0.32	0.95	6.46	1.37	4.12	28.10	
111-84-2	n-Nonane	0.28	0.84	8.82	1.47	4.42	46.40	
98-82-8	i-Propylbenzene	0.28	0.84	ND	1.38	4.14	ND	ND
103-65-1	n-propylbenzene	0.28	0.84	ND	1.38	4.14	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.84	ND	1.38	4.14	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.84	0.74	1.38	4.14	3.64	J
108-67-8	1,3,5-Trimethylbenzene	0.28	0.84	ND	1.38	4.14	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.84	ND	1.38	4.14	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.84	ND	1.38	4.14	ND	ND
124-18-5	n-Decane	0.25	0.76	ND	1.47	4.42	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.84	ND	1.38	4.14	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.76	ND	1.39	4.16	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.76	ND	1.39	4.16	ND	ND
104-51-8	n-Butylbenzene	0.25	0.76	ND	1.39	4.16	ND	ND
1120-21-4	Undecane	0.23	0.69	ND	1.47	4.41	ND	ND
91-20-3	Naphthalene	0.25	0.76	ND	1.33	3.98	ND	ND
112-40-3	Dodecane	0.21	0.63	ND	1.47	4.40	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.47	28.40	25,580.19	33.44	100.32	90,369.35	
TNMHC - C1	Total Non-Methane Hydrocarbons	56.79	170.38	153,481.12	37.24	111.73	100,643.36	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 09

File Name: 2510009A
Description: T-109
Canister: 694
QC_Batch: 040325-GCK

Date Sampled: 03/19/25 **Time:** 11:25
Date Analyzed: 04/03/25 **Time:** 17:00
Can Factor: 1.30
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.30	3.90	ND	1.50	4.49	ND	ND
74-86-2	Acetylene	1.30	3.90	ND	1.38	4.15	ND	ND
74-84-0	Ethane	1.30	3.90	2.87	1.60	4.81	3.55	J
115-07-1	Propene	0.87	2.60	ND	1.49	4.48	ND	ND
74-98-6	Propane	0.87	2.60	2.13	1.56	4.69	3.85	J
75-28-5	i-Butane	0.65	1.95	ND	1.55	4.64	ND	ND
106-98-9	1-Butene	0.65	1.95	ND	1.49	4.48	ND	ND
106-97-8	n-Butane	0.65	1.95	2.70	1.55	4.64	6.42	
624-64-6	t-2-Butene	0.65	1.95	ND	1.49	4.48	ND	ND
590-18-1	c-2-Butene	0.65	1.95	ND	1.49	4.48	ND	ND
78-78-4	i-Pentane	0.52	1.56	ND	1.54	4.61	ND	ND
109-67-1	1-Pentene	0.52	1.56	0.64	1.49	4.48	1.84	J
109-66-0	n-Pentane	0.52	1.56	ND	1.54	4.61	ND	ND
646-04-8	t-2-Pentene	0.52	1.56	3.22	1.49	4.48	9.26	
627-20-3	c-2-Pentene	0.52	1.56	ND	1.49	4.48	ND	ND
75-83-2	2,2-Dimethylbutane	0.43	1.30	ND	1.53	4.59	ND	ND
142-29-0	Cyclopentene	0.52	1.56	ND	1.45	4.35	ND	ND
287-92-3	Cyclopentane	0.52	1.56	ND	1.49	4.48	ND	ND
79-29-8	2,3-Dimethylbutane	0.43	1.30	ND	1.53	4.59	ND	ND
107-83-5	2-Methylpentane	0.43	1.30	ND	1.53	4.59	ND	ND
96-14-0	3-Methylpentane	0.43	1.30	ND	1.53	4.59	ND	ND
592-41-6	1-Hexene	0.43	1.30	ND	1.49	4.48	ND	ND
110-54-3	n-Hexane	0.43	1.30	ND	1.53	4.59	ND	ND
1120-62-3	3-Methylcyclopentene	0.43	1.30	ND	1.46	4.37	ND	ND
96-37-7	Methylcyclopentane	0.43	1.30	3.26	1.49	4.48	11.26	
108-08-7	2,4-Dimethylpentane	0.37	1.11	ND	1.52	4.57	ND	ND
71-43-2	Benzene	0.43	1.30	26.30	1.39	4.16	84.19	
110-82-7	Cyclohexane	0.43	1.30	0.48	1.49	4.48	1.66	J
591-76-4	2-Methylhexane	0.37	1.11	ND	1.52	4.57	ND	ND
565-59-3	2,3-Dimethylpentane	0.37	1.11	ND	1.52	4.57	ND	ND
589-34-4	3-Methylhexane	0.37	1.11	0.76	1.52	4.57	3.14	J
540-84-1	2,2,4-Trimethylpentane	0.32	0.97	ND	1.52	4.56	ND	ND
142-82-5	n-Heptane	0.37	1.11	ND	1.52	4.57	ND	ND
108-87-2	Methylcyclohexane	0.37	1.11	1.42	1.49	4.48	5.71	
592-13-2	2,5-Dimethylhexane	0.32	0.97	ND	1.52	4.56	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.97	0.40	1.52	4.56	1.85	J
565-75-3	2,3,4-Trimethylpentane	0.32	0.97	ND	1.52	4.56	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.37	1.11	6.20	1.40	4.20	23.39	
584-94-1	2,3-Dimethylhexane	0.32	0.97	ND	1.52	4.56	ND	ND
592-27-8	2-Methylheptane	0.32	0.97	1.20	1.52	4.56	5.61	
589-53-7	4-Methylheptane	0.32	0.97	1.13	1.52	4.56	5.31	
589-81-1	3-Methylheptane	0.32	0.97	1.27	1.52	4.56	5.95	
111-65-9	n-Octane	0.32	0.97	ND	1.52	4.56	ND	ND
100-41-4	Ethylbenzene	0.32	0.97	3.55	1.41	4.24	15.44	
108-38-3	m,p-xylene	0.32	0.97	6.51	1.41	4.24	28.35	
100-42-5	Styrene	0.32	0.97	1.31	1.39	4.16	5.57	
95-47-6	o-xylene	0.32	0.97	3.77	1.41	4.24	16.40	
111-84-2	n-Nonane	0.29	0.87	ND	1.52	4.55	ND	ND
98-82-8	i-Propylbenzene	0.29	0.87	0.88	1.42	4.27	4.34	
103-65-1	n-propylbenzene	0.29	0.87	ND	1.42	4.27	ND	ND
620-14-4	3-Ethyltoluene	0.29	0.87	ND	1.42	4.27	ND	ND
622-96-8	4-Ethyltoluene	0.29	0.87	ND	1.42	4.27	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.29	0.87	ND	1.42	4.27	ND	ND
611-14-3	2-Ethyltoluene	0.29	0.87	ND	1.42	4.27	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	0.87	ND	1.42	4.27	ND	ND
124-18-5	n-Decane	0.26	0.78	ND	1.51	4.54	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.29	0.87	ND	1.42	4.27	ND	ND
141-93-5	1,3-Diethylbenzene	0.26	0.78	ND	1.43	4.29	ND	ND
105-05-5	1,4-Diethylbenzene	0.26	0.78	ND	1.43	4.29	ND	ND
104-51-8	n-Butylbenzene	0.26	0.78	ND	1.43	4.29	ND	ND
1120-21-4	Undecane	0.24	0.71	ND	1.51	4.54	ND	ND
91-20-3	Naphthalene	0.26	0.78	ND	1.36	4.09	ND	ND
112-40-3	Dodecane	0.22	0.65	ND	1.51	4.53	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.74	29.22	205.91	34.41	103.23	727.45	
TNMHC - C1	Total Non-Methane Hydrocarbons	58.44	175.33	1,235.48	38.32	114.97	810.15	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 10

File Name: 2510010A
Description: T-110
Canister: 857
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 11:32
Date Analyzed: 03/27/25 **Time:** 14:39
Can Factor: 1.27
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.27	3.82	1.89	1.47	4.40	2.17	J
74-86-2	Acetylene	1.27	3.82	ND	1.36	4.07	ND	ND
74-84-0	Ethane	1.27	3.82	4.62	1.57	4.72	5.70	
115-07-1	Propene	0.85	2.55	ND	1.47	4.40	ND	ND
74-98-6	Propane	0.85	2.55	4.14	1.54	4.61	7.48	
75-28-5	i-Butane	0.64	1.91	ND	1.52	4.55	ND	ND
106-98-9	1-Butene	0.64	1.91	1.64	1.47	4.40	3.78	J
106-97-8	n-Butane	0.64	1.91	1.70	1.52	4.55	4.05	J
624-64-6	t-2-Butene	0.64	1.91	ND	1.47	4.40	ND	ND
590-18-1	c-2-Butene	0.64	1.91	ND	1.47	4.40	ND	ND
78-78-4	i-Pentane	0.51	1.53	ND	1.51	4.53	ND	ND
109-67-1	1-Pentene	0.51	1.53	1.87	1.46	4.39	5.36	
109-66-0	n-Pentane	0.51	1.53	ND	1.51	4.52	ND	ND
646-04-8	t-2-Pentene	0.51	1.53	7.57	1.46	4.39	21.76	
627-20-3	c-2-Pentene	0.51	1.53	ND	1.46	4.39	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.27	ND	1.50	4.50	ND	ND
142-29-0	Cyclopentene	0.51	1.53	ND	1.42	4.27	ND	ND
287-92-3	Cyclopentane	0.51	1.53	ND	1.46	4.39	ND	ND
79-29-8	2,3-Dimethylbutane	0.42	1.27	ND	1.50	4.50	ND	ND
107-83-5	2-Methylpentane	0.42	1.27	ND	1.50	4.50	ND	ND
96-14-0	3-Methylpentane	0.42	1.27	0.96	1.50	4.50	3.40	J
592-41-6	1-Hexene	0.42	1.27	ND	1.47	4.40	ND	ND
110-54-3	n-Hexane	0.42	1.27	ND	1.50	4.50	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.27	ND	1.43	4.29	ND	ND
96-37-7	Methylcyclopentane	0.42	1.27	ND	1.47	4.40	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.09	ND	1.50	4.49	ND	ND
71-43-2	Benzene	0.42	1.27	57.42	1.36	4.08	183.79	
110-82-7	Cyclohexane	0.42	1.27	ND	1.47	4.40	ND	ND
591-76-4	2-Methylhexane	0.36	1.09	0.61	1.50	4.49	2.52	J
565-59-3	2,3-Dimethylpentane	0.36	1.09	ND	1.50	4.49	ND	ND
589-34-4	3-Methylhexane	0.36	1.09	1.10	1.50	4.49	4.52	
540-84-1	2,2,4-Trimethylpentane	0.32	0.96	ND	1.49	4.47	ND	ND
142-82-5	n-Heptane	0.36	1.09	ND	1.50	4.49	ND	ND
108-87-2	Methylcyclohexane	0.36	1.09	1.42	1.47	4.40	5.72	
592-13-2	2,5-Dimethylhexane	0.32	0.96	ND	1.49	4.47	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.96	0.55	1.49	4.47	2.59	J
565-75-3	2,3,4-Trimethylpentane	0.32	0.96	0.73	1.49	4.47	3.42	J

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.09	12.50	1.37	4.12	47.17	
584-94-1	2,3-Dimethylhexane	0.32	0.96	ND	1.49	4.47	ND	ND
592-27-8	2-Methylheptane	0.32	0.96	1.31	1.49	4.47	6.13	
589-53-7	4-Methylheptane	0.32	0.96	1.24	1.49	4.47	5.82	
589-81-1	3-Methylheptane	0.32	0.96	1.09	1.49	4.47	5.12	
111-65-9	n-Octane	0.32	0.96	ND	1.49	4.47	ND	ND
100-41-4	Ethylbenzene	0.32	0.96	5.76	1.39	4.16	25.07	
108-38-3	m,p-xylene	0.32	0.96	11.57	1.39	4.16	50.36	
100-42-5	Styrene	0.32	0.96	ND	1.36	4.08	ND	ND
95-47-6	o-xylene	0.32	0.96	4.70	1.39	4.16	20.44	
111-84-2	n-Nonane	0.28	0.85	ND	1.49	4.47	ND	ND
98-82-8	i-Propylbenzene	0.28	0.85	ND	1.40	4.19	ND	ND
103-65-1	n-propylbenzene	0.28	0.85	ND	1.40	4.19	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.85	ND	1.40	4.19	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.85	ND	1.40	4.19	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.85	ND	1.40	4.19	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.85	ND	1.40	4.19	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.85	ND	1.40	4.19	ND	ND
124-18-5	n-Decane	0.25	0.76	ND	1.49	4.46	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.85	ND	1.40	4.19	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.76	ND	1.40	4.21	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.76	ND	1.40	4.21	ND	ND
104-51-8	n-Butylbenzene	0.25	0.76	ND	1.40	4.21	ND	ND
1120-21-4	Undecane	0.23	0.70	ND	1.48	4.45	ND	ND
91-20-3	Naphthalene	0.25	0.76	ND	1.34	4.02	ND	ND
112-40-3	Dodecane	0.21	0.64	ND	1.48	4.45	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.56	28.67	276.82	33.77	101.30	977.95	
TNMHC - C1	Total Non-Methane Hydrocarbons	57.35	172.04	1,660.92	37.61	112.82	1,089.13	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 11

File Name: 2510011A
Description: T-111
Canister: 504
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 11:32
Date Analyzed: 03/27/25 **Time:** 15:43
Can Factor: 1.25
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.25	3.75	ND	1.44	4.32	ND	ND
74-86-2	Acetylene	1.25	3.75	ND	1.33	3.99	ND	ND
74-84-0	Ethane	1.25	3.75	2.58	1.54	4.62	3.18	J
115-07-1	Propene	0.83	2.50	2.15	1.44	4.31	3.72	J
74-98-6	Propane	0.83	2.50	2.21	1.51	4.52	3.99	J
75-28-5	i-Butane	0.62	1.87	ND	1.49	4.46	ND	ND
106-98-9	1-Butene	0.62	1.87	1.02	1.44	4.31	2.35	J
106-97-8	n-Butane	0.62	1.87	2.81	1.49	4.46	6.70	
624-64-6	t-2-Butene	0.62	1.87	ND	1.44	4.31	ND	ND
590-18-1	c-2-Butene	0.62	1.87	ND	1.44	4.31	ND	ND
78-78-4	i-Pentane	0.50	1.50	5.80	1.48	4.44	17.16	
109-67-1	1-Pentene	0.50	1.50	ND	1.44	4.31	ND	ND
109-66-0	n-Pentane	0.50	1.50	ND	1.48	4.43	ND	ND
646-04-8	t-2-Pentene	0.50	1.50	ND	1.44	4.31	ND	ND
627-20-3	c-2-Pentene	0.50	1.50	ND	1.44	4.31	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.25	ND	1.47	4.41	ND	ND
142-29-0	Cyclopentene	0.50	1.50	ND	1.40	4.19	ND	ND
287-92-3	Cyclopentane	0.50	1.50	ND	1.44	4.31	ND	ND
79-29-8	2,3-Dimethylbutane	0.42	1.25	ND	1.47	4.41	ND	ND
107-83-5	2-Methylpentane	0.42	1.25	0.68	1.47	4.41	2.39	J
96-14-0	3-Methylpentane	0.42	1.25	ND	1.47	4.41	ND	ND
592-41-6	1-Hexene	0.42	1.25	ND	1.44	4.31	ND	ND
110-54-3	n-Hexane	0.42	1.25	ND	1.47	4.41	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.25	ND	1.40	4.20	ND	ND
96-37-7	Methylcyclopentane	0.42	1.25	ND	1.44	4.31	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.07	2.70	1.47	4.40	11.09	
71-43-2	Benzene	0.42	1.25	13.71	1.33	4.00	43.88	
110-82-7	Cyclohexane	0.42	1.25	ND	1.44	4.31	ND	ND
591-76-4	2-Methylhexane	0.36	1.07	ND	1.47	4.40	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.07	1.32	1.47	4.40	5.40	
589-34-4	3-Methylhexane	0.36	1.07	2.12	1.47	4.40	8.70	
540-84-1	2,2,4-Trimethylpentane	0.31	0.94	ND	1.46	4.39	ND	ND
142-82-5	n-Heptane	0.36	1.07	0.72	1.47	4.40	2.94	J
108-87-2	Methylcyclohexane	0.36	1.07	ND	1.44	4.31	ND	ND
592-13-2	2,5-Dimethylhexane	0.31	0.94	0.37	1.46	4.39	1.74	J
589-43-5	2,4-Dimethylhexane	0.31	0.94	ND	1.46	4.39	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.31	0.94	0.93	1.46	4.39	4.34	J

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.07	2.83	1.35	4.04	10.67	
584-94-1	2,3-Dimethylhexane	0.31	0.94	ND	1.46	4.39	ND	ND
592-27-8	2-Methylheptane	0.31	0.94	0.87	1.46	4.39	4.08	J
589-53-7	4-Methylheptane	0.31	0.94	ND	1.46	4.39	ND	ND
589-81-1	3-Methylheptane	0.31	0.94	ND	1.46	4.39	ND	ND
111-65-9	n-Octane	0.31	0.94	0.71	1.46	4.39	3.33	J
100-41-4	Ethylbenzene	0.31	0.94	1.00	1.36	4.08	4.34	
108-38-3	m,p-xylene	0.31	0.94	2.17	1.36	4.08	9.46	
100-42-5	Styrene	0.31	0.94	ND	1.33	4.00	ND	ND
95-47-6	o-xylene	0.31	0.94	0.91	1.36	4.08	3.96	J
111-84-2	n-Nonane	0.28	0.83	0.43	1.46	4.38	2.26	J
98-82-8	i-Propylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
103-65-1	n-propylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.83	ND	1.37	4.10	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.83	ND	1.37	4.10	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.83	ND	1.37	4.10	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
124-18-5	n-Decane	0.25	0.75	ND	1.46	4.37	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.75	ND	1.37	4.12	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.75	ND	1.37	4.12	ND	ND
104-51-8	n-Butylbenzene	0.25	0.75	ND	1.37	4.12	ND	ND
1120-21-4	Undecane	0.23	0.68	ND	1.46	4.37	ND	ND
91-20-3	Naphthalene	0.25	0.75	ND	1.31	3.94	ND	ND
112-40-3	Dodecane	0.21	0.62	ND	1.45	4.36	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.37	28.12	176.58	33.11	99.33	623.83	
TNMHC - C1	Total Non-Methane Hydrocarbons	56.23	168.70	1,059.49	36.87	110.62	694.75	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 12

File Name: 2510012A
Description: T-112
Canister: 631
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 11:38
Date Analyzed: 03/27/25 **Time:** 16:35
Can Factor: 1.24
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.24	3.71	1.60	1.42	4.27	1.84	J
74-86-2	Acetylene	1.24	3.71	ND	1.32	3.95	ND	ND
74-84-0	Ethane	1.24	3.71	3.04	1.52	4.57	3.75	J
115-07-1	Propene	0.82	2.47	18.54	1.42	4.26	31.99	
74-98-6	Propane	0.82	2.47	5.58	1.49	4.47	10.08	
75-28-5	i-Butane	0.62	1.85	ND	1.47	4.41	ND	ND
106-98-9	1-Butene	0.62	1.85	ND	1.42	4.26	ND	ND
106-97-8	n-Butane	0.62	1.85	ND	1.47	4.41	ND	ND
624-64-6	t-2-Butene	0.62	1.85	ND	1.42	4.26	ND	ND
590-18-1	c-2-Butene	0.62	1.85	ND	1.42	4.26	ND	ND
78-78-4	i-Pentane	0.49	1.48	10.02	1.46	4.39	29.65	
109-67-1	1-Pentene	0.49	1.48	ND	1.42	4.26	ND	ND
109-66-0	n-Pentane	0.49	1.48	22.92	1.46	4.38	67.72	
646-04-8	t-2-Pentene	0.49	1.48	ND	1.42	4.26	ND	ND
627-20-3	c-2-Pentene	0.49	1.48	2.31	1.42	4.26	6.62	
75-83-2	2,2-Dimethylbutane	0.41	1.24	ND	1.45	4.36	ND	ND
142-29-0	Cyclopentene	0.49	1.48	ND	1.38	4.14	ND	ND
287-92-3	Cyclopentane	0.49	1.48	0.55	1.42	4.26	1.58	J
79-29-8	2,3-Dimethylbutane	0.41	1.24	ND	1.45	4.36	ND	ND
107-83-5	2-Methylpentane	0.41	1.24	1.86	1.45	4.36	6.58	
96-14-0	3-Methylpentane	0.41	1.24	1.20	1.45	4.36	4.26	J
592-41-6	1-Hexene	0.41	1.24	ND	1.42	4.26	ND	ND
110-54-3	n-Hexane	0.41	1.24	0.50	1.45	4.36	1.76	J
1120-62-3	3-Methylcyclopentene	0.41	1.24	ND	1.39	4.16	ND	ND
96-37-7	Methylcyclopentane	0.41	1.24	1.21	1.42	4.26	4.19	J
108-08-7	2,4-Dimethylpentane	0.35	1.06	0.78	1.45	4.35	3.19	J
71-43-2	Benzene	0.41	1.24	12.03	1.32	3.95	38.51	
110-82-7	Cyclohexane	0.41	1.24	0.64	1.42	4.26	2.19	J
591-76-4	2-Methylhexane	0.35	1.06	0.60	1.45	4.35	2.48	J
565-59-3	2,3-Dimethylpentane	0.35	1.06	ND	1.45	4.35	ND	ND
589-34-4	3-Methylhexane	0.35	1.06	ND	1.45	4.35	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.31	0.93	ND	1.45	4.34	ND	ND
142-82-5	n-Heptane	0.35	1.06	1.24	1.45	4.35	5.10	
108-87-2	Methylcyclohexane	0.35	1.06	3.46	1.42	4.26	13.91	
592-13-2	2,5-Dimethylhexane	0.31	0.93	1.98	1.45	4.34	9.26	
589-43-5	2,4-Dimethylhexane	0.31	0.93	2.56	1.45	4.34	11.98	
565-75-3	2,3,4-Trimethylpentane	0.31	0.93	ND	1.45	4.34	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.06	2.01	1.33	4.00	7.59	
584-94-1	2,3-Dimethylhexane	0.31	0.93	ND	1.45	4.34	ND	ND
592-27-8	2-Methylheptane	0.31	0.93	ND	1.45	4.34	ND	ND
589-53-7	4-Methylheptane	0.31	0.93	0.84	1.45	4.34	3.91	J
589-81-1	3-Methylheptane	0.31	0.93	ND	1.45	4.34	ND	ND
111-65-9	n-Octane	0.31	0.93	ND	1.45	4.34	ND	ND
100-41-4	Ethylbenzene	0.31	0.93	3.77	1.34	4.03	16.42	
108-38-3	m,p-xylene	0.31	0.93	1.08	1.34	4.03	4.71	
100-42-5	Styrene	0.31	0.93	ND	1.32	3.96	ND	ND
95-47-6	o-xylene	0.31	0.93	1.17	1.34	4.03	5.09	
111-84-2	n-Nonane	0.27	0.82	ND	1.44	4.33	ND	ND
98-82-8	i-Propylbenzene	0.27	0.82	ND	1.35	4.06	ND	ND
103-65-1	n-propylbenzene	0.27	0.82	ND	1.35	4.06	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.82	ND	1.35	4.06	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.82	ND	1.35	4.06	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.82	ND	1.35	4.06	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.82	ND	1.35	4.06	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.82	ND	1.35	4.06	ND	ND
124-18-5	n-Decane	0.25	0.74	ND	1.44	4.32	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.82	ND	1.35	4.06	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.74	ND	1.36	4.08	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.74	ND	1.36	4.08	ND	ND
104-51-8	n-Butylbenzene	0.25	0.74	ND	1.36	4.08	ND	ND
1120-21-4	Undecane	0.22	0.67	ND	1.44	4.32	ND	ND
91-20-3	Naphthalene	0.25	0.74	ND	1.30	3.89	ND	ND
112-40-3	Dodecane	0.21	0.62	ND	1.44	4.31	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.26	27.79	250.69	32.73	98.19	885.62	
TNMHC - C1	Total Non-Methane Hydrocarbons	55.59	166.76	1,504.12	36.45	109.35	986.31	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 13

File Name: 2510013A
Description: T-113
Canister: 690
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 13:05
Date Analyzed: 03/27/25 **Time:** 17:33
Can Factor: 1.23
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.23	3.70	ND	1.42	4.26	ND	ND
74-86-2	Acetylene	1.23	3.70	ND	1.31	3.94	ND	ND
74-84-0	Ethane	1.23	3.70	6.59	1.52	4.57	8.13	
115-07-1	Propene	0.82	2.47	1.44	1.42	4.26	2.49	J
74-98-6	Propane	0.82	2.47	3.01	1.49	4.46	5.44	
75-28-5	i-Butane	0.62	1.85	ND	1.47	4.41	ND	ND
106-98-9	1-Butene	0.62	1.85	ND	1.42	4.26	ND	ND
106-97-8	n-Butane	0.62	1.85	1.13	1.47	4.41	2.70	J
624-64-6	t-2-Butene	0.62	1.85	ND	1.42	4.26	ND	ND
590-18-1	c-2-Butene	0.62	1.85	ND	1.42	4.26	ND	ND
78-78-4	i-Pentane	0.49	1.48	ND	1.46	4.38	ND	ND
109-67-1	1-Pentene	0.49	1.48	ND	1.42	4.25	ND	ND
109-66-0	n-Pentane	0.49	1.48	0.61	1.46	4.38	1.80	J
646-04-8	t-2-Pentene	0.49	1.48	ND	1.42	4.25	ND	ND
627-20-3	c-2-Pentene	0.49	1.48	ND	1.42	4.25	ND	ND
75-83-2	2,2-Dimethylbutane	0.41	1.23	ND	1.45	4.36	ND	ND
142-29-0	Cyclopentene	0.49	1.48	ND	1.38	4.13	ND	ND
287-92-3	Cyclopentane	0.49	1.48	ND	1.42	4.25	ND	ND
79-29-8	2,3-Dimethylbutane	0.41	1.23	ND	1.45	4.36	ND	ND
107-83-5	2-Methylpentane	0.41	1.23	ND	1.45	4.36	ND	ND
96-14-0	3-Methylpentane	0.41	1.23	ND	1.45	4.36	ND	ND
592-41-6	1-Hexene	0.41	1.23	ND	1.42	4.26	ND	ND
110-54-3	n-Hexane	0.41	1.23	ND	1.45	4.36	ND	ND
1120-62-3	3-Methylcyclopentene	0.41	1.23	ND	1.38	4.15	ND	ND
96-37-7	Methylcyclopentane	0.41	1.23	0.47	1.42	4.26	1.62	J
108-08-7	2,4-Dimethylpentane	0.35	1.06	ND	1.45	4.34	ND	ND
71-43-2	Benzene	0.41	1.23	5.01	1.32	3.95	16.02	
110-82-7	Cyclohexane	0.41	1.23	ND	1.42	4.26	ND	ND
591-76-4	2-Methylhexane	0.35	1.06	0.77	1.45	4.34	3.15	J
565-59-3	2,3-Dimethylpentane	0.35	1.06	ND	1.45	4.34	ND	ND
589-34-4	3-Methylhexane	0.35	1.06	ND	1.45	4.34	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.31	0.93	ND	1.44	4.33	ND	ND
142-82-5	n-Heptane	0.35	1.06	ND	1.45	4.34	ND	ND
108-87-2	Methylcyclohexane	0.35	1.06	ND	1.42	4.26	ND	ND
592-13-2	2,5-Dimethylhexane	0.31	0.93	1.59	1.44	4.33	7.46	
589-43-5	2,4-Dimethylhexane	0.31	0.93	ND	1.44	4.33	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.31	0.93	ND	1.44	4.33	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.06	0.48	1.33	3.99	1.82	J
584-94-1	2,3-Dimethylhexane	0.31	0.93	ND	1.44	4.33	ND	ND
592-27-8	2-Methylheptane	0.31	0.93	ND	1.44	4.33	ND	ND
589-53-7	4-Methylheptane	0.31	0.93	ND	1.44	4.33	ND	ND
589-81-1	3-Methylheptane	0.31	0.93	ND	1.44	4.33	ND	ND
111-65-9	n-Octane	0.31	0.93	ND	1.44	4.33	ND	ND
100-41-4	Ethylbenzene	0.31	0.93	ND	1.34	4.03	ND	ND
108-38-3	m,p-xylene	0.31	0.93	ND	1.34	4.03	ND	ND
100-42-5	Styrene	0.31	0.93	ND	1.32	3.95	ND	ND
95-47-6	o-xylene	0.31	0.93	ND	1.34	4.03	ND	ND
111-84-2	n-Nonane	0.27	0.82	ND	1.44	4.33	ND	ND
98-82-8	i-Propylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
103-65-1	n-propylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.82	ND	1.35	4.05	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.82	0.30	1.35	4.05	1.46	J
108-67-8	1,3,5-Trimethylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.82	ND	1.35	4.05	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
124-18-5	n-Decane	0.25	0.74	0.33	1.44	4.32	1.90	J
526-73-8	1,2,3-Trimethylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.74	ND	1.36	4.07	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.74	0.36	1.36	4.07	2.00	J
104-51-8	n-Butylbenzene	0.25	0.74	ND	1.36	4.07	ND	ND
1120-21-4	Undecane	0.22	0.67	ND	1.44	4.31	ND	ND
91-20-3	Naphthalene	0.25	0.74	ND	1.30	3.89	ND	ND
112-40-3	Dodecane	0.21	0.62	ND	1.44	4.31	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.26	27.77	13.72	32.70	98.09	48.47	J
TNMHC - C1	Total Non-Methane Hydrocarbons	55.53	166.60	82.32	36.41	109.24	53.98	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 14

File Name: 2510014A
Description: T-114
Canister: 645
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 13:11
Date Analyzed: 03/27/25 **Time:** 18:30
Can Factor: 1.27
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.27	3.80	ND	1.46	4.38	ND	ND
74-86-2	Acetylene	1.27	3.80	ND	1.35	4.05	ND	ND
74-84-0	Ethane	1.27	3.80	6.67	1.56	4.69	8.23	
115-07-1	Propene	0.84	2.53	ND	1.46	4.37	ND	ND
74-98-6	Propane	0.84	2.53	1.23	1.53	4.58	2.22	J
75-28-5	i-Butane	0.63	1.90	ND	1.51	4.52	ND	ND
106-98-9	1-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
106-97-8	n-Butane	0.63	1.90	ND	1.51	4.52	ND	ND
624-64-6	t-2-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
590-18-1	c-2-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
78-78-4	i-Pentane	0.51	1.52	ND	1.50	4.50	ND	ND
109-67-1	1-Pentene	0.51	1.52	ND	1.46	4.37	ND	ND
109-66-0	n-Pentane	0.51	1.52	0.78	1.50	4.49	2.30	J
646-04-8	t-2-Pentene	0.51	1.52	1.06	1.46	4.37	3.04	J
627-20-3	c-2-Pentene	0.51	1.52	ND	1.46	4.37	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.27	ND	1.49	4.48	ND	ND
142-29-0	Cyclopentene	0.51	1.52	ND	1.41	4.24	ND	ND
287-92-3	Cyclopentane	0.51	1.52	ND	1.46	4.37	ND	ND
79-29-8	2,3-Dimethylbutane	0.42	1.27	ND	1.49	4.48	ND	ND
107-83-5	2-Methylpentane	0.42	1.27	ND	1.49	4.48	ND	ND
96-14-0	3-Methylpentane	0.42	1.27	ND	1.49	4.48	ND	ND
592-41-6	1-Hexene	0.42	1.27	ND	1.46	4.37	ND	ND
110-54-3	n-Hexane	0.42	1.27	ND	1.49	4.48	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.27	ND	1.42	4.26	ND	ND
96-37-7	Methylcyclopentane	0.42	1.27	2.00	1.46	4.37	6.90	
108-08-7	2,4-Dimethylpentane	0.36	1.09	ND	1.49	4.46	ND	ND
71-43-2	Benzene	0.42	1.27	15.46	1.35	4.05	49.48	
110-82-7	Cyclohexane	0.42	1.27	0.44	1.46	4.37	1.52	J
591-76-4	2-Methylhexane	0.36	1.09	ND	1.49	4.46	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.09	ND	1.49	4.46	ND	ND
589-34-4	3-Methylhexane	0.36	1.09	0.47	1.49	4.46	1.95	J
540-84-1	2,2,4-Trimethylpentane	0.32	0.95	ND	1.48	4.45	ND	ND
142-82-5	n-Heptane	0.36	1.09	ND	1.49	4.46	ND	ND
108-87-2	Methylcyclohexane	0.36	1.09	1.42	1.46	4.37	5.71	
592-13-2	2,5-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.95	0.33	1.48	4.45	1.54	J
565-75-3	2,3,4-Trimethylpentane	0.32	0.95	0.58	1.48	4.45	2.74	J

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.09	3.80	1.37	4.10	14.33	
584-94-1	2,3-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
592-27-8	2-Methylheptane	0.32	0.95	0.93	1.48	4.45	4.35	J
589-53-7	4-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
589-81-1	3-Methylheptane	0.32	0.95	1.01	1.48	4.45	4.71	
111-65-9	n-Octane	0.32	0.95	4.40	1.48	4.45	20.60	
100-41-4	Ethylbenzene	0.32	0.95	2.40	1.38	4.14	10.45	
108-38-3	m,p-xylene	0.32	0.95	4.80	1.38	4.14	20.87	
100-42-5	Styrene	0.32	0.95	ND	1.35	4.06	ND	ND
95-47-6	o-xylene	0.32	0.95	2.81	1.38	4.14	12.24	
111-84-2	n-Nonane	0.28	0.84	3.03	1.48	4.44	15.95	
98-82-8	i-Propylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
103-65-1	n-propylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.84	0.89	1.39	4.16	4.41	
611-14-3	2-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
124-18-5	n-Decane	0.25	0.76	ND	1.48	4.43	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
104-51-8	n-Butylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
1120-21-4	Undecane	0.23	0.69	ND	1.48	4.43	ND	ND
91-20-3	Naphthalene	0.25	0.76	ND	1.33	3.99	ND	ND
112-40-3	Dodecane	0.21	0.63	ND	1.47	4.42	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.50	28.50	156.85	33.56	100.69	554.10	
TNMHC - C1	Total Non-Methane Hydrocarbons	57.00	171.01	941.07	37.38	112.14	617.10	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 15

File Name: 2510015A
Description: T-115
Canister: 654
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 12:53
Date Analyzed: 03/27/25 **Time:** 19:20
Can Factor: 1.27
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.27	3.80	ND	1.46	4.37	ND	ND
74-86-2	Acetylene	1.27	3.80	ND	1.35	4.05	ND	ND
74-84-0	Ethane	1.27	3.80	2.26	1.56	4.68	2.78	J
115-07-1	Propene	0.84	2.53	0.96	1.46	4.37	1.65	J
74-98-6	Propane	0.84	2.53	ND	1.53	4.58	ND	ND
75-28-5	i-Butane	0.63	1.90	ND	1.51	4.52	ND	ND
106-98-9	1-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
106-97-8	n-Butane	0.63	1.90	ND	1.51	4.52	ND	ND
624-64-6	t-2-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
590-18-1	c-2-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
78-78-4	i-Pentane	0.51	1.52	ND	1.50	4.49	ND	ND
109-67-1	1-Pentene	0.51	1.52	ND	1.45	4.36	ND	ND
109-66-0	n-Pentane	0.51	1.52	ND	1.50	4.49	ND	ND
646-04-8	t-2-Pentene	0.51	1.52	ND	1.45	4.36	ND	ND
627-20-3	c-2-Pentene	0.51	1.52	ND	1.45	4.36	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.27	ND	1.49	4.47	ND	ND
142-29-0	Cyclopentene	0.51	1.52	ND	1.41	4.24	ND	ND
287-92-3	Cyclopentane	0.51	1.52	ND	1.45	4.36	ND	ND
79-29-8	2,3-Dimethylbutane	0.42	1.27	ND	1.49	4.47	ND	ND
107-83-5	2-Methylpentane	0.42	1.27	ND	1.49	4.47	ND	ND
96-14-0	3-Methylpentane	0.42	1.27	ND	1.49	4.47	ND	ND
592-41-6	1-Hexene	0.42	1.27	ND	1.46	4.37	ND	ND
110-54-3	n-Hexane	0.42	1.27	ND	1.49	4.47	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.27	ND	1.42	4.26	ND	ND
96-37-7	Methylcyclopentane	0.42	1.27	ND	1.46	4.37	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.08	ND	1.49	4.46	ND	ND
71-43-2	Benzene	0.42	1.27	2.71	1.35	4.05	8.67	
110-82-7	Cyclohexane	0.42	1.27	ND	1.46	4.37	ND	ND
591-76-4	2-Methylhexane	0.36	1.08	ND	1.49	4.46	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.08	ND	1.49	4.46	ND	ND
589-34-4	3-Methylhexane	0.36	1.08	ND	1.49	4.46	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.32	0.95	ND	1.48	4.44	ND	ND
142-82-5	n-Heptane	0.36	1.08	ND	1.49	4.46	ND	ND
108-87-2	Methylcyclohexane	0.36	1.08	ND	1.46	4.37	ND	ND
592-13-2	2,5-Dimethylhexane	0.32	0.95	ND	1.48	4.44	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.95	ND	1.48	4.44	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.32	0.95	ND	1.48	4.44	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.08	ND	1.37	4.10	ND	ND
584-94-1	2,3-Dimethylhexane	0.32	0.95	ND	1.48	4.44	ND	ND
592-27-8	2-Methylheptane	0.32	0.95	ND	1.48	4.44	ND	ND
589-53-7	4-Methylheptane	0.32	0.95	ND	1.48	4.44	ND	ND
589-81-1	3-Methylheptane	0.32	0.95	ND	1.48	4.44	ND	ND
111-65-9	n-Octane	0.32	0.95	0.39	1.48	4.44	1.83	J
100-41-4	Ethylbenzene	0.32	0.95	ND	1.38	4.13	ND	ND
108-38-3	m,p-xylene	0.32	0.95	ND	1.38	4.13	ND	ND
100-42-5	Styrene	0.32	0.95	ND	1.35	4.05	ND	ND
95-47-6	o-xylene	0.32	0.95	ND	1.38	4.13	ND	ND
111-84-2	n-Nonane	0.28	0.84	ND	1.48	4.44	ND	ND
98-82-8	i-Propylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
103-65-1	n-propylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
124-18-5	n-Decane	0.25	0.76	ND	1.48	4.43	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
104-51-8	n-Butylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
1120-21-4	Undecane	0.23	0.69	ND	1.47	4.42	ND	ND
91-20-3	Naphthalene	0.25	0.76	ND	1.33	3.99	ND	ND
112-40-3	Dodecane	0.21	0.63	ND	1.47	4.42	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.49	28.48	15.16	33.54	100.62	53.56	J
TNMHC - C1	Total Non-Methane Hydrocarbons	56.96	170.88	90.96	37.35	112.05	59.65	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

SDG: 225100
Analytical Method: TO-14FID
Laboratory Number: 16

File Name: 2510016A
Description: T-116
Canister: 782
QC_Batch: 033125-GCK

Date Sampled: 03/19/25 **Time:** 13:03
Date Analyzed: 03/31/25 **Time:** 15:17
Can Factor: 1.48
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.48	4.44	ND	1.70	5.11	ND	ND
74-86-2	Acetylene	1.48	4.44	ND	1.58	4.73	ND	ND
74-84-0	Ethane	1.48	4.44	4.88	1.82	5.47	6.02	
115-07-1	Propene	0.99	2.96	ND	1.70	5.10	ND	ND
74-98-6	Propane	0.99	2.96	1.18	1.78	5.35	2.13	J
75-28-5	i-Butane	0.74	2.22	ND	1.76	5.28	ND	ND
106-98-9	1-Butene	0.74	2.22	ND	1.70	5.10	ND	ND
106-97-8	n-Butane	0.74	2.22	ND	1.76	5.28	ND	ND
624-64-6	t-2-Butene	0.74	2.22	ND	1.70	5.10	ND	ND
590-18-1	c-2-Butene	0.74	2.22	ND	1.70	5.10	ND	ND
78-78-4	i-Pentane	0.59	1.77	ND	1.75	5.25	ND	ND
109-67-1	1-Pentene	0.59	1.77	ND	1.70	5.10	ND	ND
109-66-0	n-Pentane	0.59	1.77	ND	1.75	5.24	ND	ND
646-04-8	t-2-Pentene	0.59	1.77	ND	1.70	5.10	ND	ND
627-20-3	c-2-Pentene	0.59	1.77	ND	1.70	5.10	ND	ND
75-83-2	2,2-Dimethylbutane	0.49	1.48	ND	1.74	5.23	ND	ND
142-29-0	Cyclopentene	0.59	1.77	ND	1.65	4.95	ND	ND
287-92-3	Cyclopentane	0.59	1.77	ND	1.70	5.10	ND	ND
79-29-8	2,3-Dimethylbutane	0.49	1.48	ND	1.74	5.23	ND	ND
107-83-5	2-Methylpentane	0.49	1.48	ND	1.74	5.23	ND	ND
96-14-0	3-Methylpentane	0.49	1.48	ND	1.74	5.23	ND	ND
592-41-6	1-Hexene	0.49	1.48	ND	1.70	5.10	ND	ND
110-54-3	n-Hexane	0.49	1.48	ND	1.74	5.23	ND	ND
1120-62-3	3-Methylcyclopentene	0.49	1.48	ND	1.66	4.98	ND	ND
96-37-7	Methylcyclopentane	0.49	1.48	ND	1.70	5.10	ND	ND
108-08-7	2,4-Dimethylpentane	0.42	1.27	ND	1.74	5.21	ND	ND
71-43-2	Benzene	0.49	1.48	0.63	1.58	4.73	2.01	J
110-82-7	Cyclohexane	0.49	1.48	ND	1.70	5.10	ND	ND
591-76-4	2-Methylhexane	0.42	1.27	ND	1.74	5.21	ND	ND
565-59-3	2,3-Dimethylpentane	0.42	1.27	ND	1.74	5.21	ND	ND
589-34-4	3-Methylhexane	0.42	1.27	ND	1.74	5.21	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.37	1.11	ND	1.73	5.19	ND	ND
142-82-5	n-Heptane	0.42	1.27	ND	1.74	5.21	ND	ND
108-87-2	Methylcyclohexane	0.42	1.27	ND	1.70	5.10	ND	ND
592-13-2	2,5-Dimethylhexane	0.37	1.11	ND	1.73	5.19	ND	ND
589-43-5	2,4-Dimethylhexane	0.37	1.11	ND	1.73	5.19	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.37	1.11	ND	1.73	5.19	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.42	1.27	ND	1.60	4.79	ND	ND
584-94-1	2,3-Dimethylhexane	0.37	1.11	ND	1.73	5.19	ND	ND
592-27-8	2-Methylheptane	0.37	1.11	ND	1.73	5.19	ND	ND
589-53-7	4-Methylheptane	0.37	1.11	ND	1.73	5.19	ND	ND
589-81-1	3-Methylheptane	0.37	1.11	ND	1.73	5.19	ND	ND
111-65-9	n-Octane	0.37	1.11	ND	1.73	5.19	ND	ND
100-41-4	Ethylbenzene	0.37	1.11	ND	1.61	4.83	ND	ND
108-38-3	m,p-xylene	0.37	1.11	ND	1.61	4.83	ND	ND
100-42-5	Styrene	0.37	1.11	ND	1.58	4.74	ND	ND
95-47-6	o-xylene	0.37	1.11	ND	1.61	4.83	ND	ND
111-84-2	n-Nonane	0.33	0.99	ND	1.73	5.18	ND	ND
98-82-8	i-Propylbenzene	0.33	0.99	ND	1.62	4.86	ND	ND
103-65-1	n-propylbenzene	0.33	0.99	ND	1.62	4.86	ND	ND
620-14-4	3-Ethyltoluene	0.33	0.99	ND	1.62	4.86	ND	ND
622-96-8	4-Ethyltoluene	0.33	0.99	ND	1.62	4.86	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.33	0.99	ND	1.62	4.86	ND	ND
611-14-3	2-Ethyltoluene	0.33	0.99	ND	1.62	4.86	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.33	0.99	ND	1.62	4.86	ND	ND
124-18-5	n-Decane	0.30	0.89	ND	1.73	5.18	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.33	0.99	ND	1.62	4.86	ND	ND
141-93-5	1,3-Diethylbenzene	0.30	0.89	ND	1.63	4.88	ND	ND
105-05-5	1,4-Diethylbenzene	0.30	0.89	ND	1.63	4.88	ND	ND
104-51-8	n-Butylbenzene	0.30	0.89	ND	1.63	4.88	ND	ND
1120-21-4	Undecane	0.27	0.81	ND	1.72	5.17	ND	ND
91-20-3	Naphthalene	0.30	0.89	ND	1.55	4.66	ND	ND
112-40-3	Dodecane	0.25	0.74	ND	1.72	5.16	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	11.09	33.28	11.28	39.19	117.57	39.87	J
TNMHC - C1	Total Non-Methane Hydrocarbons	66.56	199.68	67.71	43.65	130.94	44.40	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 17

File Name: 2510017A
Description: T-117
Canister: 643
QC_Batch: 033125-GCK

Date Sampled: 03/19/25 **Time:** 13:03
Date Analyzed: 03/31/25 **Time:** 16:05
Can Factor: 1.25
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.25	3.74	ND	1.43	4.30	ND	ND
74-86-2	Acetylene	1.25	3.74	ND	1.33	3.98	ND	ND
74-84-0	Ethane	1.25	3.74	2.36	1.54	4.61	2.91	J
115-07-1	Propene	0.83	2.49	ND	1.43	4.30	ND	ND
74-98-6	Propane	0.83	2.49	ND	1.50	4.50	ND	ND
75-28-5	i-Butane	0.62	1.87	ND	1.48	4.45	ND	ND
106-98-9	1-Butene	0.62	1.87	ND	1.43	4.30	ND	ND
106-97-8	n-Butane	0.62	1.87	ND	1.48	4.45	ND	ND
624-64-6	t-2-Butene	0.62	1.87	ND	1.43	4.30	ND	ND
590-18-1	c-2-Butene	0.62	1.87	ND	1.43	4.30	ND	ND
78-78-4	i-Pentane	0.50	1.49	ND	1.47	4.42	ND	ND
109-67-1	1-Pentene	0.50	1.49	ND	1.43	4.29	ND	ND
109-66-0	n-Pentane	0.50	1.49	ND	1.47	4.42	ND	ND
646-04-8	t-2-Pentene	0.50	1.49	ND	1.43	4.29	ND	ND
627-20-3	c-2-Pentene	0.50	1.49	ND	1.43	4.29	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.25	ND	1.47	4.40	ND	ND
142-29-0	Cyclopentene	0.50	1.49	ND	1.39	4.17	ND	ND
287-92-3	Cyclopentane	0.50	1.49	ND	1.43	4.29	ND	ND
79-29-8	2,3-Dimethylbutane	0.42	1.25	ND	1.47	4.40	ND	ND
107-83-5	2-Methylpentane	0.42	1.25	ND	1.47	4.40	ND	ND
96-14-0	3-Methylpentane	0.42	1.25	ND	1.47	4.40	ND	ND
592-41-6	1-Hexene	0.42	1.25	ND	1.43	4.30	ND	ND
110-54-3	n-Hexane	0.42	1.25	ND	1.47	4.40	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.25	ND	1.40	4.19	ND	ND
96-37-7	Methylcyclopentane	0.42	1.25	ND	1.43	4.30	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.07	ND	1.46	4.38	ND	ND
71-43-2	Benzene	0.42	1.25	ND	1.33	3.99	ND	ND
110-82-7	Cyclohexane	0.42	1.25	ND	1.43	4.30	ND	ND
591-76-4	2-Methylhexane	0.36	1.07	ND	1.46	4.38	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.07	ND	1.46	4.38	ND	ND
589-34-4	3-Methylhexane	0.36	1.07	ND	1.46	4.38	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.31	0.93	ND	1.46	4.37	ND	ND
142-82-5	n-Heptane	0.36	1.07	ND	1.46	4.38	ND	ND
108-87-2	Methylcyclohexane	0.36	1.07	ND	1.43	4.30	ND	ND
592-13-2	2,5-Dimethylhexane	0.31	0.93	ND	1.46	4.37	ND	ND
589-43-5	2,4-Dimethylhexane	0.31	0.93	ND	1.46	4.37	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.31	0.93	ND	1.46	4.37	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.07	ND	1.34	4.03	ND	ND
584-94-1	2,3-Dimethylhexane	0.31	0.93	ND	1.46	4.37	ND	ND
592-27-8	2-Methylheptane	0.31	0.93	ND	1.46	4.37	ND	ND
589-53-7	4-Methylheptane	0.31	0.93	ND	1.46	4.37	ND	ND
589-81-1	3-Methylheptane	0.31	0.93	ND	1.46	4.37	ND	ND
111-65-9	n-Octane	0.31	0.93	ND	1.46	4.37	ND	ND
100-41-4	Ethylbenzene	0.31	0.93	ND	1.36	4.07	ND	ND
108-38-3	m,p-xylene	0.31	0.93	ND	1.36	4.07	ND	ND
100-42-5	Styrene	0.31	0.93	ND	1.33	3.99	ND	ND
95-47-6	o-xylene	0.31	0.93	ND	1.36	4.07	ND	ND
111-84-2	n-Nonane	0.28	0.83	ND	1.46	4.37	ND	ND
98-82-8	i-Propylbenzene	0.28	0.83	ND	1.36	4.09	ND	ND
103-65-1	n-propylbenzene	0.28	0.83	ND	1.36	4.09	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.83	ND	1.36	4.09	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.83	ND	1.36	4.09	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.83	ND	1.36	4.09	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.83	ND	1.36	4.09	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.83	ND	1.36	4.09	ND	ND
124-18-5	n-Decane	0.25	0.75	ND	1.45	4.36	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.83	ND	1.36	4.09	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.75	ND	1.37	4.11	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.75	ND	1.37	4.11	ND	ND
104-51-8	n-Butylbenzene	0.25	0.75	ND	1.37	4.11	ND	ND
1120-21-4	Undecane	0.23	0.68	ND	1.45	4.35	ND	ND
91-20-3	Naphthalene	0.25	0.75	ND	1.31	3.93	ND	ND
112-40-3	Dodecane	0.21	0.62	ND	1.45	4.35	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.34	28.02	ND	33.00	99.00	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	56.04	168.13	ND	36.75	110.25	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 18

File Name: 2510018A
Description: T-118
Canister: 553
QC_Batch: 033125-GCK

Date Sampled: 03/19/25 **Time:** 13:25
Date Analyzed: 03/31/25 **Time:** 11:38
Can Factor: 1.14
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.14	3.41	ND	1.31	3.93	ND	ND
74-86-2	Acetylene	1.14	3.41	ND	1.21	3.64	ND	ND
74-84-0	Ethane	1.14	3.41	ND	1.40	4.21	ND	ND
115-07-1	Propene	0.76	2.28	ND	1.31	3.93	ND	ND
74-98-6	Propane	0.76	2.28	ND	1.37	4.11	ND	ND
75-28-5	i-Butane	0.57	1.71	ND	1.35	4.06	ND	ND
106-98-9	1-Butene	0.57	1.71	ND	1.31	3.92	ND	ND
106-97-8	n-Butane	0.57	1.71	ND	1.35	4.06	ND	ND
624-64-6	t-2-Butene	0.57	1.71	ND	1.31	3.92	ND	ND
590-18-1	c-2-Butene	0.57	1.71	ND	1.31	3.92	ND	ND
78-78-4	i-Pentane	0.46	1.37	ND	1.35	4.04	ND	ND
109-67-1	1-Pentene	0.46	1.37	ND	1.31	3.92	ND	ND
109-66-0	n-Pentane	0.46	1.37	ND	1.34	4.03	ND	ND
646-04-8	t-2-Pentene	0.46	1.37	ND	1.31	3.92	ND	ND
627-20-3	c-2-Pentene	0.46	1.37	ND	1.31	3.92	ND	ND
75-83-2	2,2-Dimethylbutane	0.38	1.14	ND	1.34	4.02	ND	ND
142-29-0	Cyclopentene	0.46	1.37	ND	1.27	3.81	ND	ND
287-92-3	Cyclopentane	0.46	1.37	ND	1.31	3.92	ND	ND
79-29-8	2,3-Dimethylbutane	0.38	1.14	ND	1.34	4.02	ND	ND
107-83-5	2-Methylpentane	0.38	1.14	ND	1.34	4.02	ND	ND
96-14-0	3-Methylpentane	0.38	1.14	ND	1.34	4.02	ND	ND
592-41-6	1-Hexene	0.38	1.14	ND	1.31	3.93	ND	ND
110-54-3	n-Hexane	0.38	1.14	ND	1.34	4.02	ND	ND
1120-62-3	3-Methylcyclopentene	0.38	1.14	ND	1.28	3.83	ND	ND
96-37-7	Methylcyclopentane	0.38	1.14	ND	1.31	3.93	ND	ND
108-08-7	2,4-Dimethylpentane	0.33	0.98	ND	1.34	4.01	ND	ND
71-43-2	Benzene	0.38	1.14	ND	1.21	3.64	ND	ND
110-82-7	Cyclohexane	0.38	1.14	ND	1.31	3.93	ND	ND
591-76-4	2-Methylhexane	0.33	0.98	ND	1.34	4.01	ND	ND
565-59-3	2,3-Dimethylpentane	0.33	0.98	ND	1.34	4.01	ND	ND
589-34-4	3-Methylhexane	0.33	0.98	ND	1.34	4.01	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.28	0.85	ND	1.33	3.99	ND	ND
142-82-5	n-Heptane	0.33	0.98	ND	1.34	4.01	ND	ND
108-87-2	Methylcyclohexane	0.33	0.98	ND	1.31	3.93	ND	ND
592-13-2	2,5-Dimethylhexane	0.28	0.85	ND	1.33	3.99	ND	ND
589-43-5	2,4-Dimethylhexane	0.28	0.85	ND	1.33	3.99	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.28	0.85	ND	1.33	3.99	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.33	0.98	ND	1.23	3.68	ND	ND
584-94-1	2,3-Dimethylhexane	0.28	0.85	ND	1.33	3.99	ND	ND
592-27-8	2-Methylheptane	0.28	0.85	ND	1.33	3.99	ND	ND
589-53-7	4-Methylheptane	0.28	0.85	ND	1.33	3.99	ND	ND
589-81-1	3-Methylheptane	0.28	0.85	ND	1.33	3.99	ND	ND
111-65-9	n-Octane	0.28	0.85	ND	1.33	3.99	ND	ND
100-41-4	Ethylbenzene	0.28	0.85	ND	1.24	3.71	ND	ND
108-38-3	m,p-xylene	0.28	0.85	ND	1.24	3.71	ND	ND
100-42-5	Styrene	0.28	0.85	ND	1.21	3.64	ND	ND
95-47-6	o-xylene	0.28	0.85	ND	1.24	3.71	ND	ND
111-84-2	n-Nonane	0.25	0.76	ND	1.33	3.99	ND	ND
98-82-8	i-Propylbenzene	0.25	0.76	ND	1.25	3.74	ND	ND
103-65-1	n-propylbenzene	0.25	0.76	ND	1.25	3.74	ND	ND
620-14-4	3-Ethyltoluene	0.25	0.76	ND	1.25	3.74	ND	ND
622-96-8	4-Ethyltoluene	0.25	0.76	ND	1.25	3.74	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.25	0.76	ND	1.25	3.74	ND	ND
611-14-3	2-Ethyltoluene	0.25	0.76	ND	1.25	3.74	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.25	0.76	ND	1.25	3.74	ND	ND
124-18-5	n-Decane	0.23	0.68	ND	1.33	3.98	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.25	0.76	ND	1.25	3.74	ND	ND
141-93-5	1,3-Diethylbenzene	0.23	0.68	ND	1.25	3.76	ND	ND
105-05-5	1,4-Diethylbenzene	0.23	0.68	ND	1.25	3.76	ND	ND
104-51-8	n-Butylbenzene	0.23	0.68	ND	1.25	3.76	ND	ND
1120-21-4	Undecane	0.21	0.62	ND	1.33	3.98	ND	ND
91-20-3	Naphthalene	0.23	0.68	ND	1.20	3.59	ND	ND
112-40-3	Dodecane	0.19	0.57	ND	1.32	3.97	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	8.53	25.60	ND	30.15	90.45	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	51.21	153.62	ND	33.58	100.73	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 19

File Name: 2510019A
Description: T-201
Canister: 726
QC_Batch: 033125-GCK

Date Sampled: 03/20/25 **Time:** 8:23
Date Analyzed: 03/31/25 **Time:** 16:51
Can Factor: 1.21
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.21	3.64	ND	1.40	4.19	ND	ND
74-86-2	Acetylene	1.21	3.64	ND	1.29	3.88	ND	ND
74-84-0	Ethane	1.21	3.64	6.57	1.50	4.49	8.10	
115-07-1	Propene	0.81	2.43	ND	1.39	4.18	ND	ND
74-98-6	Propane	0.81	2.43	4.25	1.46	4.38	7.69	
75-28-5	i-Butane	0.61	1.82	ND	1.44	4.33	ND	ND
106-98-9	1-Butene	0.61	1.82	ND	1.39	4.18	ND	ND
106-97-8	n-Butane	0.61	1.82	ND	1.44	4.33	ND	ND
624-64-6	t-2-Butene	0.61	1.82	ND	1.39	4.18	ND	ND
590-18-1	c-2-Butene	0.61	1.82	ND	1.39	4.18	ND	ND
78-78-4	i-Pentane	0.49	1.46	0.85	1.44	4.31	2.50	J
109-67-1	1-Pentene	0.49	1.46	1.34	1.39	4.18	3.86	J
109-66-0	n-Pentane	0.49	1.46	0.59	1.43	4.30	1.73	J
646-04-8	t-2-Pentene	0.49	1.46	ND	1.39	4.18	ND	ND
627-20-3	c-2-Pentene	0.49	1.46	ND	1.39	4.18	ND	ND
75-83-2	2,2-Dimethylbutane	0.40	1.21	ND	1.43	4.28	ND	ND
142-29-0	Cyclopentene	0.49	1.46	ND	1.35	4.06	ND	ND
287-92-3	Cyclopentane	0.49	1.46	ND	1.39	4.18	ND	ND
79-29-8	2,3-Dimethylbutane	0.40	1.21	ND	1.43	4.28	ND	ND
107-83-5	2-Methylpentane	0.40	1.21	ND	1.43	4.28	ND	ND
96-14-0	3-Methylpentane	0.40	1.21	ND	1.43	4.28	ND	ND
592-41-6	1-Hexene	0.40	1.21	ND	1.39	4.18	ND	ND
110-54-3	n-Hexane	0.40	1.21	ND	1.43	4.28	ND	ND
1120-62-3	3-Methylcyclopentene	0.40	1.21	ND	1.36	4.08	ND	ND
96-37-7	Methylcyclopentane	0.40	1.21	ND	1.39	4.18	ND	ND
108-08-7	2,4-Dimethylpentane	0.35	1.04	ND	1.42	4.27	ND	ND
71-43-2	Benzene	0.40	1.21	0.68	1.29	3.88	2.16	J
110-82-7	Cyclohexane	0.40	1.21	ND	1.39	4.18	ND	ND
591-76-4	2-Methylhexane	0.35	1.04	ND	1.42	4.27	ND	ND
565-59-3	2,3-Dimethylpentane	0.35	1.04	ND	1.42	4.27	ND	ND
589-34-4	3-Methylhexane	0.35	1.04	ND	1.42	4.27	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.91	ND	1.42	4.26	ND	ND
142-82-5	n-Heptane	0.35	1.04	ND	1.42	4.27	ND	ND
108-87-2	Methylcyclohexane	0.35	1.04	ND	1.39	4.18	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.91	ND	1.42	4.26	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.91	ND	1.42	4.26	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.91	ND	1.42	4.26	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.04	ND	1.31	3.92	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.91	ND	1.42	4.26	ND	ND
592-27-8	2-Methylheptane	0.30	0.91	ND	1.42	4.26	ND	ND
589-53-7	4-Methylheptane	0.30	0.91	ND	1.42	4.26	ND	ND
589-81-1	3-Methylheptane	0.30	0.91	ND	1.42	4.26	ND	ND
111-65-9	n-Octane	0.30	0.91	ND	1.42	4.26	ND	ND
100-41-4	Ethylbenzene	0.30	0.91	ND	1.32	3.96	ND	ND
108-38-3	m,p-xylene	0.30	0.91	ND	1.32	3.96	ND	ND
100-42-5	Styrene	0.30	0.91	ND	1.29	3.88	ND	ND
95-47-6	o-xylene	0.30	0.91	ND	1.32	3.96	ND	ND
111-84-2	n-Nonane	0.27	0.81	ND	1.42	4.25	ND	ND
98-82-8	i-Propylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
103-65-1	n-propylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.81	ND	1.33	3.98	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.81	ND	1.33	3.98	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.81	ND	1.33	3.98	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
124-18-5	n-Decane	0.24	0.73	ND	1.41	4.24	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.73	ND	1.33	4.00	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.73	ND	1.33	4.00	ND	ND
104-51-8	n-Butylbenzene	0.24	0.73	ND	1.33	4.00	ND	ND
1120-21-4	Undecane	0.22	0.66	ND	1.41	4.24	ND	ND
91-20-3	Naphthalene	0.24	0.73	ND	1.27	3.82	ND	ND
112-40-3	Dodecane	0.20	0.61	ND	1.41	4.23	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.10	27.29	18.43	32.13	96.40	65.10	J
TNMHC - C1	Total Non-Methane Hydrocarbons	54.57	163.72	110.56	35.79	107.36	72.50	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 20

File Name: 2510020A
Description: T-202
Canister: 883
QC_Batch: 033125-GCK

Date Sampled: 03/20/25 **Time:** 8:38
Date Analyzed: 03/31/25 **Time:** 17:38
Can Factor: 1.18
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.18	3.54	1.47	1.36	4.08	1.69	J
74-86-2	Acetylene	1.18	3.54	ND	1.26	3.78	ND	ND
74-84-0	Ethane	1.18	3.54	8.77	1.46	4.37	10.81	
115-07-1	Propene	0.79	2.36	1.91	1.36	4.08	3.29	J
74-98-6	Propane	0.79	2.36	8.21	1.42	4.27	14.85	
75-28-5	i-Butane	0.59	1.77	ND	1.41	4.22	ND	ND
106-98-9	1-Butene	0.59	1.77	ND	1.36	4.07	ND	ND
106-97-8	n-Butane	0.59	1.77	3.60	1.41	4.22	8.57	
624-64-6	t-2-Butene	0.59	1.77	ND	1.36	4.07	ND	ND
590-18-1	c-2-Butene	0.59	1.77	ND	1.36	4.07	ND	ND
78-78-4	i-Pentane	0.47	1.42	0.72	1.40	4.19	2.13	J
109-67-1	1-Pentene	0.47	1.42	ND	1.36	4.07	ND	ND
109-66-0	n-Pentane	0.47	1.42	0.63	1.40	4.19	1.85	J
646-04-8	t-2-Pentene	0.47	1.42	ND	1.36	4.07	ND	ND
627-20-3	c-2-Pentene	0.47	1.42	ND	1.36	4.07	ND	ND
75-83-2	2,2-Dimethylbutane	0.39	1.18	ND	1.39	4.17	ND	ND
142-29-0	Cyclopentene	0.47	1.42	ND	1.32	3.96	ND	ND
287-92-3	Cyclopentane	0.47	1.42	ND	1.36	4.07	ND	ND
79-29-8	2,3-Dimethylbutane	0.39	1.18	ND	1.39	4.17	ND	ND
107-83-5	2-Methylpentane	0.39	1.18	ND	1.39	4.17	ND	ND
96-14-0	3-Methylpentane	0.39	1.18	ND	1.39	4.17	ND	ND
592-41-6	1-Hexene	0.39	1.18	ND	1.36	4.08	ND	ND
110-54-3	n-Hexane	0.39	1.18	ND	1.39	4.17	ND	ND
1120-62-3	3-Methylcyclopentene	0.39	1.18	ND	1.32	3.97	ND	ND
96-37-7	Methylcyclopentane	0.39	1.18	ND	1.36	4.08	ND	ND
108-08-7	2,4-Dimethylpentane	0.34	1.01	ND	1.39	4.16	ND	ND
71-43-2	Benzene	0.39	1.18	0.48	1.26	3.78	1.54	J
110-82-7	Cyclohexane	0.39	1.18	ND	1.36	4.08	ND	ND
591-76-4	2-Methylhexane	0.34	1.01	ND	1.39	4.16	ND	ND
565-59-3	2,3-Dimethylpentane	0.34	1.01	ND	1.39	4.16	ND	ND
589-34-4	3-Methylhexane	0.34	1.01	ND	1.39	4.16	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.89	ND	1.38	4.15	ND	ND
142-82-5	n-Heptane	0.34	1.01	ND	1.39	4.16	ND	ND
108-87-2	Methylcyclohexane	0.34	1.01	ND	1.36	4.08	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.89	ND	1.38	4.15	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.89	ND	1.38	4.15	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.89	ND	1.38	4.15	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.34	1.01	ND	1.27	3.82	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.89	ND	1.38	4.15	ND	ND
592-27-8	2-Methylheptane	0.30	0.89	ND	1.38	4.15	ND	ND
589-53-7	4-Methylheptane	0.30	0.89	ND	1.38	4.15	ND	ND
589-81-1	3-Methylheptane	0.30	0.89	ND	1.38	4.15	ND	ND
111-65-9	n-Octane	0.30	0.89	ND	1.38	4.15	ND	ND
100-41-4	Ethylbenzene	0.30	0.89	ND	1.29	3.86	ND	ND
108-38-3	m,p-xylene	0.30	0.89	ND	1.29	3.86	ND	ND
100-42-5	Styrene	0.30	0.89	ND	1.26	3.78	ND	ND
95-47-6	o-xylene	0.30	0.89	ND	1.29	3.86	ND	ND
111-84-2	n-Nonane	0.26	0.79	ND	1.38	4.14	ND	ND
98-82-8	i-Propylbenzene	0.26	0.79	ND	1.29	3.88	ND	ND
103-65-1	n-propylbenzene	0.26	0.79	ND	1.29	3.88	ND	ND
620-14-4	3-Ethyltoluene	0.26	0.79	ND	1.29	3.88	ND	ND
622-96-8	4-Ethyltoluene	0.26	0.79	ND	1.29	3.88	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.26	0.79	ND	1.29	3.88	ND	ND
611-14-3	2-Ethyltoluene	0.26	0.79	ND	1.29	3.88	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.26	0.79	ND	1.29	3.88	ND	ND
124-18-5	n-Decane	0.24	0.71	ND	1.38	4.13	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.26	0.79	ND	1.29	3.88	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.71	ND	1.30	3.90	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.71	ND	1.30	3.90	ND	ND
104-51-8	n-Butylbenzene	0.24	0.71	ND	1.30	3.90	ND	ND
1120-21-4	Undecane	0.21	0.64	ND	1.38	4.13	ND	ND
91-20-3	Naphthalene	0.24	0.71	ND	1.24	3.72	ND	ND
112-40-3	Dodecane	0.20	0.59	ND	1.37	4.12	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	8.86	26.58	22.35	31.30	93.90	78.95	J
TNMHC - C1	Total Non-Methane Hydrocarbons	53.16	159.48	134.08	34.86	104.58	87.92	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 21

File Name: 2510021A
Description: T-203
Canister: 858
QC_Batch: 033125-GCK

Date Sampled: 03/20/25 **Time:** 8:33
Date Analyzed: 03/31/25 **Time:** 18:22
Can Factor: 1.20
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.20	3.59	37.79	1.38	4.13	43.52	
74-86-2	Acetylene	1.20	3.59	52.93	1.27	3.82	56.41	
74-84-0	Ethane	1.20	3.59	70.78	1.48	4.43	87.31	
115-07-1	Propene	0.80	2.39	148.06	1.38	4.13	255.47	
74-98-6	Propane	0.80	2.39	187.26	1.44	4.32	338.45	
75-28-5	i-Butane	0.60	1.79	ND	1.42	4.27	ND	ND
106-98-9	1-Butene	0.60	1.79	ND	1.37	4.12	ND	ND
106-97-8	n-Butane	0.60	1.79	131.44	1.42	4.27	312.97	
624-64-6	t-2-Butene	0.60	1.79	1.16	1.37	4.12	2.67	J
590-18-1	c-2-Butene	0.60	1.79	ND	1.37	4.12	ND	ND
78-78-4	i-Pentane	0.48	1.44	5.81	1.42	4.25	17.20	
109-67-1	1-Pentene	0.48	1.44	5.71	1.37	4.12	16.41	
109-66-0	n-Pentane	0.48	1.44	5.33	1.41	4.24	15.75	
646-04-8	t-2-Pentene	0.48	1.44	2.83	1.37	4.12	8.12	
627-20-3	c-2-Pentene	0.48	1.44	0.94	1.37	4.12	2.71	J
75-83-2	2,2-Dimethylbutane	0.40	1.20	0.71	1.41	4.22	2.50	J
142-29-0	Cyclopentene	0.48	1.44	ND	1.34	4.01	ND	ND
287-92-3	Cyclopentane	0.48	1.44	1.38	1.37	4.12	3.95	J
79-29-8	2,3-Dimethylbutane	0.40	1.20	ND	1.41	4.22	ND	ND
107-83-5	2-Methylpentane	0.40	1.20	1.67	1.41	4.22	5.89	
96-14-0	3-Methylpentane	0.40	1.20	1.09	1.41	4.22	3.86	J
592-41-6	1-Hexene	0.40	1.20	ND	1.38	4.13	ND	ND
110-54-3	n-Hexane	0.40	1.20	2.22	1.41	4.22	7.85	
1120-62-3	3-Methylcyclopentene	0.40	1.20	1.11	1.34	4.02	3.73	J
96-37-7	Methylcyclopentane	0.40	1.20	0.40	1.38	4.13	1.38	J
108-08-7	2,4-Dimethylpentane	0.34	1.03	1.14	1.40	4.21	4.66	
71-43-2	Benzene	0.40	1.20	6.77	1.28	3.83	21.68	
110-82-7	Cyclohexane	0.40	1.20	ND	1.38	4.13	ND	ND
591-76-4	2-Methylhexane	0.34	1.03	1.19	1.40	4.21	4.87	
565-59-3	2,3-Dimethylpentane	0.34	1.03	0.82	1.40	4.21	3.37	J
589-34-4	3-Methylhexane	0.34	1.03	1.92	1.40	4.21	7.90	
540-84-1	2,2,4-Trimethylpentane	0.30	0.90	1.45	1.40	4.20	6.80	
142-82-5	n-Heptane	0.34	1.03	1.99	1.40	4.21	8.18	
108-87-2	Methylcyclohexane	0.34	1.03	2.80	1.38	4.13	11.27	
592-13-2	2,5-Dimethylhexane	0.30	0.90	ND	1.40	4.20	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.90	0.90	1.40	4.20	4.22	
565-75-3	2,3,4-Trimethylpentane	0.30	0.90	0.68	1.40	4.20	3.19	J

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.34	1.03	31.84	1.29	3.87	120.18	
584-94-1	2,3-Dimethylhexane	0.30	0.90	ND	1.40	4.20	ND	ND
592-27-8	2-Methylheptane	0.30	0.90	1.56	1.40	4.20	7.31	
589-53-7	4-Methylheptane	0.30	0.90	2.53	1.40	4.20	11.84	
589-81-1	3-Methylheptane	0.30	0.90	1.67	1.40	4.20	7.82	
111-65-9	n-Octane	0.30	0.90	3.30	1.40	4.20	15.47	
100-41-4	Ethylbenzene	0.30	0.90	11.18	1.30	3.90	48.66	
108-38-3	m,p-xylene	0.30	0.90	40.52	1.30	3.90	176.36	
100-42-5	Styrene	0.30	0.90	ND	1.28	3.83	ND	ND
95-47-6	o-xylene	0.30	0.90	22.50	1.30	3.90	97.91	
111-84-2	n-Nonane	0.27	0.80	12.42	1.40	4.19	65.28	
98-82-8	i-Propylbenzene	0.27	0.80	3.68	1.31	3.93	18.11	
103-65-1	n-propylbenzene	0.27	0.80	ND	1.31	3.93	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.80	ND	1.31	3.93	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.80	3.24	1.31	3.93	15.98	
108-67-8	1,3,5-Trimethylbenzene	0.27	0.80	ND	1.31	3.93	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.80	ND	1.31	3.93	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.80	ND	1.31	3.93	ND	ND
124-18-5	n-Decane	0.24	0.72	7.90	1.39	4.18	46.05	
526-73-8	1,2,3-Trimethylbenzene	0.27	0.80	ND	1.31	3.93	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.72	ND	1.32	3.95	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.72	ND	1.32	3.95	ND	ND
104-51-8	n-Butylbenzene	0.24	0.72	ND	1.32	3.95	ND	ND
1120-21-4	Undecane	0.22	0.65	ND	1.39	4.18	ND	ND
91-20-3	Naphthalene	0.24	0.72	ND	1.26	3.77	ND	ND
112-40-3	Dodecane	0.20	0.60	ND	1.39	4.17	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	8.97	26.91	1,330.95	31.69	95.06	4,701.97	
TNMHC - C1	Total Non-Methane Hydrocarbons	53.82	161.45	7,985.72	35.29	105.87	5,236.54	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

SDG: 225100
Analytical Method: TO-14FID
Laboratory Number: 22

File Name: 2510022A
Description: T-204
Canister: 758
QC_Batch: 040225-GCK

Date Sampled: 03/20/25 **Time:** 8:29
Date Analyzed: 04/02/25 **Time:** 20:49
Can Factor: 1.18
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.18	3.53	1.80	1.35	4.06	2.07	J
74-86-2	Acetylene	1.18	3.53	ND	1.25	3.76	ND	ND
74-84-0	Ethane	1.18	3.53	38.72	1.45	4.35	47.77	
115-07-1	Propene	0.78	2.35	39.02	1.35	4.06	67.33	
74-98-6	Propane	0.78	2.35	39.40	1.42	4.25	71.21	
75-28-5	i-Butane	0.59	1.76	ND	1.40	4.20	ND	ND
106-98-9	1-Butene	0.59	1.76	ND	1.35	4.06	ND	ND
106-97-8	n-Butane	0.59	1.76	33.39	1.40	4.20	79.51	
624-64-6	t-2-Butene	0.59	1.76	ND	1.35	4.06	ND	ND
590-18-1	c-2-Butene	0.59	1.76	ND	1.35	4.06	ND	ND
78-78-4	i-Pentane	0.47	1.41	1.38	1.39	4.18	4.08	J
109-67-1	1-Pentene	0.47	1.41	0.81	1.35	4.06	2.33	J
109-66-0	n-Pentane	0.47	1.41	0.82	1.39	4.17	2.43	J
646-04-8	t-2-Pentene	0.47	1.41	1.00	1.35	4.06	2.87	J
627-20-3	c-2-Pentene	0.47	1.41	ND	1.35	4.06	ND	ND
75-83-2	2,2-Dimethylbutane	0.39	1.18	1.28	1.39	4.16	4.52	
142-29-0	Cyclopentene	0.47	1.41	ND	1.31	3.94	ND	ND
287-92-3	Cyclopentane	0.47	1.41	2.59	1.35	4.06	7.43	
79-29-8	2,3-Dimethylbutane	0.39	1.18	1.44	1.39	4.16	5.09	
107-83-5	2-Methylpentane	0.39	1.18	1.50	1.39	4.16	5.28	
96-14-0	3-Methylpentane	0.39	1.18	0.85	1.39	4.16	3.01	J
592-41-6	1-Hexene	0.39	1.18	ND	1.35	4.06	ND	ND
110-54-3	n-Hexane	0.39	1.18	0.83	1.39	4.16	2.94	J
1120-62-3	3-Methylcyclopentene	0.39	1.18	ND	1.32	3.96	ND	ND
96-37-7	Methylcyclopentane	0.39	1.18	ND	1.35	4.06	ND	ND
108-08-7	2,4-Dimethylpentane	0.34	1.01	0.59	1.38	4.14	2.43	J
71-43-2	Benzene	0.39	1.18	ND	1.26	3.77	ND	ND
110-82-7	Cyclohexane	0.39	1.18	0.41	1.35	4.06	1.43	J
591-76-4	2-Methylhexane	0.34	1.01	2.31	1.38	4.14	9.50	
565-59-3	2,3-Dimethylpentane	0.34	1.01	0.54	1.38	4.14	2.21	J
589-34-4	3-Methylhexane	0.34	1.01	0.71	1.38	4.14	2.90	J
540-84-1	2,2,4-Trimethylpentane	0.29	0.88	0.58	1.38	4.13	2.71	J
142-82-5	n-Heptane	0.34	1.01	ND	1.38	4.14	ND	ND
108-87-2	Methylcyclohexane	0.34	1.01	0.81	1.35	4.06	3.28	J
592-13-2	2,5-Dimethylhexane	0.29	0.88	ND	1.38	4.13	ND	ND
589-43-5	2,4-Dimethylhexane	0.29	0.88	ND	1.38	4.13	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.29	0.88	0.49	1.38	4.13	2.31	J

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.34	1.01	ND	1.27	3.81	ND	ND
584-94-1	2,3-Dimethylhexane	0.29	0.88	ND	1.38	4.13	ND	ND
592-27-8	2-Methylheptane	0.29	0.88	ND	1.38	4.13	ND	ND
589-53-7	4-Methylheptane	0.29	0.88	ND	1.38	4.13	ND	ND
589-81-1	3-Methylheptane	0.29	0.88	ND	1.38	4.13	ND	ND
111-65-9	n-Octane	0.29	0.88	ND	1.38	4.13	ND	ND
100-41-4	Ethylbenzene	0.29	0.88	ND	1.28	3.84	ND	ND
108-38-3	m,p-xylene	0.29	0.88	0.42	1.28	3.84	1.83	J
100-42-5	Styrene	0.29	0.88	ND	1.26	3.77	ND	ND
95-47-6	o-xylene	0.29	0.88	ND	1.28	3.84	ND	ND
111-84-2	n-Nonane	0.26	0.78	0.39	1.37	4.12	2.07	J
98-82-8	i-Propylbenzene	0.26	0.78	ND	1.29	3.86	ND	ND
103-65-1	n-propylbenzene	0.26	0.78	ND	1.29	3.86	ND	ND
620-14-4	3-Ethyltoluene	0.26	0.78	ND	1.29	3.86	ND	ND
622-96-8	4-Ethyltoluene	0.26	0.78	ND	1.29	3.86	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.26	0.78	ND	1.29	3.86	ND	ND
611-14-3	2-Ethyltoluene	0.26	0.78	ND	1.29	3.86	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.26	0.78	ND	1.29	3.86	ND	ND
124-18-5	n-Decane	0.24	0.71	ND	1.37	4.12	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.26	0.78	ND	1.29	3.86	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.71	ND	1.29	3.88	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.71	ND	1.29	3.88	ND	ND
104-51-8	n-Butylbenzene	0.24	0.71	ND	1.29	3.88	ND	ND
1120-21-4	Undecane	0.21	0.64	ND	1.37	4.11	ND	ND
91-20-3	Naphthalene	0.24	0.71	ND	1.24	3.71	ND	ND
112-40-3	Dodecane	0.20	0.59	ND	1.37	4.11	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	8.82	26.47	151.42	31.17	93.50	534.93	
TNMHC - C1	Total Non-Methane Hydrocarbons	52.93	158.80	908.50	34.71	104.13	595.74	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 23

File Name: 2510023A
Description: T-205
Canister: 659
QC_Batch: 033125-GCK

Date Sampled: 03/20/25 **Time:** 10:00
Date Analyzed: 03/31/25 **Time:** 19:51
Can Factor: 1.27
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.27	3.80	1.73	1.46	4.38	2.00	J
74-86-2	Acetylene	1.27	3.80	ND	1.35	4.05	ND	ND
74-84-0	Ethane	1.27	3.80	6.17	1.56	4.69	7.61	
115-07-1	Propene	0.84	2.53	0.95	1.46	4.37	1.64	J
74-98-6	Propane	0.84	2.53	3.43	1.53	4.58	6.21	
75-28-5	i-Butane	0.63	1.90	ND	1.51	4.53	ND	ND
106-98-9	1-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
106-97-8	n-Butane	0.63	1.90	ND	1.51	4.53	ND	ND
624-64-6	t-2-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
590-18-1	c-2-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
78-78-4	i-Pentane	0.51	1.52	2.79	1.50	4.50	8.25	
109-67-1	1-Pentene	0.51	1.52	0.51	1.46	4.37	1.47	J
109-66-0	n-Pentane	0.51	1.52	ND	1.50	4.49	ND	ND
646-04-8	t-2-Pentene	0.51	1.52	ND	1.46	4.37	ND	ND
627-20-3	c-2-Pentene	0.51	1.52	ND	1.46	4.37	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.27	0.71	1.49	4.48	2.51	J
142-29-0	Cyclopentene	0.51	1.52	ND	1.41	4.24	ND	ND
287-92-3	Cyclopentane	0.51	1.52	0.57	1.46	4.37	1.63	J
79-29-8	2,3-Dimethylbutane	0.42	1.27	ND	1.49	4.48	ND	ND
107-83-5	2-Methylpentane	0.42	1.27	ND	1.49	4.48	ND	ND
96-14-0	3-Methylpentane	0.42	1.27	ND	1.49	4.48	ND	ND
592-41-6	1-Hexene	0.42	1.27	ND	1.46	4.37	ND	ND
110-54-3	n-Hexane	0.42	1.27	ND	1.49	4.48	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.27	ND	1.42	4.26	ND	ND
96-37-7	Methylcyclopentane	0.42	1.27	ND	1.46	4.37	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.09	ND	1.49	4.46	ND	ND
71-43-2	Benzene	0.42	1.27	ND	1.35	4.06	ND	ND
110-82-7	Cyclohexane	0.42	1.27	ND	1.46	4.37	ND	ND
591-76-4	2-Methylhexane	0.36	1.09	ND	1.49	4.46	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.09	ND	1.49	4.46	ND	ND
589-34-4	3-Methylhexane	0.36	1.09	ND	1.49	4.46	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.32	0.95	0.39	1.48	4.45	1.82	J
142-82-5	n-Heptane	0.36	1.09	ND	1.49	4.46	ND	ND
108-87-2	Methylcyclohexane	0.36	1.09	ND	1.46	4.37	ND	ND
592-13-2	2,5-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.32	0.95	0.48	1.48	4.45	2.23	J

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.09	0.91	1.37	4.10	3.43	J
584-94-1	2,3-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
592-27-8	2-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
589-53-7	4-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
589-81-1	3-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
111-65-9	n-Octane	0.32	0.95	ND	1.48	4.45	ND	ND
100-41-4	Ethylbenzene	0.32	0.95	ND	1.38	4.14	ND	ND
108-38-3	m,p-xylene	0.32	0.95	ND	1.38	4.14	ND	ND
100-42-5	Styrene	0.32	0.95	ND	1.35	4.06	ND	ND
95-47-6	o-xylene	0.32	0.95	ND	1.38	4.14	ND	ND
111-84-2	n-Nonane	0.28	0.84	ND	1.48	4.44	ND	ND
98-82-8	i-Propylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
103-65-1	n-propylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
124-18-5	n-Decane	0.25	0.76	ND	1.48	4.43	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
104-51-8	n-Butylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
1120-21-4	Undecane	0.23	0.69	ND	1.48	4.43	ND	ND
91-20-3	Naphthalene	0.25	0.76	ND	1.33	3.99	ND	ND
112-40-3	Dodecane	0.21	0.63	ND	1.47	4.42	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.50	28.51	39.76	33.57	100.71	140.46	
TNMHC - C1	Total Non-Methane Hydrocarbons	57.01	171.04	238.56	37.39	112.16	156.43	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 24

File Name: 2510024A
Description: T-206
Canister: 882
QC_Batch: 033125-GCK

Date Sampled: 03/20/25 **Time:** 9:55
Date Analyzed: 03/31/25 **Time:** 20:37
Can Factor: 1.24
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.24	3.73	16.55	1.43	4.30	19.06	
74-86-2	Acetylene	1.24	3.73	ND	1.33	3.98	ND	ND
74-84-0	Ethane	1.24	3.73	25.84	1.53	4.60	31.87	
115-07-1	Propene	0.83	2.49	56.24	1.43	4.29	97.03	
74-98-6	Propane	0.83	2.49	357.67	1.50	4.50	646.45	
75-28-5	i-Butane	0.62	1.87	ND	1.48	4.44	ND	ND
106-98-9	1-Butene	0.62	1.87	1.12	1.43	4.29	2.57	J
106-97-8	n-Butane	0.62	1.87	270.59	1.48	4.44	644.32	
624-64-6	t-2-Butene	0.62	1.87	2.50	1.43	4.29	5.76	
590-18-1	c-2-Butene	0.62	1.87	ND	1.43	4.29	ND	ND
78-78-4	i-Pentane	0.50	1.49	396.04	1.47	4.42	1,171.90	
109-67-1	1-Pentene	0.50	1.49	ND	1.43	4.29	ND	ND
109-66-0	n-Pentane	0.50	1.49	88.32	1.47	4.41	260.98	
646-04-8	t-2-Pentene	0.50	1.49	7.68	1.43	4.29	22.07	
627-20-3	c-2-Pentene	0.50	1.49	1.83	1.43	4.29	5.25	
75-83-2	2,2-Dimethylbutane	0.41	1.24	21.34	1.46	4.39	75.39	
142-29-0	Cyclopentene	0.50	1.49	ND	1.39	4.17	ND	ND
287-92-3	Cyclopentane	0.50	1.49	152.11	1.43	4.29	436.99	
79-29-8	2,3-Dimethylbutane	0.41	1.24	ND	1.46	4.39	ND	ND
107-83-5	2-Methylpentane	0.41	1.24	21.47	1.46	4.39	75.85	
96-14-0	3-Methylpentane	0.41	1.24	15.27	1.46	4.39	53.94	
592-41-6	1-Hexene	0.41	1.24	ND	1.43	4.29	ND	ND
110-54-3	n-Hexane	0.41	1.24	8.34	1.46	4.39	29.45	
1120-62-3	3-Methylcyclopentene	0.41	1.24	2.85	1.39	4.18	9.57	
96-37-7	Methylcyclopentane	0.41	1.24	2.13	1.43	4.29	7.36	
108-08-7	2,4-Dimethylpentane	0.36	1.07	14.12	1.46	4.38	58.00	
71-43-2	Benzene	0.41	1.24	1.92	1.33	3.98	6.15	
110-82-7	Cyclohexane	0.41	1.24	24.48	1.43	4.29	84.47	
591-76-4	2-Methylhexane	0.36	1.07	11.24	1.46	4.38	46.17	
565-59-3	2,3-Dimethylpentane	0.36	1.07	13.55	1.46	4.38	55.64	
589-34-4	3-Methylhexane	0.36	1.07	19.51	1.46	4.38	80.11	
540-84-1	2,2,4-Trimethylpentane	0.31	0.93	24.03	1.46	4.37	112.46	
142-82-5	n-Heptane	0.36	1.07	0.90	1.46	4.38	3.71	J
108-87-2	Methylcyclohexane	0.36	1.07	21.19	1.43	4.29	85.27	
592-13-2	2,5-Dimethylhexane	0.31	0.93	1.48	1.46	4.37	6.91	
589-43-5	2,4-Dimethylhexane	0.31	0.93	5.47	1.46	4.37	25.62	
565-75-3	2,3,4-Trimethylpentane	0.31	0.93	11.14	1.46	4.37	52.12	

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.07	3.72	1.34	4.02	14.03	
584-94-1	2,3-Dimethylhexane	0.31	0.93	3.25	1.46	4.37	15.22	
592-27-8	2-Methylheptane	0.31	0.93	2.14	1.46	4.37	10.02	
589-53-7	4-Methylheptane	0.31	0.93	0.72	1.46	4.37	3.39	J
589-81-1	3-Methylheptane	0.31	0.93	1.95	1.46	4.37	9.13	
111-65-9	n-Octane	0.31	0.93	ND	1.46	4.37	ND	ND
100-41-4	Ethylbenzene	0.31	0.93	ND	1.35	4.06	ND	ND
108-38-3	m,p-xylene	0.31	0.93	1.55	1.35	4.06	6.75	
100-42-5	Styrene	0.31	0.93	ND	1.33	3.98	ND	ND
95-47-6	o-xylene	0.31	0.93	3.55	1.35	4.06	15.46	
111-84-2	n-Nonane	0.28	0.83	ND	1.45	4.36	ND	ND
98-82-8	i-Propylbenzene	0.28	0.83	ND	1.36	4.08	ND	ND
103-65-1	n-propylbenzene	0.28	0.83	ND	1.36	4.08	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.83	ND	1.36	4.08	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.83	ND	1.36	4.08	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.83	ND	1.36	4.08	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.83	ND	1.36	4.08	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.83	ND	1.36	4.08	ND	ND
124-18-5	n-Decane	0.25	0.75	ND	1.45	4.35	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.83	ND	1.36	4.08	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.75	ND	1.37	4.10	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.75	ND	1.37	4.10	ND	ND
104-51-8	n-Butylbenzene	0.25	0.75	ND	1.37	4.10	ND	ND
1120-21-4	Undecane	0.23	0.68	ND	1.45	4.35	ND	ND
91-20-3	Naphthalene	0.25	0.75	ND	1.31	3.92	ND	ND
112-40-3	Dodecane	0.21	0.62	ND	1.45	4.34	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.33	27.98	2,642.47	32.95	98.86	9,335.29	
TNMHC - C1	Total Non-Methane Hydrocarbons	55.96	167.89	15,854.84	36.70	110.09	10,396.62	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 25

File Name: 2510025A
Description: T-207
Canister: 627
QC_Batch: 040325-GCK

Date Sampled: 03/20/25 **Time:** 10:05
Date Analyzed: 04/03/25 **Time:** 11:44
Can Factor: 1.31
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.31	3.92	2.22	1.50	4.51	2.56	J
74-86-2	Acetylene	1.31	3.92	ND	1.39	4.18	ND	ND
74-84-0	Ethane	1.31	3.92	7.03	1.61	4.83	8.67	
115-07-1	Propene	0.87	2.61	2.17	1.50	4.51	3.74	J
74-98-6	Propane	0.87	2.61	5.89	1.57	4.72	10.65	
75-28-5	i-Butane	0.65	1.96	ND	1.56	4.67	ND	ND
106-98-9	1-Butene	0.65	1.96	ND	1.50	4.51	ND	ND
106-97-8	n-Butane	0.65	1.96	1.91	1.56	4.67	4.54	J
624-64-6	t-2-Butene	0.65	1.96	ND	1.50	4.51	ND	ND
590-18-1	c-2-Butene	0.65	1.96	2.36	1.50	4.51	5.42	
78-78-4	i-Pentane	0.52	1.57	13.12	1.55	4.64	38.82	
109-67-1	1-Pentene	0.52	1.57	0.56	1.50	4.50	1.62	J
109-66-0	n-Pentane	0.52	1.57	0.76	1.54	4.63	2.26	J
646-04-8	t-2-Pentene	0.52	1.57	ND	1.50	4.50	ND	ND
627-20-3	c-2-Pentene	0.52	1.57	ND	1.50	4.50	ND	ND
75-83-2	2,2-Dimethylbutane	0.44	1.31	1.29	1.54	4.62	4.57	J
142-29-0	Cyclopentene	0.52	1.57	ND	1.46	4.38	ND	ND
287-92-3	Cyclopentane	0.52	1.57	1.46	1.50	4.50	4.18	J
79-29-8	2,3-Dimethylbutane	0.44	1.31	ND	1.54	4.62	ND	ND
107-83-5	2-Methylpentane	0.44	1.31	ND	1.54	4.62	ND	ND
96-14-0	3-Methylpentane	0.44	1.31	ND	1.54	4.62	ND	ND
592-41-6	1-Hexene	0.44	1.31	ND	1.50	4.51	ND	ND
110-54-3	n-Hexane	0.44	1.31	ND	1.54	4.62	ND	ND
1120-62-3	3-Methylcyclopentene	0.44	1.31	ND	1.47	4.40	ND	ND
96-37-7	Methylcyclopentane	0.44	1.31	ND	1.50	4.51	ND	ND
108-08-7	2,4-Dimethylpentane	0.37	1.12	ND	1.53	4.60	ND	ND
71-43-2	Benzene	0.44	1.31	2.65	1.39	4.18	8.47	
110-82-7	Cyclohexane	0.44	1.31	1.36	1.50	4.51	4.68	
591-76-4	2-Methylhexane	0.37	1.12	ND	1.53	4.60	ND	ND
565-59-3	2,3-Dimethylpentane	0.37	1.12	0.60	1.53	4.60	2.47	J
589-34-4	3-Methylhexane	0.37	1.12	ND	1.53	4.60	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.33	0.98	2.21	1.53	4.59	10.33	
142-82-5	n-Heptane	0.37	1.12	ND	1.53	4.60	ND	ND
108-87-2	Methylcyclohexane	0.37	1.12	0.72	1.50	4.51	2.89	J
592-13-2	2,5-Dimethylhexane	0.33	0.98	ND	1.53	4.59	ND	ND
589-43-5	2,4-Dimethylhexane	0.33	0.98	ND	1.53	4.59	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.33	0.98	1.36	1.53	4.59	6.38	

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.37	1.12	2.38	1.41	4.23	8.99	
584-94-1	2,3-Dimethylhexane	0.33	0.98	ND	1.53	4.59	ND	ND
592-27-8	2-Methylheptane	0.33	0.98	ND	1.53	4.59	ND	ND
589-53-7	4-Methylheptane	0.33	0.98	ND	1.53	4.59	ND	ND
589-81-1	3-Methylheptane	0.33	0.98	ND	1.53	4.59	ND	ND
111-65-9	n-Octane	0.33	0.98	ND	1.53	4.59	ND	ND
100-41-4	Ethylbenzene	0.33	0.98	ND	1.42	4.26	ND	ND
108-38-3	m,p-xylene	0.33	0.98	ND	1.42	4.26	ND	ND
100-42-5	Styrene	0.33	0.98	ND	1.39	4.18	ND	ND
95-47-6	o-xylene	0.33	0.98	0.35	1.42	4.26	1.52	J
111-84-2	n-Nonane	0.29	0.87	0.60	1.53	4.58	3.13	J
98-82-8	i-Propylbenzene	0.29	0.87	ND	1.43	4.29	ND	ND
103-65-1	n-propylbenzene	0.29	0.87	ND	1.43	4.29	ND	ND
620-14-4	3-Ethyltoluene	0.29	0.87	ND	1.43	4.29	ND	ND
622-96-8	4-Ethyltoluene	0.29	0.87	ND	1.43	4.29	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.29	0.87	ND	1.43	4.29	ND	ND
611-14-3	2-Ethyltoluene	0.29	0.87	ND	1.43	4.29	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	0.87	ND	1.43	4.29	ND	ND
124-18-5	n-Decane	0.26	0.78	ND	1.52	4.57	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.29	0.87	ND	1.43	4.29	ND	ND
141-93-5	1,3-Diethylbenzene	0.26	0.78	ND	1.44	4.31	ND	ND
105-05-5	1,4-Diethylbenzene	0.26	0.78	ND	1.44	4.31	ND	ND
104-51-8	n-Butylbenzene	0.26	0.78	ND	1.44	4.31	ND	ND
1120-21-4	Undecane	0.24	0.71	ND	1.52	4.56	ND	ND
91-20-3	Naphthalene	0.26	0.78	ND	1.37	4.12	ND	ND
112-40-3	Dodecane	0.22	0.65	ND	1.52	4.56	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.80	29.39	158.88	34.61	103.84	561.30	
TNMHC - C1	Total Non-Methane Hydrocarbons	58.79	176.36	953.30	38.55	115.64	625.11	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 26

File Name: 2510026A
Description: T-208
Canister: 791
QC_Batch: 040125-GCK

Date Sampled: 03/20/25 **Time:** 10:08
Date Analyzed: 04/01/25 **Time:** 11:24
Can Factor: 1.26
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.26	3.77	1.54	1.45	4.34	1.77	J
74-86-2	Acetylene	1.26	3.77	ND	1.34	4.01	ND	ND
74-84-0	Ethane	1.26	3.77	5.78	1.55	4.65	7.14	
115-07-1	Propene	0.84	2.51	1.91	1.44	4.33	3.30	J
74-98-6	Propane	0.84	2.51	4.34	1.51	4.54	7.85	
75-28-5	i-Butane	0.63	1.88	ND	1.49	4.48	ND	ND
106-98-9	1-Butene	0.63	1.88	ND	1.44	4.33	ND	ND
106-97-8	n-Butane	0.63	1.88	2.31	1.49	4.48	5.49	
624-64-6	t-2-Butene	0.63	1.88	0.86	1.44	4.33	1.98	J
590-18-1	c-2-Butene	0.63	1.88	ND	1.44	4.33	ND	ND
78-78-4	i-Pentane	0.50	1.51	42.30	1.49	4.46	125.18	
109-67-1	1-Pentene	0.50	1.51	0.76	1.44	4.33	2.19	J
109-66-0	n-Pentane	0.50	1.51	0.72	1.48	4.45	2.13	J
646-04-8	t-2-Pentene	0.50	1.51	ND	1.44	4.33	ND	ND
627-20-3	c-2-Pentene	0.50	1.51	ND	1.44	4.33	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.26	3.01	1.48	4.43	10.62	
142-29-0	Cyclopentene	0.50	1.51	ND	1.40	4.20	ND	ND
287-92-3	Cyclopentane	0.50	1.51	7.43	1.44	4.33	21.34	
79-29-8	2,3-Dimethylbutane	0.42	1.26	ND	1.48	4.43	ND	ND
107-83-5	2-Methylpentane	0.42	1.26	1.52	1.48	4.43	5.38	
96-14-0	3-Methylpentane	0.42	1.26	1.24	1.48	4.43	4.39	J
592-41-6	1-Hexene	0.42	1.26	ND	1.44	4.33	ND	ND
110-54-3	n-Hexane	0.42	1.26	ND	1.48	4.43	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.26	ND	1.41	4.22	ND	ND
96-37-7	Methylcyclopentane	0.42	1.26	ND	1.44	4.33	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.08	ND	1.47	4.42	ND	ND
71-43-2	Benzene	0.42	1.26	0.74	1.34	4.02	2.37	J
110-82-7	Cyclohexane	0.42	1.26	ND	1.44	4.33	ND	ND
591-76-4	2-Methylhexane	0.36	1.08	ND	1.47	4.42	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.08	3.25	1.47	4.42	13.33	
589-34-4	3-Methylhexane	0.36	1.08	1.02	1.47	4.42	4.18	J
540-84-1	2,2,4-Trimethylpentane	0.31	0.94	ND	1.47	4.41	ND	ND
142-82-5	n-Heptane	0.36	1.08	ND	1.47	4.42	ND	ND
108-87-2	Methylcyclohexane	0.36	1.08	1.71	1.44	4.33	6.89	
592-13-2	2,5-Dimethylhexane	0.31	0.94	ND	1.47	4.41	ND	ND
589-43-5	2,4-Dimethylhexane	0.31	0.94	0.97	1.47	4.41	4.55	
565-75-3	2,3,4-Trimethylpentane	0.31	0.94	ND	1.47	4.41	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.08	0.53	1.35	4.06	2.00	J
584-94-1	2,3-Dimethylhexane	0.31	0.94	ND	1.47	4.41	ND	ND
592-27-8	2-Methylheptane	0.31	0.94	ND	1.47	4.41	ND	ND
589-53-7	4-Methylheptane	0.31	0.94	ND	1.47	4.41	ND	ND
589-81-1	3-Methylheptane	0.31	0.94	ND	1.47	4.41	ND	ND
111-65-9	n-Octane	0.31	0.94	ND	1.47	4.41	ND	ND
100-41-4	Ethylbenzene	0.31	0.94	ND	1.37	4.10	ND	ND
108-38-3	m,p-xylene	0.31	0.94	ND	1.37	4.10	ND	ND
100-42-5	Styrene	0.31	0.94	ND	1.34	4.02	ND	ND
95-47-6	o-xylene	0.31	0.94	ND	1.37	4.10	ND	ND
111-84-2	n-Nonane	0.28	0.84	ND	1.47	4.40	ND	ND
98-82-8	i-Propylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
103-65-1	n-propylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.84	ND	1.37	4.12	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.84	ND	1.37	4.12	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.84	ND	1.37	4.12	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
124-18-5	n-Decane	0.25	0.75	ND	1.46	4.39	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.75	ND	1.38	4.14	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.75	ND	1.38	4.14	ND	ND
104-51-8	n-Butylbenzene	0.25	0.75	ND	1.38	4.14	ND	ND
1120-21-4	Undecane	0.23	0.68	ND	1.46	4.39	ND	ND
91-20-3	Naphthalene	0.25	0.75	ND	1.32	3.96	ND	ND
112-40-3	Dodecane	0.21	0.63	ND	1.46	4.38	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.41	28.24	136.07	33.26	99.78	480.70	
TNMHC - C1	Total Non-Methane Hydrocarbons	56.49	169.46	816.41	37.04	111.12	535.35	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 27

File Name: 2510027A
Description: T-209
Canister: 778
QC_Batch: 040125-GCK

Date Sampled: 03/20/25 **Time:** 11:21
Date Analyzed: 04/01/25 **Time:** 12:16
Can Factor: 1.30
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.30	3.90	1.65	1.50	4.49	1.90	J
74-86-2	Acetylene	1.30	3.90	ND	1.39	4.16	ND	ND
74-84-0	Ethane	1.30	3.90	1.92	1.60	4.81	2.37	J
115-07-1	Propene	0.87	2.60	ND	1.50	4.49	ND	ND
74-98-6	Propane	0.87	2.60	ND	1.57	4.70	ND	ND
75-28-5	i-Butane	0.65	1.95	ND	1.55	4.65	ND	ND
106-98-9	1-Butene	0.65	1.95	1.72	1.50	4.49	3.96	J
106-97-8	n-Butane	0.65	1.95	ND	1.55	4.65	ND	ND
624-64-6	t-2-Butene	0.65	1.95	ND	1.50	4.49	ND	ND
590-18-1	c-2-Butene	0.65	1.95	ND	1.50	4.49	ND	ND
78-78-4	i-Pentane	0.52	1.56	ND	1.54	4.62	ND	ND
109-67-1	1-Pentene	0.52	1.56	ND	1.49	4.48	ND	ND
109-66-0	n-Pentane	0.52	1.56	ND	1.54	4.61	ND	ND
646-04-8	t-2-Pentene	0.52	1.56	ND	1.49	4.48	ND	ND
627-20-3	c-2-Pentene	0.52	1.56	ND	1.49	4.48	ND	ND
75-83-2	2,2-Dimethylbutane	0.43	1.30	ND	1.53	4.59	ND	ND
142-29-0	Cyclopentene	0.52	1.56	ND	1.45	4.36	ND	ND
287-92-3	Cyclopentane	0.52	1.56	ND	1.49	4.48	ND	ND
79-29-8	2,3-Dimethylbutane	0.43	1.30	ND	1.53	4.59	ND	ND
107-83-5	2-Methylpentane	0.43	1.30	ND	1.53	4.59	ND	ND
96-14-0	3-Methylpentane	0.43	1.30	ND	1.53	4.59	ND	ND
592-41-6	1-Hexene	0.43	1.30	ND	1.50	4.49	ND	ND
110-54-3	n-Hexane	0.43	1.30	ND	1.53	4.59	ND	ND
1120-62-3	3-Methylcyclopentene	0.43	1.30	ND	1.46	4.38	ND	ND
96-37-7	Methylcyclopentane	0.43	1.30	ND	1.50	4.49	ND	ND
108-08-7	2,4-Dimethylpentane	0.37	1.11	ND	1.53	4.58	ND	ND
71-43-2	Benzene	0.43	1.30	0.70	1.39	4.16	2.24	J
110-82-7	Cyclohexane	0.43	1.30	ND	1.50	4.49	ND	ND
591-76-4	2-Methylhexane	0.37	1.11	ND	1.53	4.58	ND	ND
565-59-3	2,3-Dimethylpentane	0.37	1.11	ND	1.53	4.58	ND	ND
589-34-4	3-Methylhexane	0.37	1.11	ND	1.53	4.58	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.33	0.98	ND	1.52	4.57	ND	ND
142-82-5	n-Heptane	0.37	1.11	ND	1.53	4.58	ND	ND
108-87-2	Methylcyclohexane	0.37	1.11	ND	1.50	4.49	ND	ND
592-13-2	2,5-Dimethylhexane	0.33	0.98	ND	1.52	4.57	ND	ND
589-43-5	2,4-Dimethylhexane	0.33	0.98	ND	1.52	4.57	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.33	0.98	ND	1.52	4.57	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.37	1.11	ND	1.40	4.21	ND	ND
584-94-1	2,3-Dimethylhexane	0.33	0.98	ND	1.52	4.57	ND	ND
592-27-8	2-Methylheptane	0.33	0.98	ND	1.52	4.57	ND	ND
589-53-7	4-Methylheptane	0.33	0.98	ND	1.52	4.57	ND	ND
589-81-1	3-Methylheptane	0.33	0.98	ND	1.52	4.57	ND	ND
111-65-9	n-Octane	0.33	0.98	ND	1.52	4.57	ND	ND
100-41-4	Ethylbenzene	0.33	0.98	ND	1.42	4.25	ND	ND
108-38-3	m,p-xylene	0.33	0.98	ND	1.42	4.25	ND	ND
100-42-5	Styrene	0.33	0.98	ND	1.39	4.17	ND	ND
95-47-6	o-xylene	0.33	0.98	ND	1.42	4.25	ND	ND
111-84-2	n-Nonane	0.29	0.87	ND	1.52	4.56	ND	ND
98-82-8	i-Propylbenzene	0.29	0.87	ND	1.42	4.27	ND	ND
103-65-1	n-propylbenzene	0.29	0.87	ND	1.42	4.27	ND	ND
620-14-4	3-Ethyltoluene	0.29	0.87	ND	1.42	4.27	ND	ND
622-96-8	4-Ethyltoluene	0.29	0.87	ND	1.42	4.27	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.29	0.87	ND	1.42	4.27	ND	ND
611-14-3	2-Ethyltoluene	0.29	0.87	ND	1.42	4.27	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	0.87	ND	1.42	4.27	ND	ND
124-18-5	n-Decane	0.26	0.78	ND	1.52	4.55	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.29	0.87	ND	1.42	4.27	ND	ND
141-93-5	1,3-Diethylbenzene	0.26	0.78	ND	1.43	4.29	ND	ND
105-05-5	1,4-Diethylbenzene	0.26	0.78	ND	1.43	4.29	ND	ND
104-51-8	n-Butylbenzene	0.26	0.78	ND	1.43	4.29	ND	ND
1120-21-4	Undecane	0.24	0.71	ND	1.51	4.54	ND	ND
91-20-3	Naphthalene	0.26	0.78	ND	1.37	4.10	ND	ND
112-40-3	Dodecane	0.22	0.65	ND	1.51	4.54	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.75	29.26	ND	34.46	103.38	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	58.53	175.58	ND	38.38	115.13	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 28

File Name: 2510028A
Description: T-210
Canister: 714
QC_Batch: 040125-GCK

Date Sampled: 03/20/25 **Time:** 11:21
Date Analyzed: 04/01/25 **Time:** 13:06
Can Factor: 1.27
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.27	3.81	ND	1.46	4.38	ND	ND
74-86-2	Acetylene	1.27	3.81	ND	1.35	4.06	ND	ND
74-84-0	Ethane	1.27	3.81	2.56	1.57	4.70	3.16	J
115-07-1	Propene	0.85	2.54	ND	1.46	4.38	ND	ND
74-98-6	Propane	0.85	2.54	1.08	1.53	4.59	1.95	J
75-28-5	i-Butane	0.63	1.90	ND	1.51	4.53	ND	ND
106-98-9	1-Butene	0.63	1.90	1.68	1.46	4.38	3.86	J
106-97-8	n-Butane	0.63	1.90	ND	1.51	4.53	ND	ND
624-64-6	t-2-Butene	0.63	1.90	ND	1.46	4.38	ND	ND
590-18-1	c-2-Butene	0.63	1.90	ND	1.46	4.38	ND	ND
78-78-4	i-Pentane	0.51	1.52	ND	1.50	4.51	ND	ND
109-67-1	1-Pentene	0.51	1.52	ND	1.46	4.38	ND	ND
109-66-0	n-Pentane	0.51	1.52	ND	1.50	4.50	ND	ND
646-04-8	t-2-Pentene	0.51	1.52	ND	1.46	4.38	ND	ND
627-20-3	c-2-Pentene	0.51	1.52	ND	1.46	4.38	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.27	ND	1.49	4.48	ND	ND
142-29-0	Cyclopentene	0.51	1.52	ND	1.42	4.25	ND	ND
287-92-3	Cyclopentane	0.51	1.52	ND	1.46	4.38	ND	ND
79-29-8	2,3-Dimethylbutane	0.42	1.27	ND	1.49	4.48	ND	ND
107-83-5	2-Methylpentane	0.42	1.27	ND	1.49	4.48	ND	ND
96-14-0	3-Methylpentane	0.42	1.27	ND	1.49	4.48	ND	ND
592-41-6	1-Hexene	0.42	1.27	ND	1.46	4.38	ND	ND
110-54-3	n-Hexane	0.42	1.27	ND	1.49	4.48	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.27	ND	1.42	4.27	ND	ND
96-37-7	Methylcyclopentane	0.42	1.27	ND	1.46	4.38	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.09	ND	1.49	4.47	ND	ND
71-43-2	Benzene	0.42	1.27	1.09	1.35	4.06	3.50	J
110-82-7	Cyclohexane	0.42	1.27	ND	1.46	4.38	ND	ND
591-76-4	2-Methylhexane	0.36	1.09	ND	1.49	4.47	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.09	ND	1.49	4.47	ND	ND
589-34-4	3-Methylhexane	0.36	1.09	ND	1.49	4.47	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.32	0.95	ND	1.48	4.45	ND	ND
142-82-5	n-Heptane	0.36	1.09	ND	1.49	4.47	ND	ND
108-87-2	Methylcyclohexane	0.36	1.09	ND	1.46	4.38	ND	ND
592-13-2	2,5-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.32	0.95	ND	1.48	4.45	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.09	ND	1.37	4.11	ND	ND
584-94-1	2,3-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
592-27-8	2-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
589-53-7	4-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
589-81-1	3-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
111-65-9	n-Octane	0.32	0.95	ND	1.48	4.45	ND	ND
100-41-4	Ethylbenzene	0.32	0.95	ND	1.38	4.14	ND	ND
108-38-3	m,p-xylene	0.32	0.95	ND	1.38	4.14	ND	ND
100-42-5	Styrene	0.32	0.95	ND	1.35	4.06	ND	ND
95-47-6	o-xylene	0.32	0.95	ND	1.38	4.14	ND	ND
111-84-2	n-Nonane	0.28	0.85	ND	1.48	4.45	ND	ND
98-82-8	i-Propylbenzene	0.28	0.85	ND	1.39	4.17	ND	ND
103-65-1	n-propylbenzene	0.28	0.85	ND	1.39	4.17	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.85	ND	1.39	4.17	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.85	ND	1.39	4.17	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.85	ND	1.39	4.17	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.85	ND	1.39	4.17	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.85	ND	1.39	4.17	ND	ND
124-18-5	n-Decane	0.25	0.76	ND	1.48	4.44	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.85	ND	1.39	4.17	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.76	ND	1.40	4.19	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.76	ND	1.40	4.19	ND	ND
104-51-8	n-Butylbenzene	0.25	0.76	ND	1.40	4.19	ND	ND
1120-21-4	Undecane	0.23	0.69	ND	1.48	4.43	ND	ND
91-20-3	Naphthalene	0.25	0.76	ND	1.33	4.00	ND	ND
112-40-3	Dodecane	0.21	0.63	ND	1.48	4.43	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.52	28.55	12.75	33.63	100.88	45.04	J
TNMHC - C1	Total Non-Methane Hydrocarbons	57.11	171.32	76.50	37.45	112.34	50.16	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 29

File Name: 2510029A
Description: T-211
Canister: 629
QC_Batch: 040125-GCK

Date Sampled: 03/20/25 **Time:** 11:26
Date Analyzed: 04/01/25 **Time:** 13:53
Can Factor: 1.29
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.29	3.86	ND	1.48	4.44	ND	ND
74-86-2	Acetylene	1.29	3.86	ND	1.37	4.11	ND	ND
74-84-0	Ethane	1.29	3.86	1.58	1.59	4.76	1.94	J
115-07-1	Propene	0.86	2.57	ND	1.48	4.44	ND	ND
74-98-6	Propane	0.86	2.57	ND	1.55	4.65	ND	ND
75-28-5	i-Butane	0.64	1.93	ND	1.53	4.59	ND	ND
106-98-9	1-Butene	0.64	1.93	ND	1.48	4.44	ND	ND
106-97-8	n-Butane	0.64	1.93	ND	1.53	4.59	ND	ND
624-64-6	t-2-Butene	0.64	1.93	ND	1.48	4.44	ND	ND
590-18-1	c-2-Butene	0.64	1.93	ND	1.48	4.44	ND	ND
78-78-4	i-Pentane	0.51	1.54	ND	1.52	4.57	ND	ND
109-67-1	1-Pentene	0.51	1.54	ND	1.48	4.43	ND	ND
109-66-0	n-Pentane	0.51	1.54	ND	1.52	4.56	ND	ND
646-04-8	t-2-Pentene	0.51	1.54	ND	1.48	4.43	ND	ND
627-20-3	c-2-Pentene	0.51	1.54	ND	1.48	4.43	ND	ND
75-83-2	2,2-Dimethylbutane	0.43	1.29	ND	1.51	4.54	ND	ND
142-29-0	Cyclopentene	0.51	1.54	ND	1.44	4.31	ND	ND
287-92-3	Cyclopentane	0.51	1.54	ND	1.48	4.43	ND	ND
79-29-8	2,3-Dimethylbutane	0.43	1.29	ND	1.51	4.54	ND	ND
107-83-5	2-Methylpentane	0.43	1.29	ND	1.51	4.54	ND	ND
96-14-0	3-Methylpentane	0.43	1.29	ND	1.51	4.54	ND	ND
592-41-6	1-Hexene	0.43	1.29	ND	1.48	4.44	ND	ND
110-54-3	n-Hexane	0.43	1.29	ND	1.51	4.54	ND	ND
1120-62-3	3-Methylcyclopentene	0.43	1.29	ND	1.44	4.33	ND	ND
96-37-7	Methylcyclopentane	0.43	1.29	ND	1.48	4.44	ND	ND
108-08-7	2,4-Dimethylpentane	0.37	1.10	ND	1.51	4.53	ND	ND
71-43-2	Benzene	0.43	1.29	0.44	1.37	4.12	1.40	J
110-82-7	Cyclohexane	0.43	1.29	ND	1.48	4.44	ND	ND
591-76-4	2-Methylhexane	0.37	1.10	ND	1.51	4.53	ND	ND
565-59-3	2,3-Dimethylpentane	0.37	1.10	ND	1.51	4.53	ND	ND
589-34-4	3-Methylhexane	0.37	1.10	ND	1.51	4.53	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.32	0.96	ND	1.50	4.51	ND	ND
142-82-5	n-Heptane	0.37	1.10	ND	1.51	4.53	ND	ND
108-87-2	Methylcyclohexane	0.37	1.10	ND	1.48	4.44	ND	ND
592-13-2	2,5-Dimethylhexane	0.32	0.96	ND	1.50	4.51	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.96	ND	1.50	4.51	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.32	0.96	ND	1.50	4.51	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.37	1.10	ND	1.39	4.16	ND	ND
584-94-1	2,3-Dimethylhexane	0.32	0.96	ND	1.50	4.51	ND	ND
592-27-8	2-Methylheptane	0.32	0.96	ND	1.50	4.51	ND	ND
589-53-7	4-Methylheptane	0.32	0.96	ND	1.50	4.51	ND	ND
589-81-1	3-Methylheptane	0.32	0.96	ND	1.50	4.51	ND	ND
111-65-9	n-Octane	0.32	0.96	ND	1.50	4.51	ND	ND
100-41-4	Ethylbenzene	0.32	0.96	ND	1.40	4.20	ND	ND
108-38-3	m,p-xylene	0.32	0.96	ND	1.40	4.20	ND	ND
100-42-5	Styrene	0.32	0.96	ND	1.37	4.12	ND	ND
95-47-6	o-xylene	0.32	0.96	ND	1.40	4.20	ND	ND
111-84-2	n-Nonane	0.29	0.86	ND	1.50	4.51	ND	ND
98-82-8	i-Propylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
103-65-1	n-propylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
620-14-4	3-Ethyltoluene	0.29	0.86	ND	1.41	4.22	ND	ND
622-96-8	4-Ethyltoluene	0.29	0.86	ND	1.41	4.22	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
611-14-3	2-Ethyltoluene	0.29	0.86	ND	1.41	4.22	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
124-18-5	n-Decane	0.26	0.77	ND	1.50	4.50	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
141-93-5	1,3-Diethylbenzene	0.26	0.77	ND	1.41	4.24	ND	ND
105-05-5	1,4-Diethylbenzene	0.26	0.77	ND	1.41	4.24	ND	ND
104-51-8	n-Butylbenzene	0.26	0.77	ND	1.41	4.24	ND	ND
1120-21-4	Undecane	0.23	0.70	ND	1.50	4.49	ND	ND
91-20-3	Naphthalene	0.26	0.77	ND	1.35	4.05	ND	ND
112-40-3	Dodecane	0.21	0.64	ND	1.50	4.49	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.65	28.94	23.37	34.08	102.23	82.55	J
TNMHC - C1	Total Non-Methane Hydrocarbons	57.88	173.63	140.20	37.95	113.85	91.93	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 30

File Name: 2510030A
Description: T-212
Canister: 502
QC_Batch: 040125-GCK

Date Sampled: 03/20/25 **Time:** 11:30
Date Analyzed: 04/01/25 **Time:** 14:40
Can Factor: 1.35
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.35	4.06	ND	1.56	4.68	ND	ND
74-86-2	Acetylene	1.35	4.06	ND	1.44	4.33	ND	ND
74-84-0	Ethane	1.35	4.06	ND	1.67	5.01	ND	ND
115-07-1	Propene	0.90	2.71	ND	1.56	4.67	ND	ND
74-98-6	Propane	0.90	2.71	ND	1.63	4.89	ND	ND
75-28-5	i-Butane	0.68	2.03	ND	1.61	4.84	ND	ND
106-98-9	1-Butene	0.68	2.03	ND	1.56	4.67	ND	ND
106-97-8	n-Butane	0.68	2.03	ND	1.61	4.84	ND	ND
624-64-6	t-2-Butene	0.68	2.03	1.84	1.56	4.67	4.24	J
590-18-1	c-2-Butene	0.68	2.03	ND	1.56	4.67	ND	ND
78-78-4	i-Pentane	0.54	1.62	ND	1.60	4.81	ND	ND
109-67-1	1-Pentene	0.54	1.62	ND	1.56	4.67	ND	ND
109-66-0	n-Pentane	0.54	1.62	ND	1.60	4.80	ND	ND
646-04-8	t-2-Pentene	0.54	1.62	ND	1.56	4.67	ND	ND
627-20-3	c-2-Pentene	0.54	1.62	ND	1.56	4.67	ND	ND
75-83-2	2,2-Dimethylbutane	0.45	1.35	ND	1.59	4.78	ND	ND
142-29-0	Cyclopentene	0.54	1.62	ND	1.51	4.53	ND	ND
287-92-3	Cyclopentane	0.54	1.62	ND	1.56	4.67	ND	ND
79-29-8	2,3-Dimethylbutane	0.45	1.35	ND	1.59	4.78	ND	ND
107-83-5	2-Methylpentane	0.45	1.35	ND	1.59	4.78	ND	ND
96-14-0	3-Methylpentane	0.45	1.35	ND	1.59	4.78	ND	ND
592-41-6	1-Hexene	0.45	1.35	ND	1.56	4.67	ND	ND
110-54-3	n-Hexane	0.45	1.35	ND	1.59	4.78	ND	ND
1120-62-3	3-Methylcyclopentene	0.45	1.35	ND	1.52	4.55	ND	ND
96-37-7	Methylcyclopentane	0.45	1.35	ND	1.56	4.67	ND	ND
108-08-7	2,4-Dimethylpentane	0.39	1.16	ND	1.59	4.76	ND	ND
71-43-2	Benzene	0.45	1.35	0.46	1.44	4.33	1.46	J
110-82-7	Cyclohexane	0.45	1.35	ND	1.56	4.67	ND	ND
591-76-4	2-Methylhexane	0.39	1.16	ND	1.59	4.76	ND	ND
565-59-3	2,3-Dimethylpentane	0.39	1.16	ND	1.59	4.76	ND	ND
589-34-4	3-Methylhexane	0.39	1.16	ND	1.59	4.76	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.34	1.02	ND	1.58	4.75	ND	ND
142-82-5	n-Heptane	0.39	1.16	ND	1.59	4.76	ND	ND
108-87-2	Methylcyclohexane	0.39	1.16	ND	1.56	4.67	ND	ND
592-13-2	2,5-Dimethylhexane	0.34	1.02	ND	1.58	4.75	ND	ND
589-43-5	2,4-Dimethylhexane	0.34	1.02	ND	1.58	4.75	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.34	1.02	ND	1.58	4.75	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.39	1.16	ND	1.46	4.38	ND	ND
584-94-1	2,3-Dimethylhexane	0.34	1.02	ND	1.58	4.75	ND	ND
592-27-8	2-Methylheptane	0.34	1.02	ND	1.58	4.75	ND	ND
589-53-7	4-Methylheptane	0.34	1.02	ND	1.58	4.75	ND	ND
589-81-1	3-Methylheptane	0.34	1.02	ND	1.58	4.75	ND	ND
111-65-9	n-Octane	0.34	1.02	ND	1.58	4.75	ND	ND
100-41-4	Ethylbenzene	0.34	1.02	ND	1.47	4.42	ND	ND
108-38-3	m,p-xylene	0.34	1.02	ND	1.47	4.42	ND	ND
100-42-5	Styrene	0.34	1.02	ND	1.45	4.34	ND	ND
95-47-6	o-xylene	0.34	1.02	ND	1.47	4.42	ND	ND
111-84-2	n-Nonane	0.30	0.90	ND	1.58	4.75	ND	ND
98-82-8	i-Propylbenzene	0.30	0.90	ND	1.48	4.45	ND	ND
103-65-1	n-propylbenzene	0.30	0.90	ND	1.48	4.45	ND	ND
620-14-4	3-Ethyltoluene	0.30	0.90	ND	1.48	4.45	ND	ND
622-96-8	4-Ethyltoluene	0.30	0.90	ND	1.48	4.45	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.30	0.90	ND	1.48	4.45	ND	ND
611-14-3	2-Ethyltoluene	0.30	0.90	ND	1.48	4.45	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.30	0.90	ND	1.48	4.45	ND	ND
124-18-5	n-Decane	0.27	0.81	ND	1.58	4.74	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.30	0.90	ND	1.48	4.45	ND	ND
141-93-5	1,3-Diethylbenzene	0.27	0.81	ND	1.49	4.47	ND	ND
105-05-5	1,4-Diethylbenzene	0.27	0.81	ND	1.49	4.47	ND	ND
104-51-8	n-Butylbenzene	0.27	0.81	ND	1.49	4.47	ND	ND
1120-21-4	Undecane	0.25	0.74	ND	1.58	4.73	ND	ND
91-20-3	Naphthalene	0.27	0.81	ND	1.42	4.27	ND	ND
112-40-3	Dodecane	0.23	0.68	ND	1.57	4.72	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	10.15	30.46	26.48	35.87	107.60	93.55	J
TNMHC - C1	Total Non-Methane Hydrocarbons	60.92	182.75	158.88	39.95	119.84	104.19	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 31

File Name: 2510031A
Description: T-213
Canister: 712
QC_Batch: 040125-GCK

Date Sampled: 03/20/25 **Time:** 11:30
Date Analyzed: 04/01/25 **Time:** 15:27
Can Factor: 1.33
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.33	4.00	ND	1.54	4.61	ND	ND
74-86-2	Acetylene	1.33	4.00	ND	1.42	4.27	ND	ND
74-84-0	Ethane	1.33	4.00	1.93	1.65	4.94	2.38	J
115-07-1	Propene	0.89	2.67	ND	1.54	4.61	ND	ND
74-98-6	Propane	0.89	2.67	ND	1.61	4.83	ND	ND
75-28-5	i-Butane	0.67	2.00	ND	1.59	4.77	ND	ND
106-98-9	1-Butene	0.67	2.00	1.56	1.53	4.60	3.58	J
106-97-8	n-Butane	0.67	2.00	ND	1.59	4.77	ND	ND
624-64-6	t-2-Butene	0.67	2.00	ND	1.53	4.60	ND	ND
590-18-1	c-2-Butene	0.67	2.00	ND	1.53	4.60	ND	ND
78-78-4	i-Pentane	0.53	1.60	ND	1.58	4.74	ND	ND
109-67-1	1-Pentene	0.53	1.60	ND	1.53	4.60	ND	ND
109-66-0	n-Pentane	0.53	1.60	ND	1.58	4.73	ND	ND
646-04-8	t-2-Pentene	0.53	1.60	ND	1.53	4.60	ND	ND
627-20-3	c-2-Pentene	0.53	1.60	ND	1.53	4.60	ND	ND
75-83-2	2,2-Dimethylbutane	0.44	1.33	ND	1.57	4.72	ND	ND
142-29-0	Cyclopentene	0.53	1.60	ND	1.49	4.47	ND	ND
287-92-3	Cyclopentane	0.53	1.60	ND	1.53	4.60	ND	ND
79-29-8	2,3-Dimethylbutane	0.44	1.33	ND	1.57	4.72	ND	ND
107-83-5	2-Methylpentane	0.44	1.33	ND	1.57	4.72	ND	ND
96-14-0	3-Methylpentane	0.44	1.33	ND	1.57	4.72	ND	ND
592-41-6	1-Hexene	0.44	1.33	ND	1.54	4.61	ND	ND
110-54-3	n-Hexane	0.44	1.33	ND	1.57	4.72	ND	ND
1120-62-3	3-Methylcyclopentene	0.44	1.33	ND	1.50	4.49	ND	ND
96-37-7	Methylcyclopentane	0.44	1.33	ND	1.54	4.61	ND	ND
108-08-7	2,4-Dimethylpentane	0.38	1.14	ND	1.57	4.70	ND	ND
71-43-2	Benzene	0.44	1.33	0.68	1.42	4.27	2.16	J
110-82-7	Cyclohexane	0.44	1.33	ND	1.54	4.61	ND	ND
591-76-4	2-Methylhexane	0.38	1.14	ND	1.57	4.70	ND	ND
565-59-3	2,3-Dimethylpentane	0.38	1.14	ND	1.57	4.70	ND	ND
589-34-4	3-Methylhexane	0.38	1.14	ND	1.57	4.70	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.33	1.00	ND	1.56	4.69	ND	ND
142-82-5	n-Heptane	0.38	1.14	ND	1.57	4.70	ND	ND
108-87-2	Methylcyclohexane	0.38	1.14	ND	1.53	4.60	ND	ND
592-13-2	2,5-Dimethylhexane	0.33	1.00	ND	1.56	4.69	ND	ND
589-43-5	2,4-Dimethylhexane	0.33	1.00	ND	1.56	4.69	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.33	1.00	ND	1.56	4.69	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.38	1.14	ND	1.44	4.32	ND	ND
584-94-1	2,3-Dimethylhexane	0.33	1.00	ND	1.56	4.69	ND	ND
592-27-8	2-Methylheptane	0.33	1.00	ND	1.56	4.69	ND	ND
589-53-7	4-Methylheptane	0.33	1.00	ND	1.56	4.69	ND	ND
589-81-1	3-Methylheptane	0.33	1.00	ND	1.56	4.69	ND	ND
111-65-9	n-Octane	0.33	1.00	ND	1.56	4.69	ND	ND
100-41-4	Ethylbenzene	0.33	1.00	ND	1.45	4.36	ND	ND
108-38-3	m,p-xylene	0.33	1.00	ND	1.45	4.36	ND	ND
100-42-5	Styrene	0.33	1.00	ND	1.43	4.28	ND	ND
95-47-6	o-xylene	0.33	1.00	ND	1.45	4.36	ND	ND
111-84-2	n-Nonane	0.30	0.89	ND	1.56	4.68	ND	ND
98-82-8	i-Propylbenzene	0.30	0.89	ND	1.46	4.38	ND	ND
103-65-1	n-propylbenzene	0.30	0.89	ND	1.46	4.38	ND	ND
620-14-4	3-Ethyltoluene	0.30	0.89	ND	1.46	4.38	ND	ND
622-96-8	4-Ethyltoluene	0.30	0.89	ND	1.46	4.38	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.30	0.89	ND	1.46	4.38	ND	ND
611-14-3	2-Ethyltoluene	0.30	0.89	ND	1.46	4.38	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.30	0.89	ND	1.46	4.38	ND	ND
124-18-5	n-Decane	0.27	0.80	ND	1.56	4.67	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.30	0.89	ND	1.46	4.38	ND	ND
141-93-5	1,3-Diethylbenzene	0.27	0.80	ND	1.47	4.40	ND	ND
105-05-5	1,4-Diethylbenzene	0.27	0.80	ND	1.47	4.40	ND	ND
104-51-8	n-Butylbenzene	0.27	0.80	ND	1.47	4.40	ND	ND
1120-21-4	Undecane	0.24	0.73	ND	1.55	4.66	ND	ND
91-20-3	Naphthalene	0.27	0.80	ND	1.40	4.21	ND	ND
112-40-3	Dodecane	0.22	0.67	ND	1.55	4.66	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	10.01	30.03	25.65	35.37	106.10	90.63	J
TNMHC - C1	Total Non-Methane Hydrocarbons	60.07	180.20	153.93	39.39	118.16	100.94	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 32

File Name: 2510032A
Description: T-214
Canister: 610
QC_Batch: 033125-GCK

Date Sampled: 03/20/25 **Time:** 12:57
Date Analyzed: 03/31/25 **Time:** 13:08
Can Factor: 1.11
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.11	3.34	ND	1.28	3.85	ND	ND
74-86-2	Acetylene	1.11	3.34	ND	1.19	3.56	ND	ND
74-84-0	Ethane	1.11	3.34	ND	1.37	4.12	ND	ND
115-07-1	Propene	0.74	2.23	ND	1.28	3.84	ND	ND
74-98-6	Propane	0.74	2.23	ND	1.34	4.02	ND	ND
75-28-5	i-Butane	0.56	1.67	ND	1.33	3.98	ND	ND
106-98-9	1-Butene	0.56	1.67	ND	1.28	3.84	ND	ND
106-97-8	n-Butane	0.56	1.67	ND	1.33	3.98	ND	ND
624-64-6	t-2-Butene	0.56	1.67	ND	1.28	3.84	ND	ND
590-18-1	c-2-Butene	0.56	1.67	ND	1.28	3.84	ND	ND
78-78-4	i-Pentane	0.45	1.34	ND	1.32	3.95	ND	ND
109-67-1	1-Pentene	0.45	1.34	ND	1.28	3.84	ND	ND
109-66-0	n-Pentane	0.45	1.34	ND	1.32	3.95	ND	ND
646-04-8	t-2-Pentene	0.45	1.34	ND	1.28	3.84	ND	ND
627-20-3	c-2-Pentene	0.45	1.34	ND	1.28	3.84	ND	ND
75-83-2	2,2-Dimethylbutane	0.37	1.11	ND	1.31	3.93	ND	ND
142-29-0	Cyclopentene	0.45	1.34	ND	1.24	3.73	ND	ND
287-92-3	Cyclopentane	0.45	1.34	ND	1.28	3.84	ND	ND
79-29-8	2,3-Dimethylbutane	0.37	1.11	ND	1.31	3.93	ND	ND
107-83-5	2-Methylpentane	0.37	1.11	ND	1.31	3.93	ND	ND
96-14-0	3-Methylpentane	0.37	1.11	ND	1.31	3.93	ND	ND
592-41-6	1-Hexene	0.37	1.11	ND	1.28	3.84	ND	ND
110-54-3	n-Hexane	0.37	1.11	ND	1.31	3.93	ND	ND
1120-62-3	3-Methylcyclopentene	0.37	1.11	ND	1.25	3.75	ND	ND
96-37-7	Methylcyclopentane	0.37	1.11	ND	1.28	3.84	ND	ND
108-08-7	2,4-Dimethylpentane	0.32	0.95	ND	1.31	3.92	ND	ND
71-43-2	Benzene	0.37	1.11	ND	1.19	3.56	ND	ND
110-82-7	Cyclohexane	0.37	1.11	ND	1.28	3.84	ND	ND
591-76-4	2-Methylhexane	0.32	0.95	ND	1.31	3.92	ND	ND
565-59-3	2,3-Dimethylpentane	0.32	0.95	ND	1.31	3.92	ND	ND
589-34-4	3-Methylhexane	0.32	0.95	ND	1.31	3.92	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.28	0.83	ND	1.30	3.91	ND	ND
142-82-5	n-Heptane	0.32	0.95	ND	1.31	3.92	ND	ND
108-87-2	Methylcyclohexane	0.32	0.95	ND	1.28	3.84	ND	ND
592-13-2	2,5-Dimethylhexane	0.28	0.83	ND	1.30	3.91	ND	ND
589-43-5	2,4-Dimethylhexane	0.28	0.83	ND	1.30	3.91	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.28	0.83	ND	1.30	3.91	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.32	0.95	ND	1.20	3.60	ND	ND
584-94-1	2,3-Dimethylhexane	0.28	0.83	ND	1.30	3.91	ND	ND
592-27-8	2-Methylheptane	0.28	0.83	ND	1.30	3.91	ND	ND
589-53-7	4-Methylheptane	0.28	0.83	ND	1.30	3.91	ND	ND
589-81-1	3-Methylheptane	0.28	0.83	ND	1.30	3.91	ND	ND
111-65-9	n-Octane	0.28	0.83	ND	1.30	3.91	ND	ND
100-41-4	Ethylbenzene	0.28	0.83	ND	1.21	3.63	ND	ND
108-38-3	m,p-xylene	0.28	0.83	ND	1.21	3.63	ND	ND
100-42-5	Styrene	0.28	0.83	ND	1.19	3.57	ND	ND
95-47-6	o-xylene	0.28	0.83	ND	1.21	3.63	ND	ND
111-84-2	n-Nonane	0.25	0.74	ND	1.30	3.90	ND	ND
98-82-8	i-Propylbenzene	0.25	0.74	ND	1.22	3.66	ND	ND
103-65-1	n-propylbenzene	0.25	0.74	ND	1.22	3.66	ND	ND
620-14-4	3-Ethyltoluene	0.25	0.74	ND	1.22	3.66	ND	ND
622-96-8	4-Ethyltoluene	0.25	0.74	ND	1.22	3.66	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.25	0.74	ND	1.22	3.66	ND	ND
611-14-3	2-Ethyltoluene	0.25	0.74	ND	1.22	3.66	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.25	0.74	ND	1.22	3.66	ND	ND
124-18-5	n-Decane	0.22	0.67	ND	1.30	3.90	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.25	0.74	ND	1.22	3.66	ND	ND
141-93-5	1,3-Diethylbenzene	0.22	0.67	ND	1.22	3.67	ND	ND
105-05-5	1,4-Diethylbenzene	0.22	0.67	ND	1.22	3.67	ND	ND
104-51-8	n-Butylbenzene	0.22	0.67	ND	1.22	3.67	ND	ND
1120-21-4	Undecane	0.20	0.61	ND	1.30	3.89	ND	ND
91-20-3	Naphthalene	0.22	0.67	ND	1.17	3.51	ND	ND
112-40-3	Dodecane	0.19	0.56	ND	1.29	3.88	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	8.35	25.05	ND	29.50	88.49	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	50.10	150.29	ND	32.85	98.55	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 33

File Name: 2510033A
Description: T-215
Canister: 751
QC_Batch: 040125-GCK

Date Sampled: 03/20/25 **Time:** 12:44
Date Analyzed: 04/01/25 **Time:** 16:15
Can Factor: 1.29
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.29	3.87	2.16	1.49	4.46	2.49	J
74-86-2	Acetylene	1.29	3.87	ND	1.38	4.13	ND	ND
74-84-0	Ethane	1.29	3.87	3.00	1.59	4.78	3.69	J
115-07-1	Propene	0.86	2.58	ND	1.48	4.45	ND	ND
74-98-6	Propane	0.86	2.58	1.82	1.56	4.67	3.29	J
75-28-5	i-Butane	0.65	1.94	ND	1.54	4.61	ND	ND
106-98-9	1-Butene	0.65	1.94	ND	1.48	4.45	ND	ND
106-97-8	n-Butane	0.65	1.94	ND	1.54	4.61	ND	ND
624-64-6	t-2-Butene	0.65	1.94	ND	1.48	4.45	ND	ND
590-18-1	c-2-Butene	0.65	1.94	ND	1.48	4.45	ND	ND
78-78-4	i-Pentane	0.52	1.55	ND	1.53	4.58	ND	ND
109-67-1	1-Pentene	0.52	1.55	ND	1.48	4.45	ND	ND
109-66-0	n-Pentane	0.52	1.55	ND	1.53	4.58	ND	ND
646-04-8	t-2-Pentene	0.52	1.55	ND	1.48	4.45	ND	ND
627-20-3	c-2-Pentene	0.52	1.55	ND	1.48	4.45	ND	ND
75-83-2	2,2-Dimethylbutane	0.43	1.29	ND	1.52	4.56	ND	ND
142-29-0	Cyclopentene	0.52	1.55	ND	1.44	4.32	ND	ND
287-92-3	Cyclopentane	0.52	1.55	0.53	1.48	4.45	1.53	J
79-29-8	2,3-Dimethylbutane	0.43	1.29	ND	1.52	4.56	ND	ND
107-83-5	2-Methylpentane	0.43	1.29	ND	1.52	4.56	ND	ND
96-14-0	3-Methylpentane	0.43	1.29	2.44	1.52	4.56	8.63	
592-41-6	1-Hexene	0.43	1.29	ND	1.48	4.45	ND	ND
110-54-3	n-Hexane	0.43	1.29	ND	1.52	4.56	ND	ND
1120-62-3	3-Methylcyclopentene	0.43	1.29	ND	1.45	4.34	ND	ND
96-37-7	Methylcyclopentane	0.43	1.29	ND	1.48	4.45	ND	ND
108-08-7	2,4-Dimethylpentane	0.37	1.11	ND	1.51	4.54	ND	ND
71-43-2	Benzene	0.43	1.29	0.64	1.38	4.13	2.06	J
110-82-7	Cyclohexane	0.43	1.29	ND	1.48	4.45	ND	ND
591-76-4	2-Methylhexane	0.37	1.11	ND	1.51	4.54	ND	ND
565-59-3	2,3-Dimethylpentane	0.37	1.11	ND	1.51	4.54	ND	ND
589-34-4	3-Methylhexane	0.37	1.11	ND	1.51	4.54	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.32	0.97	ND	1.51	4.53	ND	ND
142-82-5	n-Heptane	0.37	1.11	ND	1.51	4.54	ND	ND
108-87-2	Methylcyclohexane	0.37	1.11	ND	1.48	4.45	ND	ND
592-13-2	2,5-Dimethylhexane	0.32	0.97	ND	1.51	4.53	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.97	ND	1.51	4.53	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.32	0.97	ND	1.51	4.53	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.37	1.11	ND	1.39	4.18	ND	ND
584-94-1	2,3-Dimethylhexane	0.32	0.97	ND	1.51	4.53	ND	ND
592-27-8	2-Methylheptane	0.32	0.97	ND	1.51	4.53	ND	ND
589-53-7	4-Methylheptane	0.32	0.97	ND	1.51	4.53	ND	ND
589-81-1	3-Methylheptane	0.32	0.97	ND	1.51	4.53	ND	ND
111-65-9	n-Octane	0.32	0.97	ND	1.51	4.53	ND	ND
100-41-4	Ethylbenzene	0.32	0.97	ND	1.40	4.21	ND	ND
108-38-3	m,p-xylene	0.32	0.97	ND	1.40	4.21	ND	ND
100-42-5	Styrene	0.32	0.97	ND	1.38	4.13	ND	ND
95-47-6	o-xylene	0.32	0.97	ND	1.40	4.21	ND	ND
111-84-2	n-Nonane	0.29	0.86	ND	1.51	4.53	ND	ND
98-82-8	i-Propylbenzene	0.29	0.86	ND	1.41	4.24	ND	ND
103-65-1	n-propylbenzene	0.29	0.86	ND	1.41	4.24	ND	ND
620-14-4	3-Ethyltoluene	0.29	0.86	ND	1.41	4.24	ND	ND
622-96-8	4-Ethyltoluene	0.29	0.86	ND	1.41	4.24	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.29	0.86	ND	1.41	4.24	ND	ND
611-14-3	2-Ethyltoluene	0.29	0.86	ND	1.41	4.24	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	0.86	ND	1.41	4.24	ND	ND
124-18-5	n-Decane	0.26	0.77	ND	1.51	4.52	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.29	0.86	ND	1.41	4.24	ND	ND
141-93-5	1,3-Diethylbenzene	0.26	0.77	ND	1.42	4.26	ND	ND
105-05-5	1,4-Diethylbenzene	0.26	0.77	ND	1.42	4.26	ND	ND
104-51-8	n-Butylbenzene	0.26	0.77	ND	1.42	4.26	ND	ND
1120-21-4	Undecane	0.23	0.70	ND	1.50	4.51	ND	ND
91-20-3	Naphthalene	0.26	0.77	ND	1.36	4.07	ND	ND
112-40-3	Dodecane	0.22	0.65	ND	1.50	4.51	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.68	29.05	22.88	34.21	102.62	80.82	J
TNMHC - C1	Total Non-Methane Hydrocarbons	58.09	174.28	137.26	38.09	114.28	90.01	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 34

File Name: 2510034A
Description: T-216
Canister: 896
QC_Batch: 040125-GCK

Date Sampled: 03/20/25 **Time:** 12:46
Date Analyzed: 04/01/25 **Time:** 19:35
Can Factor: 1.38
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.38	4.15	ND	1.59	4.78	ND	ND
74-86-2	Acetylene	1.38	4.15	ND	1.47	4.42	ND	ND
74-84-0	Ethane	1.38	4.15	2.42	1.71	5.12	2.99	J
115-07-1	Propene	0.92	2.77	ND	1.59	4.77	ND	ND
74-98-6	Propane	0.92	2.77	ND	1.67	5.00	ND	ND
75-28-5	i-Butane	0.69	2.07	ND	1.65	4.94	ND	ND
106-98-9	1-Butene	0.69	2.07	0.80	1.59	4.77	1.83	J
106-97-8	n-Butane	0.69	2.07	1.27	1.65	4.94	3.02	J
624-64-6	t-2-Butene	0.69	2.07	ND	1.59	4.77	ND	ND
590-18-1	c-2-Butene	0.69	2.07	ND	1.59	4.77	ND	ND
78-78-4	i-Pentane	0.55	1.66	ND	1.64	4.91	ND	ND
109-67-1	1-Pentene	0.55	1.66	ND	1.59	4.77	ND	ND
109-66-0	n-Pentane	0.55	1.66	ND	1.63	4.90	ND	ND
646-04-8	t-2-Pentene	0.55	1.66	ND	1.59	4.77	ND	ND
627-20-3	c-2-Pentene	0.55	1.66	ND	1.59	4.77	ND	ND
75-83-2	2,2-Dimethylbutane	0.46	1.38	ND	1.63	4.89	ND	ND
142-29-0	Cyclopentene	0.55	1.66	ND	1.54	4.63	ND	ND
287-92-3	Cyclopentane	0.55	1.66	0.60	1.59	4.77	1.71	J
79-29-8	2,3-Dimethylbutane	0.46	1.38	ND	1.63	4.89	ND	ND
107-83-5	2-Methylpentane	0.46	1.38	ND	1.63	4.89	ND	ND
96-14-0	3-Methylpentane	0.46	1.38	ND	1.63	4.89	ND	ND
592-41-6	1-Hexene	0.46	1.38	ND	1.59	4.77	ND	ND
110-54-3	n-Hexane	0.46	1.38	ND	1.63	4.89	ND	ND
1120-62-3	3-Methylcyclopentene	0.46	1.38	ND	1.55	4.65	ND	ND
96-37-7	Methylcyclopentane	0.46	1.38	ND	1.59	4.77	ND	ND
108-08-7	2,4-Dimethylpentane	0.40	1.19	ND	1.62	4.87	ND	ND
71-43-2	Benzene	0.46	1.38	ND	1.48	4.43	ND	ND
110-82-7	Cyclohexane	0.46	1.38	ND	1.59	4.77	ND	ND
591-76-4	2-Methylhexane	0.40	1.19	ND	1.62	4.87	ND	ND
565-59-3	2,3-Dimethylpentane	0.40	1.19	ND	1.62	4.87	ND	ND
589-34-4	3-Methylhexane	0.40	1.19	ND	1.62	4.87	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.35	1.04	ND	1.62	4.85	ND	ND
142-82-5	n-Heptane	0.40	1.19	ND	1.62	4.87	ND	ND
108-87-2	Methylcyclohexane	0.40	1.19	ND	1.59	4.77	ND	ND
592-13-2	2,5-Dimethylhexane	0.35	1.04	ND	1.62	4.85	ND	ND
589-43-5	2,4-Dimethylhexane	0.35	1.04	ND	1.62	4.85	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.35	1.04	ND	1.62	4.85	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.40	1.19	ND	1.49	4.47	ND	ND
584-94-1	2,3-Dimethylhexane	0.35	1.04	ND	1.62	4.85	ND	ND
592-27-8	2-Methylheptane	0.35	1.04	ND	1.62	4.85	ND	ND
589-53-7	4-Methylheptane	0.35	1.04	ND	1.62	4.85	ND	ND
589-81-1	3-Methylheptane	0.35	1.04	ND	1.62	4.85	ND	ND
111-65-9	n-Octane	0.35	1.04	ND	1.62	4.85	ND	ND
100-41-4	Ethylbenzene	0.35	1.04	ND	1.50	4.51	ND	ND
108-38-3	m,p-xylene	0.35	1.04	ND	1.50	4.51	ND	ND
100-42-5	Styrene	0.35	1.04	ND	1.48	4.43	ND	ND
95-47-6	o-xylene	0.35	1.04	ND	1.50	4.51	ND	ND
111-84-2	n-Nonane	0.31	0.92	ND	1.62	4.85	ND	ND
98-82-8	i-Propylbenzene	0.31	0.92	ND	1.51	4.54	ND	ND
103-65-1	n-propylbenzene	0.31	0.92	ND	1.51	4.54	ND	ND
620-14-4	3-Ethyltoluene	0.31	0.92	ND	1.51	4.54	ND	ND
622-96-8	4-Ethyltoluene	0.31	0.92	ND	1.51	4.54	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.31	0.92	ND	1.51	4.54	ND	ND
611-14-3	2-Ethyltoluene	0.31	0.92	ND	1.51	4.54	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.31	0.92	ND	1.51	4.54	ND	ND
124-18-5	n-Decane	0.28	0.83	ND	1.61	4.84	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.31	0.92	ND	1.51	4.54	ND	ND
141-93-5	1,3-Diethylbenzene	0.28	0.83	ND	1.52	4.56	ND	ND
105-05-5	1,4-Diethylbenzene	0.28	0.83	ND	1.52	4.56	ND	ND
104-51-8	n-Butylbenzene	0.28	0.83	ND	1.52	4.56	ND	ND
1120-21-4	Undecane	0.25	0.75	ND	1.61	4.83	ND	ND
91-20-3	Naphthalene	0.28	0.83	ND	1.45	4.36	ND	ND
112-40-3	Dodecane	0.23	0.69	ND	1.61	4.83	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	10.37	31.12	ND	36.64	109.92	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	62.23	186.69	ND	40.81	122.42	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 35

File Name: 2510035A
Description: T-217
Canister: 634
QC_Batch: 040325-GCK

Date Sampled: 03/20/25 **Time:** 12:48
Date Analyzed: 04/03/25 **Time:** 12:54
Can Factor: 1.27
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.27	3.81	ND	1.46	4.39	ND	ND
74-86-2	Acetylene	1.27	3.81	ND	1.35	4.06	ND	ND
74-84-0	Ethane	1.27	3.81	2.38	1.57	4.70	2.93	J
115-07-1	Propene	0.85	2.54	ND	1.46	4.39	ND	ND
74-98-6	Propane	0.85	2.54	1.55	1.53	4.60	2.80	J
75-28-5	i-Butane	0.64	1.91	ND	1.51	4.54	ND	ND
106-98-9	1-Butene	0.64	1.91	ND	1.46	4.38	ND	ND
106-97-8	n-Butane	0.64	1.91	ND	1.51	4.54	ND	ND
624-64-6	t-2-Butene	0.64	1.91	ND	1.46	4.38	ND	ND
590-18-1	c-2-Butene	0.64	1.91	ND	1.46	4.38	ND	ND
78-78-4	i-Pentane	0.51	1.53	ND	1.50	4.51	ND	ND
109-67-1	1-Pentene	0.51	1.53	ND	1.46	4.38	ND	ND
109-66-0	n-Pentane	0.51	1.53	ND	1.50	4.51	ND	ND
646-04-8	t-2-Pentene	0.51	1.53	ND	1.46	4.38	ND	ND
627-20-3	c-2-Pentene	0.51	1.53	ND	1.46	4.38	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.27	ND	1.50	4.49	ND	ND
142-29-0	Cyclopentene	0.51	1.53	ND	1.42	4.26	ND	ND
287-92-3	Cyclopentane	0.51	1.53	ND	1.46	4.38	ND	ND
79-29-8	2,3-Dimethylbutane	0.42	1.27	ND	1.50	4.49	ND	ND
107-83-5	2-Methylpentane	0.42	1.27	ND	1.50	4.49	ND	ND
96-14-0	3-Methylpentane	0.42	1.27	1.26	1.50	4.49	4.46	J
592-41-6	1-Hexene	0.42	1.27	ND	1.46	4.39	ND	ND
110-54-3	n-Hexane	0.42	1.27	ND	1.50	4.49	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.27	ND	1.43	4.28	ND	ND
96-37-7	Methylcyclopentane	0.42	1.27	ND	1.46	4.39	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.09	ND	1.49	4.47	ND	ND
71-43-2	Benzene	0.42	1.27	0.66	1.36	4.07	2.10	J
110-82-7	Cyclohexane	0.42	1.27	ND	1.46	4.39	ND	ND
591-76-4	2-Methylhexane	0.36	1.09	ND	1.49	4.47	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.09	ND	1.49	4.47	ND	ND
589-34-4	3-Methylhexane	0.36	1.09	ND	1.49	4.47	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.32	0.95	ND	1.49	4.46	ND	ND
142-82-5	n-Heptane	0.36	1.09	ND	1.49	4.47	ND	ND
108-87-2	Methylcyclohexane	0.36	1.09	ND	1.46	4.39	ND	ND
592-13-2	2,5-Dimethylhexane	0.32	0.95	ND	1.49	4.46	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.95	ND	1.49	4.46	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.32	0.95	ND	1.49	4.46	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.09	ND	1.37	4.11	ND	ND
584-94-1	2,3-Dimethylhexane	0.32	0.95	ND	1.49	4.46	ND	ND
592-27-8	2-Methylheptane	0.32	0.95	ND	1.49	4.46	ND	ND
589-53-7	4-Methylheptane	0.32	0.95	ND	1.49	4.46	ND	ND
589-81-1	3-Methylheptane	0.32	0.95	ND	1.49	4.46	ND	ND
111-65-9	n-Octane	0.32	0.95	ND	1.49	4.46	ND	ND
100-41-4	Ethylbenzene	0.32	0.95	ND	1.38	4.15	ND	ND
108-38-3	m,p-xylene	0.32	0.95	ND	1.38	4.15	ND	ND
100-42-5	Styrene	0.32	0.95	ND	1.36	4.07	ND	ND
95-47-6	o-xylene	0.32	0.95	ND	1.38	4.15	ND	ND
111-84-2	n-Nonane	0.28	0.85	ND	1.49	4.46	ND	ND
98-82-8	i-Propylbenzene	0.28	0.85	ND	1.39	4.18	ND	ND
103-65-1	n-propylbenzene	0.28	0.85	ND	1.39	4.18	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.85	ND	1.39	4.18	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.85	ND	1.39	4.18	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.85	ND	1.39	4.18	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.85	ND	1.39	4.18	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.85	ND	1.39	4.18	ND	ND
124-18-5	n-Decane	0.25	0.76	ND	1.48	4.45	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.85	ND	1.39	4.18	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.76	ND	1.40	4.20	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.76	ND	1.40	4.20	ND	ND
104-51-8	n-Butylbenzene	0.25	0.76	ND	1.40	4.20	ND	ND
1120-21-4	Undecane	0.23	0.69	ND	1.48	4.44	ND	ND
91-20-3	Naphthalene	0.25	0.76	ND	1.34	4.01	ND	ND
112-40-3	Dodecane	0.21	0.64	ND	1.48	4.44	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.53	28.60	28.86	33.68	101.05	101.96	
TNMHC - C1	Total Non-Methane Hydrocarbons	57.21	171.62	173.17	37.51	112.54	113.55	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 36

File Name: 2510036A
Description: T-218
Canister: 698
QC_Batch: 040125-GCK

Date Sampled: 03/20/25 **Time:** 12:42
Date Analyzed: 04/01/25 **Time:** 20:23
Can Factor: 1.27
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.27	3.80	ND	1.46	4.38	ND	ND
74-86-2	Acetylene	1.27	3.80	ND	1.35	4.05	ND	ND
74-84-0	Ethane	1.27	3.80	261.79	1.56	4.69	322.94	
115-07-1	Propene	0.84	2.53	ND	1.46	4.37	ND	ND
74-98-6	Propane	0.84	2.53	1,458.73	1.53	4.58	2,636.48	
75-28-5	i-Butane	0.63	1.90	4.99	1.51	4.53	11.89	
106-98-9	1-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
106-97-8	n-Butane	0.63	1.90	1,050.07	1.51	4.53	2,500.36	
624-64-6	t-2-Butene	0.63	1.90	1.94	1.46	4.37	4.46	
590-18-1	c-2-Butene	0.63	1.90	6.12	1.46	4.37	14.06	
78-78-4	i-Pentane	0.51	1.52	323.12	1.50	4.50	956.13	
109-67-1	1-Pentene	0.51	1.52	ND	1.46	4.37	ND	ND
109-66-0	n-Pentane	0.51	1.52	65.13	1.50	4.49	192.45	
646-04-8	t-2-Pentene	0.51	1.52	3.57	1.46	4.37	10.26	
627-20-3	c-2-Pentene	0.51	1.52	0.69	1.46	4.37	1.97	J
75-83-2	2,2-Dimethylbutane	0.42	1.27	49.55	1.49	4.48	175.04	
142-29-0	Cyclopentene	0.51	1.52	ND	1.41	4.24	ND	ND
287-92-3	Cyclopentane	0.51	1.52	10.67	1.46	4.37	30.67	
79-29-8	2,3-Dimethylbutane	0.42	1.27	ND	1.49	4.48	ND	ND
107-83-5	2-Methylpentane	0.42	1.27	10.50	1.49	4.48	37.08	
96-14-0	3-Methylpentane	0.42	1.27	5.26	1.49	4.48	18.59	
592-41-6	1-Hexene	0.42	1.27	ND	1.46	4.37	ND	ND
110-54-3	n-Hexane	0.42	1.27	3.69	1.49	4.48	13.03	
1120-62-3	3-Methylcyclopentene	0.42	1.27	ND	1.42	4.26	ND	ND
96-37-7	Methylcyclopentane	0.42	1.27	ND	1.46	4.37	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.09	2.02	1.49	4.46	8.31	
71-43-2	Benzene	0.42	1.27	2.95	1.35	4.06	9.46	
110-82-7	Cyclohexane	0.42	1.27	5.22	1.46	4.37	18.00	
591-76-4	2-Methylhexane	0.36	1.09	1.74	1.49	4.46	7.14	
565-59-3	2,3-Dimethylpentane	0.36	1.09	3.58	1.49	4.46	14.71	
589-34-4	3-Methylhexane	0.36	1.09	2.57	1.49	4.46	10.56	
540-84-1	2,2,4-Trimethylpentane	0.32	0.95	9.91	1.48	4.45	46.36	
142-82-5	n-Heptane	0.36	1.09	ND	1.49	4.46	ND	ND
108-87-2	Methylcyclohexane	0.36	1.09	1.03	1.46	4.37	4.13	J
592-13-2	2,5-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.95	1.10	1.48	4.45	5.17	
565-75-3	2,3,4-Trimethylpentane	0.32	0.95	ND	1.48	4.45	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.09	ND	1.37	4.10	ND	ND
584-94-1	2,3-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
592-27-8	2-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
589-53-7	4-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
589-81-1	3-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
111-65-9	n-Octane	0.32	0.95	ND	1.48	4.45	ND	ND
100-41-4	Ethylbenzene	0.32	0.95	ND	1.38	4.14	ND	ND
108-38-3	m,p-xylene	0.32	0.95	ND	1.38	4.14	ND	ND
100-42-5	Styrene	0.32	0.95	ND	1.35	4.06	ND	ND
95-47-6	o-xylene	0.32	0.95	ND	1.38	4.14	ND	ND
111-84-2	n-Nonane	0.28	0.84	ND	1.48	4.44	ND	ND
98-82-8	i-Propylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
103-65-1	n-propylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
124-18-5	n-Decane	0.25	0.76	ND	1.48	4.43	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
104-51-8	n-Butylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
1120-21-4	Undecane	0.23	0.69	ND	1.48	4.43	ND	ND
91-20-3	Naphthalene	0.25	0.76	ND	1.33	4.00	ND	ND
112-40-3	Dodecane	0.21	0.63	ND	1.47	4.42	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.51	28.52	2,543.51	33.58	100.74	8,985.68	
TNMHC - C1	Total Non-Methane Hydrocarbons	57.03	171.09	15,261.06	37.40	112.19	10,007.25	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

SDG: 225100
Analytical Method: TO-14FID
Laboratory Number: 37

File Name: 2510037A
Description: T-301
Canister: 638
QC_Batch: 040125-GCK

Date Sampled: 03/21/25 **Time:** 7:58
Date Analyzed: 04/01/25 **Time:** 21:09
Can Factor: 1.19
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.19	3.57	ND	1.37	4.12	ND	ND
74-86-2	Acetylene	1.19	3.57	ND	1.27	3.81	ND	ND
74-84-0	Ethane	1.19	3.57	2.68	1.47	4.41	3.31	J
115-07-1	Propene	0.79	2.38	ND	1.37	4.11	ND	ND
74-98-6	Propane	0.79	2.38	1.09	1.44	4.31	1.97	J
75-28-5	i-Butane	0.60	1.79	ND	1.42	4.25	ND	ND
106-98-9	1-Butene	0.60	1.79	0.71	1.37	4.11	1.63	J
106-97-8	n-Butane	0.60	1.79	ND	1.42	4.25	ND	ND
624-64-6	t-2-Butene	0.60	1.79	ND	1.37	4.11	ND	ND
590-18-1	c-2-Butene	0.60	1.79	ND	1.37	4.11	ND	ND
78-78-4	i-Pentane	0.48	1.43	ND	1.41	4.23	ND	ND
109-67-1	1-Pentene	0.48	1.43	ND	1.37	4.11	ND	ND
109-66-0	n-Pentane	0.48	1.43	ND	1.41	4.22	ND	ND
646-04-8	t-2-Pentene	0.48	1.43	ND	1.37	4.11	ND	ND
627-20-3	c-2-Pentene	0.48	1.43	ND	1.37	4.11	ND	ND
75-83-2	2,2-Dimethylbutane	0.40	1.19	ND	1.40	4.21	ND	ND
142-29-0	Cyclopentene	0.48	1.43	ND	1.33	3.99	ND	ND
287-92-3	Cyclopentane	0.48	1.43	0.52	1.37	4.11	1.49	J
79-29-8	2,3-Dimethylbutane	0.40	1.19	ND	1.40	4.21	ND	ND
107-83-5	2-Methylpentane	0.40	1.19	ND	1.40	4.21	ND	ND
96-14-0	3-Methylpentane	0.40	1.19	ND	1.40	4.21	ND	ND
592-41-6	1-Hexene	0.40	1.19	ND	1.37	4.11	ND	ND
110-54-3	n-Hexane	0.40	1.19	ND	1.40	4.21	ND	ND
1120-62-3	3-Methylcyclopentene	0.40	1.19	ND	1.34	4.01	ND	ND
96-37-7	Methylcyclopentane	0.40	1.19	ND	1.37	4.11	ND	ND
108-08-7	2,4-Dimethylpentane	0.34	1.02	ND	1.40	4.19	ND	ND
71-43-2	Benzene	0.40	1.19	ND	1.27	3.81	ND	ND
110-82-7	Cyclohexane	0.40	1.19	ND	1.37	4.11	ND	ND
591-76-4	2-Methylhexane	0.34	1.02	ND	1.40	4.19	ND	ND
565-59-3	2,3-Dimethylpentane	0.34	1.02	ND	1.40	4.19	ND	ND
589-34-4	3-Methylhexane	0.34	1.02	ND	1.40	4.19	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.89	ND	1.39	4.18	ND	ND
142-82-5	n-Heptane	0.34	1.02	ND	1.40	4.19	ND	ND
108-87-2	Methylcyclohexane	0.34	1.02	ND	1.37	4.11	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.89	ND	1.39	4.18	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.89	ND	1.39	4.18	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.89	ND	1.39	4.18	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.34	1.02	ND	1.28	3.85	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.89	ND	1.39	4.18	ND	ND
592-27-8	2-Methylheptane	0.30	0.89	ND	1.39	4.18	ND	ND
589-53-7	4-Methylheptane	0.30	0.89	ND	1.39	4.18	ND	ND
589-81-1	3-Methylheptane	0.30	0.89	ND	1.39	4.18	ND	ND
111-65-9	n-Octane	0.30	0.89	ND	1.39	4.18	ND	ND
100-41-4	Ethylbenzene	0.30	0.89	ND	1.30	3.89	ND	ND
108-38-3	m,p-xylene	0.30	0.89	ND	1.30	3.89	ND	ND
100-42-5	Styrene	0.30	0.89	ND	1.27	3.81	ND	ND
95-47-6	o-xylene	0.30	0.89	ND	1.30	3.89	ND	ND
111-84-2	n-Nonane	0.26	0.79	ND	1.39	4.18	ND	ND
98-82-8	i-Propylbenzene	0.26	0.79	ND	1.30	3.91	ND	ND
103-65-1	n-propylbenzene	0.26	0.79	ND	1.30	3.91	ND	ND
620-14-4	3-Ethyltoluene	0.26	0.79	ND	1.30	3.91	ND	ND
622-96-8	4-Ethyltoluene	0.26	0.79	ND	1.30	3.91	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.26	0.79	ND	1.30	3.91	ND	ND
611-14-3	2-Ethyltoluene	0.26	0.79	ND	1.30	3.91	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.26	0.79	ND	1.30	3.91	ND	ND
124-18-5	n-Decane	0.24	0.71	ND	1.39	4.17	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.26	0.79	ND	1.30	3.91	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.71	ND	1.31	3.93	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.71	ND	1.31	3.93	ND	ND
104-51-8	n-Butylbenzene	0.24	0.71	ND	1.31	3.93	ND	ND
1120-21-4	Undecane	0.22	0.65	ND	1.39	4.16	ND	ND
91-20-3	Naphthalene	0.24	0.71	ND	1.25	3.75	ND	ND
112-40-3	Dodecane	0.20	0.60	ND	1.39	4.16	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	8.93	26.80	16.60	31.56	94.67	58.64	J
TNMHC - C1	Total Non-Methane Hydrocarbons	53.60	160.79	99.58	35.15	105.44	65.30	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 38

File Name: 2510038A
Description: T-302
Canister: 857
QC_Batch: 040225-GCK

Date Sampled: 03/21/25 **Time:** 8:04
Date Analyzed: 04/02/25 **Time:** 11:25
Can Factor: 1.19
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.19	3.56	ND	1.37	4.10	ND	ND
74-86-2	Acetylene	1.19	3.56	ND	1.27	3.80	ND	ND
74-84-0	Ethane	1.19	3.56	4.40	1.47	4.40	5.42	
115-07-1	Propene	0.79	2.38	ND	1.37	4.10	ND	ND
74-98-6	Propane	0.79	2.38	1.67	1.43	4.29	3.01	J
75-28-5	i-Butane	0.59	1.78	ND	1.41	4.24	ND	ND
106-98-9	1-Butene	0.59	1.78	ND	1.37	4.10	ND	ND
106-97-8	n-Butane	0.59	1.78	ND	1.41	4.24	ND	ND
624-64-6	t-2-Butene	0.59	1.78	ND	1.37	4.10	ND	ND
590-18-1	c-2-Butene	0.59	1.78	ND	1.37	4.10	ND	ND
78-78-4	i-Pentane	0.48	1.43	ND	1.41	4.22	ND	ND
109-67-1	1-Pentene	0.48	1.43	ND	1.37	4.10	ND	ND
109-66-0	n-Pentane	0.48	1.43	ND	1.40	4.21	ND	ND
646-04-8	t-2-Pentene	0.48	1.43	ND	1.37	4.10	ND	ND
627-20-3	c-2-Pentene	0.48	1.43	ND	1.37	4.10	ND	ND
75-83-2	2,2-Dimethylbutane	0.40	1.19	ND	1.40	4.20	ND	ND
142-29-0	Cyclopentene	0.48	1.43	ND	1.33	3.98	ND	ND
287-92-3	Cyclopentane	0.48	1.43	ND	1.37	4.10	ND	ND
79-29-8	2,3-Dimethylbutane	0.40	1.19	ND	1.40	4.20	ND	ND
107-83-5	2-Methylpentane	0.40	1.19	ND	1.40	4.20	ND	ND
96-14-0	3-Methylpentane	0.40	1.19	0.55	1.40	4.20	1.93	J
592-41-6	1-Hexene	0.40	1.19	ND	1.37	4.10	ND	ND
110-54-3	n-Hexane	0.40	1.19	ND	1.40	4.20	ND	ND
1120-62-3	3-Methylcyclopentene	0.40	1.19	ND	1.33	4.00	ND	ND
96-37-7	Methylcyclopentane	0.40	1.19	ND	1.37	4.10	ND	ND
108-08-7	2,4-Dimethylpentane	0.34	1.02	ND	1.39	4.18	ND	ND
71-43-2	Benzene	0.40	1.19	ND	1.27	3.80	ND	ND
110-82-7	Cyclohexane	0.40	1.19	ND	1.37	4.10	ND	ND
591-76-4	2-Methylhexane	0.34	1.02	ND	1.39	4.18	ND	ND
565-59-3	2,3-Dimethylpentane	0.34	1.02	ND	1.39	4.18	ND	ND
589-34-4	3-Methylhexane	0.34	1.02	ND	1.39	4.18	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.89	ND	1.39	4.17	ND	ND
142-82-5	n-Heptane	0.34	1.02	ND	1.39	4.18	ND	ND
108-87-2	Methylcyclohexane	0.34	1.02	ND	1.37	4.10	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.89	ND	1.39	4.17	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.89	ND	1.39	4.17	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.89	ND	1.39	4.17	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.34	1.02	ND	1.28	3.84	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.89	ND	1.39	4.17	ND	ND
592-27-8	2-Methylheptane	0.30	0.89	ND	1.39	4.17	ND	ND
589-53-7	4-Methylheptane	0.30	0.89	ND	1.39	4.17	ND	ND
589-81-1	3-Methylheptane	0.30	0.89	ND	1.39	4.17	ND	ND
111-65-9	n-Octane	0.30	0.89	ND	1.39	4.17	ND	ND
100-41-4	Ethylbenzene	0.30	0.89	ND	1.29	3.88	ND	ND
108-38-3	m,p-xylene	0.30	0.89	ND	1.29	3.88	ND	ND
100-42-5	Styrene	0.30	0.89	ND	1.27	3.81	ND	ND
95-47-6	o-xylene	0.30	0.89	ND	1.29	3.88	ND	ND
111-84-2	n-Nonane	0.26	0.79	ND	1.39	4.16	ND	ND
98-82-8	i-Propylbenzene	0.26	0.79	ND	1.30	3.90	ND	ND
103-65-1	n-propylbenzene	0.26	0.79	ND	1.30	3.90	ND	ND
620-14-4	3-Ethyltoluene	0.26	0.79	ND	1.30	3.90	ND	ND
622-96-8	4-Ethyltoluene	0.26	0.79	ND	1.30	3.90	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.26	0.79	ND	1.30	3.90	ND	ND
611-14-3	2-Ethyltoluene	0.26	0.79	ND	1.30	3.90	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.26	0.79	ND	1.30	3.90	ND	ND
124-18-5	n-Decane	0.24	0.71	ND	1.39	4.16	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.26	0.79	ND	1.30	3.90	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.71	ND	1.31	3.92	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.71	ND	1.31	3.92	ND	ND
104-51-8	n-Butylbenzene	0.24	0.71	ND	1.31	3.92	ND	ND
1120-21-4	Undecane	0.22	0.65	ND	1.38	4.15	ND	ND
91-20-3	Naphthalene	0.24	0.71	ND	1.25	3.75	ND	ND
112-40-3	Dodecane	0.20	0.59	ND	1.38	4.15	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	8.91	26.73	ND	31.48	94.43	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	53.46	160.38	ND	35.06	105.17	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 39

File Name: 2510039A
Description: T-303
Canister: 552
QC_Batch: 040225-GCK

Date Sampled: 03/21/25 **Time:** 8:05
Date Analyzed: 04/02/25 **Time:** 12:14
Can Factor: 1.21
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.21	3.62	1.43	1.39	4.17	1.65	J
74-86-2	Acetylene	1.21	3.62	ND	1.29	3.86	ND	ND
74-84-0	Ethane	1.21	3.62	5.03	1.49	4.46	6.21	
115-07-1	Propene	0.80	2.41	ND	1.39	4.16	ND	ND
74-98-6	Propane	0.80	2.41	1.46	1.45	4.36	2.63	J
75-28-5	i-Butane	0.60	1.81	ND	1.44	4.31	ND	ND
106-98-9	1-Butene	0.60	1.81	ND	1.39	4.16	ND	ND
106-97-8	n-Butane	0.60	1.81	ND	1.44	4.31	ND	ND
624-64-6	t-2-Butene	0.60	1.81	ND	1.39	4.16	ND	ND
590-18-1	c-2-Butene	0.60	1.81	ND	1.39	4.16	ND	ND
78-78-4	i-Pentane	0.48	1.45	ND	1.43	4.28	ND	ND
109-67-1	1-Pentene	0.48	1.45	ND	1.39	4.16	ND	ND
109-66-0	n-Pentane	0.48	1.45	2.24	1.43	4.28	6.63	
646-04-8	t-2-Pentene	0.48	1.45	ND	1.39	4.16	ND	ND
627-20-3	c-2-Pentene	0.48	1.45	ND	1.39	4.16	ND	ND
75-83-2	2,2-Dimethylbutane	0.40	1.21	ND	1.42	4.26	ND	ND
142-29-0	Cyclopentene	0.48	1.45	ND	1.35	4.04	ND	ND
287-92-3	Cyclopentane	0.48	1.45	ND	1.39	4.16	ND	ND
79-29-8	2,3-Dimethylbutane	0.40	1.21	ND	1.42	4.26	ND	ND
107-83-5	2-Methylpentane	0.40	1.21	ND	1.42	4.26	ND	ND
96-14-0	3-Methylpentane	0.40	1.21	0.77	1.42	4.26	2.73	J
592-41-6	1-Hexene	0.40	1.21	ND	1.39	4.16	ND	ND
110-54-3	n-Hexane	0.40	1.21	ND	1.42	4.26	ND	ND
1120-62-3	3-Methylcyclopentene	0.40	1.21	ND	1.35	4.06	ND	ND
96-37-7	Methylcyclopentane	0.40	1.21	ND	1.39	4.16	ND	ND
108-08-7	2,4-Dimethylpentane	0.34	1.03	ND	1.42	4.25	ND	ND
71-43-2	Benzene	0.40	1.21	0.56	1.29	3.86	1.79	J
110-82-7	Cyclohexane	0.40	1.21	ND	1.39	4.16	ND	ND
591-76-4	2-Methylhexane	0.34	1.03	ND	1.42	4.25	ND	ND
565-59-3	2,3-Dimethylpentane	0.34	1.03	ND	1.42	4.25	ND	ND
589-34-4	3-Methylhexane	0.34	1.03	ND	1.42	4.25	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.90	ND	1.41	4.23	ND	ND
142-82-5	n-Heptane	0.34	1.03	ND	1.42	4.25	ND	ND
108-87-2	Methylcyclohexane	0.34	1.03	ND	1.39	4.16	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.90	ND	1.41	4.23	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.90	ND	1.41	4.23	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.90	ND	1.41	4.23	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.34	1.03	ND	1.30	3.90	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.90	ND	1.41	4.23	ND	ND
592-27-8	2-Methylheptane	0.30	0.90	ND	1.41	4.23	ND	ND
589-53-7	4-Methylheptane	0.30	0.90	ND	1.41	4.23	ND	ND
589-81-1	3-Methylheptane	0.30	0.90	ND	1.41	4.23	ND	ND
111-65-9	n-Octane	0.30	0.90	ND	1.41	4.23	ND	ND
100-41-4	Ethylbenzene	0.30	0.90	ND	1.31	3.94	ND	ND
108-38-3	m,p-xylene	0.30	0.90	ND	1.31	3.94	ND	ND
100-42-5	Styrene	0.30	0.90	ND	1.29	3.86	ND	ND
95-47-6	o-xylene	0.30	0.90	ND	1.31	3.94	ND	ND
111-84-2	n-Nonane	0.27	0.80	ND	1.41	4.23	ND	ND
98-82-8	i-Propylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
103-65-1	n-propylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.80	ND	1.32	3.96	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.80	ND	1.32	3.96	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.80	ND	1.32	3.96	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
124-18-5	n-Decane	0.24	0.72	ND	1.41	4.22	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.72	ND	1.33	3.98	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.72	ND	1.33	3.98	ND	ND
104-51-8	n-Butylbenzene	0.24	0.72	ND	1.33	3.98	ND	ND
1120-21-4	Undecane	0.22	0.66	ND	1.40	4.21	ND	ND
91-20-3	Naphthalene	0.24	0.72	ND	1.27	3.80	ND	ND
112-40-3	Dodecane	0.20	0.60	ND	1.40	4.21	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.05	27.14	11.85	31.96	95.89	41.85	J
TNMHC - C1	Total Non-Methane Hydrocarbons	54.28	162.85	71.07	35.60	106.79	46.61	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 40

File Name: 2510040A
Description: T-304
Canister: 529
QC_Batch: 040325-GCK

Date Sampled: 03/21/25 **Time:** 7:58
Date Analyzed: 04/03/25 **Time:** 13:49
Can Factor: 1.21
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.21	3.62	6.37	1.39	4.17	7.33	
74-86-2	Acetylene	1.21	3.62	ND	1.29	3.86	ND	ND
74-84-0	Ethane	1.21	3.62	9.23	1.49	4.46	11.39	
115-07-1	Propene	0.80	2.41	15.27	1.39	4.16	26.35	
74-98-6	Propane	0.80	2.41	10.37	1.45	4.36	18.75	
75-28-5	i-Butane	0.60	1.81	ND	1.44	4.31	ND	ND
106-98-9	1-Butene	0.60	1.81	ND	1.39	4.16	ND	ND
106-97-8	n-Butane	0.60	1.81	4.53	1.44	4.31	10.78	
624-64-6	t-2-Butene	0.60	1.81	ND	1.39	4.16	ND	ND
590-18-1	c-2-Butene	0.60	1.81	ND	1.39	4.16	ND	ND
78-78-4	i-Pentane	0.48	1.45	1.95	1.43	4.28	5.77	
109-67-1	1-Pentene	0.48	1.45	ND	1.39	4.16	ND	ND
109-66-0	n-Pentane	0.48	1.45	1.39	1.43	4.28	4.12	J
646-04-8	t-2-Pentene	0.48	1.45	ND	1.39	4.16	ND	ND
627-20-3	c-2-Pentene	0.48	1.45	ND	1.39	4.16	ND	ND
75-83-2	2,2-Dimethylbutane	0.40	1.21	ND	1.42	4.26	ND	ND
142-29-0	Cyclopentene	0.48	1.45	ND	1.35	4.04	ND	ND
287-92-3	Cyclopentane	0.48	1.45	ND	1.39	4.16	ND	ND
79-29-8	2,3-Dimethylbutane	0.40	1.21	ND	1.42	4.26	ND	ND
107-83-5	2-Methylpentane	0.40	1.21	ND	1.42	4.26	ND	ND
96-14-0	3-Methylpentane	0.40	1.21	ND	1.42	4.26	ND	ND
592-41-6	1-Hexene	0.40	1.21	ND	1.39	4.16	ND	ND
110-54-3	n-Hexane	0.40	1.21	ND	1.42	4.26	ND	ND
1120-62-3	3-Methylcyclopentene	0.40	1.21	ND	1.35	4.06	ND	ND
96-37-7	Methylcyclopentane	0.40	1.21	ND	1.39	4.16	ND	ND
108-08-7	2,4-Dimethylpentane	0.34	1.03	ND	1.42	4.25	ND	ND
71-43-2	Benzene	0.40	1.21	0.69	1.29	3.86	2.21	J
110-82-7	Cyclohexane	0.40	1.21	0.59	1.39	4.16	2.03	J
591-76-4	2-Methylhexane	0.34	1.03	0.35	1.42	4.25	1.46	J
565-59-3	2,3-Dimethylpentane	0.34	1.03	ND	1.42	4.25	ND	ND
589-34-4	3-Methylhexane	0.34	1.03	0.65	1.42	4.25	2.68	J
540-84-1	2,2,4-Trimethylpentane	0.30	0.90	0.34	1.41	4.23	1.61	J
142-82-5	n-Heptane	0.34	1.03	ND	1.42	4.25	ND	ND
108-87-2	Methylcyclohexane	0.34	1.03	0.80	1.39	4.16	3.20	J
592-13-2	2,5-Dimethylhexane	0.30	0.90	ND	1.41	4.23	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.90	ND	1.41	4.23	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.90	0.42	1.41	4.23	1.98	J

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.34	1.03	0.61	1.30	3.90	2.30	J
584-94-1	2,3-Dimethylhexane	0.30	0.90	ND	1.41	4.23	ND	ND
592-27-8	2-Methylheptane	0.30	0.90	ND	1.41	4.23	ND	ND
589-53-7	4-Methylheptane	0.30	0.90	ND	1.41	4.23	ND	ND
589-81-1	3-Methylheptane	0.30	0.90	ND	1.41	4.23	ND	ND
111-65-9	n-Octane	0.30	0.90	0.35	1.41	4.23	1.62	J
100-41-4	Ethylbenzene	0.30	0.90	ND	1.31	3.94	ND	ND
108-38-3	m,p-xylene	0.30	0.90	ND	1.31	3.94	ND	ND
100-42-5	Styrene	0.30	0.90	0.77	1.29	3.86	3.27	J
95-47-6	o-xylene	0.30	0.90	0.43	1.31	3.94	1.89	J
111-84-2	n-Nonane	0.27	0.80	ND	1.41	4.23	ND	ND
98-82-8	i-Propylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
103-65-1	n-propylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.80	ND	1.32	3.96	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.80	ND	1.32	3.96	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.80	ND	1.32	3.96	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
124-18-5	n-Decane	0.24	0.72	ND	1.41	4.22	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.72	ND	1.33	3.98	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.72	ND	1.33	3.98	ND	ND
104-51-8	n-Butylbenzene	0.24	0.72	ND	1.33	3.98	ND	ND
1120-21-4	Undecane	0.22	0.66	ND	1.40	4.21	ND	ND
91-20-3	Naphthalene	0.24	0.72	ND	1.27	3.80	ND	ND
112-40-3	Dodecane	0.20	0.60	ND	1.40	4.21	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.05	27.14	81.53	31.96	95.89	288.04	
TNMHC - C1	Total Non-Methane Hydrocarbons	54.28	162.85	489.21	35.60	106.79	320.79	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 41

File Name: 2510041A
Description: T-305
Canister: 660
QC_Batch: 040325-GCK

Date Sampled: 03/21/25 **Time:** 9:22
Date Analyzed: 04/03/25 **Time:** 14:52
Can Factor: 1.23
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.23	3.69	15.78	1.41	4.24	18.17	
74-86-2	Acetylene	1.23	3.69	ND	1.31	3.93	ND	ND
74-84-0	Ethane	1.23	3.69	15.82	1.52	4.55	19.52	
115-07-1	Propene	0.82	2.46	41.80	1.41	4.24	72.13	
74-98-6	Propane	0.82	2.46	359.52	1.48	4.44	649.78	
75-28-5	i-Butane	0.61	1.84	0.90	1.46	4.39	2.13	J
106-98-9	1-Butene	0.61	1.84	ND	1.41	4.24	ND	ND
106-97-8	n-Butane	0.61	1.84	96.90	1.46	4.39	230.73	
624-64-6	t-2-Butene	0.61	1.84	ND	1.41	4.24	ND	ND
590-18-1	c-2-Butene	0.61	1.84	ND	1.41	4.24	ND	ND
78-78-4	i-Pentane	0.49	1.47	58.79	1.45	4.36	173.96	
109-67-1	1-Pentene	0.49	1.47	8.36	1.41	4.24	24.02	
109-66-0	n-Pentane	0.49	1.47	23.35	1.45	4.36	69.01	
646-04-8	t-2-Pentene	0.49	1.47	2.99	1.41	4.24	8.59	
627-20-3	c-2-Pentene	0.49	1.47	ND	1.41	4.24	ND	ND
75-83-2	2,2-Dimethylbutane	0.41	1.23	5.85	1.45	4.34	20.65	
142-29-0	Cyclopentene	0.49	1.47	ND	1.37	4.11	ND	ND
287-92-3	Cyclopentane	0.49	1.47	4.77	1.41	4.24	13.70	
79-29-8	2,3-Dimethylbutane	0.41	1.23	ND	1.45	4.34	ND	ND
107-83-5	2-Methylpentane	0.41	1.23	6.25	1.45	4.34	22.08	
96-14-0	3-Methylpentane	0.41	1.23	11.87	1.45	4.34	41.94	
592-41-6	1-Hexene	0.41	1.23	ND	1.41	4.24	ND	ND
110-54-3	n-Hexane	0.41	1.23	6.82	1.45	4.34	24.09	
1120-62-3	3-Methylcyclopentene	0.41	1.23	1.34	1.38	4.13	4.52	
96-37-7	Methylcyclopentane	0.41	1.23	1.80	1.41	4.24	6.21	
108-08-7	2,4-Dimethylpentane	0.35	1.05	4.58	1.44	4.32	18.82	
71-43-2	Benzene	0.41	1.23	2.36	1.31	3.93	7.54	
110-82-7	Cyclohexane	0.41	1.23	12.00	1.41	4.24	41.42	
591-76-4	2-Methylhexane	0.35	1.05	6.41	1.44	4.32	26.34	
565-59-3	2,3-Dimethylpentane	0.35	1.05	5.98	1.44	4.32	24.58	
589-34-4	3-Methylhexane	0.35	1.05	10.96	1.44	4.32	45.03	
540-84-1	2,2,4-Trimethylpentane	0.31	0.92	8.05	1.44	4.31	37.67	
142-82-5	n-Heptane	0.35	1.05	8.78	1.44	4.32	36.05	
108-87-2	Methylcyclohexane	0.35	1.05	7.42	1.41	4.24	29.85	
592-13-2	2,5-Dimethylhexane	0.31	0.92	1.54	1.44	4.31	7.20	
589-43-5	2,4-Dimethylhexane	0.31	0.92	3.01	1.44	4.31	14.09	
565-75-3	2,3,4-Trimethylpentane	0.31	0.92	ND	1.44	4.31	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.05	4.99	1.32	3.97	18.82	
584-94-1	2,3-Dimethylhexane	0.31	0.92	2.00	1.44	4.31	9.34	
592-27-8	2-Methylheptane	0.31	0.92	1.60	1.44	4.31	7.48	
589-53-7	4-Methylheptane	0.31	0.92	3.33	1.44	4.31	15.60	
589-81-1	3-Methylheptane	0.31	0.92	2.11	1.44	4.31	9.89	
111-65-9	n-Octane	0.31	0.92	1.68	1.44	4.31	7.87	
100-41-4	Ethylbenzene	0.31	0.92	1.17	1.34	4.01	5.10	
108-38-3	m,p-xylene	0.31	0.92	5.16	1.34	4.01	22.46	
100-42-5	Styrene	0.31	0.92	0.73	1.31	3.93	3.11	J
95-47-6	o-xylene	0.31	0.92	1.14	1.34	4.01	4.98	
111-84-2	n-Nonane	0.27	0.82	ND	1.44	4.31	ND	ND
98-82-8	i-Propylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
103-65-1	n-propylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.82	ND	1.34	4.03	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.82	ND	1.34	4.03	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.82	ND	1.34	4.03	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
124-18-5	n-Decane	0.25	0.74	ND	1.43	4.30	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.74	ND	1.35	4.05	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.74	ND	1.35	4.05	ND	ND
104-51-8	n-Butylbenzene	0.25	0.74	ND	1.35	4.05	ND	ND
1120-21-4	Undecane	0.22	0.67	ND	1.43	4.29	ND	ND
91-20-3	Naphthalene	0.25	0.74	ND	1.29	3.87	ND	ND
112-40-3	Dodecane	0.20	0.61	ND	1.43	4.29	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.21	27.64	851.46	32.55	97.65	3,008.01	
TNMHC - C1	Total Non-Methane Hydrocarbons	55.28	165.85	5,108.74	36.25	108.75	3,349.99	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 42

File Name: 2510042A
Description: T-306
Canister: 859
QC_Batch: 040225-GCK

Date Sampled: 03/21/25 **Time:** 9:13
Date Analyzed: 04/02/25 **Time:** 13:00
Can Factor: 1.21
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.21	3.63	4.51	1.39	4.18	5.19	
74-86-2	Acetylene	1.21	3.63	ND	1.29	3.87	ND	ND
74-84-0	Ethane	1.21	3.63	5.99	1.49	4.48	7.39	
115-07-1	Propene	0.81	2.42	1.53	1.39	4.18	2.64	J
74-98-6	Propane	0.81	2.42	3.30	1.46	4.38	5.96	
75-28-5	i-Butane	0.61	1.82	ND	1.44	4.32	ND	ND
106-98-9	1-Butene	0.61	1.82	ND	1.39	4.17	ND	ND
106-97-8	n-Butane	0.61	1.82	ND	1.44	4.32	ND	ND
624-64-6	t-2-Butene	0.61	1.82	ND	1.39	4.17	ND	ND
590-18-1	c-2-Butene	0.61	1.82	ND	1.39	4.17	ND	ND
78-78-4	i-Pentane	0.48	1.45	ND	1.43	4.30	ND	ND
109-67-1	1-Pentene	0.48	1.45	ND	1.39	4.17	ND	ND
109-66-0	n-Pentane	0.48	1.45	1.45	1.43	4.29	4.27	J
646-04-8	t-2-Pentene	0.48	1.45	ND	1.39	4.17	ND	ND
627-20-3	c-2-Pentene	0.48	1.45	ND	1.39	4.17	ND	ND
75-83-2	2,2-Dimethylbutane	0.40	1.21	ND	1.43	4.28	ND	ND
142-29-0	Cyclopentene	0.48	1.45	ND	1.35	4.05	ND	ND
287-92-3	Cyclopentane	0.48	1.45	ND	1.39	4.17	ND	ND
79-29-8	2,3-Dimethylbutane	0.40	1.21	ND	1.43	4.28	ND	ND
107-83-5	2-Methylpentane	0.40	1.21	ND	1.43	4.28	ND	ND
96-14-0	3-Methylpentane	0.40	1.21	0.64	1.43	4.28	2.25	J
592-41-6	1-Hexene	0.40	1.21	ND	1.39	4.18	ND	ND
110-54-3	n-Hexane	0.40	1.21	ND	1.43	4.28	ND	ND
1120-62-3	3-Methylcyclopentene	0.40	1.21	ND	1.36	4.07	ND	ND
96-37-7	Methylcyclopentane	0.40	1.21	ND	1.39	4.18	ND	ND
108-08-7	2,4-Dimethylpentane	0.35	1.04	ND	1.42	4.26	ND	ND
71-43-2	Benzene	0.40	1.21	0.49	1.29	3.87	1.56	J
110-82-7	Cyclohexane	0.40	1.21	ND	1.39	4.18	ND	ND
591-76-4	2-Methylhexane	0.35	1.04	ND	1.42	4.26	ND	ND
565-59-3	2,3-Dimethylpentane	0.35	1.04	ND	1.42	4.26	ND	ND
589-34-4	3-Methylhexane	0.35	1.04	ND	1.42	4.26	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.91	ND	1.42	4.25	ND	ND
142-82-5	n-Heptane	0.35	1.04	ND	1.42	4.26	ND	ND
108-87-2	Methylcyclohexane	0.35	1.04	ND	1.39	4.18	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.91	ND	1.42	4.25	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.91	ND	1.42	4.25	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.91	ND	1.42	4.25	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.04	ND	1.31	3.92	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.91	ND	1.42	4.25	ND	ND
592-27-8	2-Methylheptane	0.30	0.91	ND	1.42	4.25	ND	ND
589-53-7	4-Methylheptane	0.30	0.91	ND	1.42	4.25	ND	ND
589-81-1	3-Methylheptane	0.30	0.91	ND	1.42	4.25	ND	ND
111-65-9	n-Octane	0.30	0.91	ND	1.42	4.25	ND	ND
100-41-4	Ethylbenzene	0.30	0.91	ND	1.32	3.95	ND	ND
108-38-3	m,p-xylene	0.30	0.91	ND	1.32	3.95	ND	ND
100-42-5	Styrene	0.30	0.91	ND	1.29	3.88	ND	ND
95-47-6	o-xylene	0.30	0.91	ND	1.32	3.95	ND	ND
111-84-2	n-Nonane	0.27	0.81	ND	1.41	4.24	ND	ND
98-82-8	i-Propylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
103-65-1	n-propylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.81	ND	1.33	3.98	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.81	ND	1.33	3.98	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.81	ND	1.33	3.98	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
124-18-5	n-Decane	0.24	0.73	ND	1.41	4.24	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.73	ND	1.33	3.99	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.73	ND	1.33	3.99	ND	ND
104-51-8	n-Butylbenzene	0.24	0.73	ND	1.33	3.99	ND	ND
1120-21-4	Undecane	0.22	0.66	ND	1.41	4.23	ND	ND
91-20-3	Naphthalene	0.24	0.73	ND	1.27	3.82	ND	ND
112-40-3	Dodecane	0.20	0.61	ND	1.41	4.22	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.08	27.24	25.09	32.07	96.22	88.63	J
TNMHC - C1	Total Non-Methane Hydrocarbons	54.47	163.42	150.52	35.72	107.16	98.70	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 43

File Name: 2510043A
Description: T-307
Canister: 636
QC_Batch: 040225-GCK

Date Sampled: 03/21/25 **Time:** 9:10
Date Analyzed: 04/02/25 **Time:** 13:46
Can Factor: 1.22
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.22	3.66	ND	1.40	4.21	ND	ND
74-86-2	Acetylene	1.22	3.66	ND	1.30	3.90	ND	ND
74-84-0	Ethane	1.22	3.66	5.25	1.50	4.51	6.47	
115-07-1	Propene	0.81	2.44	ND	1.40	4.21	ND	ND
74-98-6	Propane	0.81	2.44	2.04	1.47	4.41	3.69	J
75-28-5	i-Butane	0.61	1.83	ND	1.45	4.36	ND	ND
106-98-9	1-Butene	0.61	1.83	ND	1.40	4.21	ND	ND
106-97-8	n-Butane	0.61	1.83	ND	1.45	4.36	ND	ND
624-64-6	t-2-Butene	0.61	1.83	ND	1.40	4.21	ND	ND
590-18-1	c-2-Butene	0.61	1.83	ND	1.40	4.21	ND	ND
78-78-4	i-Pentane	0.49	1.46	ND	1.44	4.33	ND	ND
109-67-1	1-Pentene	0.49	1.46	ND	1.40	4.20	ND	ND
109-66-0	n-Pentane	0.49	1.46	ND	1.44	4.32	ND	ND
646-04-8	t-2-Pentene	0.49	1.46	ND	1.40	4.20	ND	ND
627-20-3	c-2-Pentene	0.49	1.46	ND	1.40	4.20	ND	ND
75-83-2	2,2-Dimethylbutane	0.41	1.22	ND	1.44	4.31	ND	ND
142-29-0	Cyclopentene	0.49	1.46	ND	1.36	4.08	ND	ND
287-92-3	Cyclopentane	0.49	1.46	ND	1.40	4.20	ND	ND
79-29-8	2,3-Dimethylbutane	0.41	1.22	ND	1.44	4.31	ND	ND
107-83-5	2-Methylpentane	0.41	1.22	ND	1.44	4.31	ND	ND
96-14-0	3-Methylpentane	0.41	1.22	ND	1.44	4.31	ND	ND
592-41-6	1-Hexene	0.41	1.22	ND	1.40	4.21	ND	ND
110-54-3	n-Hexane	0.41	1.22	ND	1.44	4.31	ND	ND
1120-62-3	3-Methylcyclopentene	0.41	1.22	ND	1.37	4.10	ND	ND
96-37-7	Methylcyclopentane	0.41	1.22	ND	1.40	4.21	ND	ND
108-08-7	2,4-Dimethylpentane	0.35	1.05	ND	1.43	4.29	ND	ND
71-43-2	Benzene	0.41	1.22	7.13	1.30	3.90	22.83	
110-82-7	Cyclohexane	0.41	1.22	ND	1.40	4.21	ND	ND
591-76-4	2-Methylhexane	0.35	1.05	ND	1.43	4.29	ND	ND
565-59-3	2,3-Dimethylpentane	0.35	1.05	ND	1.43	4.29	ND	ND
589-34-4	3-Methylhexane	0.35	1.05	ND	1.43	4.29	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.91	ND	1.43	4.28	ND	ND
142-82-5	n-Heptane	0.35	1.05	ND	1.43	4.29	ND	ND
108-87-2	Methylcyclohexane	0.35	1.05	ND	1.40	4.21	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.91	ND	1.43	4.28	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.91	ND	1.43	4.28	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.91	ND	1.43	4.28	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.05	ND	1.32	3.95	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.91	ND	1.43	4.28	ND	ND
592-27-8	2-Methylheptane	0.30	0.91	ND	1.43	4.28	ND	ND
589-53-7	4-Methylheptane	0.30	0.91	ND	1.43	4.28	ND	ND
589-81-1	3-Methylheptane	0.30	0.91	ND	1.43	4.28	ND	ND
111-65-9	n-Octane	0.30	0.91	ND	1.43	4.28	ND	ND
100-41-4	Ethylbenzene	0.30	0.91	ND	1.33	3.98	ND	ND
108-38-3	m,p-xylene	0.30	0.91	ND	1.33	3.98	ND	ND
100-42-5	Styrene	0.30	0.91	ND	1.30	3.91	ND	ND
95-47-6	o-xylene	0.30	0.91	ND	1.33	3.98	ND	ND
111-84-2	n-Nonane	0.27	0.81	ND	1.42	4.27	ND	ND
98-82-8	i-Propylbenzene	0.27	0.81	ND	1.33	4.00	ND	ND
103-65-1	n-propylbenzene	0.27	0.81	ND	1.33	4.00	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.81	ND	1.33	4.00	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.81	ND	1.33	4.00	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.81	ND	1.33	4.00	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.81	ND	1.33	4.00	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.81	ND	1.33	4.00	ND	ND
124-18-5	n-Decane	0.24	0.73	ND	1.42	4.27	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.81	ND	1.33	4.00	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.73	ND	1.34	4.02	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.73	ND	1.34	4.02	ND	ND
104-51-8	n-Butylbenzene	0.24	0.73	ND	1.34	4.02	ND	ND
1120-21-4	Undecane	0.22	0.67	ND	1.42	4.26	ND	ND
91-20-3	Naphthalene	0.24	0.73	ND	1.28	3.84	ND	ND
112-40-3	Dodecane	0.20	0.61	ND	1.42	4.26	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.15	27.44	24.33	32.31	96.93	85.95	J
TNMHC - C1	Total Non-Methane Hydrocarbons	54.88	164.63	145.97	35.98	107.95	95.72	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 45

File Name: 2510045A
Description: T-309
Canister: 579
QC_Batch: 040225-GCK

Date Sampled: 03/21/25 **Time:** 9:24
Date Analyzed: 04/02/25 **Time:** 15:17
Can Factor: 1.21
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.21	3.62	ND	1.39	4.17	ND	ND
74-86-2	Acetylene	1.21	3.62	ND	1.29	3.86	ND	ND
74-84-0	Ethane	1.21	3.62	5.03	1.49	4.47	6.20	
115-07-1	Propene	0.81	2.42	ND	1.39	4.17	ND	ND
74-98-6	Propane	0.81	2.42	7.63	1.46	4.37	13.80	
75-28-5	i-Butane	0.60	1.81	ND	1.44	4.31	ND	ND
106-98-9	1-Butene	0.60	1.81	ND	1.39	4.17	ND	ND
106-97-8	n-Butane	0.60	1.81	4.23	1.44	4.31	10.06	
624-64-6	t-2-Butene	0.60	1.81	ND	1.39	4.17	ND	ND
590-18-1	c-2-Butene	0.60	1.81	ND	1.39	4.17	ND	ND
78-78-4	i-Pentane	0.48	1.45	1.47	1.43	4.29	4.35	
109-67-1	1-Pentene	0.48	1.45	ND	1.39	4.16	ND	ND
109-66-0	n-Pentane	0.48	1.45	ND	1.43	4.28	ND	ND
646-04-8	t-2-Pentene	0.48	1.45	ND	1.39	4.16	ND	ND
627-20-3	c-2-Pentene	0.48	1.45	ND	1.39	4.16	ND	ND
75-83-2	2,2-Dimethylbutane	0.40	1.21	0.44	1.42	4.27	1.54	J
142-29-0	Cyclopentene	0.48	1.45	ND	1.35	4.05	ND	ND
287-92-3	Cyclopentane	0.48	1.45	2.49	1.39	4.16	7.14	
79-29-8	2,3-Dimethylbutane	0.40	1.21	ND	1.42	4.27	ND	ND
107-83-5	2-Methylpentane	0.40	1.21	ND	1.42	4.27	ND	ND
96-14-0	3-Methylpentane	0.40	1.21	ND	1.42	4.27	ND	ND
592-41-6	1-Hexene	0.40	1.21	ND	1.39	4.17	ND	ND
110-54-3	n-Hexane	0.40	1.21	ND	1.42	4.27	ND	ND
1120-62-3	3-Methylcyclopentene	0.40	1.21	ND	1.35	4.06	ND	ND
96-37-7	Methylcyclopentane	0.40	1.21	ND	1.39	4.17	ND	ND
108-08-7	2,4-Dimethylpentane	0.35	1.04	ND	1.42	4.25	ND	ND
71-43-2	Benzene	0.40	1.21	ND	1.29	3.87	ND	ND
110-82-7	Cyclohexane	0.40	1.21	ND	1.39	4.17	ND	ND
591-76-4	2-Methylhexane	0.35	1.04	ND	1.42	4.25	ND	ND
565-59-3	2,3-Dimethylpentane	0.35	1.04	ND	1.42	4.25	ND	ND
589-34-4	3-Methylhexane	0.35	1.04	ND	1.42	4.25	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.91	ND	1.41	4.24	ND	ND
142-82-5	n-Heptane	0.35	1.04	ND	1.42	4.25	ND	ND
108-87-2	Methylcyclohexane	0.35	1.04	ND	1.39	4.17	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.91	ND	1.41	4.24	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.91	ND	1.41	4.24	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.91	ND	1.41	4.24	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.04	ND	1.30	3.91	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.91	ND	1.41	4.24	ND	ND
592-27-8	2-Methylheptane	0.30	0.91	ND	1.41	4.24	ND	ND
589-53-7	4-Methylheptane	0.30	0.91	ND	1.41	4.24	ND	ND
589-81-1	3-Methylheptane	0.30	0.91	ND	1.41	4.24	ND	ND
111-65-9	n-Octane	0.30	0.91	ND	1.41	4.24	ND	ND
100-41-4	Ethylbenzene	0.30	0.91	ND	1.31	3.94	ND	ND
108-38-3	m,p-xylene	0.30	0.91	ND	1.31	3.94	ND	ND
100-42-5	Styrene	0.30	0.91	ND	1.29	3.87	ND	ND
95-47-6	o-xylene	0.30	0.91	ND	1.31	3.94	ND	ND
111-84-2	n-Nonane	0.27	0.81	ND	1.41	4.23	ND	ND
98-82-8	i-Propylbenzene	0.27	0.81	ND	1.32	3.97	ND	ND
103-65-1	n-propylbenzene	0.27	0.81	ND	1.32	3.97	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.81	ND	1.32	3.97	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.81	ND	1.32	3.97	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.81	ND	1.32	3.97	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.81	ND	1.32	3.97	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.81	ND	1.32	3.97	ND	ND
124-18-5	n-Decane	0.24	0.72	ND	1.41	4.23	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.81	ND	1.32	3.97	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.72	ND	1.33	3.99	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.72	ND	1.33	3.99	ND	ND
104-51-8	n-Butylbenzene	0.24	0.72	ND	1.33	3.99	ND	ND
1120-21-4	Undecane	0.22	0.66	ND	1.41	4.22	ND	ND
91-20-3	Naphthalene	0.24	0.72	ND	1.27	3.81	ND	ND
112-40-3	Dodecane	0.20	0.60	ND	1.41	4.22	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.06	27.18	30.07	32.01	96.02	106.22	
TNMHC - C1	Total Non-Methane Hydrocarbons	54.36	163.08	180.40	35.65	106.94	118.30	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 46

File Name: 2510046A
Description: T-310
Canister: 771
QC_Batch: 033125-GCK

Date Sampled: 03/21/25 **Time:** 10:48
Date Analyzed: 03/31/25 **Time:** 14:28
Can Factor: 1.29
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.29	3.86	ND	1.48	4.45	ND	ND
74-86-2	Acetylene	1.29	3.86	ND	1.37	4.11	ND	ND
74-84-0	Ethane	1.29	3.86	ND	1.59	4.76	ND	ND
115-07-1	Propene	0.86	2.57	ND	1.48	4.44	ND	ND
74-98-6	Propane	0.86	2.57	ND	1.55	4.65	ND	ND
75-28-5	i-Butane	0.64	1.93	ND	1.53	4.60	ND	ND
106-98-9	1-Butene	0.64	1.93	ND	1.48	4.44	ND	ND
106-97-8	n-Butane	0.64	1.93	ND	1.53	4.60	ND	ND
624-64-6	t-2-Butene	0.64	1.93	ND	1.48	4.44	ND	ND
590-18-1	c-2-Butene	0.64	1.93	ND	1.48	4.44	ND	ND
78-78-4	i-Pentane	0.51	1.54	ND	1.52	4.57	ND	ND
109-67-1	1-Pentene	0.51	1.54	ND	1.48	4.44	ND	ND
109-66-0	n-Pentane	0.51	1.54	ND	1.52	4.56	ND	ND
646-04-8	t-2-Pentene	0.51	1.54	ND	1.48	4.44	ND	ND
627-20-3	c-2-Pentene	0.51	1.54	ND	1.48	4.44	ND	ND
75-83-2	2,2-Dimethylbutane	0.43	1.29	ND	1.52	4.55	ND	ND
142-29-0	Cyclopentene	0.51	1.54	ND	1.44	4.31	ND	ND
287-92-3	Cyclopentane	0.51	1.54	ND	1.48	4.44	ND	ND
79-29-8	2,3-Dimethylbutane	0.43	1.29	ND	1.52	4.55	ND	ND
107-83-5	2-Methylpentane	0.43	1.29	ND	1.52	4.55	ND	ND
96-14-0	3-Methylpentane	0.43	1.29	ND	1.52	4.55	ND	ND
592-41-6	1-Hexene	0.43	1.29	ND	1.48	4.44	ND	ND
110-54-3	n-Hexane	0.43	1.29	ND	1.52	4.55	ND	ND
1120-62-3	3-Methylcyclopentene	0.43	1.29	ND	1.44	4.33	ND	ND
96-37-7	Methylcyclopentane	0.43	1.29	ND	1.48	4.44	ND	ND
108-08-7	2,4-Dimethylpentane	0.37	1.10	ND	1.51	4.53	ND	ND
71-43-2	Benzene	0.43	1.29	ND	1.37	4.12	ND	ND
110-82-7	Cyclohexane	0.43	1.29	ND	1.48	4.44	ND	ND
591-76-4	2-Methylhexane	0.37	1.10	ND	1.51	4.53	ND	ND
565-59-3	2,3-Dimethylpentane	0.37	1.10	ND	1.51	4.53	ND	ND
589-34-4	3-Methylhexane	0.37	1.10	ND	1.51	4.53	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.32	0.97	ND	1.51	4.52	ND	ND
142-82-5	n-Heptane	0.37	1.10	ND	1.51	4.53	ND	ND
108-87-2	Methylcyclohexane	0.37	1.10	ND	1.48	4.44	ND	ND
592-13-2	2,5-Dimethylhexane	0.32	0.97	ND	1.51	4.52	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.97	ND	1.51	4.52	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.32	0.97	ND	1.51	4.52	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.37	1.10	ND	1.39	4.16	ND	ND
584-94-1	2,3-Dimethylhexane	0.32	0.97	ND	1.51	4.52	ND	ND
592-27-8	2-Methylheptane	0.32	0.97	ND	1.51	4.52	ND	ND
589-53-7	4-Methylheptane	0.32	0.97	ND	1.51	4.52	ND	ND
589-81-1	3-Methylheptane	0.32	0.97	ND	1.51	4.52	ND	ND
111-65-9	n-Octane	0.32	0.97	ND	1.51	4.52	ND	ND
100-41-4	Ethylbenzene	0.32	0.97	ND	1.40	4.20	ND	ND
108-38-3	m,p-xylene	0.32	0.97	ND	1.40	4.20	ND	ND
100-42-5	Styrene	0.32	0.97	ND	1.37	4.12	ND	ND
95-47-6	o-xylene	0.32	0.97	ND	1.40	4.20	ND	ND
111-84-2	n-Nonane	0.29	0.86	ND	1.50	4.51	ND	ND
98-82-8	i-Propylbenzene	0.29	0.86	ND	1.41	4.23	ND	ND
103-65-1	n-propylbenzene	0.29	0.86	ND	1.41	4.23	ND	ND
620-14-4	3-Ethyltoluene	0.29	0.86	ND	1.41	4.23	ND	ND
622-96-8	4-Ethyltoluene	0.29	0.86	ND	1.41	4.23	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.29	0.86	ND	1.41	4.23	ND	ND
611-14-3	2-Ethyltoluene	0.29	0.86	ND	1.41	4.23	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	0.86	ND	1.41	4.23	ND	ND
124-18-5	n-Decane	0.26	0.77	ND	1.50	4.50	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.29	0.86	ND	1.41	4.23	ND	ND
141-93-5	1,3-Diethylbenzene	0.26	0.77	ND	1.42	4.25	ND	ND
105-05-5	1,4-Diethylbenzene	0.26	0.77	ND	1.42	4.25	ND	ND
104-51-8	n-Butylbenzene	0.26	0.77	ND	1.42	4.25	ND	ND
1120-21-4	Undecane	0.23	0.70	ND	1.50	4.50	ND	ND
91-20-3	Naphthalene	0.26	0.77	ND	1.35	4.06	ND	ND
112-40-3	Dodecane	0.21	0.64	ND	1.50	4.49	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.65	28.96	ND	34.11	102.32	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	57.92	173.77	ND	37.98	113.95	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 47

File Name: 2510047A
Description: T-311
Canister: 605
QC_Batch: 040225-GCK

Date Sampled: 03/21/25 **Time:** 10:35
Date Analyzed: 04/02/25 **Time:** 16:03
Can Factor: 1.28
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.28	3.85	ND	1.48	4.44	ND	ND
74-86-2	Acetylene	1.28	3.85	ND	1.37	4.10	ND	ND
74-84-0	Ethane	1.28	3.85	ND	1.58	4.75	ND	ND
115-07-1	Propene	0.86	2.57	2.32	1.48	4.43	3.99	J
74-98-6	Propane	0.86	2.57	ND	1.55	4.64	ND	ND
75-28-5	i-Butane	0.64	1.93	4.84	1.53	4.59	11.53	
106-98-9	1-Butene	0.64	1.93	ND	1.48	4.43	ND	ND
106-97-8	n-Butane	0.64	1.93	ND	1.53	4.59	ND	ND
624-64-6	t-2-Butene	0.64	1.93	ND	1.48	4.43	ND	ND
590-18-1	c-2-Butene	0.64	1.93	ND	1.48	4.43	ND	ND
78-78-4	i-Pentane	0.51	1.54	ND	1.52	4.56	ND	ND
109-67-1	1-Pentene	0.51	1.54	ND	1.48	4.43	ND	ND
109-66-0	n-Pentane	0.51	1.54	ND	1.52	4.55	ND	ND
646-04-8	t-2-Pentene	0.51	1.54	ND	1.48	4.43	ND	ND
627-20-3	c-2-Pentene	0.51	1.54	ND	1.48	4.43	ND	ND
75-83-2	2,2-Dimethylbutane	0.43	1.28	ND	1.51	4.54	ND	ND
142-29-0	Cyclopentene	0.51	1.54	ND	1.43	4.30	ND	ND
287-92-3	Cyclopentane	0.51	1.54	0.80	1.48	4.43	2.29	J
79-29-8	2,3-Dimethylbutane	0.43	1.28	ND	1.51	4.54	ND	ND
107-83-5	2-Methylpentane	0.43	1.28	ND	1.51	4.54	ND	ND
96-14-0	3-Methylpentane	0.43	1.28	ND	1.51	4.54	ND	ND
592-41-6	1-Hexene	0.43	1.28	ND	1.48	4.43	ND	ND
110-54-3	n-Hexane	0.43	1.28	ND	1.51	4.54	ND	ND
1120-62-3	3-Methylcyclopentene	0.43	1.28	ND	1.44	4.32	ND	ND
96-37-7	Methylcyclopentane	0.43	1.28	ND	1.48	4.43	ND	ND
108-08-7	2,4-Dimethylpentane	0.37	1.10	ND	1.51	4.52	ND	ND
71-43-2	Benzene	0.43	1.28	ND	1.37	4.11	ND	ND
110-82-7	Cyclohexane	0.43	1.28	ND	1.48	4.43	ND	ND
591-76-4	2-Methylhexane	0.37	1.10	ND	1.51	4.52	ND	ND
565-59-3	2,3-Dimethylpentane	0.37	1.10	ND	1.51	4.52	ND	ND
589-34-4	3-Methylhexane	0.37	1.10	ND	1.51	4.52	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.32	0.96	ND	1.50	4.51	ND	ND
142-82-5	n-Heptane	0.37	1.10	ND	1.51	4.52	ND	ND
108-87-2	Methylcyclohexane	0.37	1.10	ND	1.48	4.43	ND	ND
592-13-2	2,5-Dimethylhexane	0.32	0.96	ND	1.50	4.51	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.96	ND	1.50	4.51	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.32	0.96	ND	1.50	4.51	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.37	1.10	ND	1.38	4.15	ND	ND
584-94-1	2,3-Dimethylhexane	0.32	0.96	ND	1.50	4.51	ND	ND
592-27-8	2-Methylheptane	0.32	0.96	ND	1.50	4.51	ND	ND
589-53-7	4-Methylheptane	0.32	0.96	ND	1.50	4.51	ND	ND
589-81-1	3-Methylheptane	0.32	0.96	ND	1.50	4.51	ND	ND
111-65-9	n-Octane	0.32	0.96	ND	1.50	4.51	ND	ND
100-41-4	Ethylbenzene	0.32	0.96	ND	1.40	4.19	ND	ND
108-38-3	m,p-xylene	0.32	0.96	ND	1.40	4.19	ND	ND
100-42-5	Styrene	0.32	0.96	ND	1.37	4.11	ND	ND
95-47-6	o-xylene	0.32	0.96	ND	1.40	4.19	ND	ND
111-84-2	n-Nonane	0.29	0.86	ND	1.50	4.50	ND	ND
98-82-8	i-Propylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
103-65-1	n-propylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
620-14-4	3-Ethyltoluene	0.29	0.86	ND	1.41	4.22	ND	ND
622-96-8	4-Ethyltoluene	0.29	0.86	ND	1.41	4.22	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
611-14-3	2-Ethyltoluene	0.29	0.86	ND	1.41	4.22	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
124-18-5	n-Decane	0.26	0.77	ND	1.50	4.49	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
141-93-5	1,3-Diethylbenzene	0.26	0.77	ND	1.41	4.24	ND	ND
105-05-5	1,4-Diethylbenzene	0.26	0.77	ND	1.41	4.24	ND	ND
104-51-8	n-Butylbenzene	0.26	0.77	ND	1.41	4.24	ND	ND
1120-21-4	Undecane	0.23	0.70	ND	1.50	4.49	ND	ND
91-20-3	Naphthalene	0.26	0.77	ND	1.35	4.05	ND	ND
112-40-3	Dodecane	0.21	0.64	ND	1.49	4.48	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.63	28.89	27.39	34.02	102.05	96.76	J
TNMHC - C1	Total Non-Methane Hydrocarbons	57.77	173.32	164.34	37.88	113.65	107.76	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 48

File Name: 2510048A
Description: T-312
Canister: 990
QC_Batch: 040225-GCK

Date Sampled: 03/21/25 **Time:** 10:30
Date Analyzed: 04/02/25 **Time:** 17:04
Can Factor: 1.33
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.33	3.98	3.33	1.53	4.58	3.84	J
74-86-2	Acetylene	1.33	3.98	ND	1.41	4.24	ND	ND
74-84-0	Ethane	1.33	3.98	ND	1.63	4.90	ND	ND
115-07-1	Propene	0.88	2.65	5.93	1.52	4.57	10.22	
74-98-6	Propane	0.88	2.65	ND	1.60	4.79	ND	ND
75-28-5	i-Butane	0.66	1.99	ND	1.58	4.73	ND	ND
106-98-9	1-Butene	0.66	1.99	ND	1.52	4.57	ND	ND
106-97-8	n-Butane	0.66	1.99	4.01	1.58	4.73	9.56	
624-64-6	t-2-Butene	0.66	1.99	ND	1.52	4.57	ND	ND
590-18-1	c-2-Butene	0.66	1.99	ND	1.52	4.57	ND	ND
78-78-4	i-Pentane	0.53	1.59	3.63	1.57	4.71	10.74	
109-67-1	1-Pentene	0.53	1.59	ND	1.52	4.57	ND	ND
109-66-0	n-Pentane	0.53	1.59	0.99	1.57	4.70	2.94	J
646-04-8	t-2-Pentene	0.53	1.59	ND	1.52	4.57	ND	ND
627-20-3	c-2-Pentene	0.53	1.59	ND	1.52	4.57	ND	ND
75-83-2	2,2-Dimethylbutane	0.44	1.33	1.66	1.56	4.68	5.85	
142-29-0	Cyclopentene	0.53	1.59	ND	1.48	4.44	ND	ND
287-92-3	Cyclopentane	0.53	1.59	1.90	1.52	4.57	5.45	
79-29-8	2,3-Dimethylbutane	0.44	1.33	ND	1.56	4.68	ND	ND
107-83-5	2-Methylpentane	0.44	1.33	0.82	1.56	4.68	2.91	J
96-14-0	3-Methylpentane	0.44	1.33	ND	1.56	4.68	ND	ND
592-41-6	1-Hexene	0.44	1.33	ND	1.52	4.57	ND	ND
110-54-3	n-Hexane	0.44	1.33	0.95	1.56	4.68	3.35	J
1120-62-3	3-Methylcyclopentene	0.44	1.33	ND	1.49	4.46	ND	ND
96-37-7	Methylcyclopentane	0.44	1.33	0.82	1.52	4.57	2.84	J
108-08-7	2,4-Dimethylpentane	0.38	1.14	ND	1.55	4.66	ND	ND
71-43-2	Benzene	0.44	1.33	0.57	1.41	4.24	1.82	J
110-82-7	Cyclohexane	0.44	1.33	ND	1.52	4.57	ND	ND
591-76-4	2-Methylhexane	0.38	1.14	ND	1.55	4.66	ND	ND
565-59-3	2,3-Dimethylpentane	0.38	1.14	ND	1.55	4.66	ND	ND
589-34-4	3-Methylhexane	0.38	1.14	0.94	1.55	4.66	3.88	J
540-84-1	2,2,4-Trimethylpentane	0.33	0.99	0.97	1.55	4.65	4.55	J
142-82-5	n-Heptane	0.38	1.14	ND	1.55	4.66	ND	ND
108-87-2	Methylcyclohexane	0.38	1.14	ND	1.52	4.57	ND	ND
592-13-2	2,5-Dimethylhexane	0.33	0.99	ND	1.55	4.65	ND	ND
589-43-5	2,4-Dimethylhexane	0.33	0.99	ND	1.55	4.65	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.33	0.99	1.00	1.55	4.65	4.70	

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.38	1.14	1.99	1.43	4.29	7.50	
584-94-1	2,3-Dimethylhexane	0.33	0.99	ND	1.55	4.65	ND	ND
592-27-8	2-Methylheptane	0.33	0.99	ND	1.55	4.65	ND	ND
589-53-7	4-Methylheptane	0.33	0.99	ND	1.55	4.65	ND	ND
589-81-1	3-Methylheptane	0.33	0.99	ND	1.55	4.65	ND	ND
111-65-9	n-Octane	0.33	0.99	ND	1.55	4.65	ND	ND
100-41-4	Ethylbenzene	0.33	0.99	ND	1.44	4.33	ND	ND
108-38-3	m,p-xylene	0.33	0.99	1.73	1.44	4.33	7.54	
100-42-5	Styrene	0.33	0.99	ND	1.41	4.24	ND	ND
95-47-6	o-xylene	0.33	0.99	1.29	1.44	4.33	5.61	
111-84-2	n-Nonane	0.29	0.88	ND	1.55	4.65	ND	ND
98-82-8	i-Propylbenzene	0.29	0.88	ND	1.45	4.35	ND	ND
103-65-1	n-propylbenzene	0.29	0.88	ND	1.45	4.35	ND	ND
620-14-4	3-Ethyltoluene	0.29	0.88	ND	1.45	4.35	ND	ND
622-96-8	4-Ethyltoluene	0.29	0.88	ND	1.45	4.35	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.29	0.88	ND	1.45	4.35	ND	ND
611-14-3	2-Ethyltoluene	0.29	0.88	ND	1.45	4.35	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	0.88	ND	1.45	4.35	ND	ND
124-18-5	n-Decane	0.27	0.80	ND	1.55	4.64	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.29	0.88	ND	1.45	4.35	ND	ND
141-93-5	1,3-Diethylbenzene	0.27	0.80	ND	1.46	4.37	ND	ND
105-05-5	1,4-Diethylbenzene	0.27	0.80	ND	1.46	4.37	ND	ND
104-51-8	n-Butylbenzene	0.27	0.80	ND	1.46	4.37	ND	ND
1120-21-4	Undecane	0.24	0.72	ND	1.54	4.63	ND	ND
91-20-3	Naphthalene	0.27	0.80	ND	1.39	4.18	ND	ND
112-40-3	Dodecane	0.22	0.66	ND	1.54	4.62	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.94	29.81	436.21	35.11	105.33	1,541.05	
TNMHC - C1	Total Non-Methane Hydrocarbons	59.63	178.89	2,617.29	39.10	117.30	1,716.26	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 49

File Name: 2510049A
Description: T-313
Canister: 549
QC_Batch: 040225-GCK

Date Sampled: 03/21/25 **Time:** 10:31
Date Analyzed: 04/02/25 **Time:** 18:02
Can Factor: 1.25
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.25	3.76	1.26	1.44	4.33	1.46	J
74-86-2	Acetylene	1.25	3.76	ND	1.34	4.01	ND	ND
74-84-0	Ethane	1.25	3.76	4.28	1.55	4.64	5.29	
115-07-1	Propene	0.84	2.51	ND	1.44	4.33	ND	ND
74-98-6	Propane	0.84	2.51	1.85	1.51	4.54	3.35	J
75-28-5	i-Butane	0.63	1.88	ND	1.49	4.48	ND	ND
106-98-9	1-Butene	0.63	1.88	ND	1.44	4.33	ND	ND
106-97-8	n-Butane	0.63	1.88	ND	1.49	4.48	ND	ND
624-64-6	t-2-Butene	0.63	1.88	ND	1.44	4.33	ND	ND
590-18-1	c-2-Butene	0.63	1.88	ND	1.44	4.33	ND	ND
78-78-4	i-Pentane	0.50	1.51	ND	1.49	4.46	ND	ND
109-67-1	1-Pentene	0.50	1.51	ND	1.44	4.33	ND	ND
109-66-0	n-Pentane	0.50	1.51	0.79	1.48	4.45	2.33	J
646-04-8	t-2-Pentene	0.50	1.51	ND	1.44	4.33	ND	ND
627-20-3	c-2-Pentene	0.50	1.51	ND	1.44	4.33	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.25	ND	1.48	4.43	ND	ND
142-29-0	Cyclopentene	0.50	1.51	ND	1.40	4.20	ND	ND
287-92-3	Cyclopentane	0.50	1.51	ND	1.44	4.33	ND	ND
79-29-8	2,3-Dimethylbutane	0.42	1.25	ND	1.48	4.43	ND	ND
107-83-5	2-Methylpentane	0.42	1.25	ND	1.48	4.43	ND	ND
96-14-0	3-Methylpentane	0.42	1.25	ND	1.48	4.43	ND	ND
592-41-6	1-Hexene	0.42	1.25	ND	1.44	4.33	ND	ND
110-54-3	n-Hexane	0.42	1.25	ND	1.48	4.43	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.25	ND	1.41	4.22	ND	ND
96-37-7	Methylcyclopentane	0.42	1.25	ND	1.44	4.33	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.08	ND	1.47	4.42	ND	ND
71-43-2	Benzene	0.42	1.25	0.84	1.34	4.02	2.69	J
110-82-7	Cyclohexane	0.42	1.25	ND	1.44	4.33	ND	ND
591-76-4	2-Methylhexane	0.36	1.08	ND	1.47	4.42	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.08	ND	1.47	4.42	ND	ND
589-34-4	3-Methylhexane	0.36	1.08	0.37	1.47	4.42	1.53	J
540-84-1	2,2,4-Trimethylpentane	0.31	0.94	ND	1.47	4.40	ND	ND
142-82-5	n-Heptane	0.36	1.08	ND	1.47	4.42	ND	ND
108-87-2	Methylcyclohexane	0.36	1.08	ND	1.44	4.33	ND	ND
592-13-2	2,5-Dimethylhexane	0.31	0.94	ND	1.47	4.40	ND	ND
589-43-5	2,4-Dimethylhexane	0.31	0.94	ND	1.47	4.40	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.31	0.94	ND	1.47	4.40	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.08	ND	1.35	4.06	ND	ND
584-94-1	2,3-Dimethylhexane	0.31	0.94	ND	1.47	4.40	ND	ND
592-27-8	2-Methylheptane	0.31	0.94	ND	1.47	4.40	ND	ND
589-53-7	4-Methylheptane	0.31	0.94	ND	1.47	4.40	ND	ND
589-81-1	3-Methylheptane	0.31	0.94	ND	1.47	4.40	ND	ND
111-65-9	n-Octane	0.31	0.94	ND	1.47	4.40	ND	ND
100-41-4	Ethylbenzene	0.31	0.94	ND	1.37	4.10	ND	ND
108-38-3	m,p-xylene	0.31	0.94	ND	1.37	4.10	ND	ND
100-42-5	Styrene	0.31	0.94	ND	1.34	4.02	ND	ND
95-47-6	o-xylene	0.31	0.94	ND	1.37	4.10	ND	ND
111-84-2	n-Nonane	0.28	0.84	ND	1.47	4.40	ND	ND
98-82-8	i-Propylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
103-65-1	n-propylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.84	ND	1.37	4.12	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.84	ND	1.37	4.12	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.84	ND	1.37	4.12	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
124-18-5	n-Decane	0.25	0.75	ND	1.46	4.39	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.75	ND	1.38	4.14	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.75	ND	1.38	4.14	ND	ND
104-51-8	n-Butylbenzene	0.25	0.75	ND	1.38	4.14	ND	ND
1120-21-4	Undecane	0.23	0.68	ND	1.46	4.38	ND	ND
91-20-3	Naphthalene	0.25	0.75	ND	1.32	3.96	ND	ND
112-40-3	Dodecane	0.21	0.63	ND	1.46	4.38	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.41	28.23	ND	33.24	99.73	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	56.46	169.38	ND	37.02	111.07	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

SDG: 225100
Analytical Method: TO-14FID
Laboratory Number: 50

File Name: 2510050A
Description: T-314
Canister: 784
QC_Batch: 040225-GCK

Date Sampled: 03/21/25 **Time:** 10:38
Date Analyzed: 04/02/25 **Time:** 18:57
Can Factor: 1.25
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.25	3.75	ND	1.44	4.32	ND	ND
74-86-2	Acetylene	1.25	3.75	ND	1.33	3.99	ND	ND
74-84-0	Ethane	1.25	3.75	4.00	1.54	4.62	4.94	
115-07-1	Propene	0.83	2.50	2.43	1.44	4.31	4.19	J
74-98-6	Propane	0.83	2.50	2.65	1.51	4.52	4.78	
75-28-5	i-Butane	0.62	1.87	ND	1.49	4.46	ND	ND
106-98-9	1-Butene	0.62	1.87	ND	1.44	4.31	ND	ND
106-97-8	n-Butane	0.62	1.87	ND	1.49	4.46	ND	ND
624-64-6	t-2-Butene	0.62	1.87	ND	1.44	4.31	ND	ND
590-18-1	c-2-Butene	0.62	1.87	ND	1.44	4.31	ND	ND
78-78-4	i-Pentane	0.50	1.50	3.31	1.48	4.44	9.79	
109-67-1	1-Pentene	0.50	1.50	ND	1.44	4.31	ND	ND
109-66-0	n-Pentane	0.50	1.50	ND	1.48	4.43	ND	ND
646-04-8	t-2-Pentene	0.50	1.50	ND	1.44	4.31	ND	ND
627-20-3	c-2-Pentene	0.50	1.50	ND	1.44	4.31	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.25	2.03	1.47	4.41	7.18	
142-29-0	Cyclopentene	0.50	1.50	ND	1.40	4.19	ND	ND
287-92-3	Cyclopentane	0.50	1.50	2.39	1.44	4.31	6.85	
79-29-8	2,3-Dimethylbutane	0.42	1.25	ND	1.47	4.41	ND	ND
107-83-5	2-Methylpentane	0.42	1.25	0.94	1.47	4.41	3.30	J
96-14-0	3-Methylpentane	0.42	1.25	1.78	1.47	4.41	6.28	
592-41-6	1-Hexene	0.42	1.25	ND	1.44	4.31	ND	ND
110-54-3	n-Hexane	0.42	1.25	ND	1.47	4.41	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.25	ND	1.40	4.20	ND	ND
96-37-7	Methylcyclopentane	0.42	1.25	ND	1.44	4.31	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.07	ND	1.47	4.40	ND	ND
71-43-2	Benzene	0.42	1.25	0.72	1.33	4.00	2.30	J
110-82-7	Cyclohexane	0.42	1.25	2.02	1.44	4.31	6.96	
591-76-4	2-Methylhexane	0.36	1.07	2.17	1.47	4.40	8.92	
565-59-3	2,3-Dimethylpentane	0.36	1.07	ND	1.47	4.40	ND	ND
589-34-4	3-Methylhexane	0.36	1.07	0.55	1.47	4.40	2.26	J
540-84-1	2,2,4-Trimethylpentane	0.31	0.94	3.65	1.46	4.39	17.10	
142-82-5	n-Heptane	0.36	1.07	ND	1.47	4.40	ND	ND
108-87-2	Methylcyclohexane	0.36	1.07	1.03	1.44	4.31	4.13	J
592-13-2	2,5-Dimethylhexane	0.31	0.94	0.56	1.46	4.39	2.64	J
589-43-5	2,4-Dimethylhexane	0.31	0.94	1.23	1.46	4.39	5.73	
565-75-3	2,3,4-Trimethylpentane	0.31	0.94	2.29	1.46	4.39	10.74	

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.07	3.13	1.35	4.04	11.82	
584-94-1	2,3-Dimethylhexane	0.31	0.94	1.60	1.46	4.39	7.50	
592-27-8	2-Methylheptane	0.31	0.94	0.98	1.46	4.39	4.59	
589-53-7	4-Methylheptane	0.31	0.94	0.43	1.46	4.39	2.03	J
589-81-1	3-Methylheptane	0.31	0.94	0.97	1.46	4.39	4.55	
111-65-9	n-Octane	0.31	0.94	ND	1.46	4.39	ND	ND
100-41-4	Ethylbenzene	0.31	0.94	1.33	1.36	4.08	5.79	
108-38-3	m,p-xylene	0.31	0.94	2.75	1.36	4.08	11.97	
100-42-5	Styrene	0.31	0.94	ND	1.33	4.00	ND	ND
95-47-6	o-xylene	0.31	0.94	2.57	1.36	4.08	11.17	
111-84-2	n-Nonane	0.28	0.83	29.78	1.46	4.38	156.56	
98-82-8	i-Propylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
103-65-1	n-propylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.83	ND	1.37	4.10	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.83	ND	1.37	4.10	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.83	ND	1.37	4.10	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
124-18-5	n-Decane	0.25	0.75	14.37	1.46	4.37	83.80	
526-73-8	1,2,3-Trimethylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.75	ND	1.37	4.12	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.75	ND	1.37	4.12	ND	ND
104-51-8	n-Butylbenzene	0.25	0.75	ND	1.37	4.12	ND	ND
1120-21-4	Undecane	0.23	0.68	ND	1.46	4.37	ND	ND
91-20-3	Naphthalene	0.25	0.75	ND	1.31	3.94	ND	ND
112-40-3	Dodecane	0.21	0.62	ND	1.45	4.36	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.37	28.12	895.18	33.11	99.33	3,162.49	
TNMHC - C1	Total Non-Methane Hydrocarbons	56.23	168.70	5,371.10	36.87	110.62	3,522.03	

Section 4 Data Package

This section contains the Data Packages for the samples, blanks, and calibration. Each package has the analytical report, quantitation report, calculation sheet, instrument quantation report, and chromatograms.

Items provided in Data Package:

DAB Run Logs and Preparation Logs

Sample Packages

Blank Package for each Daily Analytical Batch

Quality Control Reports, LCS,LCD for each Daily Analytical Batch

Continuing Calibration Package for Each Daily Analytical Batch

Initial Calibration Data

DAB Run Logs and Preparation Logs

Samples are analyzed in a Daily Analytical Batch (DAB) on an instrument.
The DAB identifier is on each analytial report in the field called QC Batch.
This section contains the DAB Log Sheets and Preparation Logs.

Index

DAB Run Logs
Other Log Sheets

Daily Analytical Batch

DAB: 032725-GCK

GCK

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
032725-GCK	01	GCK	STD			C03275A		ST62334	HEXANE	1			GC1SHO			
032725-GCK	02	GCK	SPK			QC03275A		ST62529		1			GC1SHO			
032725-GCK	03	GCK	SPK			QC03275B		ST62529		1			GC1SHO			
032725-GCK	04	GCK	SPK			QC03275C		ST62529		1			GC1SHO			
032725-GCK	05	GCK	BLK			B03275A		HUMID BLANK		200			GC1SHO			
032725-GCK	06	GCK	BLK			B03275B		METHOD BLANK		200			GC1SHO			
032725-GCK	07	GCK	SA	225090	01	2509001A	823	BOL10312250616	TRINITY	200			KTO3DHC			
032725-GCK	08	GCK	SA	225066	01	2506601A	342	SMCOGEN1	COSM	1			GC1SHO			
032725-GCK	09	GCK	SA	225091	01	2509101A	393	SENT.MARCH	COLD CANYON	1			GC1SHO			
032725-GCK	10	GCK	SA	225100	01	2510001A	668	T-101	STANTEC	200			KTO3DHC			
032725-GCK	12	GCK	SA	225100	02	2510002A	895	T-102	STANTEC	200			KTO3DHC			
032725-GCK	13	GCK	SA	225100	03	2510003A	881	T-103	STANTEC	200			KTO3DHC			
032725-GCK	14	GCK	SA	225100	04	2510004A	860	T-104	STANTEC	200			KTO3DHC			
032725-GCK	15	GCK	SA	225100	05	2510005A	685	T-105	STANTEC	200			KTO3DHC			

REVIEWED

Daily Analytical Batch

DAB: 032725-GCK

GCK

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
032725-GCK	01	GCK	STD			C03275A		ST62334	HEXANE	1			GC1SHO			
032725-GCK	02	GCK	SPK			QC03275A		ST62529		1			GC1SHO			
032725-GCK	03	GCK	SPK			QC03275B		ST62529		1			GC1SHO			
032725-GCK	04	GCK	SPK			QC03275C		ST62529		1			GC1SHO			
032725-GCK	05	GCK	BLK			B03275A		HUMID BLANK		200			GC1SHO			
032725-GCK	06	GCK	BLK			B03275B		METHOD BLANK		200			GC1SHO			
032725-GCK	07	GCK	SA	225090	01	2509001A	823	BOL10312250616	TRINITY	200			KTO3DHC			
032725-GCK	08	GCK	SA	225066	01	2506601A	342	SMCOGEN1	COSM	1			GC1SHO			
032725-GCK	09	GCK	SA	225091	01	2509101A	393	SENT.MARCH	COLD CANYON	1			GC1SHO			
032725-GCK	01	GCK	SA	225100	01	2510001A	668	T-101	STANTEC	200			KTO3DHC	CARRYOVER		
032725-GCK	02	GCK	SA	225100	02	2510002A	895	T-102	STANTEC	200			KTO3DHC			
032725-GCK	03	GCK	SA	225100	03	2510003A	881	T-103	STANTEC	200			KTO3DHC			
032725-GCK	04	GCK	SA	225100	04	2510004A	860	T-104	STANTEC	200			KTO3DHC			
032725-GCK	05	GCK	SA	225100	05	2510005A	685	T-105	STANTEC	200			KTO3DHC			

REVIEWED

DAILY ANALYTICAL BATCH FORM

DAB 031725 - GCK

ANALYST REPORT

Method GCISHORT Chemist

	NA	Passed	Out
Instrument Tune	☑	☐	☐
GC/MS BFBTune	☑	☐	☐
Continuing Calibration	☐	☑	☐
Instrument Blank	☐	☑	☐
LCS	☐	☑	☐
LCD	☐	☑	☐

PASSING DAB NOTES:

OUT Narrative:

Analyst Certification

Out of Limits QC Approval

DATA PROCESSING

SDG 225100

Lab ID 1-5

	Processed
Continuing Calibration	☑
Method Blank	☑
Samples	☑
LCS/LCD	☑

Data Processing Chemist Certification

☑ Ready for Review

DATA REVIEW

Data Review Chemist Certification

☐ Reviewed

Daily Analytical Batch

DAB: 032825-GCK

GCK

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
032825-GCK	01	GCK	STD			C03285A		ST62334		1	MM		GC1SHO			
032825-GCK	02	GCK	SPK			QC03285A		ST62529		1	MM		GC1SHO			
032825-GCK	03	GCK	SPK			QC03285B		ST62529		1	MM		GC1SHO			
032825-GCK	04	GCK	BLK			B03285A		HUMID BLANK		200	DA		GC1SHO			
032825-GCK	05	GCK	BLK			B03285B		METHOD BLANK		200	DA		GC1SHO			
032825-GCK	06	GCK	SA	225100	06	2510006A	621	T-106	SCHMIDT	200	DA		KTO3DHC			
032825-GCK	07	GCK	SA	225100	07	2510007A	644	T-107	SCHMIDT	200	DA		KTO3DHC			
032825-GCK	08	GCK	SA	225100	08	2510008A	556	T-108	SCHMIDT	200	DA		KTO3DHC			
032825-GCK	09	GCK	SA	225100	09	2510009A	694	T-109	SCHMIDT	200	DA		KTO3DHC			
032825-GCK	10	GCK	SA	225100	10	2510010A	857	T-110	SCHMIDT	200	DA		KTO3DHC			
032825-GCK	11	GCK	SA	225100	11	2510011A	504	T-111	SCHMIDT	200	SS		KTO3DHC			
032825-GCK	12	GCK	SA	225100	12	2510012A	631	T-112	SCHMIDT	200	SS		KTO3DHC			
032825-GCK	13	GCK	SA	225100	13	2510013A	690	T-113	SCHMIDT	200	SS		KTO3DHC			
032825-GCK	14	GCK	SA	225100	14	2510014A	645	T-114	SCHMIDT	200	SS		KTO3DHC			
032825-GCK	15	GCK	SA	225100	15	2510015A	654	T-115	SCHMIDT	200	SS		KTO3DHC			

REVIEWED

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DAILY ANALYTICAL BATCH FORM

DAB 032825 . GCK

ANALYST REPORT

Method GC1Short Chemist MM

	NA	Passed	Out
Instrument Tune	☒	☐	☐
GC/MS BFBTune	☒	☐	☐
Continuing Calibration	☐	☒	☐
Instrument Blank	☐	☒	☐
LCS	☐	☒	☐
LCD	☐	☒	☐

PASSING DAB NOTES:

OUT Narrative:

Analyst Certification

Out of Limits QC Approval

DATA PROCESSING

SDG 225100

Lab ID 2-8, 10-15

	Processed
Continuing Calibration	☑
Method Blank	☑
Samples	☑
LCS/LCD	☑

Data Processing Chemist Certification

☒ Ready for Review

DATA REVIEW

Data Review Chemist Certification

☐ Reviewed

Daily Analytical Batch

DAB: 032825-GCK

GCK

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
032825-GCK	01	GCK	STD			C03285A		ST62334		1	MM		GC1SHO			
032825-GCK	02	GCK	SPK			QC03285A		ST62529		1	MM		GC1SHO			
032825-GCK	03	GCK	SPK			QC03285B		ST62529		1	MM		GC1SHO			
032825-GCK	04	GCK	BLK			B03285A		HUMID BLANK		200	DA		GC1SHO			
032825-GCK	05	GCK	BLK			B03285B		METHOD BLANK		200	DA		GC1SHO			
032825-GCK	06	GCK	SA	225100	06	2510006A	621	T-106	SCHMIDT	200	DA		KTO3DHC			
032825-GCK	07	GCK	SA	225100	07	2510007A	644	T-107	SCHMIDT	200	DA		KTO3DHC			
032825-GCK	08	GCK	SA	225100	08	2510008A	556	T-108	SCHMIDT	200	DA		KTO3DHC			
032825-GCK	09	GCK	SA	225100	09	2510009A	694	T-109	SCHMIDT	200	DA		KTO3DHC			
032825-GCK	10	GCK	SA	225100	10	2510010A	857	T-110	SCHMIDT	200	DA		KTO3DHC			
032825-GCK	11	GCK	SA	225100	11	2510011A	504	T-111	SCHMIDT	200	SS		KTO3DHC			
032825-GCK	12	GCK	SA	225100	12	2510012A	631	T-112	SCHMIDT	200	SS		KTO3DHC			
032825-GCK	13	GCK	SA	225100	13	2510013A	690	T-113	SCHMIDT	200	SS		KTO3DHC			
032825-GCK	14	GCK	SA	225100	14	2510014A	645	T-114	SCHMIDT	200	SS		KTO3DHC			
032825-GCK	15	GCK	SA	225100	15	2510015A	654	T-115	SCHMIDT	200	SS		KTO3DHC			

REVIEWED

Daily Analytical Batch

DAB: 033125-GCK

GCK

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
033125-GCK	01	GCK	STD			C03315A		ST62334		1	MM		GC1SHO			
033125-GCK	02	GCK	SPK			QC03315A		ST62529		1	MM		GC1SHO			
033125-GCK	03	GCK	SPK			QC03315B		ST62529		1	MM		GC1SHO			
033125-GCK	04	GCK	BLK			B03315A		HUMID BLANK		200	MM		GC1SHO			
033125-GCK	05	GCK	BLK			B03315B		METHOD BLANK		200	MM		GC1SHO			
033125-GCK	06	GCK	SA	225100	18	2510018A	553	T-118	SCHMIDT	200	MM		KTO3DHC			
033125-GCK	07	GCK	SA	225100	32	2510032A	610	T-214	SCHMIDT	200	MM		KTO3DHC			
033125-GCK	08	GCK	SA	225100	46	2510046A	771	T-310	SCHMIDT	200	DA		KTO3DHC			
033125-GCK	09	GCK	SA	225100	16	2510016A	782	T-116	SCHMIDT	200	DA		KTO3DHC			
033125-GCK	10	GCK	SA	225100	17	2510017A	643	T-117	SCHMIDT	200	DA		KTO3DHC			
033125-GCK	11	GCK	SA	225100	19	2510019A	726	T-201	SCHMIDT	200	LR		KTO3DHC			
033125-GCK	12	GCK	SA	225100	20	2510020A	883	T-202	SCHMIDT	200	LR		KTO3DHC			
033125-GCK	13	GCK	SA	225100	21	2510021A	858	T-203	SCHMIDT	200	LR		KTO3DHC			
033125-GCK	14	GCK	SA	225100	22	2510022A	758	T-204	SCHMIDT	200	LR		KTO3DHC			
033125-GCK	15	GCK	SA	225100	23	2510023A	659	T-205	SCHMIDT	200	LR		KTO3DHC			
033125-GCK	16	GCK	SA	225100	24	2510024A	882	T-206	SCHMIDT	200	LR		KTO3DHC			
033125-GCK	17	GCK	SA	225100	25	2510025A	627	T-207	SCHMIDT	200	LR		KTO3DHC			

REVIEWED

DAILY ANALYTICAL BATCH FORM

DAB 033125 - GCK

ANALYST REPORT

Method KT03DHC Chemist MM

	NA	Passed	Out
Instrument Tune	☐	☑	☐
GC/MS BFBTune	☒	☐	☐
Continuing Calibration	☐	☒	☐
Instrument Blank	☐	☐	☐
LCS	☐	☐	☐
LCD	☐	☐	☐

PASSING DAB NOTES:

OUT Narrative:

Analyst Certification

Out of Limits QC Approval

DATA PROCESSING

SDG 033125 225100

Lab ID 16-25 32 4C

Processed

Continuing Calibration	☐
Method Blank	☑
Samples	☑
LCS/LCD	☐

Data Processing Chemist Certification

☑ Ready for Review

DATA REVIEW

Data Review Chemist Certification

☑ Reviewed

Daily Analytical Batch

DAB: 040125-GCK

GCK

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
040125-GCK	01	GCK	STD			C04015A		ST62334		1	MM		GC1SHO			
040125-GCK	02	GCK	SPK			QC04015A		ST62529		1	MM		GC1SHO			
040125-GCK	03	GCK	SPK			QC04015B		ST62529		1	MM		GC1SHO			
040125-GCK	04	GCK	SPK			QC04015C		ST62529		1	MM		GC1SHO			
040125-GCK	05	GCK	BLK			B04015A		HUMID BLANK		200	MM		GC1SHO			
040125-GCK	06	GCK	BLK			B04015B		METHOD BLANK		200	MM		GC1SHO			
040125-GCK	07	GCK	SA	225100	26	2510026A	791	T-208	SCHMIDT	200	MM		KTO3DHC			
040125-GCK	08	GCK	SA	225100	27	2510027A	778	T-209	SCHMIDT	200	MM		KTO3DHC			
040125-GCK	09	GCK	SA	225100	28	2510028A	714	T-210	SCHMIDT	200	MM		KTO3DHC			
040125-GCK	10	GCK	SA	225100	29	2510029A	629	T-211	SCHMIDT	200	DA		KTO3DHC			
040125-GCK	11	GCK	SA	225100	30	2510030A	502	T-212	SCHMIDT	200	DA		KTO3DHC			
040125-GCK	12	GCK	SA	225100	31	2510031A	712	T-213	SCHMIDT	200	DA		KTO3DHC			
040125-GCK	13	GCK	SA	225100	33	2510033A	751	T-215	SCHMIDT	200	DA		KTO3DHC			
040125-GCK	14	GCK	SA	225100	34	2510034A	896	T-216	SCHMIDT	200	UG		KTO3DHC			
040125-GCK	15	GCK	SA	225100	36	2510036A	698	T-218	SCHMIDT	200	UG		KTO3DHC			
040125-GCK	16	GCK	SA	225100	37	2510037A	638	T-301	SCHMIDT	200	UG		KTO3DHC			

REVIEWED

DAILY ANALYTICAL BATCH FORM

DAB 040125 - MSA

ANALYST REPORT

Method A1563_P Chemist MM

	NA	Passed	Out
Instrument Tune	☒	☐	☐
GC/MS BFBTune	☒	☐	☐
Continuing Calibration	☐	☒	☐
Instrument Blank	☐	☒	☐
LCS	☐	☒	☐
LCD	☐	☒	☐

PASSING DAB NOTES:

OUT Narrative:

Analyst Certification

Out of Limits QC Approval

DATA PROCESSING

SDG 225100

Lab ID

	Processed
Continuing Calibration	☐
Method Blank	☐
Samples	☐
LCS/LCD	☐

☐ Ready for Review

Data Processing Chemist Certification

DATA REVIEW

☐ Reviewed

Data Review Chemist Certification

Daily Analytical Batch

DAB: 040225-GCK

GCK

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
040225-GCK	01	GCK	STD			C04025A		ST62334		1	MM		GC1SHO			
040225-GCK	02	GCK	SPK			QC04025A		ST62529		1	MM		GC1SHO			
040225-GCK	03	GCK	SPK			QC04025B		ST62529		1	MM		GC1SHO			
040225-GCK	04	GCK	BLK			B04025A		HUMID BLANK		200	MM		GC1SHO			
04025-GCK	05	GCK	BLK			B04025B		METHOD BLANK		200	SH		KTO3DHC			
04025-GCK	06	GCK	SA	225100	38	2510038A	857	T-302	SCHMIDT	200	DA		KTO3DHC			
04025-GCK	07	GCK	SA	225100	39	2510039A	552	T-303	SCHMIDT	200	DA		KTO3DHC			
04025-GCK	08	GCK	SA	225100	42	2510042A	859	T-306	SCHMIDT	200	DA		KTO3DHC			
04025-GCK	09	GCK	SA	225100	43	2510043A	636	T-307	SCHMIDT	200	DA		KTO3DHC			
04025-GCK	10	GCK	SA	225100	44	2510044A	661	T-308	SCHMIDT	200	DA		KTO3DHC			
04025-GCK	11	GCK	SA	225100	45	2510045A	579	T-309	SCHMIDT	200	DA		KTO3DHC			
04025-GCK	12	GCK	SA	225100	47	2510047A	605	T-311	SCHMIDT	200	DA		KTO3DHC			
04025-GCK	13	GCK	SA	225100	48	2510048A	990	T-312	SCHMIDT	200	SS		KTO3DHC			
04025-GCK	14	GCK	SA	225100	49	2510049A	549	T-313	SCHMIDT	200	SS		KTO3DHC			
04025-GCK	15	GCK	SA	225100	50	2510050A	784	T-314	SCHMIDT	200	SS		KTO3DHC			
04025-GCK	16	GCK	SA	225100	09	2510009A	694	T-109	SCHMIDT	200	SS	X	KTO3DHC	CARRYOVER		
04025-GCK	17	GCK	SA	225100	22	2510022A	758	T-204	SCHMIDT	200	SS		KTO3DHC			

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REVIEWED

001554 of 004929

Daily Analytical Batch

DAB: 040325-GCK

GCK

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
040325-GCK	01	GCK	STD			C04035A		ST62334		1	MM		GC1SHO			
040325-GCK	02	GCK	SPK			QC04035A		ST62529		1	MM		GC1SHO			
040325-GCK	03	GCK	SPK			QC04035B		ST62529		1	MM		GC1SHO			
040325-GCK	04	GCK	BLK			B04035A		HUMID BLANK		200	MM		GC1SHO			
040325-GCK	05	GCK	BLK			B04035B		METHOD BLANK		200	MM		KTO3DHC			
040325-GCK	06	GCK	SA	225100	25	2510025A	627	T-207	SCHMIDT	200	MM		KTO3DHC			
040325-GCK	07	GCK	SA	225100	35	2510035A	634	T-217	SCHMIDT	200	MM		KTO3DHC			
040325-GCK	08	GCK	SA	225100	40	2510040A	529	T-304	SCHMIDT	200	MM		KTO3DHC			
040325-GCK	09	GCK	SA	225100	41	2510041A	660	T-305	SCHMIDT	200	DA		KTO3DHC			
040325-GCK	10	GCK	BLK			B04035C		HUMID BLANK		200	DA		GC1SHO			
040325-GCK	11	GCK	BLK			B04035D		METHOD BLANK		200	DA		GC1SHO			
040325-GCK	12	GCK	SA	225100	60	2510060A	694	T-400	SCHMIDT	200	SS		KTO3DHC			

REVIEWED

DAILY ANALYTICAL BATCH FORM

DAB 033175 - GCM

ANALYST REPORT

Method GCMSHMY Chemist RA

	NA	Passed	Out
Instrument Tune	☑	☐	☐
GC/MS BFBTune	☑	☐	☐
Continuing Calibration	☐	☑	☐
Instrument Blank	☐	☑	☐
LCS	☐	☑	☐
LCD	☐	☑	☐

PASSING DAB NOTES:

OUT Narrative:

Analyst Certification

Out of Limits QC Approval

DATA PROCESSING

SDG Z25188

Lab ID 16-75, 18, 32, 46

	Processed
Continuing Calibration	☑
Method Blank	☑
Samples	☑
LCS/LCD	☑

Data Processing Chemist Certification

☑ Ready for Review

DATA REVIEW

Data Review Chemist Certification

☐ Reviewed

DAILY ANALYTICAL BATCH FORM

DAB 040125 - GLR

ANALYST REPORT

Method GC/SHORT Chemist GA

	NA	Passed	Out
Instrument Tune	☑	☐	☐
GC/MS BFBTune	☑	☐	☐
Continuing Calibration	☐	☑	☐
Instrument Blank	☐	☑	☐
LCS	☐	☑	☐
LCD	☐	☑	☐

PASSING DAB NOTES:

OUT Narrative:

Analyst Certification

Out of Limits QC Approval

DATA PROCESSING

SDG 225100

Lab ID 26-31, 33-34, 36-37

	Processed
Continuing Calibration	☑
Method Blank	☑
Samples	☑
LCS/LCD	☑

Data Processing Chemist Certification

☑ Ready for Review

DATA REVIEW

Data Review Chemist Certification

☐ Reviewed

DAILY ANALYTICAL BATCH FORM

DAB 040225 - GCU

ANALYST REPORT

Method GCISHORT Chemist RA

	NA	Passed	Out
Instrument Tune	☑	☐	☐
GC/MS BFBTune	☑	☐	☐
Continuing Calibration	☐	☑	☐
Instrument Blank	☐	☑	☐
LCS	☐	☑	☐
LCD	☐	☑	☐

PASSING DAB NOTES:

OUT Narrative:

Analyst Certification

Out of Limits QC Approval

DATA PROCESSING

SDG 225 (a)

Lab ID 22, 38-39, 42-45, 47-50

	Processed
Continuing Calibration	☐
Method Blank	☐
Samples	☐
LCS/LCD	☐

Data Processing Chemist Certification

☐ Ready for Review

DATA REVIEW

Data Review Chemist Certification

☐ Reviewed

DAILY ANALYTICAL BATCH FORM

DAB 040325 . GCK

ANALYST REPORT

Method GCISHORT Chemist RA

	NA	Passed	Out
Instrument Tune	☑	☐	☐
GC/MS BFBTune	☑	☐	☐
Continuing Calibration	☐	☑	☐
Instrument Blank	☐	☑	☐
LCS	☐	☑	☐
LCD	☐	☑	☐

PASSING DAB NOTES:

OUT Narrative:

Analyst Certification

Out of Limits QC Approval

DATA PROCESSING

SDG 225100

Lab ID 9, 25, 35, 40-41

	Processed
Continuing Calibration	☑
Method Blank	☑
Samples	☑
LCS/LCD	☑

Data Processing Chemist Certification

☑ Ready for Review

DATA REVIEW

Data Review Chemist Certification

☐ Reviewed

DAILY ANALYTICAL BATCH FORM

DAB 040825 -GCK

ANALYST REPORT

Method KT03DHC Chemist _____

	NA	Passed	Out
Instrument Tune	☑	☐	☐
GC/MS BFBTune	☑	☐	☐
Continuing Calibration	☐	☑	☐
Instrument Blank	☐	☑	☐
LCS	☐	☑	☐
LCD	☐	☑	☐

PASSING DAB NOTES:

OUT Narrative: _____

Analyst Certification

Out of Limits QC Approval _____

DATA PROCESSING

SDG 225100 Lab ID 01

Processed

Continuing Calibration	☐
Method Blank	☑
Samples	☑
LCS/LCD	☐

Data Processing Chemist Certification

☑ Ready for Review

DATA REVIEW

Data Review Chemist Certification

☑ Reviewed

Daily Analytical Batch

DAB: 040825-GCK

GCK

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
040825-GCK	01	GCK	STD			C04085A		ST62334		1	MM		GC1SHO			
040825-GCK	02	GCK	SPK			QC04085A		ST62529		1	MM		GC1SHO			
040825-GCK	03	GCK	SPK			QC04085B		ST62529		1	MM		GC1SHO			
040825-GCK	04	GCK	BLK			B04085A		HUMID BLANK		200	MM		GC1SHO			
040825-GCK	05	GCK	BLK			B04085B		METHOD BLANK		200	MM		GC1SHO			
040825-GCK	06	GCK	SA	225100	01	2510001A	668	T-101	SCHMIDT	200	MM		KTO3DHC			
040825-GCK	07	GCK	SA	225091	01	2509101A	393	SENTINEL MARCH	SCHMIDT	1	MM		KTO3DHC			

REVIEWED

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 1

Client: C.E. Schmidt
Client ID: T-101
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 668
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:40
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	723			
Final:	871			
Factor:	1.20			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** **4/18/2025** **225100** **2**

Client: C.E. Schmidt
Client ID: T-102
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 895
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 8:50
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	734			
Final:	913			
Factor:	1.24			

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 3

Client: C.E. Schmidt
Client ID: T-103
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 881
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:44
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	728			
Final:	870			
Factor:	1.20			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 4

Client: C.E. Schmidt
Client ID: T-104
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 860
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:37
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	723			
Final:	947			
Factor:	1.31			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 5

Client: C.E. Schmidt
Client ID: T-105
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 685
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 10:16
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	719			
Final:	882			
Factor:	1.23			

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 6

Client: C.E. Schmidt
Client ID: T-106
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 621
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:22
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	718			
Final:	880			
Factor:	1.23			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 7

Client: C.E. Schmidt
Client ID: T-107
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 644
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:22
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	720			
Final:	888			
Factor:	1.23			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 8

Client: C.E. Schmidt
Client ID: T-108
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 556
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Date:				
Initial :	702			
Final:	886			
Factor:	1.26			

Sampled: 3/19/2025 Time: 10:30
Received: 3/21/2025 Time: 14:30

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 9

Client: C.E. Schmidt
Client ID: T-109
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 694
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:25
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	713			
Final:	926			
Factor:	1.30			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 **225100** **10**

Client: C.E. Schmidt
Client ID: T-110
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 857
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 11:32
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	707			
Final:	901			
Factor:	1.27			

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 **225100** **11**

Client: C.E. Schmidt
Client ID: T-111
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 504
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:
Initial : 697
Final: 871
Factor: 1.25

Sampled: 3/19/2025 **Time:** 11:32
Received: 3/21/2025 **Time:** 14:30

Date:			

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 12

Client: C.E. Schmidt
Client ID: T-112
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 631
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:38
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	714			
Final:	882			
Factor:	1.24			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 13

Client: C.E. Schmidt
Client ID: T-113
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 690
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:05
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	705			
Final:	870			
Factor:	1.23			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 14

Client: C.E. Schmidt
Client ID: T-114
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 645
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:11
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	701			
Final:	888			
Factor:	1.27			

LABORATORY **Analytical Test:**

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 15

Client: C.E. Schmidt
Client ID: T-115
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 654
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 12:53
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	696			
Final:	881			
Factor:	1.27			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 16

Client: C.E. Schmidt
Client ID: T-116
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 782
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:03
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	706			
Final:	881			
Factor:	1.25			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 17

Client: C.E. Schmidt
Client ID: T-117
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 643
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 13:03
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	709			
Final:	883			
Factor:	1.25			

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 18

Client: C.E. Schmidt
Client ID: T-118
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 553
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:25
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	783			
Final:	891			
Factor:	1.14			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 19

Client: C.E. Schmidt
Client ID: T-201
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 726
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:23
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	738			
Final:	895			
Factor:	1.21			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 20

Client: C.E. Schmidt
Client ID: T-202
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 883
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 8:38
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	739			
Final:	873			
Factor:	1.18			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 **225100** **21**

Client: C.E. Schmidt
Client ID: T-203
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 858
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

	Initial :	Final:	Factor:
Date:			
	735	879	1.20

Sampled: 3/20/2025 **Time:** 8:33
Received: 3/21/2025 **Time:** 14:30

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 22

Client: C.E. Schmidt
Client ID: T-204
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 758
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:29
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	743		
Final:	874		
Factor:	1.18		

LABORATORY **Analytical Test:**

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 23

Client: C.E. Schmidt
Client ID: T-205
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 659
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 10:00
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	708			
Final:	897			
Factor:	1.27			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 **225100** **24**

Client: C.E. Schmidt
Client ID: T-206
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 882
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 9:55
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	710			
Final:	883			
Factor:	1.24			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 25

Client: C.E. Schmidt
Client ID: T-207
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 627
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

	Date:			
Initial :	692			
Final:	904			
Factor:	1.31			

Sampled: 3/20/2025 **Time:** 10:05
Received: 3/21/2025 **Time:** 14:30

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 26

Client: C.E. Schmidt
Client ID: T-208
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 791
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 10:08
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	709			
Final:	890			
Factor:	1.26			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 27

Client: C.E. Schmidt
Client ID: T-209
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 778
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:21
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	682			
Final:	887			
Factor:	1.30			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 28

Client: C.E. Schmidt
Client ID: T-210
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 714
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 11:21
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	695			
Final:	882			
Factor:	1.27			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 29

Client: C.E. Schmidt
Client ID: T-211
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 629
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

	Initial :	Final:	Factor:
Date:			
	685	881	1.29

Sampled: 3/20/2025 **Time:** 11:26
Received: 3/21/2025 **Time:** 14:30

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** **4/19/2025** **225100** **30**

Client: C.E. Schmidt
Client ID: T-212
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 502
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 11:30
Received: 3/21/2025 **Time:** 14:30

Date:				
Initial :	687			
Final:	930			
Factor:	1.35			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 31

Client: C.E. Schmidt
Client ID: T-213
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 712
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 11:30
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	678			
Final:	905			
Factor:	1.33			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 32

Client: C.E. Schmidt
Client ID: T-214
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 610
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:57
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	786			
Final:	875			
Factor:	1.11			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 **225100** **33**

Client: C.E. Schmidt
Client ID: T-215
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 751
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

	Date:			
Initial :	677			
Final:	874			
Factor:	1.29			

Sampled: 3/20/2025 **Time:** 12:44
Received: 3/21/2025 **Time:** 14:30

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 34

Client: C.E. Schmidt
Client ID: T-216
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 896
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:46
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	632		
Final:	874		
Factor:	1.38		

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** **4/19/2025** **225100** **35**

Client: C.E. Schmidt
Client ID: T-217
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 634
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 12:48
Received: 3/21/2025 **Time:** 14:30

Date:				
Initial :	693			
Final:	881			
Factor:	1.27			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 36

Client: C.E. Schmidt
Client ID: T-218
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 698
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:42
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	692		
Final:	877		
Factor:	1.27		

LABORATORY **Analytical Test:**

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 37

Client: C.E. Schmidt
Client ID: T-301
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 638
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 7:58
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	738			
Final:	879			
Factor:	1.19			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 **225100** **38**

Client: C.E. Schmidt
Client ID: T-302
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 857
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 8:04
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	734			
Final:	872			
Factor:	1.19			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 39

Client: C.E. Schmidt
Client ID: T-303
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 552
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 8:05
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	727			
Final:	877			
Factor:	1.21			

LABORATORY **Analytical Test:**

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 40

Client: C.E. Schmidt
Client ID: T-304
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 529
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 7:58
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	731			
Final:	878			
Factor:	1.20			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 41

Client: C.E. Schmidt
Client ID: T-305
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 660
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:22
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	709			
Final:	871			
Factor:	1.23			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 42

Client: C.E. Schmidt
Client ID: T-306
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 859
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:13
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	722		
Final:	874		
Factor:	1.21		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 43

Client: C.E. Schmidt
Client ID: T-307
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 636
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:10
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	720			
Final:	878			
Factor:	1.22			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 44

Client: C.E. Schmidt
Client ID: T-308
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 661
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 **Time:** 9:18
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	717			
Final:	875			
Factor:	1.22			

LABORATORY

Analytical Test:

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 45

Client: C.E. Schmidt
Client ID: T-309
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 579
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:24
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	726			
Final:	877			
Factor:	1.21			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 46

Client: C.E. Schmidt
Client ID: T-310
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 771
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:48
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	679			
Final:	874			
Factor:	1.29			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 47

Client: C.E. Schmidt
Client ID: T-311
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 605
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:35
Received: 3/21/2025 Time: 14:30

Date:				
Initial :	680			
Final:	873			
Factor:	1.28			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 48

Client: C.E. Schmidt
Client ID: T-312
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 990
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:30
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	689			
Final:	913			
Factor:	1.33			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 49

Client: C.E. Schmidt
Client ID: T-313
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 549
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:31
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	695			
Final:	872			
Factor:	1.25			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 50

Client: C.E. Schmidt
Client ID: T-314
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 784
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:38
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	701			
Final:	876			
Factor:	1.25			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCK TO-12	EPA TO-12 C2 to C12 CRYO	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Sample Data Packages

SDG Number **225100**

Lab Id Number **1**

Client ID T-101

Analytical Method TO-12

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **2**

Client ID T-102

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **3**

Client ID T-103

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **4**

Client ID T-104

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Analytical Report
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Calculations
Sample Calculations
Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **5**

Client ID T-105

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Analytical Report
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Sample Calculations
Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **6**

Client ID T-106

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Analytical Report
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Calculations
Sample Calculations
Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **7**

Client ID T-107

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Analytical Report
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Sample Calculations
Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **8**

Client ID T-108

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Analytical Report
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Chromatogram

Sample Data Packages

SDG Number 225100

Lab Id Number 9

Client ID T-109

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Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **10**

Client ID T-110

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Analytical Report
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Sample Data Packages

SDG Number **225100**

Lab Id Number **11**

Client ID T-111

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Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **12**

Client ID T-112

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Analytical Report
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Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **13**

Client ID T-113

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Analytical Report
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Calculations
Sample Calculations
Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **14**

Client ID T-114

Analytical Method TO-12

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Analytical Report
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Calculations
Sample Calculations
Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **15**

Client ID T-115

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **16**

Client ID T-116

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Analytical Report
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Calculations
Sample Calculations
Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **17**

Client ID T-117

Analytical Method TO-12

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Analytical Report
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Sample Calculations
Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **18**

Client ID T-118

Analytical Method TO-12

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Analytical Report
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Calculations
Sample Calculations
Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **19**

Client ID T-201

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Analytical Report
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Sample Calculations
Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **20**

Client ID T-202

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Analytical Report
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Sample Calculations
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Sample Data Packages

SDG Number **225100**

Lab Id Number **21**

Client ID T-203

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Analytical Report
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Sample Calculations
Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **22**

Client ID T-204

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Analytical Report
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Sample Calculations
Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **23**

Client ID T-205

Analytical Method TO-12

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Chromatogram

Sample Data Packages

SDG Number **225100**

Lab Id Number **24**

Client ID T-206

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SDG Number **225100**

Lab Id Number **25**

Client ID T-207

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SDG Number **225100**

Lab Id Number **26**

Client ID T-208

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SDG Number **225100**

Lab Id Number **27**

Client ID T-209

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SDG Number **225100**

Lab Id Number **28**

Client ID T-210

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SDG Number **225100**

Lab Id Number **29**

Client ID T-211

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SDG Number **225100**

Lab Id Number **30**

Client ID T-212

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SDG Number **225100**

Lab Id Number **31**

Client ID T-213

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SDG Number **225100**

Lab Id Number **32**

Client ID T-214

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SDG Number **225100**

Lab Id Number **33**

Client ID T-215

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SDG Number **225100**

Lab Id Number **34**

Client ID T-216

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SDG Number **225100**

Lab Id Number **35**

Client ID T-217

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SDG Number **225100**

Lab Id Number **36**

Client ID T-218

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SDG Number **225100**

Lab Id Number **37**

Client ID T-301

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SDG Number **225100**

Lab Id Number **38**

Client ID T-302

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SDG Number **225100**

Lab Id Number **39**

Client ID T-303

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Sample Data Packages

SDG Number **225100**

Lab Id Number **40**

Client ID T-304

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SDG Number **225100**

Lab Id Number **41**

Client ID T-305

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SDG Number **225100**

Lab Id Number **42**

Client ID T-306

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SDG Number **225100**

Lab Id Number **43**

Client ID T-307

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SDG Number **225100**

Lab Id Number **44**

Client ID T-308

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SDG Number **225100**

Lab Id Number **45**

Client ID T-309

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SDG Number **225100**

Lab Id Number **46**

Client ID T-310

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SDG Number 225100

Lab Id Number 47

Client ID T-311

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SDG Number **225100**

Lab Id Number **48**

Client ID T-312

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Sample Data Packages

SDG Number **225100**

Lab Id Number **49**

Client ID T-313

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Sample Data Packages

SDG Number **225100**

Lab Id Number **50**

Client ID T-314

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Analytical Report
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Sample Calculations
Chromatogram

Area Percent Report

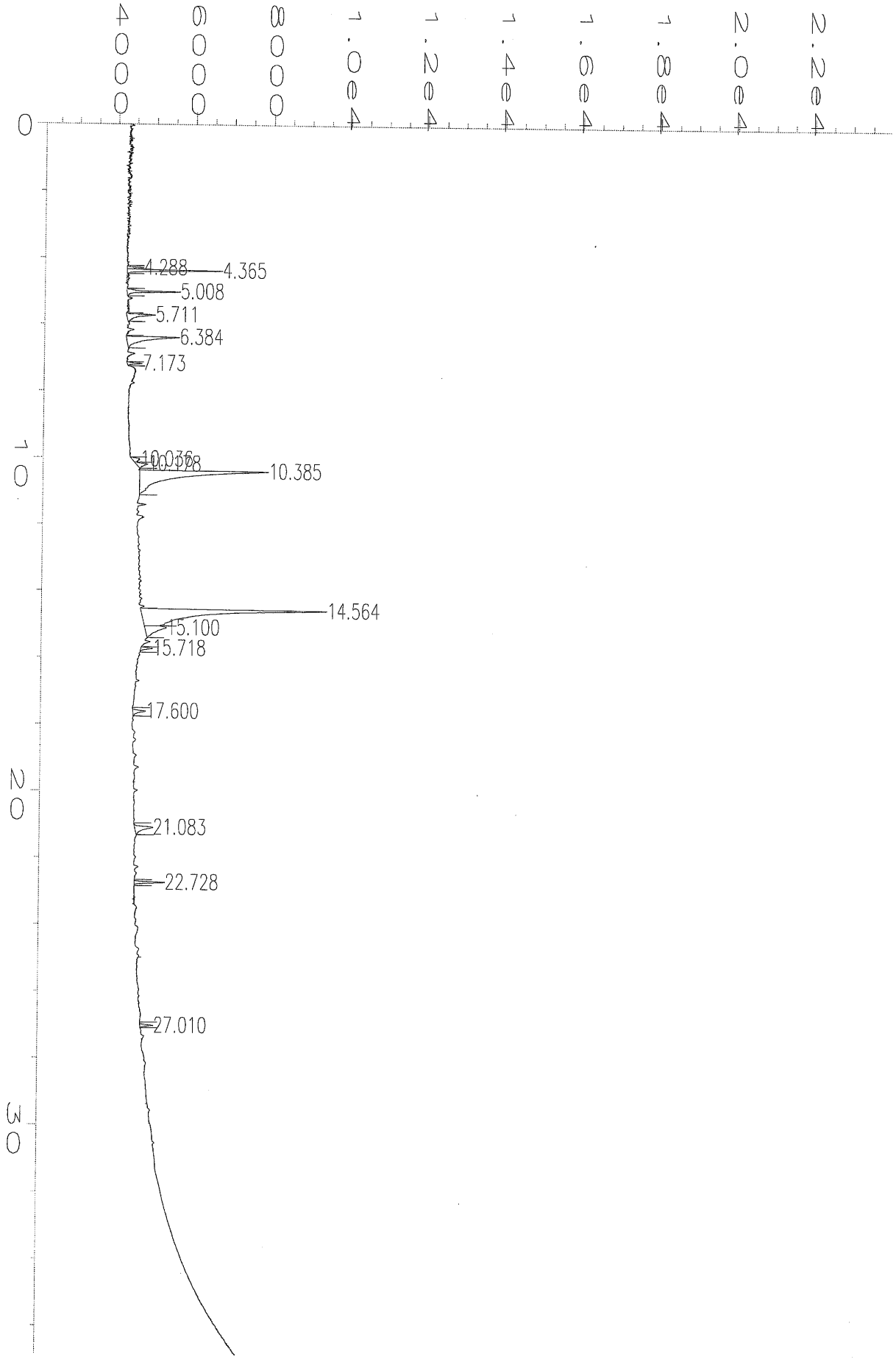
Data File Name : C:\HPCHEM\1\DATA\04085K\2510001A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : T-101
Run Time Bar Code:
Acquired on : 08 Apr 25 12:12 PM
Report Created on: 08 Apr 25 12:49 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04085K\2510001A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.288	1080	436	PV	0.038	0.8740
2	4.365	6441	2471	VV	0.040	5.2129
3	5.008	4017	1380	BB	0.043	3.2511
4	5.711	3686	745	PV	0.068	2.9833
5	6.384	8639	1372	BV	0.082	6.9917
6	7.173	1073	388	BV	0.042	0.8682
7	10.036	1213	210	BV	0.085	0.9818
8	10.178	1474	304	VB	0.065	1.1926
9	10.385	34520	3309	BB	0.131	27.9370
10	14.564	46971	4790	PV	0.126	38.0129
11	15.100	5729	555	VB	0.129	4.6364
12	15.718	968	288	BB	0.052	0.7833
13	17.600	1455	319	BB	0.067	1.1772
14	21.083	3019	461	BB	0.094	2.4429
15	22.728	2292	781	BB	0.046	1.8549
16	27.010	988	329	BB	0.048	0.7998

Total area = 123565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17.600
21.083
22.728
27.010
C:\HPCHEM\1\DATA\0405K\251 0001A.D

Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\03275K\2510002A.D
Operator : SS
Instrument : ANALYZER1
Sample Name : T-102
Run Time Bar Code:
Acquired on : 27 Mar 25 04:44 PM
Report Created on: 29 Mar 25 01:08 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03275K\2510002A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.508	830	577	VV	0.022	0.2513
2	3.553	1749	670	VV	0.038	0.5294
3	3.643	1178	448	VV	0.035	0.3566
4	3.922	840	560	VV	0.024	0.2543
5	4.044	4833	2899	VV	0.025	1.4631
6	4.108	4154	1075	VV	0.053	1.2574
7	4.270	1037	302	PV	0.048	0.3139
8	4.543	877	306	VB	0.039	0.2654
9	4.701	830	306	BV	0.038	0.2514
10	5.218	5209	1204	VV	0.065	1.5768
11	7.356	6048	1904	VV	0.042	1.8307
12	7.416	3281	1970	VV	0.025	0.9931
13	7.444	3247	1961	VV	0.028	0.9830
14	7.489	2283	1152	VV	0.028	0.6910
15	7.535	2411	1093	VV	0.029	0.7298
16	7.584	2290	1018	VV	0.030	0.6933
17	7.649	2417	833	VV	0.044	0.7318
18	8.278	2657	709	BB	0.054	0.8045
19	11.515	1800	354	PB	0.066	0.5448
20	11.752	14691	1726	BV	0.109	4.4473
21	12.427	1236	319	PV	0.056	0.3743
22	12.704	3609	579	VB	0.083	1.0926
23	15.131	1227	247	BV	0.067	0.3714
24	15.293	11737	845	VV	0.169	3.5530
25	16.119	1682	508	BV	0.050	0.5090
26	17.832	2709	551	BB	0.065	0.8199
27	18.185	15888	1117	BV	0.183	4.8096
28	18.610	868	219	VV	0.057	0.2627
29	21.116	5132	838	BB	0.085	1.5535
30	22.721	11737	4096	BV	0.045	3.5530
31	23.774	1550	284	BV	0.072	0.4692
32	23.987	3293	471	PB	0.097	0.9968
33	24.595	4687	459	BV	0.138	1.4189
34	25.912	2591	497	BB	0.078	0.7843
35	26.752	5528	823	BV	0.094	1.6735
36	26.983	6402	1697	VV	0.056	1.9379

37	27.098	2585	463	VV	0.083	0.7824
38	27.229	2868	672	VB	0.064	0.8682
39	27.642	13666	2573	PV	0.081	4.1370
40	27.769	18327	3025	VV	0.088	5.5478
41	28.002	16117	2644	VV	0.086	4.8787
42	28.693	2295	236	BB	0.140	0.6948
43	28.922	10558	4189	BV	0.036	3.1961
44	29.259	94903	3688	PV	0.322	28.7285
45	29.430	13742	1866	VB	0.100	4.1599
46	30.152	8481	2961	BV	0.048	2.5675
47	31.505	4263	617	PB	0.098	1.2906

Total area = 330344

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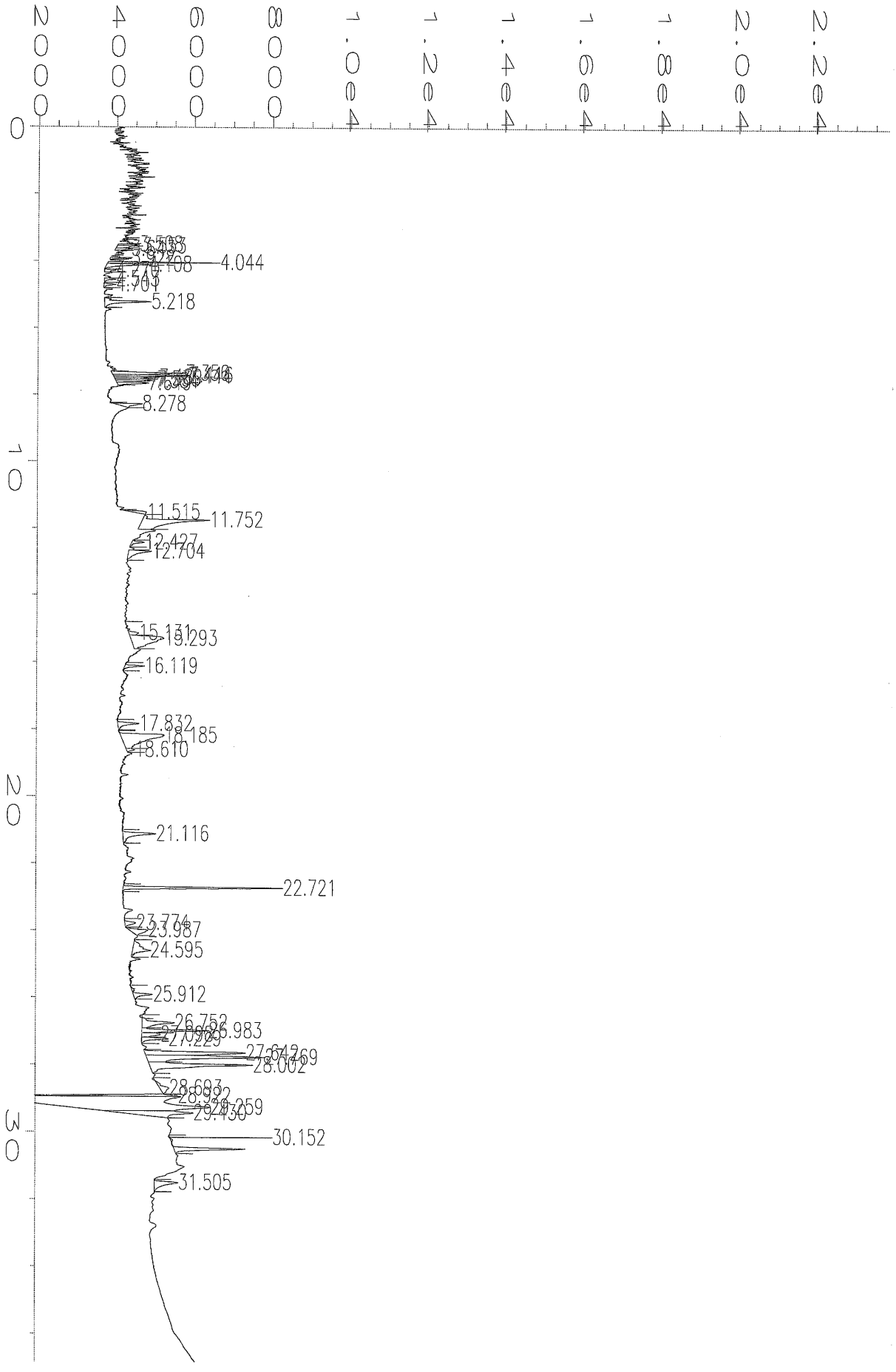
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31.505
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Area Percent Report

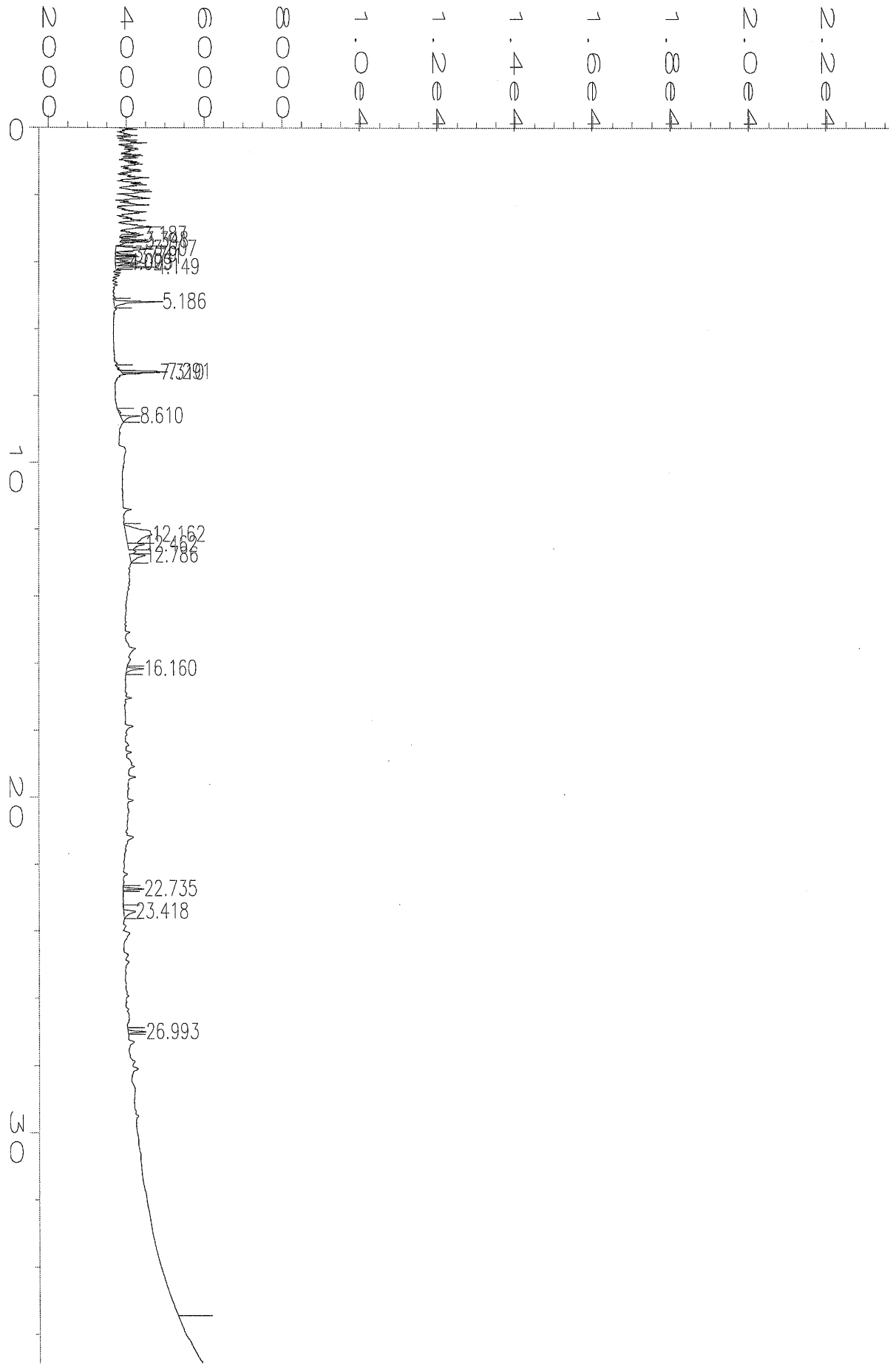
Data File Name : C:\HPCHEM\1\DATA\03275K\2510003A.D
Operator : SS
Instrument : ANALYZER1
Sample Name : T-103
Run Time Bar Code:
Acquired on : 27 Mar 25 05:46 PM
Report Created on: 29 Mar 25 01:08 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03275K\2510003A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.187	1471	567	VV	0.043	2.8339
2	3.348	832	637	VV	0.019	1.6031
3	3.391	966	657	VV	0.025	1.8618
4	3.607	4686	983	PV	0.067	9.0263
5	3.779	1121	502	VV	0.032	2.1598
6	3.841	1239	602	VV	0.030	2.3862
7	4.003	1215	392	PV	0.052	2.3403
8	4.029	1345	358	VV	0.049	2.5911
9	4.149	2474	1091	VV	0.037	4.7662
10	5.186	4379	1267	BV	0.049	8.4347
11	7.291	2433	1216	BV	0.033	4.6872
12	7.310	1537	990	VV	0.024	2.9616
13	8.610	2191	509	BB	0.055	4.2203
14	12.162	13595	673	BV	0.243	26.1896
15	12.462	2847	435	VV	0.087	5.4848
16	12.786	2794	399	VB	0.092	5.3823
17	16.160	1637	439	BB	0.051	3.1538
18	22.735	1588	545	BB	0.046	3.0582
19	23.418	2144	309	BB	0.087	4.1301
20	26.993	1416	463	BB	0.047	2.7286

Total area = 51911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8.610
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16.160
22.735
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C:\HPCHEM\1\DATA\0922\5K\251 0003A.D

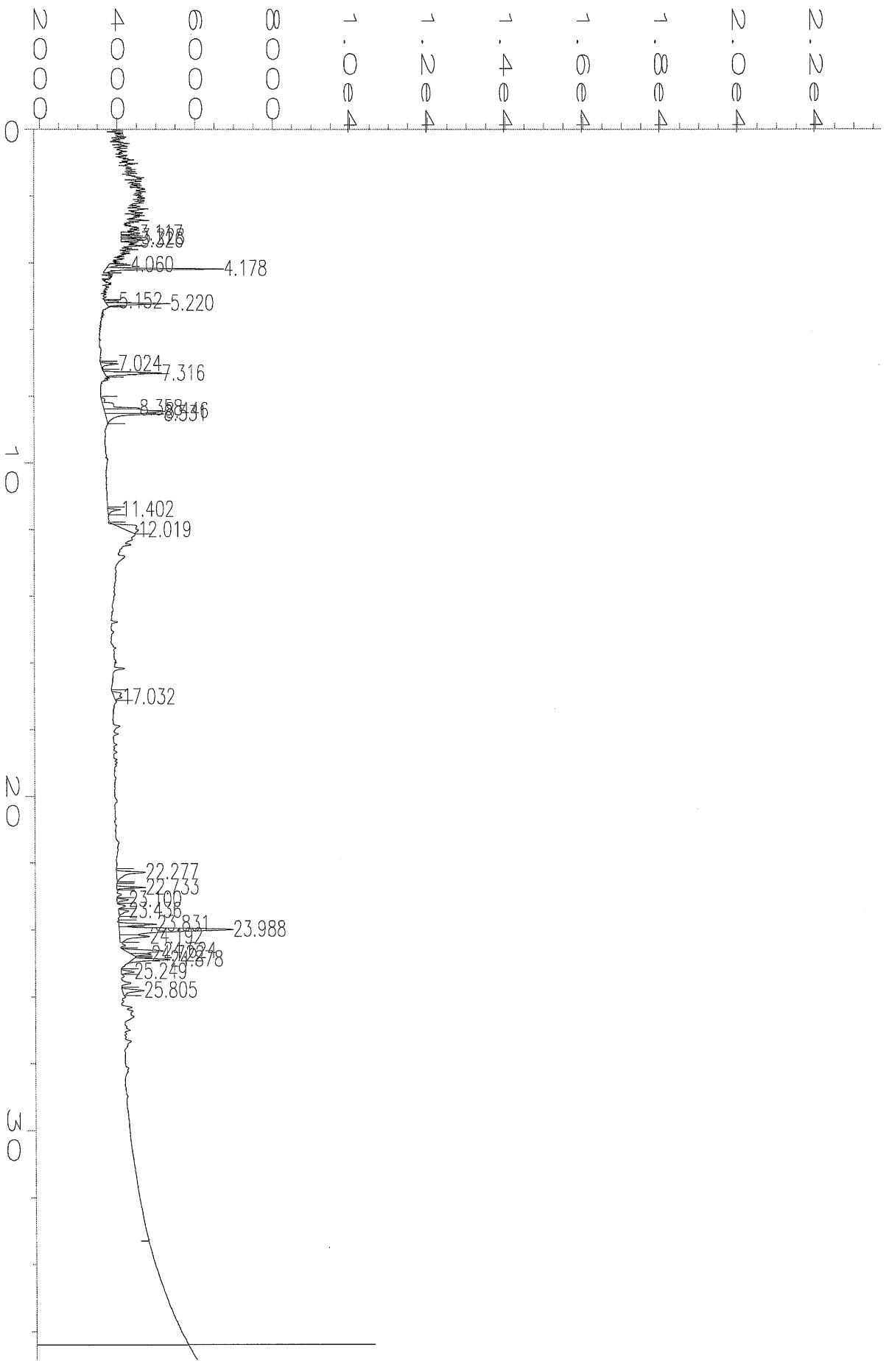
Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\03275K\2510004A.D
Operator : SS
Instrument : ANALYZER1
Sample Name : T-104
Run Time Bar Code:
Acquired on : 27 Mar 25 06:45 PM
Report Created on: 29 Mar 25 01:08 PM
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03275K\2510004A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.117	1287	475	PV	0.040	1.1794
2	3.228	948	536	VV	0.026	0.8690
3	3.326	1493	621	VV	0.043	1.3684
4	4.060	1501	549	PV	0.038	1.3755
5	4.178	7971	3038	VV	0.039	7.3047
6	5.152	986	353	PV	0.039	0.9039
7	5.220	5017	1635	VV	0.046	4.5970
8	7.024	1592	444	BV	0.051	1.4585
9	7.316	6496	1692	PV	0.049	5.9524
10	8.358	4960	919	BV	0.090	4.5451
11	8.446	9629	1560	VV	0.080	8.8238
12	8.531	6065	1503	VB	0.053	5.5579
13	11.402	1316	335	BB	0.056	1.2062
14	12.019	4912	306	BB	0.201	4.5008
15	17.032	2183	196	BV	0.174	2.0000
16	22.277	4464	740	BB	0.084	4.0909
17	22.733	2093	738	BB	0.045	1.9183
18	23.100	1161	289	BV	0.062	1.0643
19	23.436	1435	256	VB	0.081	1.3151
20	23.831	3600	972	BV	0.058	3.2985
21	23.988	20259	2934	VV	0.102	18.5648
22	24.192	4633	767	VV	0.085	4.2451
23	24.624	4996	946	PV	0.079	4.5781
24	24.722	1760	506	VB	0.058	1.6124
25	24.878	4006	963	BB	0.063	3.6707
26	25.249	1438	330	BV	0.067	1.3178
27	25.805	2926	555	BV	0.079	2.6813

Total area = 109128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25.805

Area Percent Report

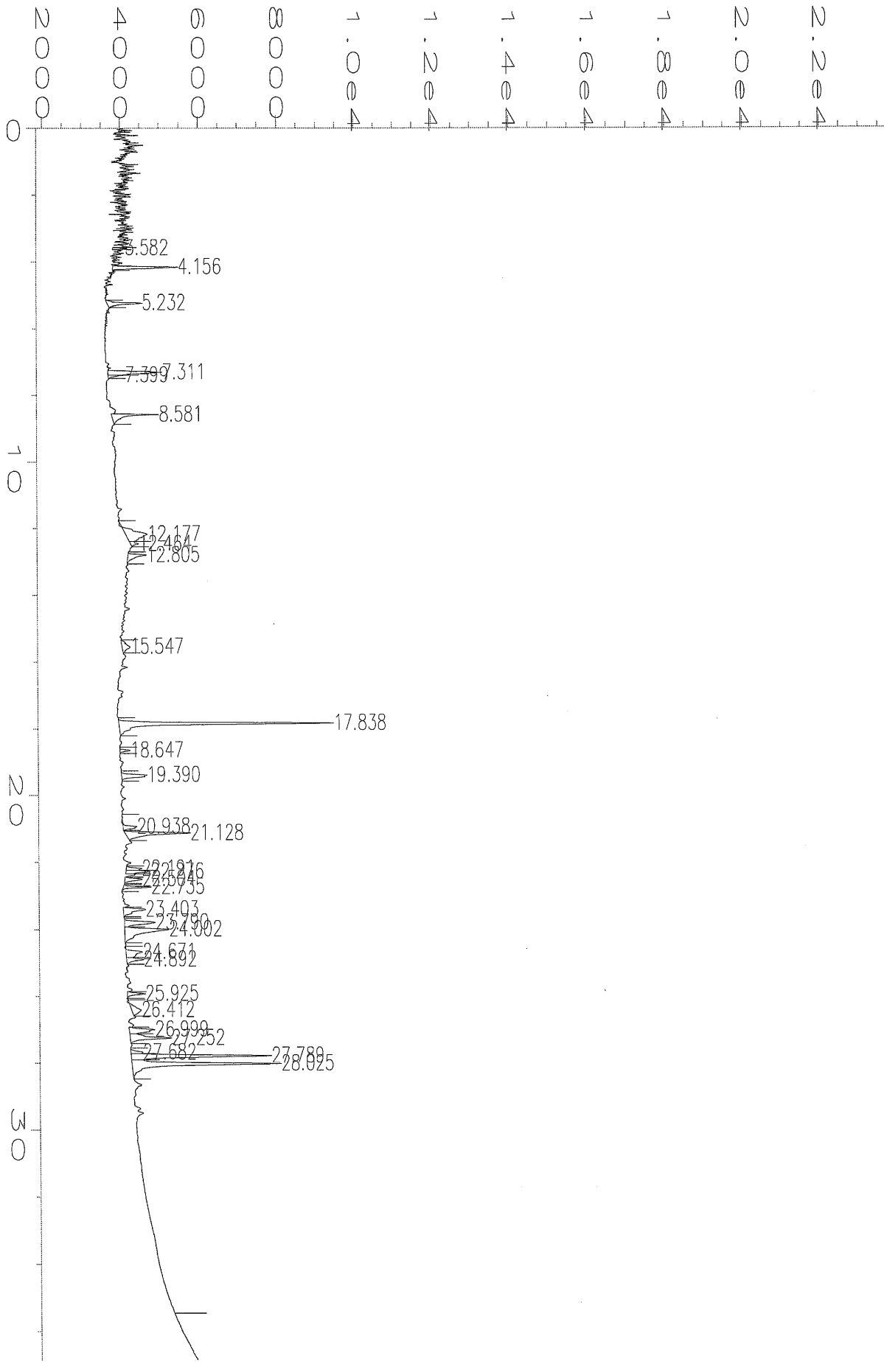
Data File Name : C:\HPCHEM\1\DATA\03275K\2510005A.D
Operator : SS
Instrument : ANALYZER1
Sample Name : T-105
Run Time Bar Code:
Acquired on : 27 Mar 25 07:41 PM
Report Created on: 29 Mar 25 01:09 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03275K\2510005A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.582	824	383	VV	0.036	0.4850
2	4.156	5789	1675	VV	0.050	3.4083
3	5.232	3749	909	PV	0.058	2.2069
4	7.311	6752	1402	VV	0.070	3.9751
5	7.399	952	434	VV	0.037	0.5604
6	8.581	4865	1221	VB	0.053	2.8642
7	12.177	7768	556	BV	0.168	4.5734
8	12.464	1041	201	VB	0.071	0.6131
9	12.805	2867	465	BV	0.086	1.6880
10	15.547	2441	212	VB	0.153	1.4373
11	17.838	25458	5526	BB	0.067	14.9876
12	18.647	951	266	BB	0.056	0.5596
13	19.390	4149	654	BB	0.092	2.4429
14	20.938	1791	354	BV	0.076	1.0542
15	21.128	9152	1671	PV	0.079	5.3880
16	22.191	1572	388	BV	0.067	0.9253
17	22.276	2756	636	VV	0.064	1.6223
18	22.504	2244	444	VB	0.079	1.3214
19	22.735	2260	713	BB	0.049	1.3303
20	23.403	4076	570	VB	0.105	2.3996
21	23.790	4960	796	BV	0.100	2.9202
22	24.002	11047	1130	VB	0.131	6.5034
23	24.671	3604	425	BV	0.117	2.1219
24	24.892	2365	422	VV	0.079	1.3926
25	25.925	1906	466	VB	0.062	1.1219
26	26.412	2625	251	BV	0.144	1.5455
27	26.999	4482	661	VV	0.098	2.6390
28	27.252	6256	1047	VV	0.085	3.6829
29	27.682	1345	304	BV	0.066	0.7920
30	27.789	17419	3590	VV	0.073	10.2550
31	28.025	22392	3820	VB	0.085	13.1827

Total area = 169857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Area Percent Report

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Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-106
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 28 Mar 25 11:21 AM
Instrument Method: KTO3DHC.MTH
Report Created on: 28 Mar 25 11:58 AM
Analysis Method : KTO3DHC.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\HPCHEM\1\DATA\03285K\2510006A.D

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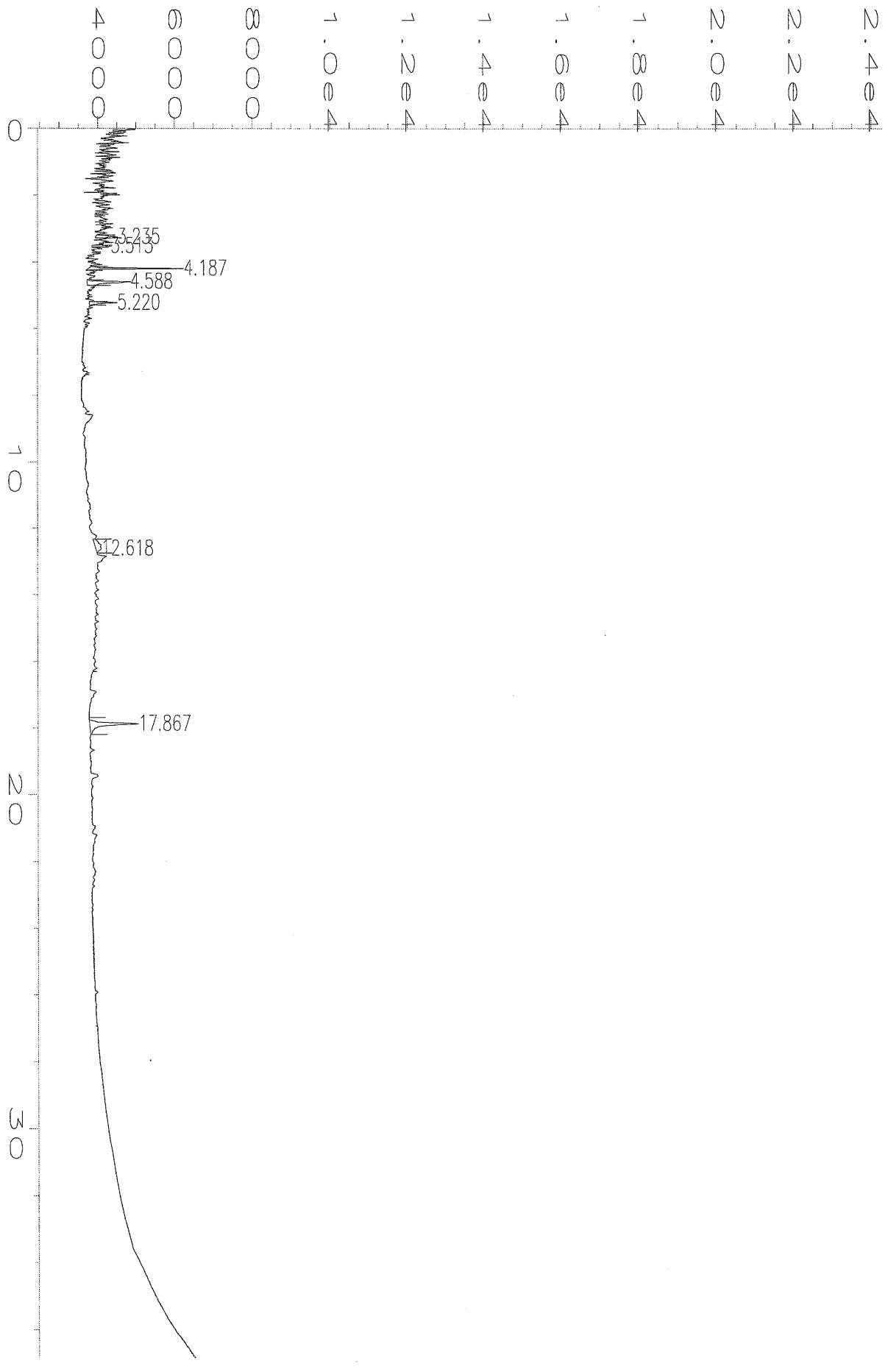
1	3.235	1618	599	VV	0.038	6.5058
2	3.513	1144	528	VV	0.036	4.6025
3	4.187	5111	2481	BV	0.031	20.5536
4	4.588	4697	1134	VV	0.059	18.8884
5	5.220	2095	739	VV	0.041	8.4249
6	12.618	2816	150	VV	0.267	11.3242
7	17.867	7385	1278	BB	0.081	29.7005

Total area = 24866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12.618
17.867

Area Percent Report

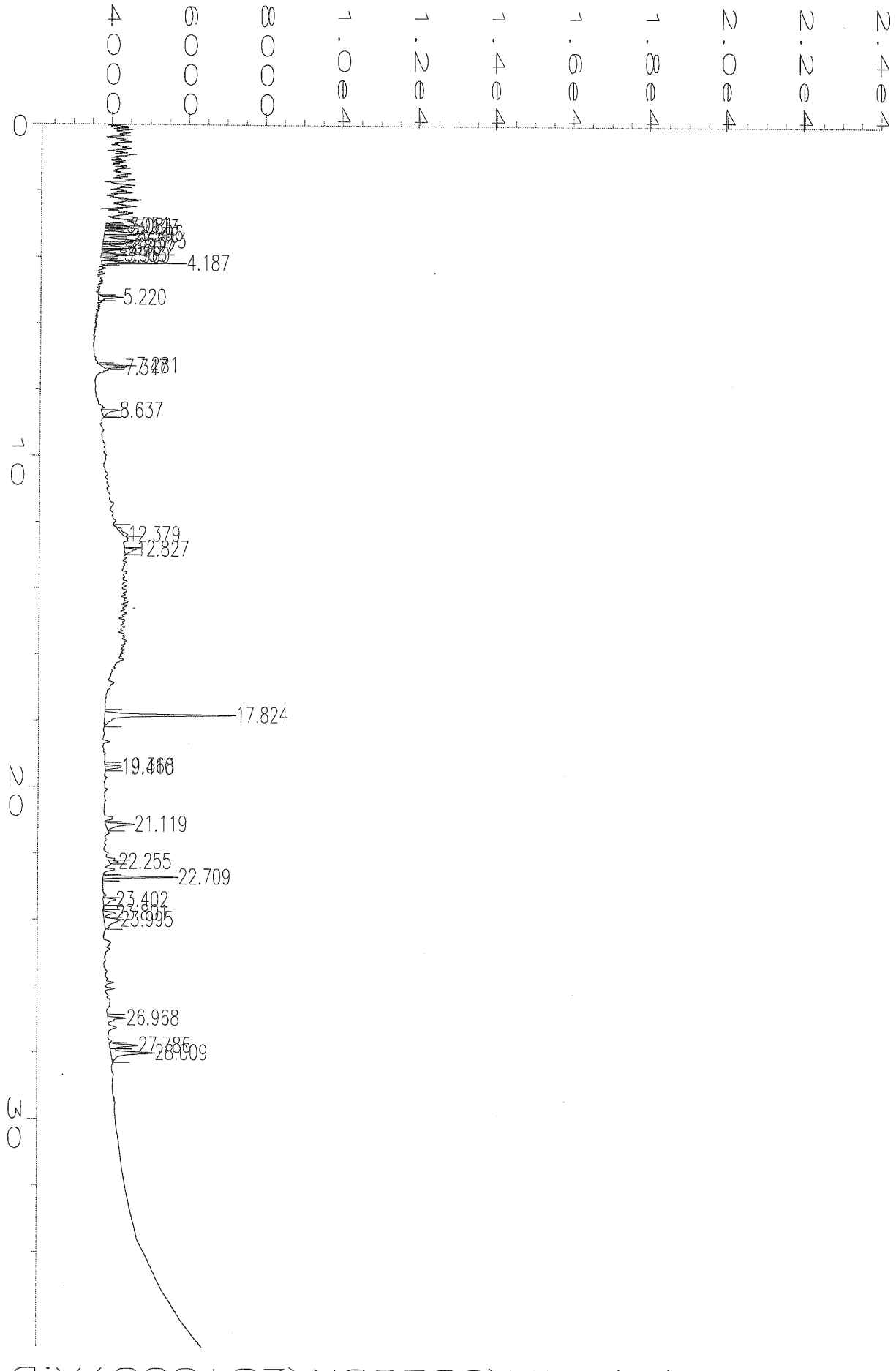
Data File Name : C:\HPCHEM\1\DATA\03285K\2510007A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-107
Run Time Bar Code:
Acquired on : 28 Mar 25 12:09 PM
Report Created on: 28 Mar 25 12:46 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03285K\2510007A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.054	972	525	BV	0.027	1.0902
2	3.081	822	631	VV	0.022	0.9216
3	3.123	936	784	VV	0.020	1.0500
4	3.296	3909	976	VV	0.051	4.3843
5	3.340	2806	822	VV	0.057	3.1469
6	3.513	4067	1028	VV	0.050	4.5622
7	3.557	1379	747	VV	0.031	1.5470
8	3.680	1073	414	VV	0.043	1.2030
9	3.722	1812	825	VV	0.032	2.0323
10	3.761	1571	675	VV	0.039	1.7627
11	3.933	1220	589	VV	0.028	1.3683
12	3.960	1424	670	VV	0.035	1.5975
13	4.187	5010	2203	VV	0.033	5.6200
14	5.220	2532	652	VV	0.054	2.8399
15	7.281	2235	915	BV	0.034	2.5074
16	7.347	998	525	VV	0.028	1.1195
17	8.637	2127	482	VB	0.057	2.3860
18	12.379	1468	139	BV	0.130	1.6472
19	12.827	1846	309	BB	0.081	2.0712
20	17.824	16082	3386	BB	0.069	18.0389
21	19.368	1306	421	BV	0.046	1.4644
22	19.410	1307	404	VB	0.044	1.4664
23	21.119	4255	737	PV	0.081	4.7725
24	22.255	897	230	VV	0.057	1.0056
25	22.709	5603	1932	BB	0.045	6.2847
26	23.402	2121	317	PB	0.087	2.3793
27	23.801	1805	314	BV	0.073	2.0246
28	23.995	4222	432	VB	0.125	4.7359
29	26.968	2095	470	BB	0.062	2.3494
30	27.786	3771	733	VV	0.074	4.2302
31	28.009	7481	1131	VB	0.092	8.3911

Total area = 89153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Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\03285K\2510008A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-108
Run Time Bar Code:
Acquired on : 28 Mar 25 12:57 PM
Report Created on: 28 Mar 25 01:34 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03285K\2510008A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.037	849	382	BV	0.033	0.0009
2	3.071	1064	607	VV	0.027	0.0011
3	3.130	1342	436	VV	0.051	0.0014
4	3.241	994	481	VV	0.028	0.0010
5	3.419	1536	816	PV	0.031	0.0016
6	3.492	65520	13225	VV	0.066	0.0687
7	3.607	16985	4773	VV	0.059	0.0178
8	3.727	10494	3602	VV	0.045	0.0110
9	3.829	127637	17841	VV	0.089	0.1338
10	4.092	621346	241316	VV	0.037	0.6513
11	4.148	138057	88544	VV	0.026	0.1447
12	4.204	681700	182380	VV	0.051	0.7146
13	4.304	141516	40054	VV	0.059	0.1483
14	4.481	58893	20966	VV	0.042	0.0617
15	4.540	28916	13836	VV	0.035	0.0303
16	4.591	168510	21379	VV	0.100	0.1766
17	5.028	13470	2468	VV	0.076	0.0141
18	5.085	4226	2265	VV	0.031	0.0044
19	5.189	67652	14256	VV	0.079	0.0709
20	5.230	71611	18738	VV	0.056	0.0751
21	5.432	1100512	158646	VV	0.098	1.1536
22	5.610	94628	38188	VV	0.033	0.0992
23	5.749	1037866	113559	VV	0.115	1.0880
24	6.214	570658	89666	VV	0.087	0.5982
25	6.377	38006	15688	VV	0.033	0.0398
26	6.532	316485	28818	VV	0.144	0.3318
27	7.340	3199614	488319	VV	0.081	3.3540
28	7.459	315453	175921	VV	0.030	0.3307
29	7.567	2838821	346411	VV	0.103	2.9758
30	7.720	1843479	349651	VV	0.077	1.9325
31	7.849	391544	116099	VV	0.056	0.4104
32	7.952	1637131	224610	VV	0.094	1.7161
33	8.254	2428123	415082	VV	0.092	2.5453
34	8.451	3711447	443624	VV	0.125	3.8906
35	8.721	132066	24159	VV	0.077	0.1384

36	8.890	1750918	323914	VV	0.083	1.8354
37	9.065	4206221	506605	VV	0.119	4.4092
38	9.418	363526	22947	VV	0.192	0.3811
39	9.771	130020	10604	VV	0.204	0.1363
40	10.155	65412	9618	VV	0.092	0.0686
41	10.458	309285	41707	VV	0.103	0.3242
42	11.208	929324	174672	VV	0.076	0.9742
43	11.420	79842	14817	VV	0.076	0.0837
44	11.478	115791	13156	VV	0.147	0.1214
45	11.877	581633	144748	VV	0.067	0.6097
46	11.961	1572257	324023	VV	0.073	1.6481
47	12.081	275771	70694	VV	0.059	0.2891
48	12.170	689805	142616	VV	0.072	0.7231
49	12.330	739492	149561	VV	0.073	0.7752
50	12.739	8189081	1023186	VV	0.110	8.5843
51	12.983	902966	223579	VV	0.058	0.9465
52	13.171	2532553	595756	VV	0.061	2.6548
53	13.687	88241	23472	VV	0.055	0.0925
54	13.762	66310	6574	VV	0.168	0.0695
55	14.318	1422966	392651	VV	0.055	1.4916
56	14.513	175479	38171	VV	0.065	0.1839
57	14.704	350435	101611	VV	0.052	0.3673
58	14.812	54843	15716	VV	0.051	0.0575
59	14.887	81002	25962	VV	0.046	0.0849
60	14.994	295308	76427	VV	0.055	0.3096
61	15.055	268813	73716	VV	0.053	0.2818
62	15.291	101588	25047	VV	0.060	0.1065
63	15.491	207720	48723	VV	0.062	0.2177
64	15.702	177970	38730	VV	0.070	0.1866
65	15.913	454176	105771	VV	0.063	0.4761
66	16.106	296471	91570	VV	0.049	0.3108
67	16.182	114843	29610	VV	0.056	0.1204
68	16.275	111871	31424	VV	0.053	0.1173
69	16.361	357487	53594	VV	0.093	0.3747
70	16.505	68930	21129	VV	0.049	0.0723
71	16.645	732074	143456	VV	0.075	0.7674
72	16.793	388493	75969	VV	0.073	0.4072
73	17.002	295702	79138	VV	0.056	0.3100
74	17.153	79858	14953	VV	0.076	0.0837
75	17.310	13917	3174	VV	0.064	0.0146
76	17.567	15596	1802	VV	0.126	0.0163
77	18.027	3.7928E+007	3504268	VV	0.148	39.7586
78	18.130	525134	193123	VV	0.045	0.5505
79	18.207	292916	70218	VV	0.061	0.3071
80	18.377	88554	26234	VV	0.050	0.0928
81	18.450	60199	18122	VV	0.050	0.0631
82	18.569	29313	9762	VV	0.050	0.0307
83	18.648	417220	123378	VV	0.052	0.4374
84	18.879	91915	28541	VV	0.050	0.0964
85	19.027	991097	268882	VV	0.055	1.0389
86	19.290	60267	19652	VV	0.051	0.0632

87	19.375	750124	226159	VV	0.050	0.7863
88	19.429	657429	206752	VV	0.048	0.6892
89	19.728	143214	32978	VV	0.063	0.1501
90	19.969	11128	3742	VV	0.050	0.0117
91	20.078	258532	57119	VV	0.065	0.2710
92	20.395	60944	13484	VV	0.065	0.0639
93	20.500	14410	2863	VV	0.076	0.0151
94	20.627	48673	12873	VV	0.057	0.0510
95	20.840	60901	20337	VV	0.045	0.0638
96	20.907	238836	48248	VV	0.070	0.2504
97	21.078	152904	39270	VV	0.060	0.1603
98	21.175	31135	6718	VV	0.077	0.0326
99	21.304	47919	13500	VV	0.053	0.0502
100	21.368	40030	9021	VV	0.064	0.0420
101	21.529	44592	8474	VV	0.074	0.0467
102	21.721	73671	13031	VV	0.078	0.0772
103	21.884	12456	3885	VV	0.046	0.0131
104	21.968	41268	12734	VV	0.055	0.0433
105	22.002	44277	12419	VV	0.059	0.0464
106	22.143	94177	20585	VV	0.064	0.0987
107	22.226	101690	23545	VV	0.063	0.1066
108	22.318	44455	9235	VV	0.068	0.0466
109	22.449	67159	11656	VV	0.092	0.0704
110	22.650	9724	2014	VV	0.069	0.0102
111	22.715	5785	1298	VV	0.074	0.0061
112	22.903	11023	2552	VV	0.064	0.0116
113	23.054	18764	4995	VV	0.057	0.0197
114	23.160	7310	1949	VV	0.056	0.0077
115	23.248	27263	5742	VV	0.071	0.0286
116	23.395	31699	6862	VV	0.068	0.0332
117	23.479	15257	2878	VV	0.074	0.0160
118	23.667	14524	2857	VV	0.073	0.0152
119	23.798	32101	5916	VV	0.077	0.0337
120	23.970	22010	3884	VV	0.082	0.0231
121	24.161	14916	2705	VV	0.078	0.0156
122	24.257	11658	2047	VV	0.085	0.0122
123	24.422	9160	1325	VV	0.109	0.0096
124	24.629	11567	1983	VV	0.086	0.0121
125	24.715	9575	1575	VV	0.093	0.0100
126	24.852	12156	2015	VV	0.086	0.0127
127	25.043	5367	1192	VV	0.068	0.0056
128	25.220	7570	1292	VV	0.084	0.0079
129	25.558	5214	903	VV	0.083	0.0055
130	25.770	2965	622	VV	0.070	0.0031
131	25.887	49358	12127	VV	0.063	0.0517
132	26.286	4129	657	VB	0.087	0.0043

Total area = 9.53958E+007

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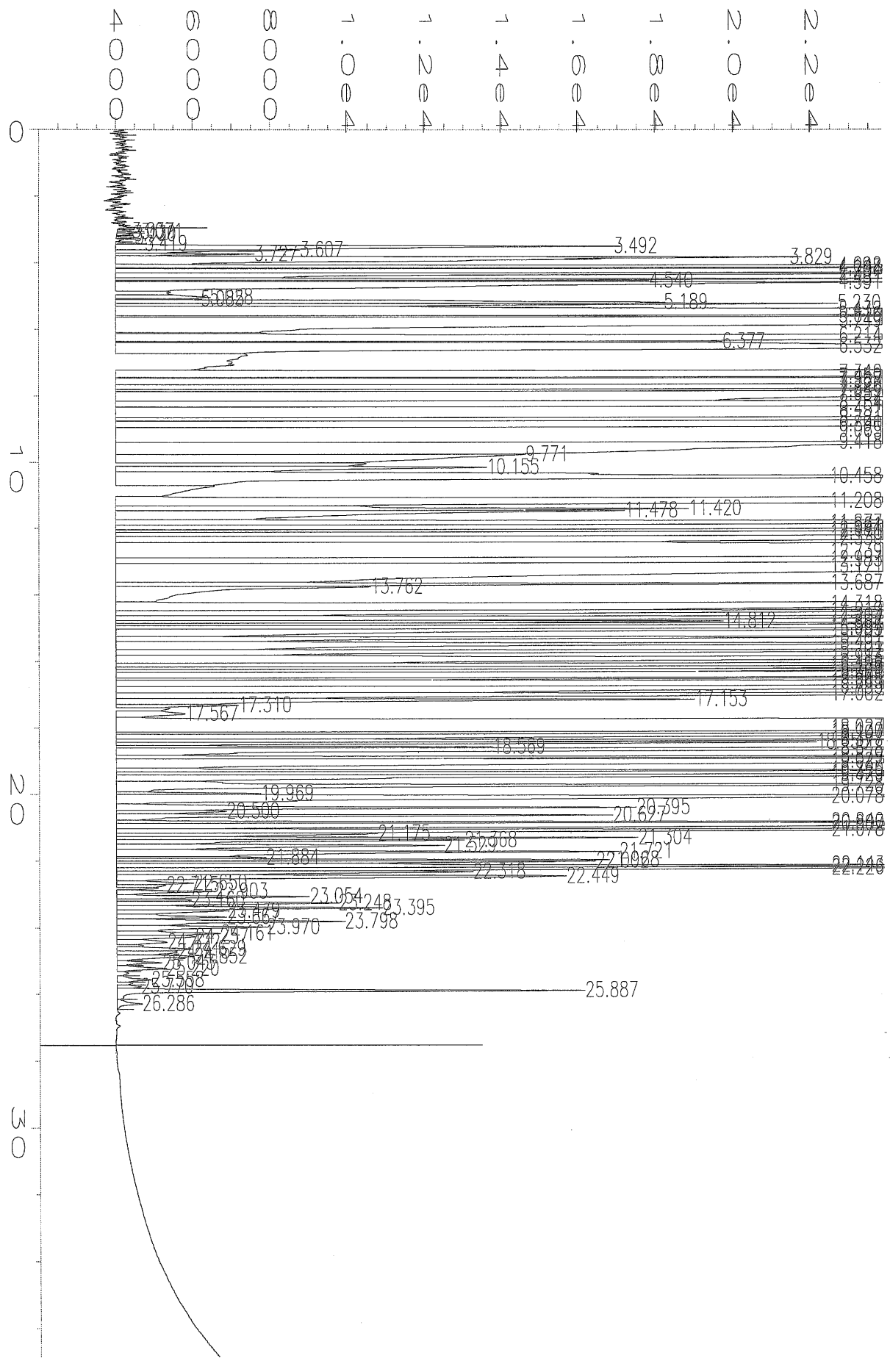
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Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04035K\2510009A.D
Operator : SS
Instrument : ANALYZER1
Sample Name : T-109
Run Time Bar Code:
Acquired on : 03 Apr 25 05:00 PM
Report Created on: 03 Apr 25 05:37 PM
Sample Info : STANTEC

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04035K\2510009A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.309	968	348	VV	0.039	0.0929
2	3.426	1668	668	VV	0.034	0.1600
3	3.637	862	404	VV	0.032	0.0826
4	3.995	1293	675	PV	0.027	0.1240
5	4.108	3473	2224	PV	0.025	0.3331
6	5.135	951	340	BV	0.041	0.0912
7	5.198	3863	1122	VV	0.049	0.3705
8	8.439	6513	952	VB	0.086	0.6247
9	12.147	10287	791	BV	0.164	0.9867
10	12.319	1931	323	VV	0.077	0.1852
11	12.472	1039	230	VB	0.065	0.0996
12	12.783	9730	1987	BV	0.069	0.9333
13	14.420	1148	278	BB	0.061	0.1102
14	16.781	11827	1678	BV	0.095	1.1344
15	17.052	1350	330	VB	0.059	0.1295
16	17.849	95328	25135	BV	0.057	9.1436
17	18.022	4086	778	VV	0.076	0.3919
18	18.143	1747	428	VB	0.057	0.1675
19	18.669	3230	871	BB	0.057	0.3098
20	19.027	7604	2011	VV	0.054	0.7294
21	19.399	13051	4221	VV	0.047	1.2519
22	19.445	13187	3874	VB	0.051	1.2649
23	19.762	2409	624	BB	0.058	0.2310
24	20.109	6000	1528	BV	0.059	0.5755
25	20.438	1909	459	BV	0.062	0.1831
26	20.669	1971	558	BV	0.054	0.1890
27	20.880	3372	1083	PV	0.046	0.3234
28	20.946	13437	2348	VV	0.077	1.2889
29	21.130	26197	4664	VV	0.080	2.5128
30	21.348	5790	1533	VV	0.055	0.5554
31	21.413	5481	1131	VV	0.070	0.5257
32	21.576	6145	1088	VV	0.079	0.5894
33	21.760	11329	1945	VV	0.080	1.0867
34	21.934	2112	710	VV	0.044	0.2026
35	22.009	14084	2457	VV	0.080	1.3509

36	22.185	22100	4809	VV	0.065	2.1198
37	22.271	27305	6113	VV	0.064	2.6191
38	22.364	12555	2640	VV	0.067	1.2042
39	22.495	19985	3725	VV	0.085	1.9169
40	22.690	2357	642	VV	0.053	0.2261
41	22.752	4939	1197	VV	0.059	0.4737
42	22.948	2558	682	PV	0.059	0.2454
43	23.098	5276	1493	VV	0.055	0.5061
44	23.200	3352	872	VV	0.058	0.3215
45	23.294	9013	2685	VV	0.050	0.8645
46	23.364	22884	5625	VV	0.060	2.1950
47	23.435	15967	4308	VV	0.055	1.5315
48	23.765	17144	3203	VV	0.075	1.6444
49	23.836	14513	3504	VV	0.061	1.3921
50	23.996	31477	5062	VV	0.093	3.0192
51	24.201	10177	1833	VV	0.077	0.9762
52	24.300	6556	1208	VV	0.081	0.6289
53	24.468	6308	980	VV	0.088	0.6050
54	24.658	18205	2720	VV	0.098	1.7462
55	24.755	10523	1895	VV	0.083	1.0093
56	24.878	19751	4422	VV	0.066	1.8945
57	25.082	5314	1408	VV	0.060	0.5097
58	25.260	9288	1945	VV	0.066	0.8909
59	25.424	4793	720	VV	0.090	0.4597
60	25.596	11915	1871	VV	0.089	1.1428
61	25.776	18305	2777	VV	0.102	1.7557
62	25.935	132486	33011	VV	0.062	12.7077
63	26.326	24511	3980	VV	0.086	2.3510
64	26.409	10779	2143	VV	0.070	1.0339
65	26.511	6287	1641	VV	0.055	0.6031
66	26.615	10225	1907	VV	0.082	0.9808
67	26.875	6696	974	VV	0.115	0.6423
68	27.011	42538	5527	VV	0.102	4.0801
69	27.258	18129	3315	VV	0.078	1.7389
70	27.347	9475	2443	VV	0.058	0.9088
71	27.454	4372	736	VV	0.085	0.4193
72	27.679	15838	3656	VV	0.067	1.5192
73	27.798	39986	8184	VV	0.074	3.8353
74	28.030	81309	16026	VV	0.075	7.7989
75	28.214	3509	824	VV	0.071	0.3365
76	28.333	4387	841	VV	0.077	0.4208
77	28.669	3036	550	PV	0.080	0.2912
78	28.762	1068	300	VV	0.054	0.1025

Total area = 1042568

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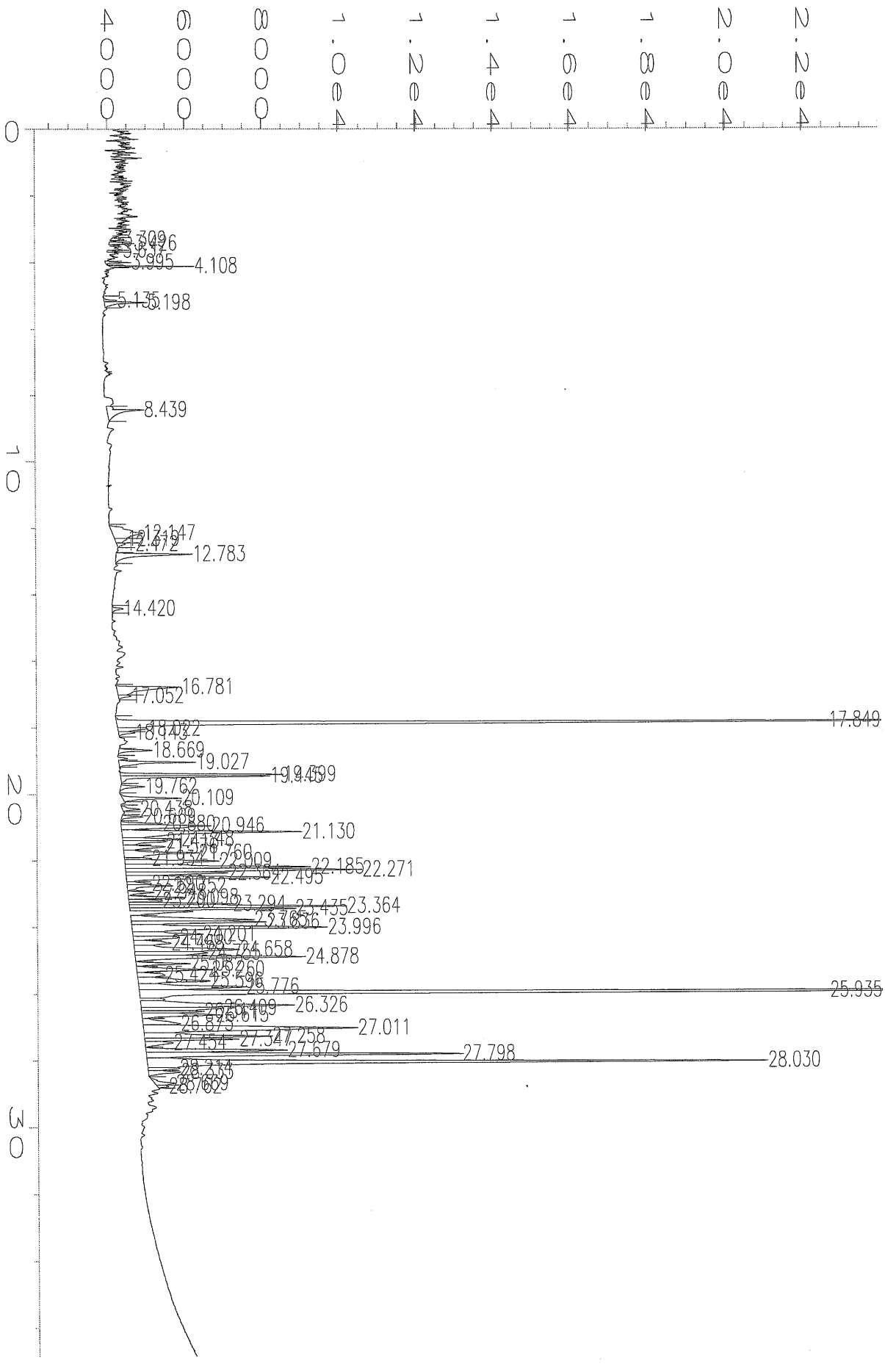
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Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\03285K\2510010A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-110
Run Time Bar Code:
Acquired on : 28 Mar 25 02:39 PM
Report Created on: 28 Mar 25 03:16 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03285K\2510010A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.245	3723	864	VV	0.067	0.2833
2	3.446	2715	755	PV	0.060	0.2066
3	3.490	2984	807	VV	0.049	0.2271
4	3.657	1133	689	VV	0.027	0.0862
5	3.679	2245	714	VV	0.041	0.1709
6	3.845	2028	510	PV	0.052	0.1543
7	3.923	1448	396	VV	0.047	0.1102
8	3.950	1062	419	VV	0.042	0.0808
9	4.075	2322	807	VV	0.039	0.1767
10	4.195	5687	2540	VV	0.033	0.4328
11	5.118	17047	6216	BV	0.040	1.2973
12	5.217	7642	2017	VV	0.053	0.5816
13	6.998	17543	5908	BV	0.044	1.3351
14	7.305	4048	1102	PV	0.050	0.3081
15	8.056	8896	883	BV	0.126	0.6771
16	8.365	4187	676	VV	0.084	0.3187
17	8.570	4450	1059	VV	0.055	0.3387
18	8.878	7644	831	VV	0.119	0.5817
19	9.406	5732	1024	PB	0.077	0.4362
20	11.936	3479	629	BV	0.088	0.2647
21	12.040	2389	581	VV	0.069	0.1818
22	12.108	5743	982	VV	0.080	0.4370
23	12.757	23312	4758	PV	0.070	1.7741
24	13.258	1722	388	BB	0.064	0.1310
25	14.390	2252	590	BB	0.057	0.1714
26	15.127	1872	236	PV	0.132	0.1425
27	15.222	49701	13110	VV	0.055	3.7824
28	15.428	3557	707	VV	0.071	0.2707
29	15.584	7863	955	VB	0.109	0.5984
30	16.140	1381	516	PV	0.043	0.1051
31	16.690	34492	6595	BV	0.074	2.6250
32	17.016	1317	388	VB	0.052	0.1002
33	17.815	212074	62576	BV	0.052	16.1397
34	17.972	9130	1832	VV	0.073	0.6949
35	18.214	5565	1182	VV	0.072	0.4235

36	18.364	2649	447	VB	0.085	0.2016
37	18.628	4741	1348	BV	0.055	0.3608
38	18.869	1130	329	PV	0.052	0.0860
39	18.994	7145	1291	VV	0.075	0.5438
40	19.362	22388	4607	PV	0.068	1.7038
41	19.725	2591	531	BV	0.070	0.1972
42	20.071	6119	1393	PV	0.064	0.4657
43	20.396	2721	529	PV	0.072	0.2071
44	20.630	1764	462	VV	0.058	0.1343
45	20.843	2480	784	PV	0.048	0.1887
46	20.912	3599	1092	VV	0.055	0.2739
47	20.956	3359	1057	VV	0.048	0.2557
48	21.081	53845	12101	VV	0.066	4.0978
49	21.310	6454	1700	VV	0.056	0.4912
50	21.380	6122	1226	VV	0.072	0.4659
51	21.535	5387	1158	VV	0.068	0.4100
52	21.725	8883	1383	VV	0.087	0.6760
53	21.889	3733	957	VV	0.056	0.2841
54	21.970	6969	1703	VV	0.061	0.5304
55	22.148	18944	3045	VV	0.082	1.4417
56	22.230	30489	7599	VV	0.060	2.3204
57	22.325	8404	1920	VV	0.063	0.6396
58	22.456	10415	2065	VV	0.077	0.7926
59	22.720	2823	790	VV	0.053	0.2148
60	22.906	2132	536	PV	0.060	0.1622
61	23.057	4477	1268	VV	0.054	0.3407
62	23.164	2054	557	VV	0.056	0.1563
63	23.313	155987	38803	VV	0.061	11.8713
64	23.712	28360	6371	VV	0.067	2.1583
65	23.791	7813	2400	VV	0.054	0.5946
66	23.935	56977	9954	VV	0.087	4.3362
67	24.159	8153	1735	VV	0.068	0.6205
68	24.573	23124	2879	VV	0.120	1.7598
69	24.704	5759	1214	VV	0.068	0.4383
70	24.831	27012	6778	VV	0.060	2.0557
71	25.037	2348	632	VV	0.058	0.1787
72	25.219	3733	821	VV	0.068	0.2841
73	25.370	4514	900	VV	0.078	0.3435
74	25.551	5623	913	VV	0.087	0.4280
75	25.731	11176	1925	VV	0.082	0.8505
76	25.890	36871	8762	VV	0.065	2.8060
77	26.136	3379	541	VV	0.083	0.2572
78	26.276	11511	2202	VV	0.077	0.8760
79	26.357	15542	1992	VV	0.102	1.1828
80	26.579	6133	1267	VV	0.072	0.4668
81	26.758	1844	408	PV	0.075	0.1403
82	26.828	1528	388	VV	0.055	0.1163
83	27.013	20831	2171	VV	0.126	1.5853
84	27.210	19872	5099	VV	0.060	1.5123
85	27.300	1829	685	VV	0.043	0.1392
86	27.635	5680	1640	BV	0.055	0.4323

87	27.745	55197	12519	VV	0.067	4.2007
88	27.982	80420	17749	VV	0.069	6.1203
89	28.173	2687	608	VV	0.067	0.2045
90	28.602	5247	636	PV	0.113	0.3993
91	29.424	4636	903	VB	0.077	0.3528

Total area = 1313988

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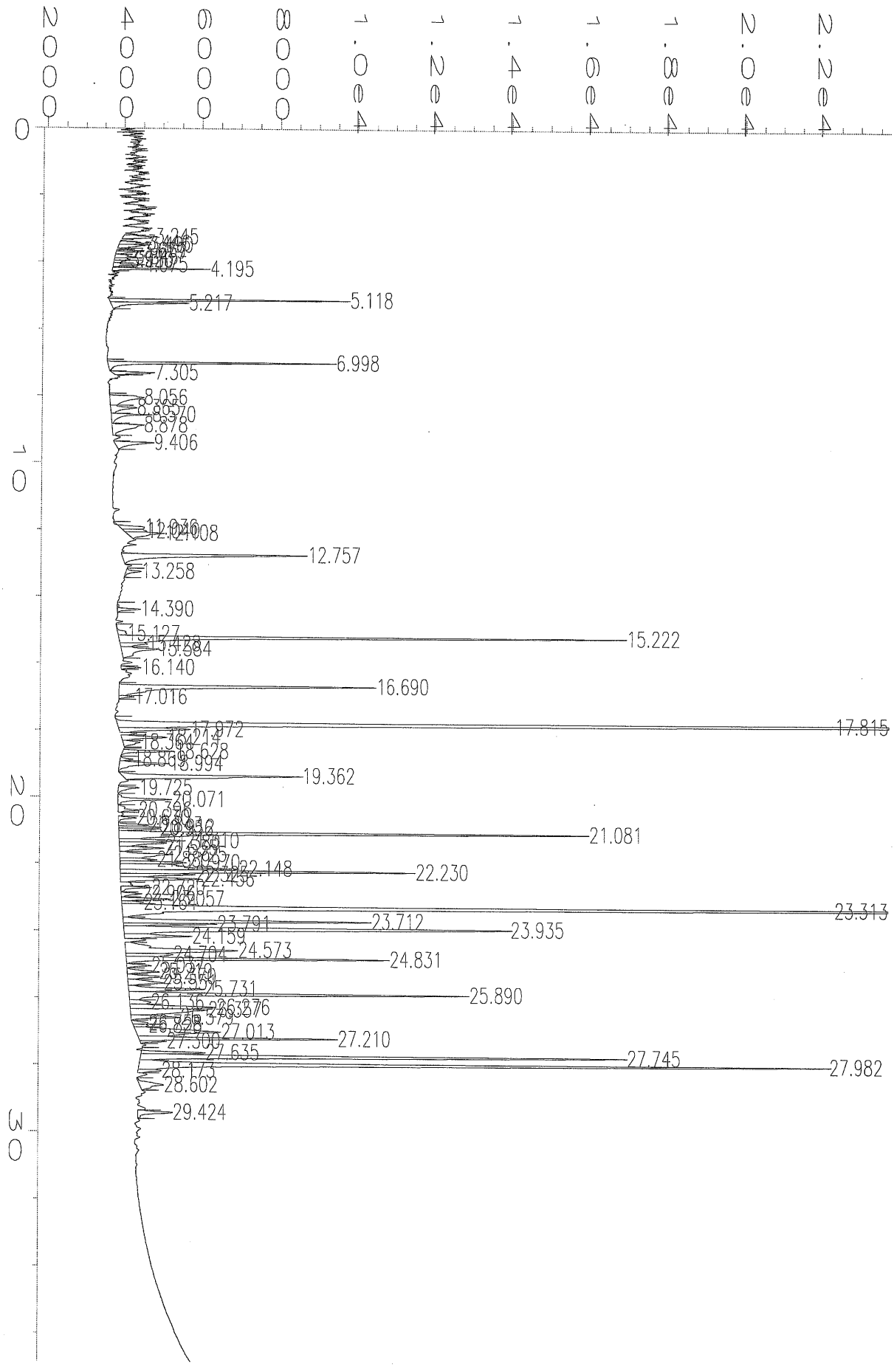
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Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\03285K\2510011A.D
Operator : SS
Instrument : ANALYZER1
Sample Name : T-111
Run Time Bar Code:
Acquired on : 28 Mar 25 03:43 PM
Report Created on: 28 Mar 25 04:20 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03285K\2510011A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.335	962	505	VV	0.028	0.0786
2	3.428	938	388	PV	0.040	0.0766
3	3.487	960	418	VV	0.038	0.0785
4	3.512	1454	417	VV	0.047	0.1188
5	3.606	1054	359	VV	0.049	0.0861
6	3.664	846	490	VV	0.025	0.0691
7	3.843	964	392	VV	0.033	0.0787
8	4.033	1025	450	PV	0.033	0.0837
9	4.143	3239	1235	VV	0.037	0.2646
10	5.121	4058	1276	BV	0.046	0.3315
11	5.199	4161	984	VV	0.057	0.3400
12	6.983	13217	4392	BV	0.044	1.0799
13	7.325	2562	1380	BV	0.027	0.2093
14	7.352	1239	928	VV	0.022	0.1013
15	7.387	1393	670	VV	0.030	0.1138
16	8.048	3503	428	BV	0.124	0.2862
17	8.219	2351	356	VV	0.084	0.1921
18	8.368	7065	1748	VV	0.055	0.5772
19	8.423	7496	1658	VB	0.059	0.6124
20	8.886	1999	274	BB	0.098	0.1633
21	9.412	6766	550	VB	0.155	0.5528
22	11.064	31321	4333	BV	0.099	2.5591
23	11.198	25292	3724	VV	0.088	2.0665
24	11.322	18205	2488	VV	0.092	1.4875
25	11.480	119070	17362	VV	0.095	9.7286
26	12.064	4422	935	VB	0.067	0.3613
27	12.611	1267	483	BV	0.042	0.1035
28	12.730	14450	3721	VV	0.057	1.1807
29	13.254	59422	12837	PV	0.064	4.8551
30	14.369	1101	330	VB	0.050	0.0899
31	14.987	2544	305	BV	0.106	0.2079
32	15.110	53602	15114	VV	0.053	4.3795
33	15.249	34844	5739	VV	0.079	2.8470
34	15.388	97754	17601	VV	0.075	7.9870
35	16.237	304511	95402	VV	0.048	24.8801

36	16.663	44717	12465	VV	0.053	3.6536
37	16.878	8814	2230	VV	0.058	0.7202
38	17.017	11868	1259	VV	0.122	0.9697
39	17.437	3187	580	VV	0.076	0.2604
40	17.816	51636	13577	PV	0.057	4.2189
41	17.976	2836	591	VV	0.070	0.2317
42	18.227	14363	1510	VV	0.129	1.1736
43	18.483	5779	1440	VV	0.060	0.4722
44	18.566	9307	1809	VV	0.071	0.7604
45	18.720	5810	898	VV	0.089	0.4747
46	19.364	3144	988	BV	0.047	0.2569
47	19.411	3052	910	VB	0.049	0.2494
48	20.311	1869	278	BV	0.096	0.1527
49	20.642	5470	570	PV	0.129	0.4469
50	20.912	4660	548	VV	0.111	0.3808
51	21.094	12421	2426	VV	0.074	1.0149
52	21.307	4374	526	VV	0.117	0.3573
53	21.775	2337	398	BV	0.082	0.1910
54	21.973	2187	397	VV	0.078	0.1787
55	22.167	3834	569	VV	0.112	0.3133
56	22.246	3571	765	VV	0.068	0.2918
57	22.472	1907	388	VB	0.074	0.1558
58	22.716	2573	911	BB	0.045	0.2102
59	23.364	5589	847	VB	0.094	0.4567
60	23.752	5003	881	BV	0.083	0.4087
61	23.967	10913	1377	VB	0.113	0.8917
62	24.606	4567	641	BV	0.105	0.3732
63	24.855	2428	528	VV	0.069	0.1984
64	25.896	2362	550	VB	0.064	0.1930
65	26.293	1196	242	BV	0.074	0.0977
66	26.782	2429	353	BV	0.102	0.1984
67	26.969	4074	764	VV	0.074	0.3328
68	27.225	5345	880	VB	0.085	0.4367
69	27.745	97244	22854	BV	0.065	7.9453
70	28.048	37996	5967	VB	0.090	3.1044

Total area = 1223914

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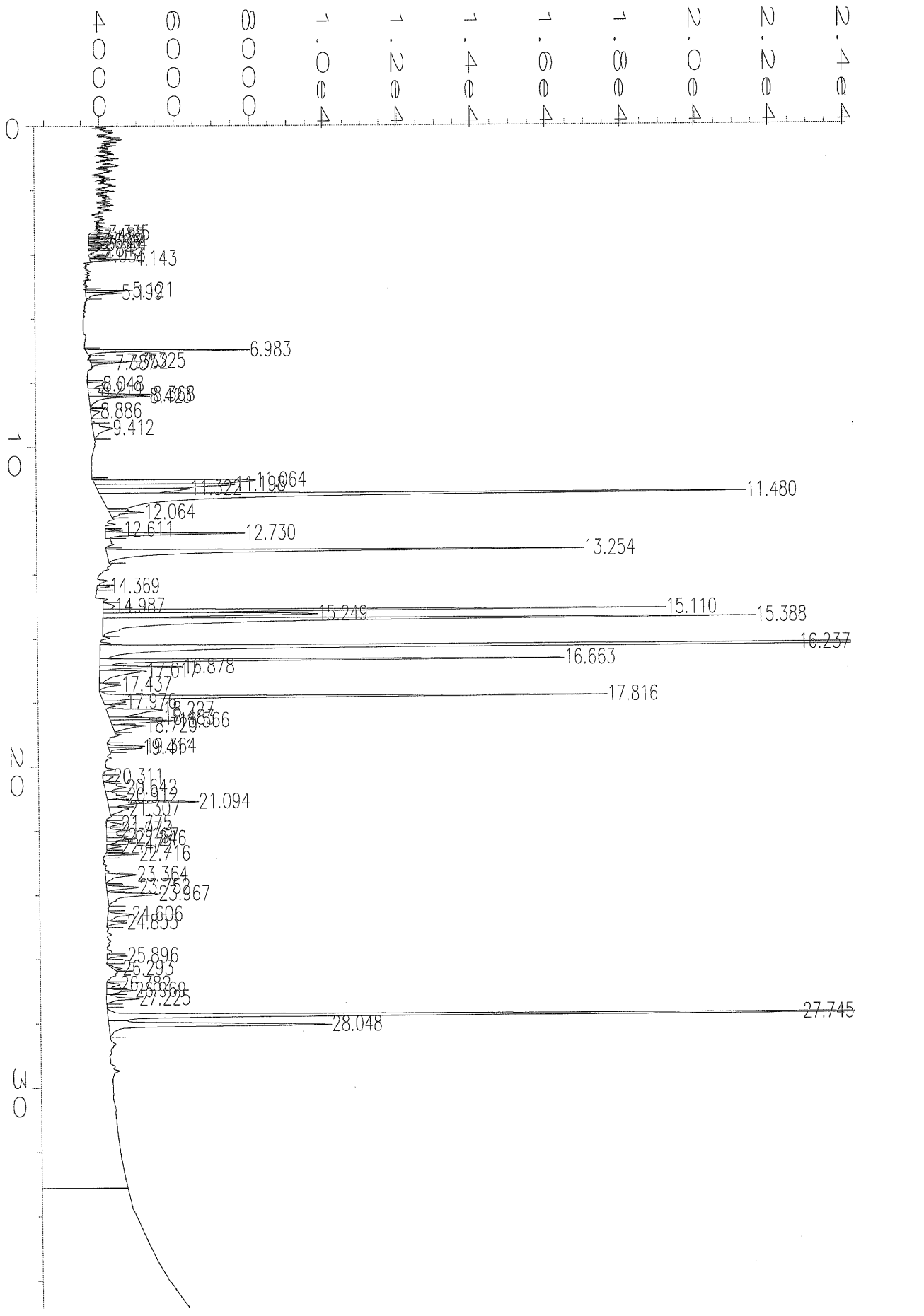
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Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\03285K\2510012A.D
Operator : SS
Instrument : ANALYZER1
Sample Name : T-112
Run Time Bar Code:
Acquired on : 28 Mar 25 04:35 PM
Report Created on: 28 Mar 25 05:12 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03285K\2510012A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.317	1074	447	VV	0.037	0.1035
2	3.466	1294	494	PV	0.039	0.1247
3	3.553	1265	420	VV	0.047	0.1218
4	3.592	1078	472	VV	0.033	0.1038
5	3.981	2028	1476	VV	0.022	0.1953
6	4.092	3861	2255	VV	0.027	0.3719
7	5.070	35325	14450	BV	0.036	3.4022
8	5.174	10628	2603	VB	0.057	1.0236
9	6.964	13296	4455	BB	0.044	1.2805
10	7.476	2589	749	BV	0.046	0.2494
11	7.536	934	408	VV	0.033	0.0900
12	8.010	7355	909	PB	0.098	0.7084
13	8.319	1404	475	BV	0.045	0.1352
14	8.441	8378	1197	VV	0.089	0.8069
15	8.569	4262	1431	VV	0.041	0.4105
16	8.849	3773	544	PB	0.097	0.3634
17	9.408	6847	621	BB	0.134	0.6594
18	11.355	31814	2974	BV	0.135	3.0640
19	11.581	38956	4328	VV	0.117	3.7518
20	11.975	1334	390	VV	0.051	0.1285
21	12.057	1752	623	VV	0.043	0.1688
22	12.434	72766	9347	BV	0.099	7.0081
23	12.735	37553	3583	VV	0.137	3.6168
24	13.034	7321	1034	VV	0.091	0.7051
25	13.200	6239	1096	VV	0.077	0.6009
26	14.352	1682	418	PV	0.057	0.1620
27	14.842	1744	570	VV	0.048	0.1680
28	15.017	7094	2236	PV	0.048	0.6833
29	15.253	4086	923	BV	0.065	0.3935
30	15.344	5178	843	VV	0.083	0.4987
31	15.509	4590	1414	VV	0.049	0.4421
32	16.123	1902	738	BV	0.042	0.1832
33	16.755	4629	714	PV	0.088	0.4458
34	16.999	3453	1119	VV	0.048	0.3326
35	17.133	2371	727	VB	0.050	0.2284

36	17.803	45841	12143	BV	0.057	4.4150
37	17.966	2835	557	VV	0.073	0.2730
38	18.094	2420	716	VV	0.051	0.2330
39	18.343	2689	970	VV	0.042	0.2589
40	18.407	7673	2362	VV	0.049	0.7390
41	18.615	5603	1683	VB	0.050	0.5397
42	18.849	8742	2946	BV	0.046	0.8420
43	18.936	12222	3997	VV	0.048	1.1771
44	19.023	20763	5745	VB	0.055	1.9997
45	19.358	5516	1156	BV	0.067	0.5313
46	20.058	15367	3921	BV	0.057	1.4800
47	20.116	5389	1983	VB	0.041	0.5190
48	20.314	10056	3504	BV	0.044	0.9685
49	20.385	13005	3861	VV	0.050	1.2525
50	20.615	30036	9462	VV	0.050	2.8928
51	20.828	43009	12114	VV	0.054	4.1422
52	21.088	8939	2119	VV	0.065	0.8609
53	21.166	13787	2968	VV	0.065	1.3278
54	21.303	10257	1885	VV	0.074	0.9878
55	21.441	4245	1249	VV	0.052	0.4088
56	21.562	13252	2474	VV	0.072	1.2763
57	21.713	57142	12399	VV	0.066	5.5033
58	21.983	13138	3820	VV	0.052	1.2654
59	22.082	28461	6082	VV	0.069	2.7411
60	22.293	26612	7497	VV	0.054	2.5630
61	22.373	11922	3675	VV	0.049	1.1482
62	22.468	9629	2614	VV	0.057	0.9274
63	22.656	4111	1212	PV	0.053	0.3959
64	22.736	1575	513	VV	0.045	0.1517
65	22.804	2677	714	VV	0.058	0.2578
66	22.900	6843	1675	VV	0.063	0.6591
67	23.054	12444	3467	VV	0.055	1.1985
68	23.154	7606	2046	VV	0.056	0.7326
69	23.249	22545	4794	VV	0.068	2.1713
70	23.395	41421	11195	VV	0.057	3.9892
71	23.470	11883	2369	VV	0.069	1.1445
72	23.668	13731	3495	VV	0.059	1.3224
73	23.799	19168	5055	VV	0.057	1.8461
74	23.877	5370	1520	VV	0.052	0.5172
75	23.967	5494	1181	VV	0.067	0.5291
76	24.151	9409	1245	VV	0.098	0.9061
77	24.291	5788	1302	VV	0.063	0.5575
78	24.429	11439	2073	VV	0.077	1.1017
79	24.622	13358	2385	VV	0.082	1.2865
80	24.686	5947	2051	VV	0.048	0.5728
81	25.044	3012	808	PV	0.054	0.2901
82	25.212	10696	2035	VV	0.078	1.0301
83	25.346	2957	507	VV	0.074	0.2847
84	25.556	13669	3133	VV	0.067	1.3165
85	25.762	7951	1398	VV	0.089	0.7657
86	25.882	3177	639	VV	0.074	0.3060

87	25.958	2416	540	VV	0.063	0.2327
88	26.271	3459	702	VV	0.074	0.3331
89	26.558	6372	1275	VV	0.073	0.6137
90	26.928	3989	390	VV	0.134	0.3842
91	27.206	2090	254	VB	0.116	0.2013
92	27.771	9303	1776	BV	0.079	0.8960

Total area = 1038310

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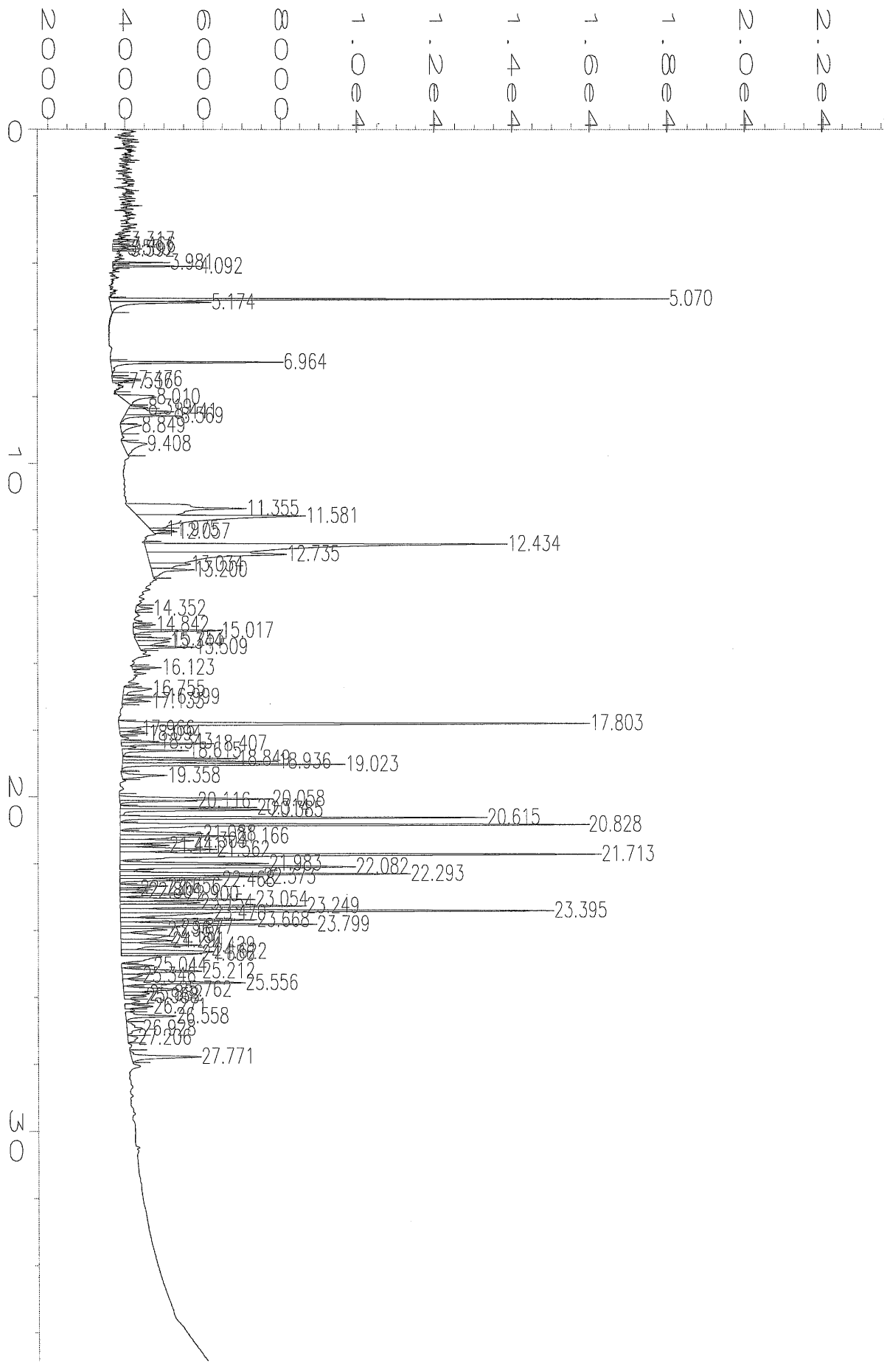
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Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\03285K\2510013A.D
Operator : SS
Instrument : ANALYZER1
Sample Name : T-113
Run Time Bar Code:
Acquired on : 28 Mar 25 05:33 PM
Report Created on: 28 Mar 25 06:10 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03285K\2510013A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.053	1073	431	BV	0.038	0.5720
2	3.197	1305	542	PV	0.036	0.6953
3	3.265	1012	661	VV	0.023	0.5393
4	3.285	1248	551	VV	0.038	0.6648
5	3.412	1170	393	VV	0.043	0.6233
6	3.487	1408	446	VV	0.041	0.7502
7	3.717	1139	377	VV	0.044	0.6072
8	4.133	8383	1965	VV	0.057	4.4672
9	5.138	2755	908	PV	0.047	1.4681
10	5.210	5739	1223	VV	0.065	3.0582
11	7.005	3825	1259	BV	0.046	2.0381
12	8.400	2883	223	BV	0.162	1.5365
13	8.548	6918	1362	VV	0.065	3.6863
14	9.530	1237	182	BB	0.092	0.6589
15	11.895	28723	1941	BV	0.184	15.3064
16	12.114	10660	968	VV	0.142	5.6805
17	12.470	1932	406	VB	0.069	1.0295
18	12.789	5483	1236	PB	0.063	2.9219
19	15.313	10911	849	BV	0.165	5.8145
20	15.676	4236	375	VV	0.154	2.2571
21	16.811	1790	451	BV	0.065	0.9537
22	17.478	1667	309	BB	0.078	0.8886
23	17.849	19095	4595	BV	0.062	10.1758
24	18.388	3417	317	VV	0.151	1.8208
25	18.653	1345	306	VV	0.065	0.7168
26	19.388	2012	395	BB	0.077	1.0722
27	20.300	8101	673	BB	0.176	4.3169
28	21.122	2151	431	PV	0.073	1.1460
29	25.899	1546	400	VB	0.061	0.8241
30	26.290	1700	411	BB	0.064	0.9061
31	26.963	2126	297	BV	0.095	1.1329
32	27.226	2069	284	VB	0.100	1.1026
33	27.765	6551	1428	BV	0.070	3.4909
34	27.993	21048	3724	VV	0.082	11.2162
35	28.236	2307	265	VB	0.124	1.2292

36	29.463	1456	201	VB	0.107	0.7759
37	30.485	7236	1330	BB	0.082	3.8559

Total area = 187655

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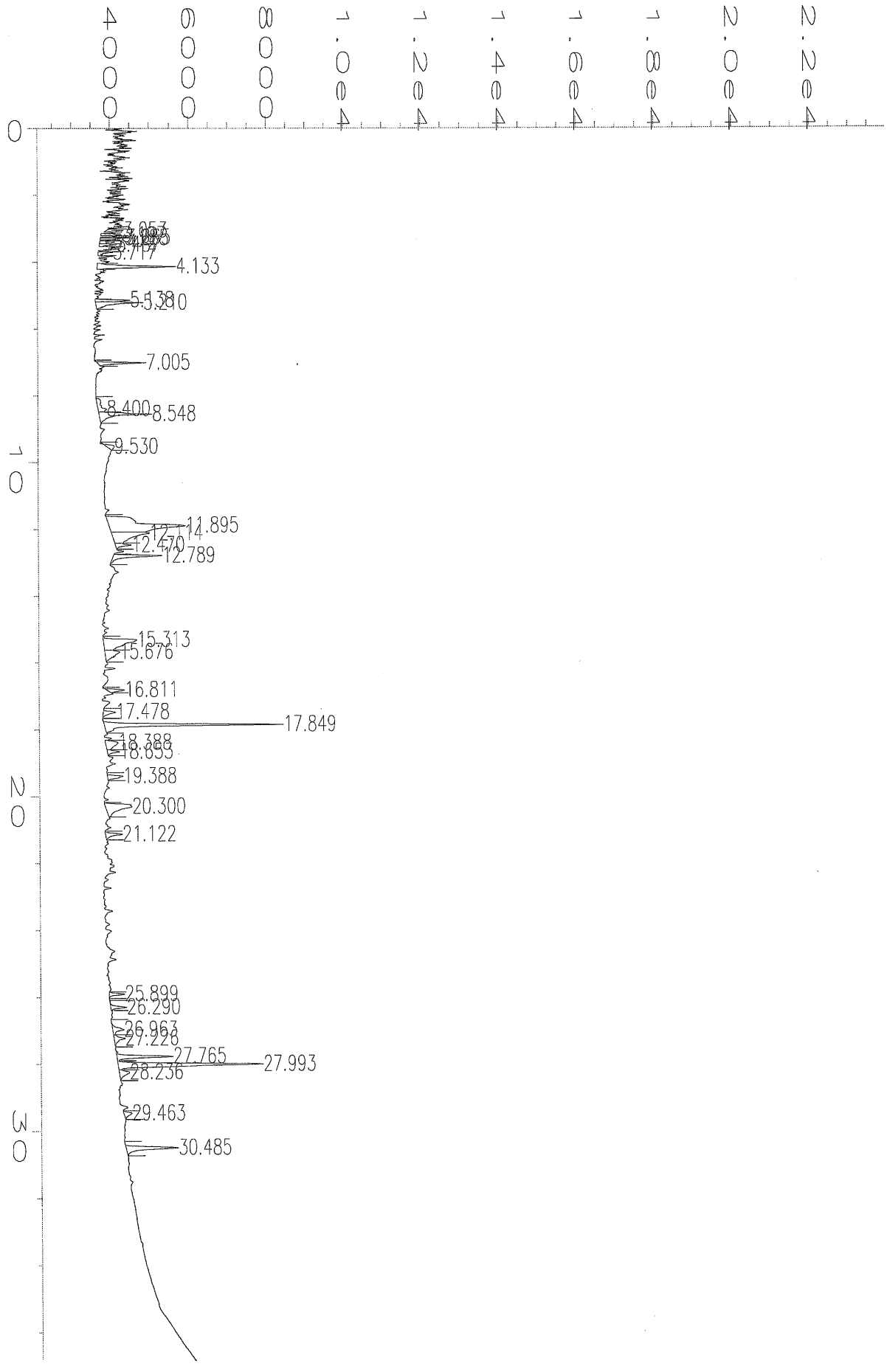
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Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\03285K\2510014A.D
Operator : SS
Instrument : ANALYZER1
Sample Name : T-114
Run Time Bar Code:
Acquired on : 28 Mar 25 06:30 PM
Report Created on: 28 Mar 25 07:07 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03285K\2510014A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.075	1684	887	BV	0.028	0.2004
2	3.129	3133	968	VV	0.042	0.3727
3	3.275	2874	988	PV	0.038	0.3419
4	3.322	2098	1340	VV	0.026	0.2496
5	3.346	3605	1078	VV	0.045	0.4290
6	3.529	5795	1254	VV	0.066	0.6894
7	3.576	2270	914	VV	0.041	0.2700
8	3.694	1181	702	VV	0.028	0.1405
9	3.751	4521	1335	VV	0.046	0.5379
10	3.783	2428	891	VV	0.045	0.2889
11	3.938	4554	1261	VV	0.054	0.5418
12	3.992	1418	564	VV	0.033	0.1687
13	4.145	8264	2140	VV	0.051	0.9833
14	4.310	1731	573	PV	0.044	0.2059
15	4.750	898	294	VB	0.042	0.1068
16	5.200	2284	377	BV	0.078	0.2717
17	7.001	3669	987	BV	0.056	0.4365
18	7.267	2837	1326	BV	0.030	0.3376
19	7.299	1164	986	VV	0.020	0.1385
20	7.329	1817	661	VV	0.038	0.2162
21	8.662	2571	745	BB	0.058	0.3059
22	12.485	2411	159	VB	0.183	0.2869
23	12.819	3279	486	BB	0.092	0.3902
24	15.327	1187	214	BB	0.079	0.1412
25	16.783	7425	969	BV	0.102	0.8834
26	17.023	1353	320	VB	0.062	0.1610
27	17.825	57440	13261	BV	0.064	6.8341
28	18.112	1636	361	VB	0.066	0.1946
29	18.638	2055	635	BB	0.053	0.2445
30	18.996	6316	1610	VB	0.056	0.7514
31	19.371	8769	2839	BV	0.047	1.0433
32	19.416	9492	2610	VB	0.053	1.1294
33	19.730	2036	482	BB	0.063	0.2423
34	20.076	6149	1275	BV	0.069	0.7316
35	20.409	1631	373	PB	0.065	0.1940

36	20.640	1476	440	BV	0.052	0.1756
37	20.848	2896	884	PV	0.050	0.3446
38	20.920	3051	1060	VV	0.048	0.3630
39	20.965	4491	1140	VV	0.059	0.5343
40	21.107	16461	2683	VV	0.087	1.9585
41	21.316	4606	1200	VV	0.056	0.5480
42	21.381	4214	865	VV	0.070	0.5014
43	21.544	4987	844	VV	0.080	0.5934
44	21.728	8935	1598	VV	0.078	1.0630
45	21.976	10130	1948	VV	0.074	1.2053
46	22.154	19237	3598	VV	0.074	2.2887
47	22.237	21803	4722	VV	0.066	2.5941
48	22.327	9648	1986	VV	0.081	1.1479
49	22.463	14432	2730	VV	0.080	1.7171
50	22.656	2216	533	VV	0.061	0.2636
51	22.719	2388	500	VV	0.066	0.2841
52	22.913	2041	548	PV	0.058	0.2429
53	23.064	4298	1226	VV	0.055	0.5113
54	23.165	2599	672	VV	0.058	0.3092
55	23.258	7279	2044	VV	0.059	0.8661
56	23.330	16244	4166	VV	0.057	1.9327
57	23.398	13512	3582	VV	0.055	1.6077
58	23.733	11898	2263	VV	0.072	1.4156
59	23.799	12995	2971	VV	0.063	1.5461
60	23.963	23755	3835	VV	0.092	2.8264
61	24.164	8707	1521	VV	0.080	1.0360
62	24.429	4985	794	VV	0.087	0.5932
63	24.620	13936	2189	VV	0.094	1.6581
64	24.715	8594	1549	VV	0.085	1.0225
65	24.839	16908	3710	VV	0.066	2.0117
66	25.042	4445	1191	VV	0.058	0.5289
67	25.222	7651	1629	VV	0.070	0.9103
68	25.393	3518	509	VV	0.093	0.4185
69	25.555	9585	1569	VV	0.085	1.1404
70	25.736	15127	2393	VV	0.098	1.7998
71	25.892	112233	27522	VV	0.063	13.3533
72	26.283	19517	3158	VV	0.088	2.3221
73	26.373	9423	1782	VV	0.073	1.1211
74	26.472	5219	1383	VV	0.055	0.6209
75	26.576	8546	1537	VV	0.084	1.0168
76	26.834	5403	806	VV	0.112	0.6428
77	26.969	35707	4644	VV	0.102	4.2483
78	27.217	15543	2992	VV	0.075	1.8493
79	27.304	8013	2073	VV	0.058	0.9534
80	27.411	3686	638	VV	0.081	0.4386
81	27.637	13513	3180	VV	0.065	1.6077
82	27.758	31165	6462	VV	0.074	3.7080
83	27.987	71565	14235	VV	0.074	8.5147
84	28.175	3036	716	VV	0.071	0.3612
85	28.291	3829	734	VV	0.076	0.4555
86	28.632	2236	422	PV	0.077	0.2661

87	28.720	832	264	VV	0.050	0.0990

Total area = 840486

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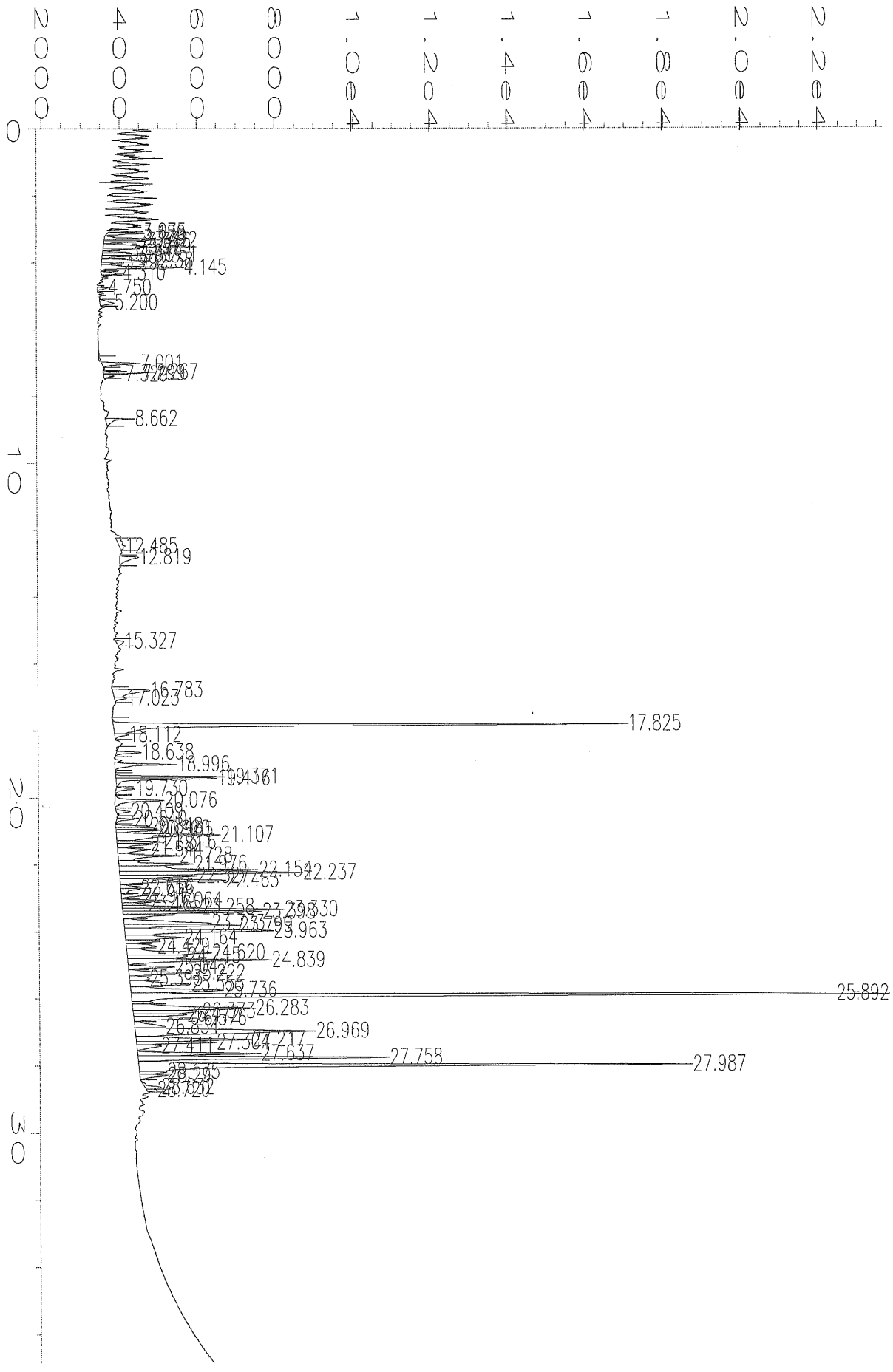


C:\HPCHEM\1\DATA\CDSK\2510014A.D

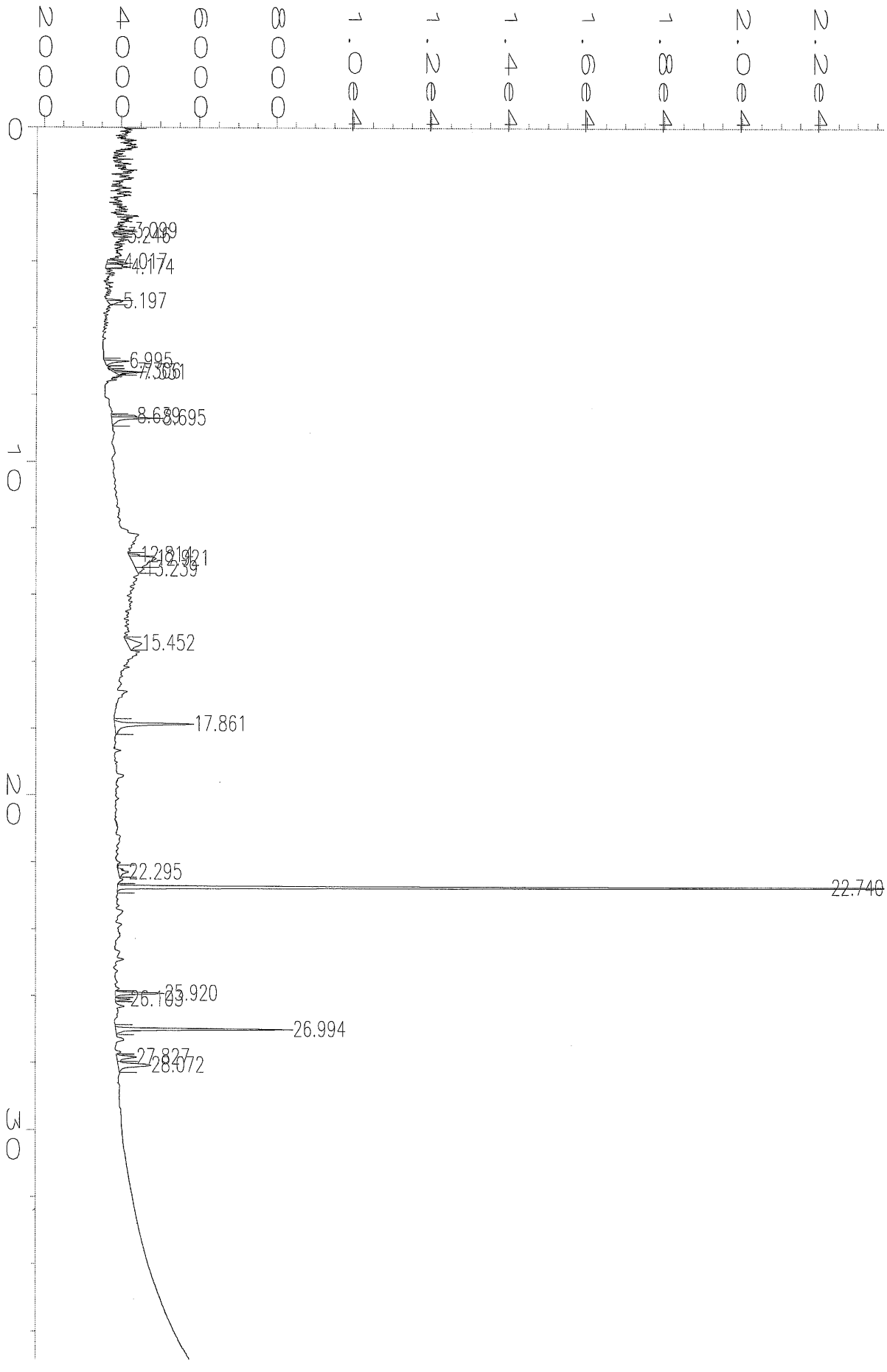
Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\03285K\2510015A.D
Operator : SS
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-115
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 28 Mar 25 07:20 PM
Instrument Method: KTO3DHC.MTH
Report Created on: 28 Mar 25 07:57 PM
Analysis Method : KTO3DHC.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\HPCHEM\1\DATA\03285K\2510015A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.099	977	499	VV	0.029	0.6484
2	3.246	1160	370	VV	0.047	0.7699
3	4.017	1176	427	PV	0.041	0.7804
4	4.174	2798	635	VV	0.059	1.8563
5	5.197	1782	409	VV	0.059	1.1826
6	6.995	2366	626	BV	0.054	1.5697
7	7.306	1212	595	PV	0.029	0.8043
8	7.331	1734	724	VV	0.040	1.1507
9	8.639	1929	657	BV	0.039	1.2797
10	8.695	5042	1327	VB	0.051	3.3450
11	12.814	819	277	PV	0.045	0.5431
12	12.921	8880	653	VV	0.167	5.8912
13	13.239	1375	216	VB	0.078	0.9125
14	15.452	4224	368	PV	0.150	2.8026
15	17.861	10076	2015	BB	0.073	6.6852
16	22.295	1940	258	PB	0.100	1.2870
17	22.740	73688	25803	BB	0.045	48.8885
18	25.920	4929	1251	VV	0.061	3.2701
19	26.103	1114	374	VV	0.048	0.7389
20	26.994	14818	4571	BB	0.051	9.8313
21	27.827	2838	496	VV	0.084	1.8826
22	28.072	5848	834	VB	0.105	3.8799

Total area = 150726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5.197
6.995
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17.861
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22.740
26.994
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Area Percent Report

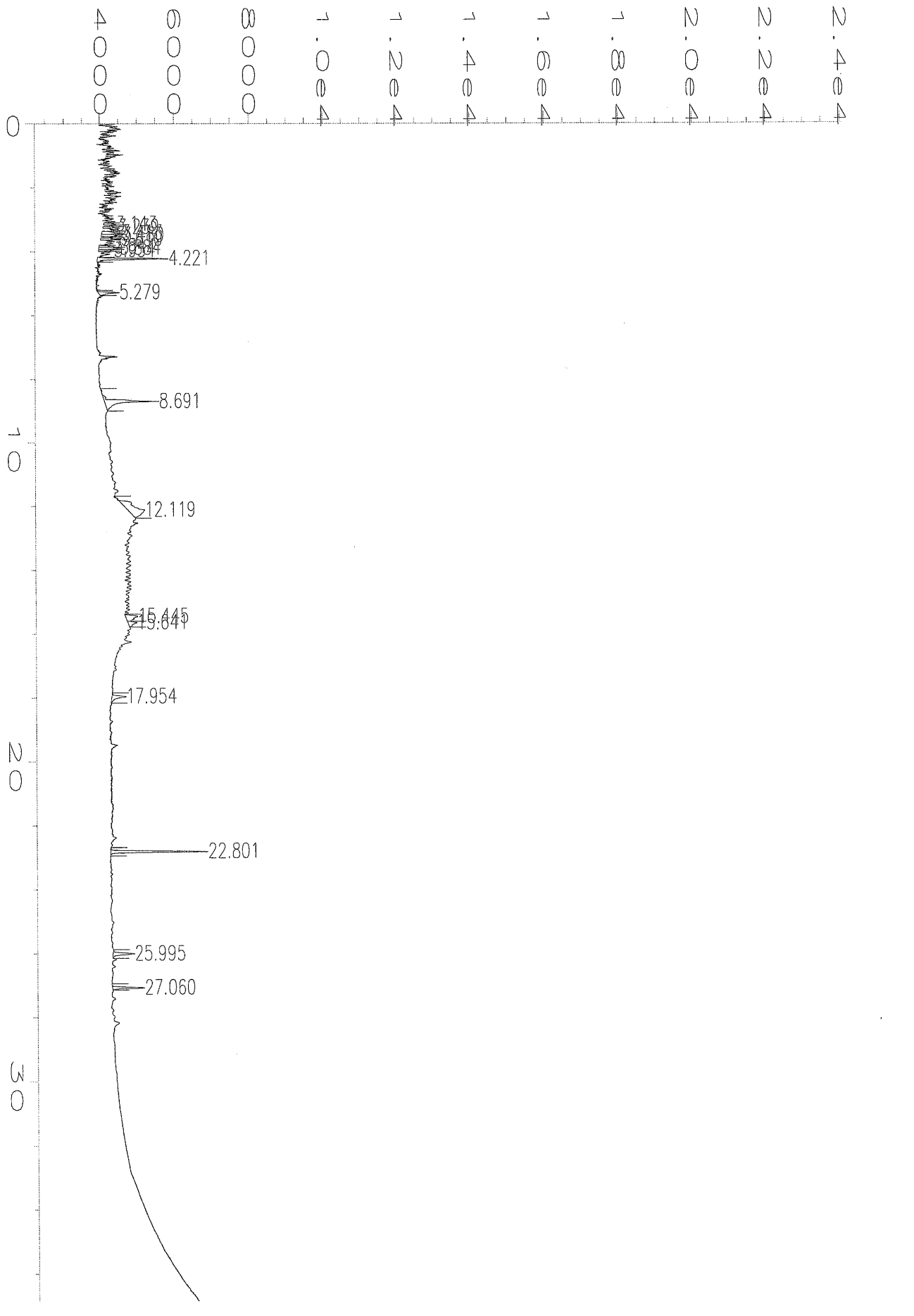
Data File Name : C:\HPCHEM\1\DATA\03315K\2510016A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-116
Run Time Bar Code:
Acquired on : 31 Mar 25 03:17 PM
Report Created on: 31 Mar 25 03:54 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03315K\2510016A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.143	829	327	PV	0.042	1.5973
2	3.239	853	435	VV	0.028	1.6437
3	3.413	2032	527	VV	0.050	3.9166
4	3.480	1694	581	VV	0.043	3.2651
5	3.610	1248	556	VV	0.030	2.4043
6	3.844	900	412	PV	0.036	1.7341
7	3.884	1890	564	VV	0.043	3.6420
8	3.954	894	408	VV	0.031	1.7223
9	4.221	5177	1935	VV	0.039	9.9769
10	5.279	1876	577	PV	0.047	3.6149
11	8.691	7632	1489	BB	0.065	14.7079
12	12.119	8411	455	BB	0.248	16.2088
13	15.445	2485	333	PV	0.108	4.7889
14	15.641	1366	245	VB	0.081	2.6320
15	17.954	1998	379	BB	0.079	3.8499
16	22.801	7571	2626	BB	0.046	14.5904
17	25.995	2402	587	BV	0.063	4.6282
18	27.060	2635	875	BB	0.048	5.0770

Total area = 51892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Area Percent Report

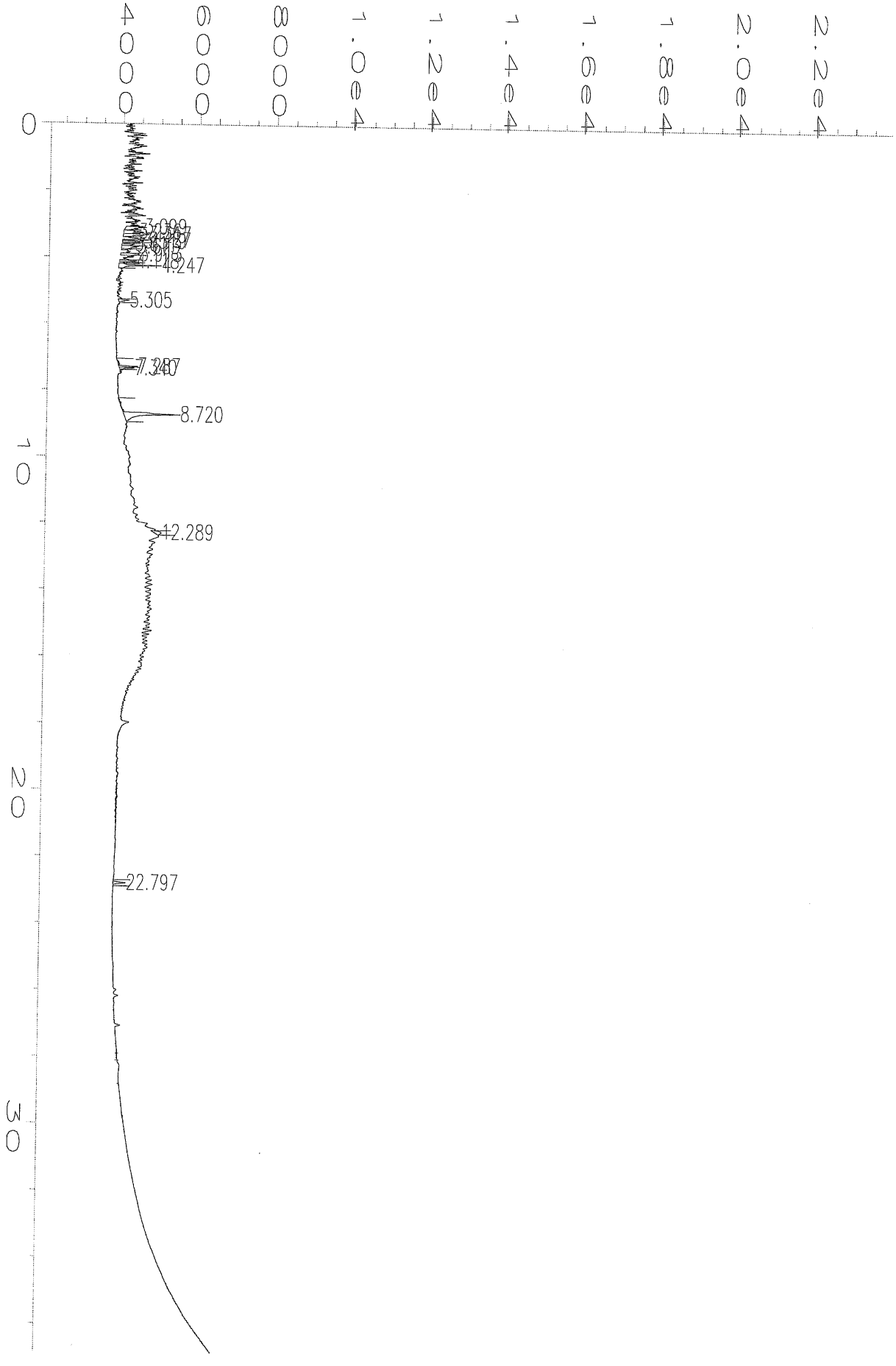
Data File Name : C:\HPCHEM\1\DATA\03315K\2510017A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-117
Run Time Bar Code:
Acquired on : 31 Mar 25 04:05 PM
Report Created on: 31 Mar 25 04:42 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03315K\2510017A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.099	1811	564	PV	0.054	6.4247
2	3.236	2011	526	PV	0.060	7.1324
3	3.317	2050	645	VV	0.042	7.2740
4	3.487	1111	664	VV	0.025	3.9402
5	3.519	1337	553	VV	0.032	4.7443
6	3.611	873	324	VV	0.045	3.0966
7	3.673	1571	448	VV	0.052	5.5738
8	3.913	1577	489	VV	0.042	5.5960
9	4.118	1101	445	VV	0.035	3.9065
10	4.247	2975	1117	VV	0.039	10.5546
11	5.305	886	287	VB	0.042	3.1417
12	7.287	1038	489	BV	0.032	3.6823
13	7.340	881	390	VV	0.038	3.1242
14	8.720	6976	1473	BV	0.061	24.7466
15	12.289	1018	182	VB	0.074	3.6102
16	22.797	973	326	BB	0.046	3.4518

Total area = 28189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2.2e4
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30
4.247
5.305
8.720
12.289
22.797
C:\HPCHEM\1\DATA\USP5K\251001 7A.D

Area Percent Report

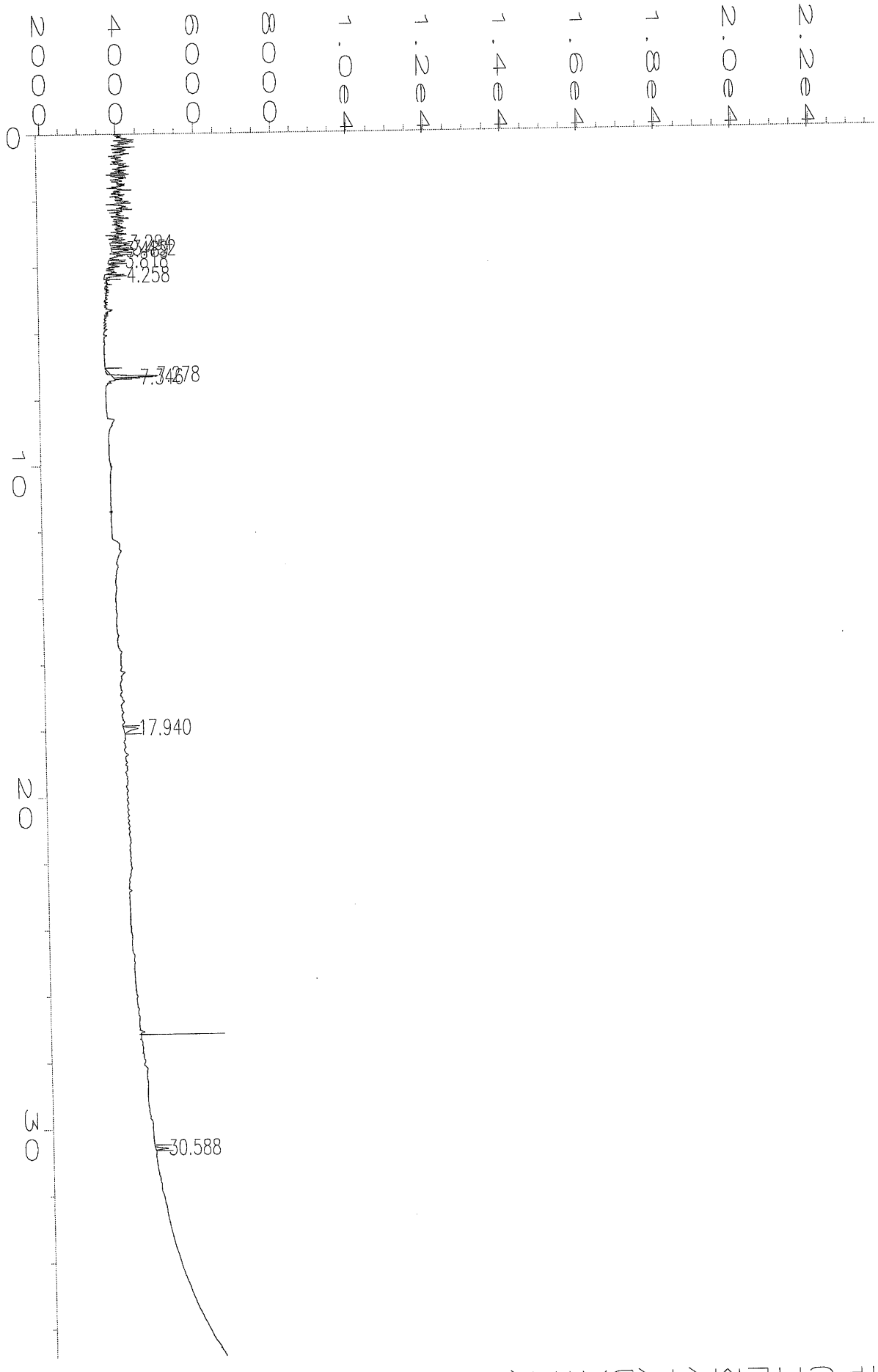
Data File Name : C:\HPCHEM\1\DATA\03315K\2510018A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : T-118
Run Time Bar Code:
Acquired on : 31 Mar 25 11:38 AM
Report Created on: 31 Mar 25 12:15 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03315K\2510018A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.294	1517	501	VV	0.044	10.7510
2	3.452	897	695	VV	0.021	6.3553
3	3.489	1169	460	VV	0.037	8.2846
4	3.818	1382	413	PV	0.044	9.7965
5	4.258	1883	570	VV	0.043	13.3429
6	7.278	3172	1154	BV	0.038	22.4836
7	7.346	996	678	VV	0.024	7.0574
8	17.940	2053	378	BB	0.074	14.5470
9	30.588	1042	335	BB	0.049	7.3817

Total area = 14110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Area Percent Report

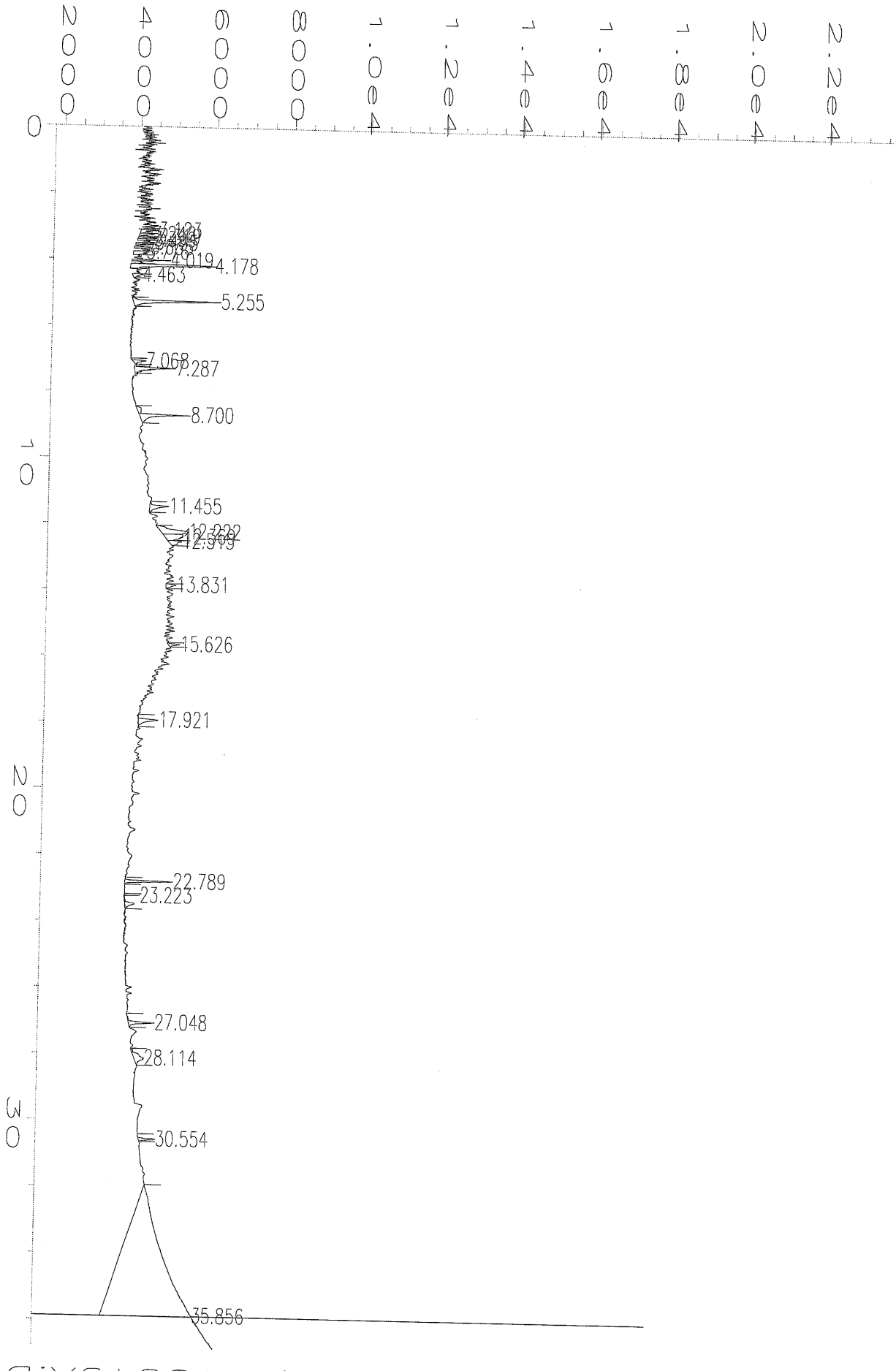
Data File Name : C:\HPCHEM\1\DATA\03315K\2510019A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-201
Run Time Bar Code:
Acquired on : 31 Mar 25 04:51 PM
Report Created on: 31 Mar 25 05:28 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03315K\2510019A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.123	1345	487	PV	0.038	0.4135
2	3.242	1225	412	VV	0.049	0.3765
3	3.319	1099	568	VV	0.036	0.3378
4	3.399	857	394	VV	0.032	0.2636
5	3.495	1072	518	VV	0.034	0.3295
6	3.635	895	431	PV	0.031	0.2750
7	3.776	1926	425	VV	0.060	0.5921
8	4.019	1616	1047	VV	0.026	0.4968
9	4.178	8494	2224	VV	0.053	2.6109
10	4.463	928	291	VV	0.043	0.2852
11	5.255	8255	2307	PV	0.049	2.5376
12	7.068	1170	353	BV	0.049	0.3595
13	7.287	4318	1096	BV	0.051	1.3272
14	8.700	6283	1351	BB	0.060	1.9314
15	11.455	2734	506	BV	0.073	0.8405
16	12.222	6145	705	PV	0.109	1.8891
17	12.369	4342	471	VV	0.129	1.3348
18	12.515	1897	334	VV	0.076	0.5830
19	13.831	1212	270	VV	0.064	0.3725
20	15.626	972	294	PV	0.046	0.2988
21	17.921	2620	535	BB	0.069	0.8054
22	22.789	3653	1260	BB	0.045	1.1231
23	23.223	1478	429	BB	0.121	0.4544
24	27.048	2449	677	BV	0.055	0.7528
25	28.114	3174	260	PB	0.172	0.9758
26	30.554	1356	444	BV	0.049	0.4167
27	35.856	253795	2984	BV	1.005	78.0162

Total area = 325311 − 253795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Area Percent Report

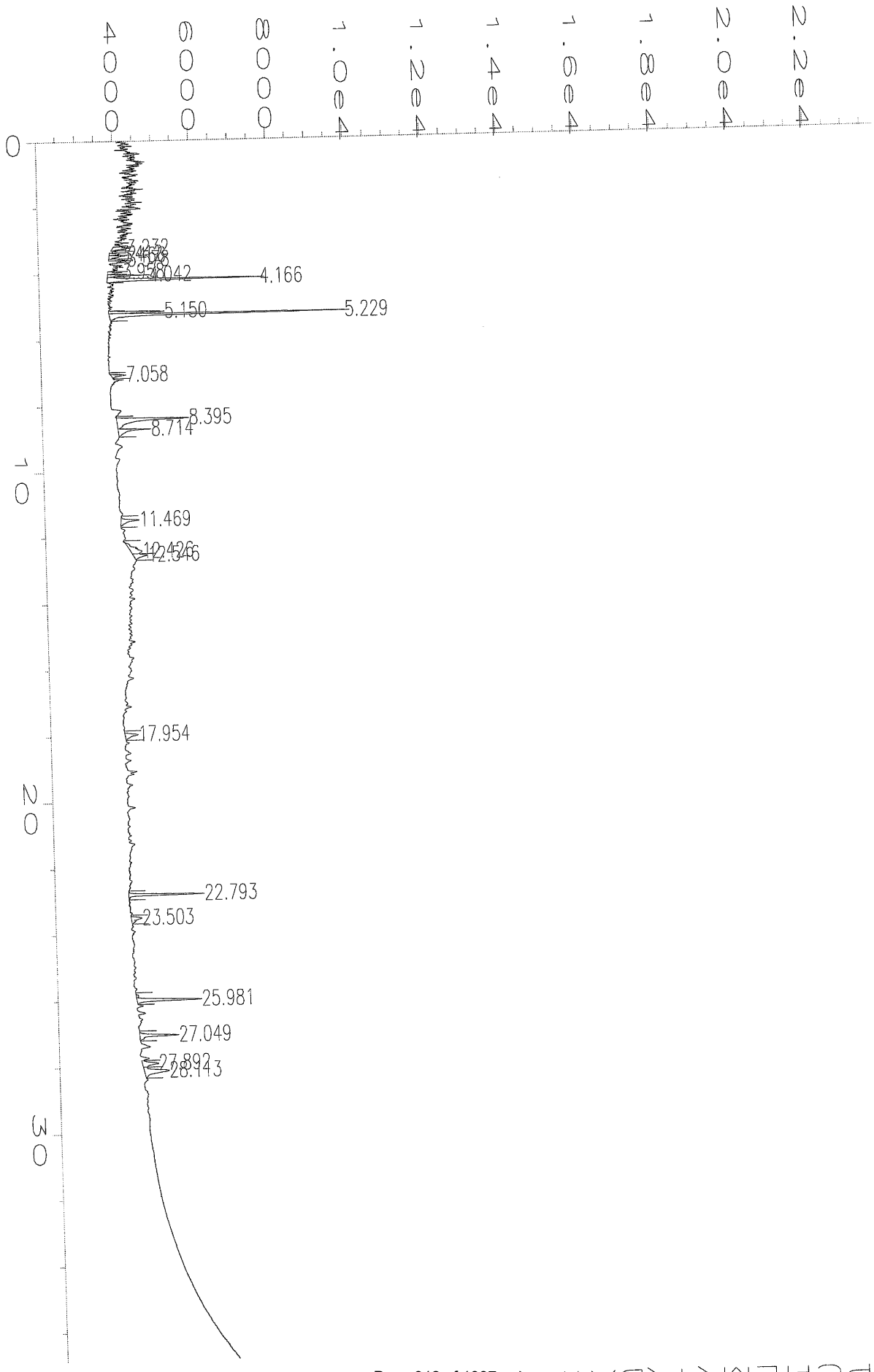
Data File Name : C:\HPCHEM\1\DATA\03315K\2510020A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-202
Run Time Bar Code:
Acquired on : 31 Mar 25 05:38 PM
Report Created on: 31 Mar 25 06:15 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03315K\2510020A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.232	1799	476	VV	0.061	2.0200
2	3.412	806	300	PV	0.037	0.9053
3	3.466	1451	433	VV	0.050	1.6295
4	3.578	1039	406	VV	0.038	1.1669
5	3.958	899	376	VV	0.035	1.0092
6	4.042	1948	1140	VV	0.034	2.1878
7	4.166	11642	4117	VV	0.040	13.0749
8	5.150	3796	1467	BV	0.038	4.2635
9	5.229	16365	6287	VV	0.039	18.3795
10	7.058	1182	392	BV	0.044	1.3273
11	8.395	9557	1891	BV	0.070	10.7341
12	8.714	2981	859	VB	0.046	3.3483
13	11.469	2386	471	BB	0.070	2.6795
14	12.426	3244	299	BV	0.137	3.6434
15	12.546	2078	381	VB	0.075	2.3334
16	17.954	1912	344	BB	0.081	2.1470
17	22.793	5805	1991	BB	0.046	6.5203
18	23.503	1757	283	BB	0.076	1.9738
19	25.981	6975	1706	BV	0.062	7.8333
20	27.049	4006	1031	BB	0.059	4.4994
21	27.892	2534	429	VV	0.087	2.8458
22	28.113	4877	658	VV	0.108	5.4778

Total area = 89038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Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\03315K\2510021A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-203
Run Time Bar Code:
Acquired on : 31 Mar 25 06:22 PM
Report Created on: 31 Mar 25 06:59 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03315K\2510021A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.190	1574	579	PV	0.045	0.0300
2	3.241	884	592	VV	0.021	0.0169
3	3.585	947	400	PV	0.033	0.0181
4	3.991	49579	42451	VV	0.019	0.9465
5	4.114	69444	38764	PV	0.027	1.3257
6	4.173	92856	38852	VV	0.036	1.7727
7	4.579	3689	1240	VV	0.042	0.0704
8	4.901	3137	790	VV	0.057	0.0599
9	5.107	291366	116334	PV	0.040	5.5623
10	5.216	368503	127196	VV	0.044	7.0349
11	7.028	42318	13760	BV	0.046	0.8079
12	7.232	2300	757	VV	0.040	0.0439
13	7.277	1194	473	VV	0.034	0.0228
14	7.985	135558	33488	BV	0.056	2.5879
15	8.341	344864	116307	VV	0.045	6.5836
16	8.573	5378	1152	VV	0.061	0.1027
17	8.678	2848	796	VV	0.050	0.0544
18	8.722	3050	1131	VV	0.037	0.0582
19	8.815	137173	36013	VV	0.054	2.6187
20	9.398	65597	15103	VV	0.061	1.2523
21	10.748	7305	1608	BB	0.065	0.1395
22	11.436	19061	5475	BV	0.051	0.3639
23	12.088	5859	1626	BV	0.055	0.1119
24	12.205	3172	652	VV	0.065	0.0605
25	12.353	18731	5361	VV	0.052	0.3576
26	12.505	17482	4549	VV	0.055	0.3337
27	12.706	7253	1506	VV	0.069	0.1385
28	12.861	9273	1670	VV	0.078	0.1770
29	13.147	3094	834	VV	0.056	0.0591
30	13.301	20486	5264	VV	0.057	0.3911
31	13.830	2783	865	PV	0.049	0.0531
32	14.470	1541	449	BV	0.054	0.0294
33	14.662	3529	699	VV	0.079	0.0674
34	14.833	4510	1322	VV	0.051	0.0861
35	15.119	6560	1831	VV	0.051	0.1252

36	15.179	9642	2281	VV	0.060	0.1841
37	15.366	6343	690	VV	0.118	0.1211
38	15.617	4298	993	VV	0.063	0.0821
39	15.848	4213	700	VV	0.081	0.0804
40	16.055	6515	1256	VV	0.073	0.1244
41	16.211	8742	2457	VV	0.053	0.1669
42	16.385	3343	947	VV	0.053	0.0638
43	16.463	4363	961	VB	0.064	0.0833
44	16.955	1572	312	BV	0.069	0.0300
45	17.095	5216	1356	VV	0.057	0.0996
46	17.248	2294	530	VB	0.068	0.0438
47	17.905	26655	6418	VV	0.060	0.5089
48	18.018	6785	1092	VV	0.081	0.1295
49	18.185	7721	2128	VV	0.055	0.1474
50	18.294	7294	1615	VV	0.066	0.1392
51	18.436	5446	1508	VV	0.053	0.1040
52	18.498	3768	1117	VV	0.051	0.0719
53	18.709	8832	2525	VV	0.053	0.1686
54	18.946	2036	621	PV	0.051	0.0389
55	19.064	26372	8746	VV	0.046	0.5034
56	19.129	7626	2248	VV	0.051	0.1456
57	19.364	9151	2883	VV	0.049	0.1747
58	19.437	21215	4808	VV	0.063	0.4050
59	19.792	8168	1935	VV	0.062	0.1559
60	20.148	12859	3293	PV	0.058	0.2455
61	20.415	927	362	BV	0.039	0.0177
62	20.483	4726	1066	VV	0.064	0.0902
63	20.714	2569	717	VB	0.057	0.0491
64	20.921	3580	1197	BV	0.045	0.0683
65	20.985	6223	1814	VV	0.052	0.1188
66	21.152	146198	34534	PV	0.063	2.7910
67	21.388	8199	2165	VV	0.055	0.1565
68	21.466	13279	2385	VV	0.077	0.2535
69	21.616	8765	1557	VV	0.078	0.1673
70	21.803	17619	3180	VV	0.077	0.3364
71	21.910	6264	1595	VV	0.057	0.1196
72	22.067	5168	1076	VV	0.068	0.0987
73	22.168	6309	1281	VV	0.070	0.1204
74	22.314	17341	4321	VV	0.058	0.3310
75	22.371	7749	2528	VV	0.051	0.1479
76	22.556	7253	1709	VV	0.062	0.1385
77	22.797	15844	4351	VV	0.054	0.3025
78	22.979	7873	2162	PV	0.054	0.1503
79	23.140	6520	1832	VV	0.056	0.1245
80	23.242	5928	1724	VV	0.052	0.1132
81	23.396	325796	76929	VV	0.064	6.2196
82	23.791	58672	13305	VV	0.066	1.1201
83	23.878	26605	7300	VV	0.054	0.5079
84	24.008	212630	42144	VV	0.076	4.0592
85	24.236	25241	5223	VV	0.070	0.4819
86	24.377	6705	1570	VV	0.063	0.1280

87	24.523	27182	5386	VV	0.073	0.5189
88	24.629	118050	21899	VV	0.078	2.2536
89	24.775	31875	7441	VV	0.062	0.6085
90	24.915	73294	14828	VV	0.071	1.3992
91	25.121	9437	2399	VV	0.060	0.1802
92	25.293	46845	8532	VV	0.083	0.8943
93	25.428	21699	3816	VV	0.080	0.4142
94	25.635	58444	10164	VV	0.082	1.1157
95	25.823	101432	13287	VV	0.117	1.9364
96	25.993	868362	210222	VV	0.064	16.5774
97	26.201	19149	4025	VV	0.071	0.3656
98	26.372	184930	25617	VV	0.099	3.5304
99	26.556	38919	9258	VV	0.061	0.7430
100	26.653	56471	10541	VV	0.080	1.0781
101	26.916	46166	5667	VV	0.109	0.8813
102	27.027	181545	24056	VV	0.110	3.4658
103	27.295	51795	8054	VV	0.089	0.9888
104	27.390	65964	16170	VV	0.061	1.2593
105	27.488	24176	3772	VV	0.087	0.4615
106	27.719	88613	19370	VV	0.070	1.6917
107	27.834	91646	18670	VV	0.074	1.7496
108	27.978	10644	2789	VV	0.056	0.2032
109	28.074	61170	10412	VV	0.085	1.1678
110	28.255	10974	2392	VV	0.068	0.2095
111	28.374	17335	3252	VV	0.077	0.3309
112	28.718	4644	1028	VV	0.067	0.0887
113	28.807	8094	1262	VV	0.088	0.1545
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Total area = 5238215

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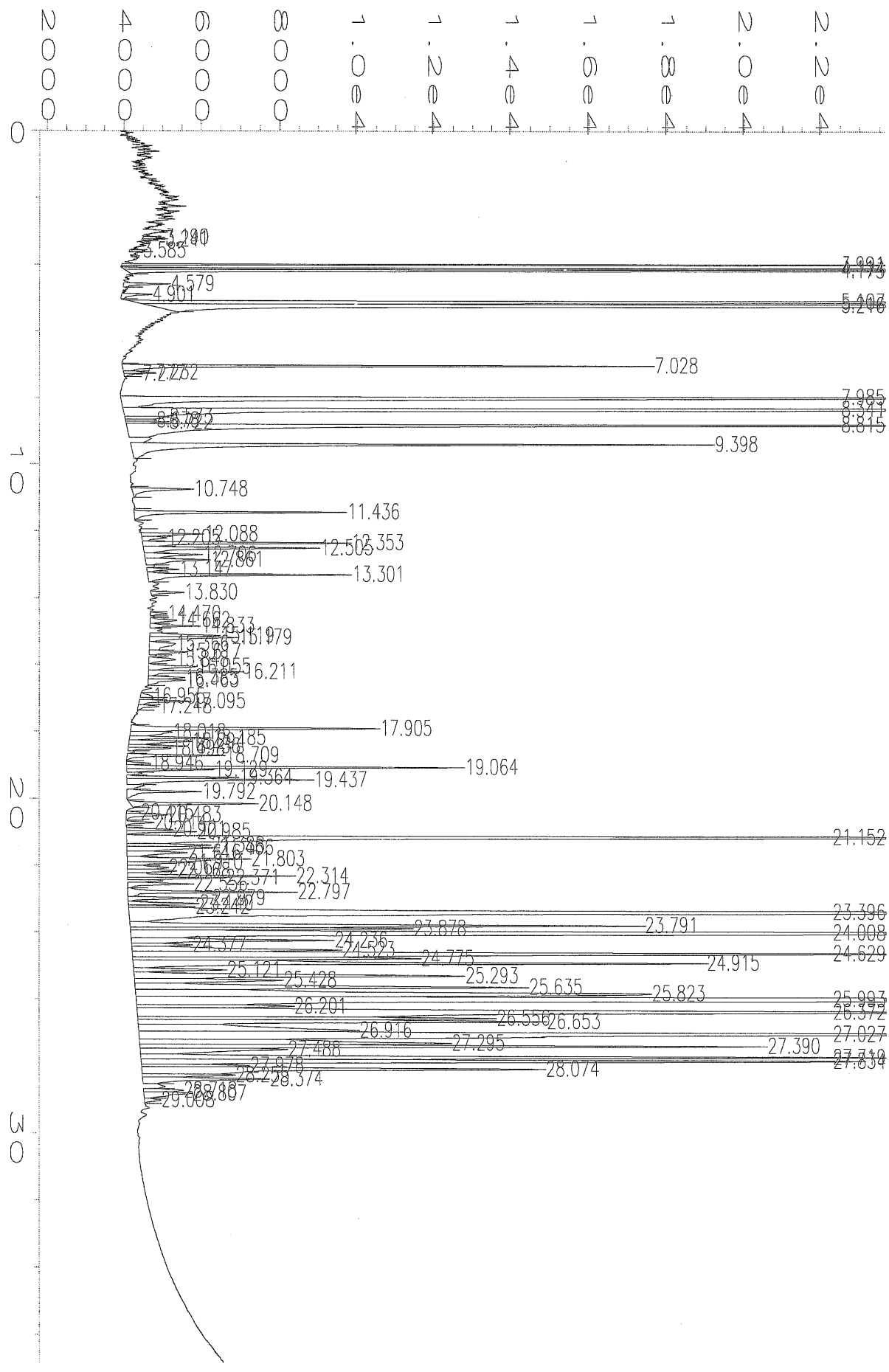
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Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04025K\2510022A.D
Operator : SS
Instrument : ANALYZER1
Sample Name : T-204
Run Time Bar Code:
Acquired on : 02 Apr 25 08:49 PM
Report Created on: 02 Apr 25 09:26 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04025K\2510022A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.420	2454	498	PV	0.062	0.4051
2	3.501	1029	384	VV	0.036	0.1699
3	3.594	808	405	VV	0.031	0.1334
4	3.778	973	291	VV	0.052	0.1606
5	4.031	2401	1737	VV	0.021	0.3963
6	4.135	51648	31414	PV	0.026	8.5248
7	4.202	4066	2087	VV	0.030	0.6711
8	5.111	78069	37858	PV	0.030	12.8855
9	5.214	78825	34904	VV	0.034	13.0103
10	7.023	9079	2640	BV	0.049	1.4986
11	7.259	1338	417	VV	0.049	0.2209
12	7.984	41437	8407	BV	0.066	6.8393
13	8.325	89068	31175	VV	0.042	14.7010
14	8.664	1768	855	PB	0.029	0.2917
15	8.824	37832	6671	BV	0.075	6.2443
16	9.426	21055	3462	PB	0.082	3.4753
17	11.433	4602	1141	BB	0.058	0.7596
18	12.040	8175	982	BV	0.111	1.3494
19	12.097	8693	1059	VV	0.110	1.4348
20	12.352	2700	581	VV	0.064	0.4457
21	12.498	2742	973	VV	0.044	0.4525
22	12.851	3335	688	PB	0.071	0.5505
23	13.304	5602	1092	PV	0.070	0.9246
24	13.824	5120	632	VV	0.110	0.8450
25	14.820	945	276	PV	0.048	0.1560
26	14.994	8620	1344	VV	0.094	1.4228
27	15.108	5768	1391	VV	0.059	0.9521
28	15.175	5984	1127	VV	0.072	0.9877
29	15.303	11848	2361	VV	0.070	1.9555
30	15.431	5165	846	VV	0.082	0.8525
31	15.626	3411	534	VV	0.089	0.5630
32	16.203	3334	966	PV	0.052	0.5503
33	17.087	2767	925	BV	0.046	0.4567
34	17.927	1321	384	PV	0.054	0.2180
35	18.178	1659	544	BV	0.048	0.2737

36	18.436	10803	1165	PV	0.120	1.7831
37	18.600	2517	563	VV	0.062	0.4154
38	18.700	3299	680	VB	0.068	0.5446
39	18.932	1098	329	BV	0.050	0.1813
40	19.058	4091	1113	VV	0.052	0.6753
41	19.100	3084	1020	VB	0.050	0.5091
42	19.785	823	256	BB	0.049	0.1358
43	20.137	3804	709	BB	0.075	0.6279
44	20.701	1114	318	BB	0.053	0.1839
45	20.911	2635	646	BV	0.060	0.4349
46	21.796	1513	347	BB	0.063	0.2498
47	22.776	1791	572	BB	0.047	0.2957
48	23.473	4568	717	VV	0.089	0.7540
49	23.880	2239	426	VV	0.076	0.3695
50	24.721	8405	674	VV	0.162	1.3873
51	24.924	2366	364	VV	0.092	0.3905
52	25.284	1841	307	VB	0.087	0.3039
53	25.965	2171	404	VB	0.076	0.3584
54	26.632	2044	377	VB	0.075	0.3374
55	26.893	4616	754	BV	0.095	0.7619
56	27.031	8137	1485	VV	0.076	1.3431
57	27.297	3294	528	VV	0.088	0.5437
58	27.368	1273	388	VV	0.055	0.2101
59	27.855	6040	1037	VV	0.087	0.9969
60	28.091	8653	1250	VV	0.110	1.4282

Total area = 605864

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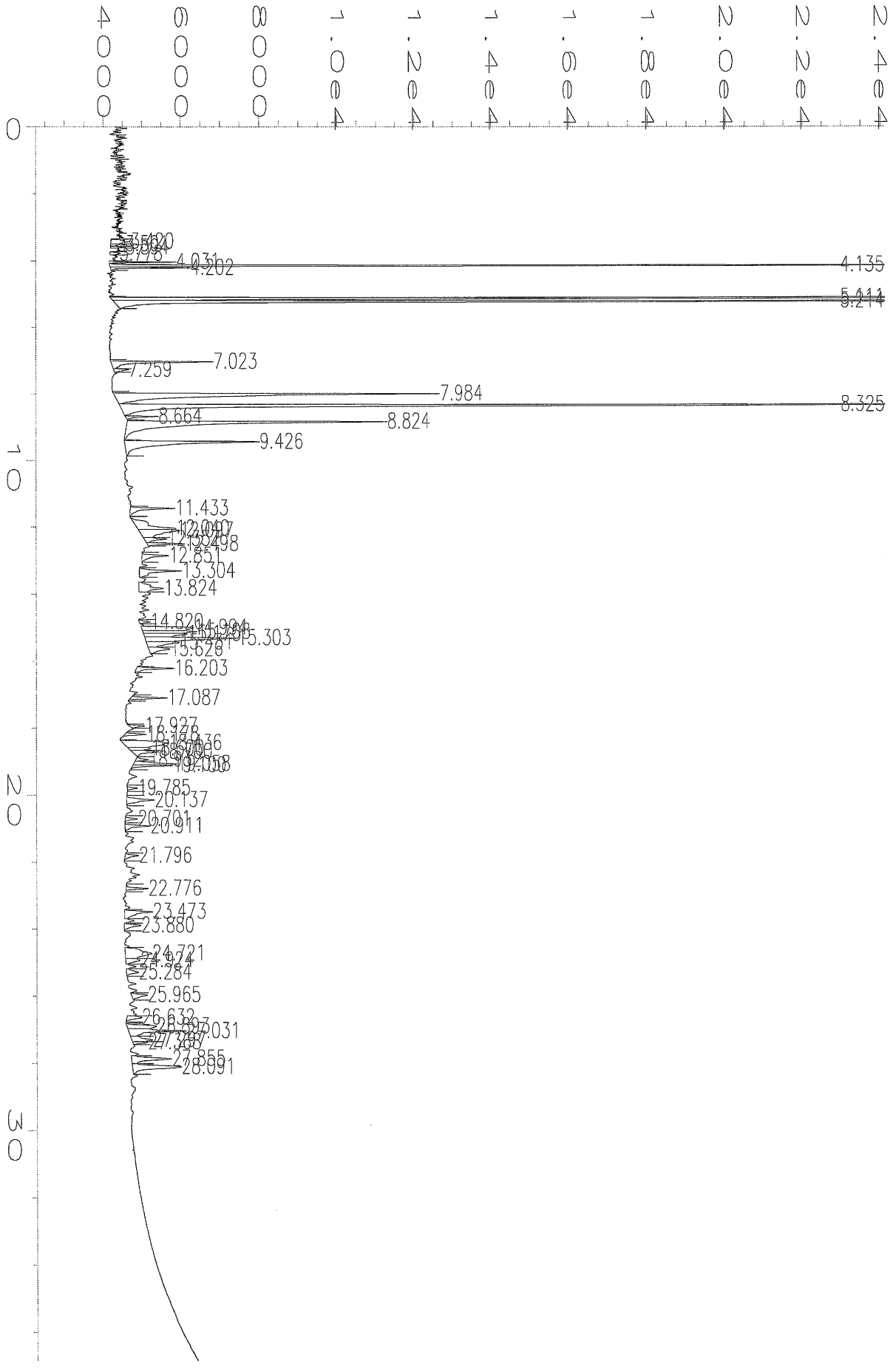
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Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\03315K\2510023A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-205
Run Time Bar Code:
Acquired on : 31 Mar 25 07:51 PM
Report Created on: 31 Mar 25 08:28 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03315K\2510023A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.141	1475	560	VV	0.036	0.5906
2	3.279	942	485	VV	0.032	0.3775
3	3.311	865	519	VV	0.025	0.3465
4	3.355	808	567	VV	0.024	0.3237
5	3.451	1931	571	VV	0.043	0.7735
6	3.480	1176	589	VV	0.031	0.4711
7	3.535	911	640	VV	0.024	0.3648
8	3.598	829	367	PV	0.030	0.3318
9	3.711	3624	540	VV	0.103	1.4512
10	3.821	858	564	VV	0.021	0.3438
11	3.855	1749	538	VV	0.044	0.7005
12	4.038	2146	874	VV	0.035	0.8596
13	4.167	7637	2129	VV	0.049	3.0585
14	4.618	3974	1169	PV	0.049	1.5916
15	4.706	811	308	VV	0.036	0.3249
16	4.919	7004	1534	PV	0.063	2.8049
17	5.167	1767	609	VV	0.043	0.7077
18	5.244	6378	2099	VV	0.043	2.5543
19	7.038	29422	10136	BV	0.043	11.7832
20	8.438	1506	295	BB	0.072	0.6032
21	8.690	4053	1251	BV	0.044	1.6231
22	8.907	1006	255	VB	0.056	0.4027
23	11.448	8633	2245	BV	0.055	3.4575
24	12.044	17292	5095	PV	0.050	6.9255
25	12.224	1295	271	VV	0.065	0.5188
26	12.378	1588	214	VV	0.095	0.6361
27	13.833	2642	774	PV	0.051	1.0582
28	14.840	1752	442	BV	0.058	0.7015
29	19.066	1923	668	BV	0.044	0.7702
30	19.140	3226	931	VB	0.052	1.2919
31	20.991	2359	611	BV	0.059	0.9447
32	21.145	3944	1160	VV	0.053	1.5794
33	21.927	1081	291	VB	0.050	0.4328
34	22.790	21949	7539	BB	0.045	8.7903
35	23.420	18627	2526	BV	0.100	7.4600

36	23.893	1811	308	VB	0.075	0.7255
37	25.975	44070	11453	VV	0.059	17.6496
38	26.158	1702	455	VV	0.055	0.6818
39	26.375	2183	514	PV	0.062	0.8741
40	27.043	17335	3638	BV	0.068	6.9427
41	27.391	4585	966	VV	0.067	1.8362
42	27.734	1066	258	PV	0.063	0.4271
43	27.881	2564	499	VB	0.076	1.0270
44	28.102	7193	1100	BV	0.095	2.8808

Total area = 249692

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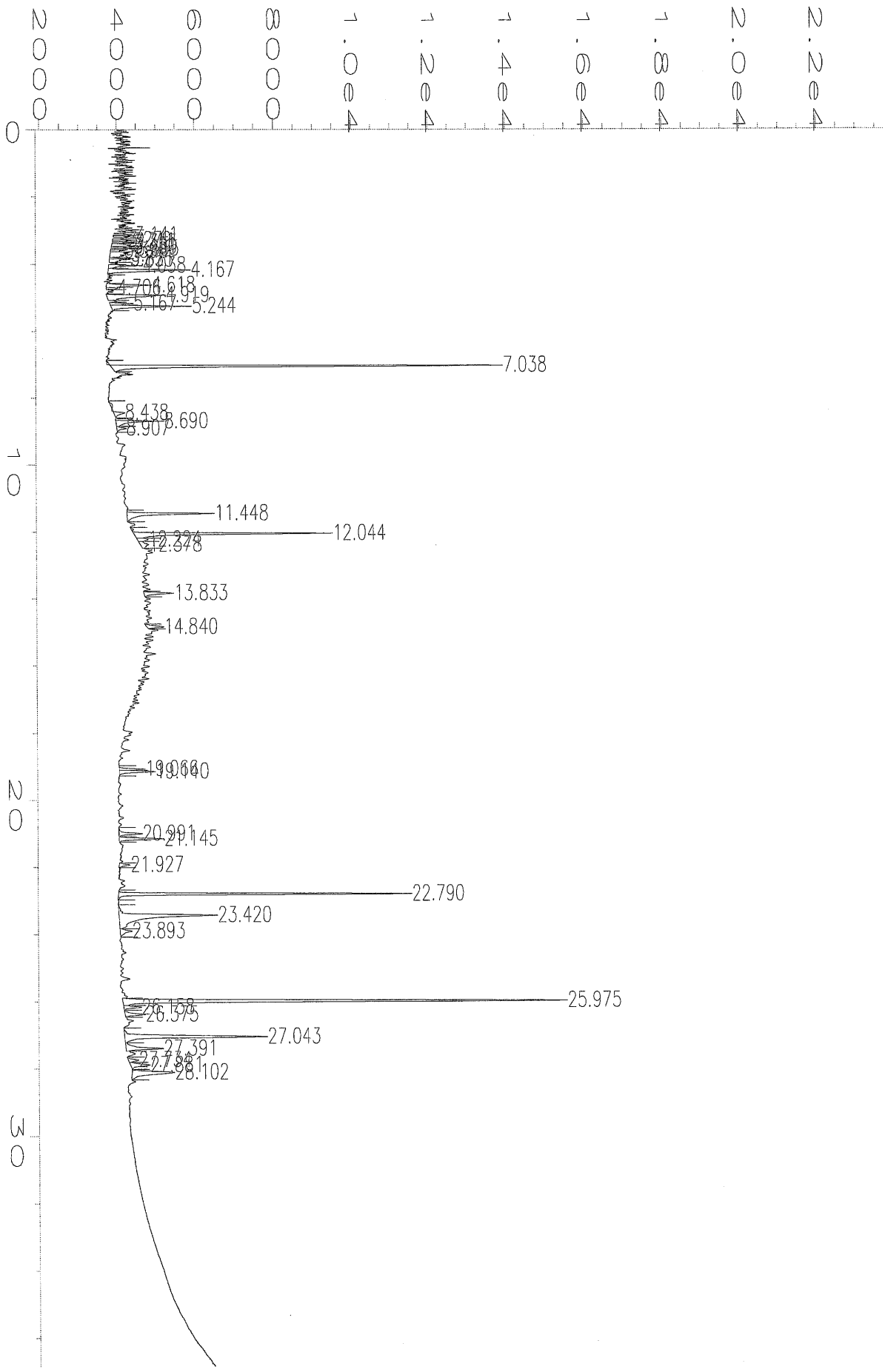
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Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\03315K\2510024A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-206
Run Time Bar Code:
Acquired on : 31 Mar 25 08:37 PM
Report Created on: 31 Mar 25 09:14 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03315K\2510024A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.136	1843	602	VV	0.043	0.0184
2	3.277	2345	556	PV	0.053	0.0234
3	3.305	1851	661	VV	0.047	0.0185
4	3.503	1218	515	VV	0.033	0.0122
5	3.538	836	462	VV	0.031	0.0084
6	3.984	20880	14111	VV	0.022	0.2088
7	4.145	32596	15606	VV	0.032	0.3259
8	4.588	210516	61419	PV	0.050	2.1050
9	4.865	256866	69624	VV	0.050	2.5685
10	5.041	8920	4281	VV	0.035	0.0892
11	5.086	22112	9085	VV	0.041	0.2211
12	5.141	106416	36307	VV	0.044	1.0641
13	5.240	676827	223003	VV	0.046	6.7678
14	5.955	185503	30340	VV	0.080	1.8549
15	6.396	34049	3949	VV	0.110	0.3405
16	6.983	919985	331080	PV	0.044	9.1992
17	7.020	1029828	353734	VV	0.043	10.2975
18	7.297	1801	1609	VV	0.019	0.0180
19	7.326	2816	1022	VV	0.046	0.0282
20	7.958	25587	11113	BV	0.040	0.2558
21	7.985	46247	10558	VV	0.073	0.4624
22	8.299	682727	188961	VV	0.052	6.8268
23	8.526	10472	1602	VV	0.083	0.1047
24	8.650	6320	1634	VV	0.051	0.0632
25	8.834	40354	8721	VV	0.066	0.4035
26	9.135	176204	40345	PV	0.065	1.7619
27	9.359	10705	1996	VV	0.073	0.1070
28	9.489	85154	20199	VV	0.060	0.8515
29	9.701	11992	1776	VV	0.094	0.1199
30	10.424	4938	982	BV	0.071	0.0494
31	10.711	9458	2273	PV	0.062	0.0946
32	11.413	1249059	397081	BV	0.050	12.4897
33	11.694	6775	1373	VV	0.068	0.0677
34	11.783	4282	1404	VV	0.045	0.0428
35	11.853	10779	1493	VV	0.092	0.1078

36	12.002	289963	91064	VV	0.048	2.8994
37	12.321	49872	16058	VV	0.047	0.4987
38	12.470	278548	102049	VV	0.042	2.7853
39	12.681	72000	18110	VV	0.056	0.7199
40	12.808	24226	3392	VV	0.094	0.2422
41	13.117	5763	978	VV	0.080	0.0576
42	13.281	21556	4126	VV	0.073	0.2155
43	13.670	6200	1055	VV	0.082	0.0620
44	13.796	80759	23343	VV	0.051	0.8075
45	14.248	4133	775	VV	0.074	0.0413
46	14.437	6705	1237	VV	0.077	0.0670
47	14.587	20045	3549	VV	0.080	0.2004
48	14.805	479717	164584	VV	0.045	4.7968
49	14.906	50416	14091	VV	0.053	0.5041
50	15.082	81259	25974	VV	0.047	0.8125
51	15.269	37310	6931	VV	0.073	0.3731
52	15.577	57786	16969	VV	0.051	0.5778
53	15.786	13282	1799	VV	0.097	0.1328
54	16.044	7070	776	VV	0.113	0.0707
55	16.183	31547	10351	VV	0.047	0.3154
56	16.264	9038	2460	VV	0.053	0.0904
57	16.439	10769	1540	VV	0.092	0.1077
58	16.873	8072	1508	VV	0.079	0.0807
59	16.996	10843	3718	VV	0.044	0.1084
60	17.074	62360	15368	VV	0.060	0.6236
61	17.203	28227	7098	VV	0.057	0.2823
62	17.380	6141	1499	VB	0.060	0.0614
63	17.900	7272	1610	VV	0.066	0.0727
64	18.029	14697	4785	VV	0.047	0.1470
65	18.166	92644	29192	VV	0.050	0.9264
66	18.408	49645	17384	VV	0.044	0.4964
67	18.477	59829	19835	VV	0.047	0.5982
68	18.593	11398	3762	VV	0.048	0.1140
69	18.685	86136	29113	VV	0.046	0.8613
70	18.831	2405	695	VV	0.052	0.0240
71	18.925	16679	5395	VV	0.048	0.1668
72	19.056	138431	38670	VV	0.051	1.3842
73	19.114	121251	36697	VV	0.050	1.2124
74	19.440	3991	754	VV	0.073	0.0399
75	19.779	9857	2999	BV	0.049	0.0986
76	20.132	93545	21269	BV	0.064	0.9354
77	20.390	7454	2577	VV	0.044	0.0745
78	20.466	27627	6085	VV	0.067	0.2762
79	20.694	22051	6409	VV	0.054	0.2205
80	20.907	23594	8280	VV	0.043	0.2359
81	20.972	56193	17040	VV	0.051	0.5619
82	21.132	84468	25466	VV	0.051	0.8446
83	21.243	16413	3281	VV	0.068	0.1641
84	21.380	10805	2095	VV	0.071	0.1080
85	21.521	3657	1008	VV	0.054	0.0366
86	21.636	9840	1845	VV	0.075	0.0984

87	21.790	35203	8517	VV	0.061	0.3520
88	21.906	31701	9261	VV	0.052	0.3170
89	22.047	5124	1259	VV	0.062	0.0512
90	22.163	5704	1505	VV	0.057	0.0570
91	22.369	18037	5349	VV	0.052	0.1804
92	22.468	73265	15323	VV	0.069	0.7326
93	22.796	19612	5189	VV	0.056	0.1961
94	22.880	1506	544	VV	0.046	0.0151
95	22.968	12173	3479	VV	0.054	0.1217
96	23.148	1179	455	PV	0.041	0.0118
97	23.226	5951	2091	VV	0.042	0.0595
98	23.297	13854	4257	VV	0.049	0.1385
99	23.394	421804	109056	VV	0.059	4.2177
100	23.746	6872	1593	VV	0.064	0.0687
101	23.877	26552	6990	VV	0.058	0.2655
102	23.952	7821	2241	VV	0.053	0.0782
103	24.061	7796	1250	VV	0.087	0.0780
104	24.365	2414	602	VV	0.059	0.0241
105	24.451	11548	3733	VV	0.047	0.1155
106	24.515	17921	4386	VV	0.061	0.1792
107	24.654	38511	5022	VV	0.114	0.3851
108	24.766	17204	3602	VV	0.069	0.1720
109	24.991	4964	1191	VV	0.064	0.0496
110	25.118	4894	1456	PV	0.054	0.0489
111	25.293	33396	6887	VV	0.074	0.3339
112	25.425	6007	916	VV	0.093	0.0601
113	25.629	12768	2293	VV	0.082	0.1277
114	25.835	26024	3327	VV	0.109	0.2602
115	25.971	29328	6399	VV	0.067	0.2933
116	26.033	24042	4353	VV	0.092	0.2404
117	26.178	8620	1848	VV	0.069	0.0862
118	26.317	20784	2903	VV	0.099	0.2078
119	26.467	5925	1660	VV	0.053	0.0592
120	26.555	35139	8782	VV	0.060	0.3514
121	26.633	22522	4568	VV	0.072	0.2252
122	26.897	18790	3162	VV	0.088	0.1879
123	27.052	98872	25141	VV	0.058	0.9887
124	27.390	99367	21792	VV	0.068	0.9936
125	27.490	11722	2452	VV	0.069	0.1172
126	27.722	14454	3027	VV	0.071	0.1445
127	27.848	14645	2806	VV	0.078	0.1464
128	27.975	9906	2321	VV	0.063	0.0991
129	28.070	9444	1741	VV	0.080	0.0944
130	28.187	12185	2148	VV	0.079	0.1218
131	28.250	7584	1895	VV	0.058	0.0758
132	28.373	23497	4699	VV	0.073	0.2350
133	28.601	3781	635	VV	0.087	0.0378
134	28.710	7717	1760	VV	0.066	0.0772
135	28.806	16473	2630	VV	0.087	0.1647
136	29.003	5888	1194	VV	0.076	0.0589
137	29.225	6630	972	VV	0.095	0.0663

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Total area = 1.00007E+007

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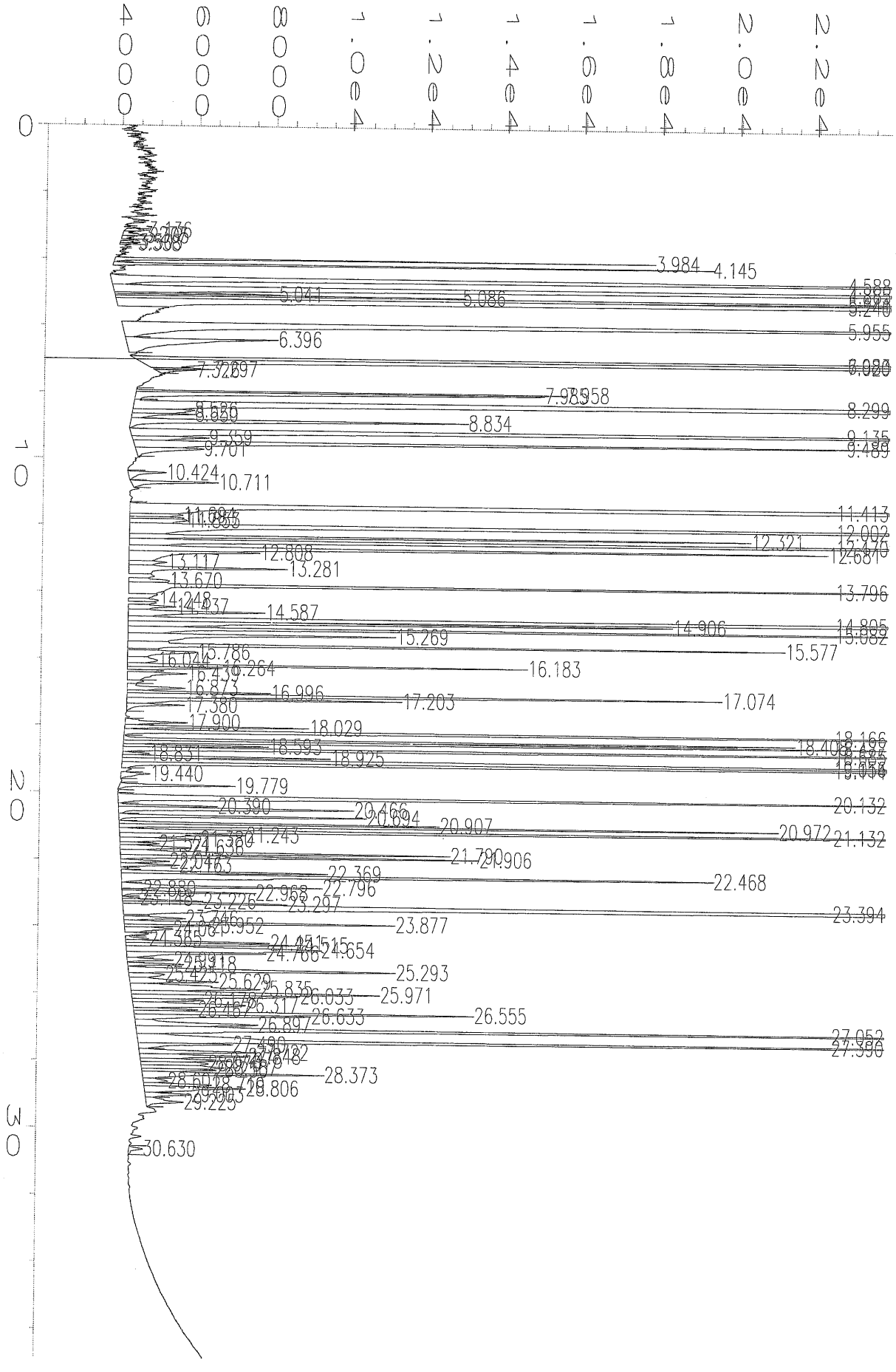
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Page 327 of 1887

Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04035K\2510025A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : T-207
Run Time Bar Code:
Acquired on : 03 Apr 25 11:44 AM
Report Created on: 03 Apr 25 12:21 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04035K\2510025A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.356	1267	355	VV	0.064	0.2213
2	4.086	2671	1211	VV	0.032	0.4667
3	4.218	8444	3789	PV	0.034	1.4750
4	4.624	10276	3313	PV	0.043	1.7951
5	4.907	20706	5707	PV	0.050	3.6171
6	5.169	3903	941	VV	0.054	0.6819
7	5.252	10612	3484	VV	0.044	1.8538
8	6.048	15741	2247	BB	0.094	2.7498
9	7.024	76000	27742	BV	0.042	13.2763
10	8.381	4583	1172	BV	0.055	0.8006
11	8.437	7213	1342	VV	0.069	1.2600
12	8.535	5417	1453	VB	0.049	0.9462
13	8.871	1564	504	BB	0.048	0.2733
14	9.252	6144	1094	BV	0.077	1.0733
15	9.617	5658	633	BB	0.117	0.9885
16	11.399	39393	13187	BV	0.045	6.8814
17	11.827	2228	304	PV	0.110	0.3891
18	11.996	42869	11134	VV	0.056	7.4887
19	12.335	1690	274	VV	0.088	0.2952
20	12.486	2296	498	VV	0.065	0.4012
21	13.793	4660	1574	BB	0.046	0.8140
22	14.802	3956	1335	BV	0.047	0.6911
23	14.906	4370	1235	VV	0.053	0.7633
24	15.097	1549	318	VB	0.070	0.2706
25	15.586	1128	227	BV	0.071	0.1970
26	17.889	9535	2164	BV	0.065	1.6657
27	18.012	2793	684	VV	0.059	0.4879
28	18.152	4891	1383	VB	0.054	0.8544
29	18.471	2530	835	BV	0.048	0.4420
30	19.030	6411	1880	BV	0.050	1.1198
31	19.098	10602	2920	VB	0.054	1.8520
32	20.115	3021	542	BB	0.078	0.5277
33	20.946	6552	1833	BV	0.055	1.1446
34	21.102	10010	3160	PV	0.050	1.7486
35	21.221	1393	258	VB	0.085	0.2434

36	21.771	1110	328	BV	0.052	0.1940
37	21.876	3606	1094	VV	0.051	0.6299
38	22.332	5754	1013	BV	0.093	1.0052
39	22.502	4401	517	VV	0.112	0.7687
40	22.749	7584	2282	VB	0.051	1.3249
41	23.354	57971	11988	BV	0.070	10.1268
42	23.707	1011	239	VV	0.062	0.1766
43	23.841	5718	996	VV	0.082	0.9989
44	24.060	3877	459	PB	0.120	0.6773
45	24.480	1675	359	BV	0.070	0.2927
46	24.913	3217	544	VV	0.093	0.5619
47	25.262	2997	627	PV	0.073	0.5235
48	25.709	1224	296	VV	0.069	0.2137
49	25.799	2130	435	VV	0.074	0.3721
50	25.930	57707	14596	VV	0.061	10.0807
51	26.117	3174	671	VV	0.067	0.5545
52	26.328	4237	791	VV	0.079	0.7401
53	26.517	2006	467	VV	0.063	0.3504
54	26.600	3310	523	VV	0.087	0.5782
55	26.974	23242	4176	VV	0.086	4.0601
56	27.345	10198	1989	VV	0.074	1.7815
57	27.493	2216	346	VV	0.094	0.3870
58	27.686	2682	638	PV	0.066	0.4686
59	27.826	4860	958	VV	0.076	0.8489
60	28.082	14466	1932	VV	0.118	2.5270

Total area = 572450

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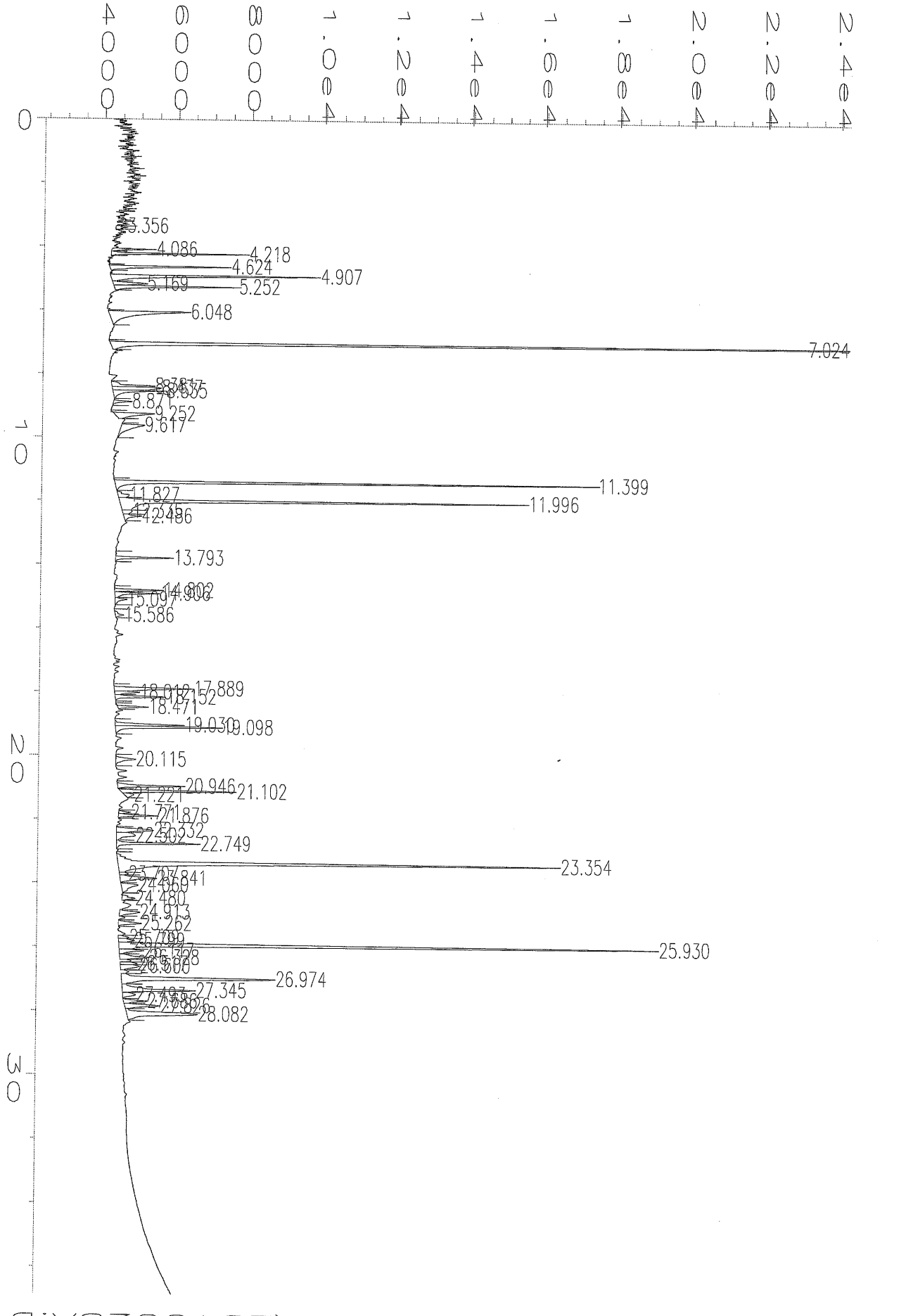
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Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04015K\2510026A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : T-208
Run Time Bar Code:
Acquired on : 01 Apr 25 11:24 AM
Report Created on: 01 Apr 25 12:01 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04015K\2510026A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.484	1055	420	VV	0.033	0.0508
2	4.031	1919	1611	VV	0.019	0.0924
3	4.150	7230	3973	VV	0.028	0.3483
4	4.579	19561	8532	BV	0.034	0.9423
5	4.856	40669	14961	PV	0.039	1.9591
6	5.086	2515	1336	VV	0.031	0.1212
7	5.132	3583	1225	VV	0.043	0.1726
8	5.227	8140	3825	VV	0.034	0.3921
9	5.984	24634	6163	BV	0.053	1.1867
10	6.143	3891	703	VV	0.092	0.1875
11	6.994	190139	82758	BV	0.035	9.1596
12	7.256	1316	712	VV	0.025	0.0634
13	8.019	3219	621	BB	0.072	0.1551
14	8.360	5766	1953	BV	0.041	0.2778
15	8.414	4700	1585	VB	0.041	0.2264
16	8.848	2156	1163	BV	0.031	0.1039
17	8.936	3563	475	VB	0.109	0.1717
18	9.189	12843	2524	BV	0.071	0.6187
19	9.528	12632	2452	PB	0.070	0.6085
20	11.388	132187	50491	BV	0.041	6.3678
21	11.991	94507	27924	VV	0.050	4.5527
22	12.333	2383	406	VV	0.082	0.1148
23	12.484	2257	534	VV	0.061	0.1087
24	13.790	11270	3658	BB	0.047	0.5429
25	14.797	14101	4869	BV	0.046	0.6793
26	14.924	23204	5871	VV	0.060	1.1178
27	15.080	5705	1762	VV	0.049	0.2748
28	15.283	6460	1441	PV	0.066	0.3112
29	15.417	7322	902	VV	0.115	0.3527
30	15.572	4661	1390	VB	0.050	0.2246
31	16.874	1197	396	BV	0.050	0.0577
32	16.933	1590	514	VV	0.045	0.0766
33	16.985	1408	480	VV	0.044	0.0678
34	17.194	3871	1281	PB	0.047	0.1865
35	17.890	2775	644	BV	0.064	0.1337

36	18.013	2872	881	VV	0.050	0.1383
37	18.152	9440	3042	VB	0.049	0.4547
38	18.464	14198	4308	BV	0.050	0.6839
39	18.578	1729	498	VV	0.053	0.0833
40	18.677	4451	1260	VV	0.053	0.2144
41	19.034	11665	3046	VV	0.053	0.5620
42	19.099	22339	6930	VB	0.050	1.0762
43	19.759	1554	487	BB	0.050	0.0748
44	20.110	7491	1383	BV	0.077	0.3608
45	20.457	4860	776	PB	0.094	0.2341
46	20.676	1648	496	BB	0.052	0.0794
47	20.948	13472	3999	BV	0.052	0.6490
48	21.106	17213	5384	VV	0.050	0.8292
49	21.219	2318	540	VV	0.062	0.1117
50	21.769	6099	1478	VV	0.060	0.2938
51	21.878	10742	2763	VV	0.058	0.5175
52	22.342	4184	1002	VV	0.062	0.2016
53	22.447	5990	1531	VV	0.059	0.2885
54	22.515	3441	950	VV	0.060	0.1658
55	22.765	12871	4095	PV	0.049	0.6201
56	23.200	1940	532	BV	0.061	0.0935
57	23.263	2562	828	VV	0.046	0.1234
58	23.361	150730	39928	VV	0.058	7.2611
59	23.717	1744	404	VV	0.066	0.0840
60	23.850	6678	1835	VV	0.056	0.3217
61	23.922	1787	573	VV	0.052	0.0861
62	24.487	7667	1398	VV	0.077	0.3694
63	24.586	4334	1146	VV	0.063	0.2088
64	24.660	6625	1262	VV	0.075	0.3192
65	24.742	3880	1022	VB	0.057	0.1869
66	24.962	11082	1470	BV	0.102	0.5339
67	25.090	20114	2973	VV	0.094	0.9690
68	25.247	30259	6304	VV	0.062	1.4577
69	25.428	66756	4676	PV	0.189	3.2158
70	25.604	44808	4688	VV	0.128	2.1585
71	25.807	55379	4839	VV	0.150	2.6678
72	25.946	85731	10847	VV	0.107	4.1299
73	26.142	26857	4200	VV	0.092	1.2938
74	26.327	39473	4000	VV	0.129	1.9015
75	26.442	16852	3723	VV	0.065	0.8118
76	26.528	29806	5450	VV	0.077	1.4358
77	26.612	32245	4244	VV	0.105	1.5534
78	26.879	34696	3385	VV	0.137	1.6714
79	27.024	65282	9777	VV	0.090	3.1448
80	27.360	63460	8885	VV	0.097	3.0570
81	27.460	22549	2587	VV	0.115	1.0862
82	27.696	13766	1952	VV	0.098	0.6631
83	27.823	26976	2861	VV	0.127	1.2995
84	28.048	25257	2294	VV	0.146	1.2167
85	28.223	9013	1605	VV	0.079	0.4342
86	28.343	10779	1352	VV	0.107	0.5193

87	28.677	8107	675	VV	0.155	0.3905
88	28.775	2152	478	VB	0.065	0.1036
89	28.971	2376	559	BV	0.067	0.1144
90	29.331	3831	541	VV	0.107	0.1845
91	29.441	3247	467	VV	0.104	0.1564
92	29.987	1070	224	BV	0.075	0.0515
93	30.220	3988	778	VV	0.077	0.1921
94	30.530	31014	6918	PV	0.065	1.4940
95	30.717	2114	410	VV	0.075	0.1019
96	30.860	3280	448	VV	0.122	0.1580
97	31.031	9421	1261	VV	0.104	0.4538
98	31.302	14518	1575	VV	0.125	0.6994
99	31.410	11653	1913	VV	0.086	0.5614
100	31.557	13566	1807	VV	0.096	0.6535
101	31.691	40384	5137	VV	0.111	1.9454
102	31.870	24583	2316	VV	0.140	1.1842
103	32.104	26415	3330	VV	0.107	1.2725
104	32.306	42476	4218	VV	0.139	2.0462
105	32.481-	20067	3157	VV	0.089	0.9667
106	32.656	30693	2790	VV	0.143	1.4786
107	32.757	7423	2224	VV	0.056	0.3576
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109	33.106	15293	1328	VV	0.148	0.7367

Total area = 2075855

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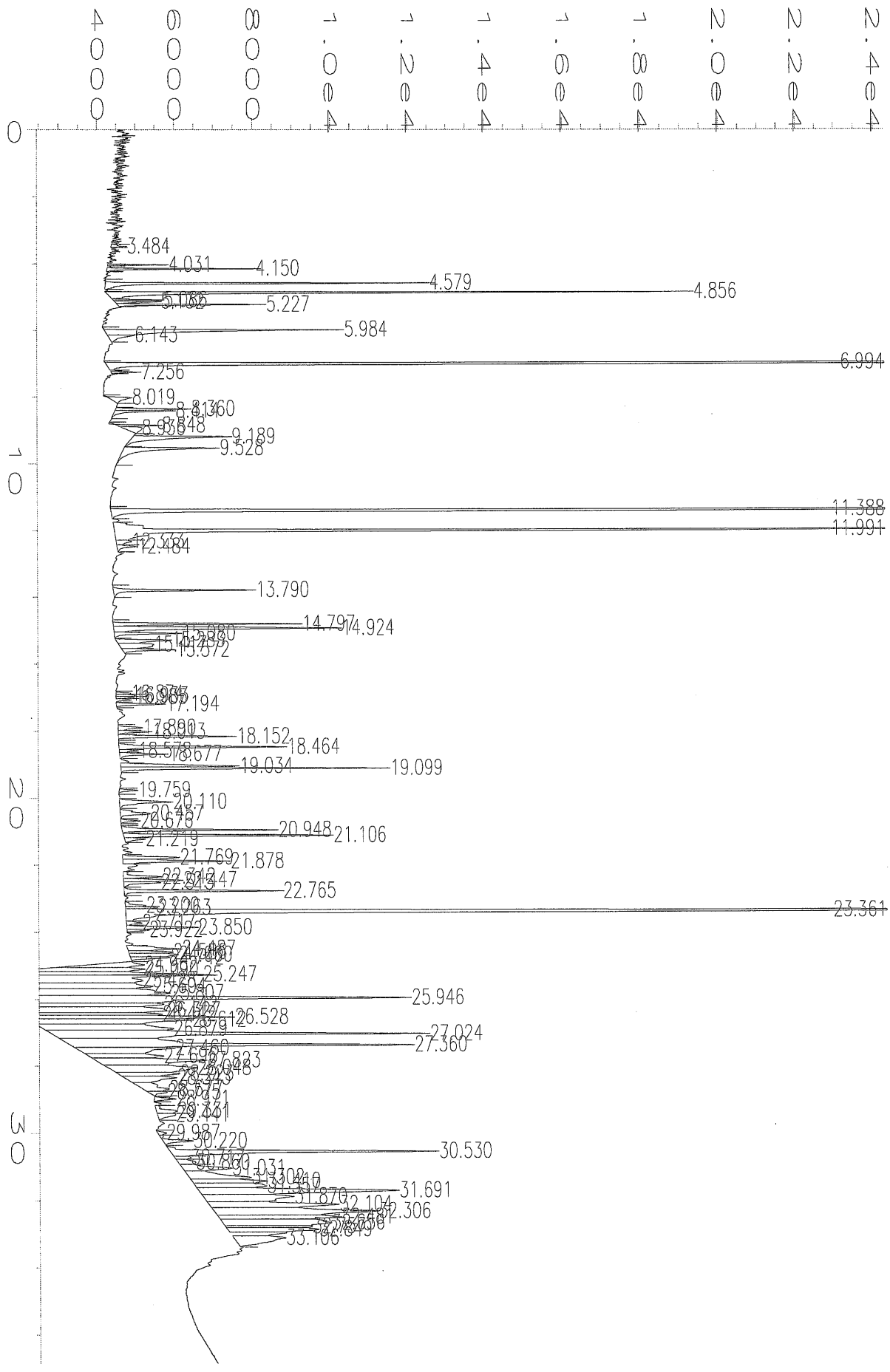
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Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04015K\2510027A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : T-209
Run Time Bar Code:
Acquired on : 01 Apr 25 12:16 PM
Report Created on: 01 Apr 25 12:53 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04015K\2510027A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.048	1317	767	BV	0.029	0.7416
2	3.099	2167	997	VV	0.036	1.2199
3	3.117	1171	725	VV	0.027	0.6590
4	3.281	4145	1225	PV	0.044	2.3334
5	3.312	2143	880	VV	0.041	1.2064
6	3.463	5473	757	VV	0.099	3.0807
7	3.650	1054	445	VV	0.040	0.5935
8	3.719	2955	686	VV	0.057	1.6634
9	3.929	3681	1095	VV	0.044	2.0719
10	4.075	1991	851	PV	0.032	1.1206
11	4.110	2858	989	VV	0.039	1.6087
12	4.188	2317	1144	VV	0.031	1.3041
13	4.310	2803	708	VV	0.052	1.5777
14	5.253	1162	266	BB	0.059	0.6539
15	7.283	4156	1387	BV	0.040	2.3394
16	8.575	4707	980	BV	0.068	2.6496
17	8.662	5275	1516	VB	0.046	2.9693
18	9.162	5481	573	BV	0.135	3.0854
19	9.299	873	259	VB	0.056	0.4917
20	12.173	9848	582	PV	0.207	5.5435
21	12.507	1162	216	VB	0.076	0.6543
22	15.382	1478	264	PV	0.085	0.8319
23	17.883	2528	469	BB	0.078	1.4229
24	22.750	21719	7763	BB	0.044	12.2256
25	23.427	31112	1346	BV	0.289	17.5127
26	24.653	4632	213	BB	0.272	2.6074
27	25.942	1232	325	BB	0.058	0.6935
28	26.124	2166	678	BB	0.049	1.2192
29	27.010	29514	4430	BB	0.100	16.6128
30	27.823	6142	646	PV	0.138	3.4573
31	28.062	2327	327	VV	0.101	1.3100
32	28.200	2951	476	VB	0.088	1.6609
33	29.552	2681	282	BB	0.122	1.5091
34	30.522	2431	697	BB	0.054	1.3686

Total area = 177656 - 82345

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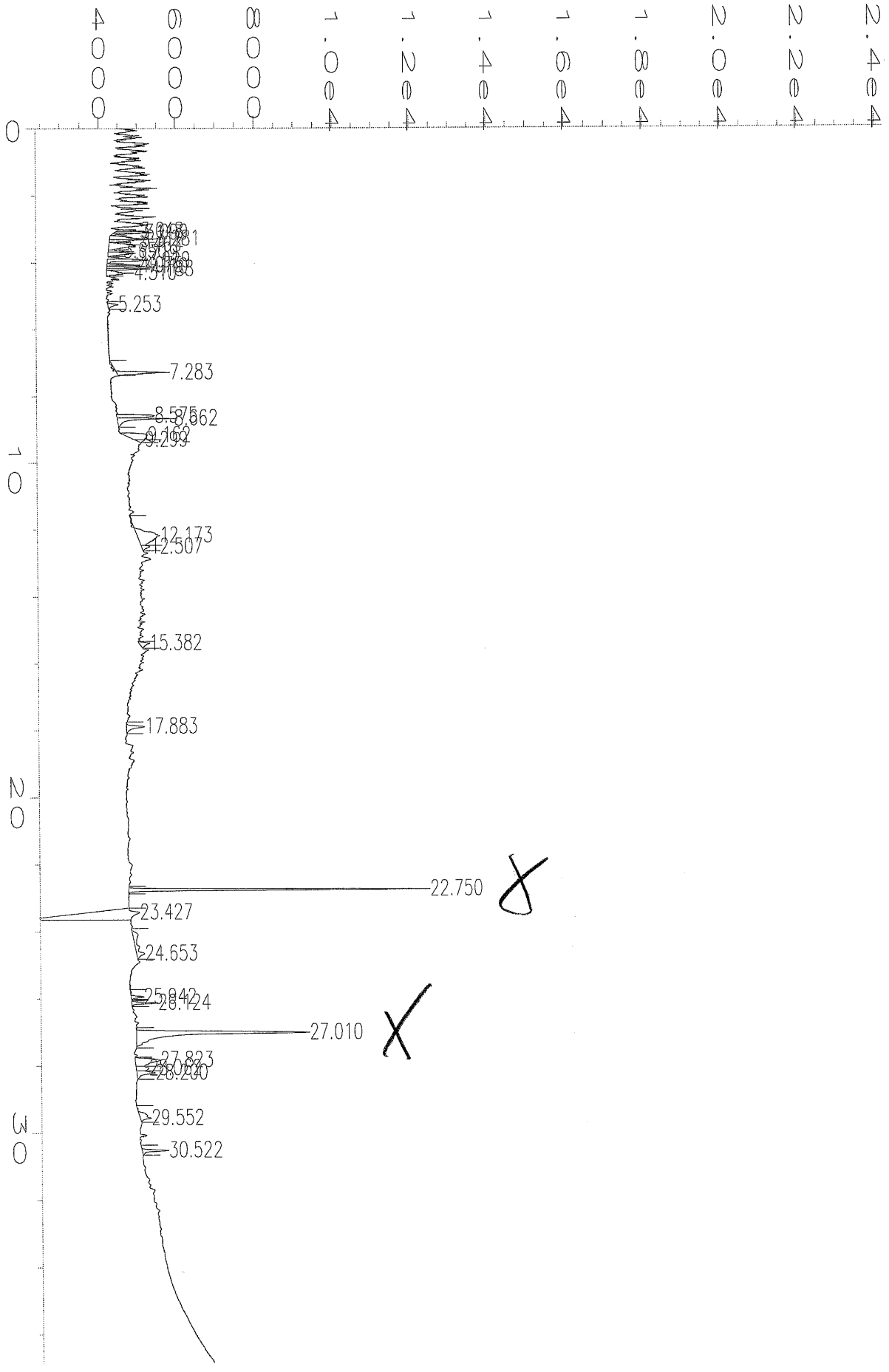
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Area Percent Report

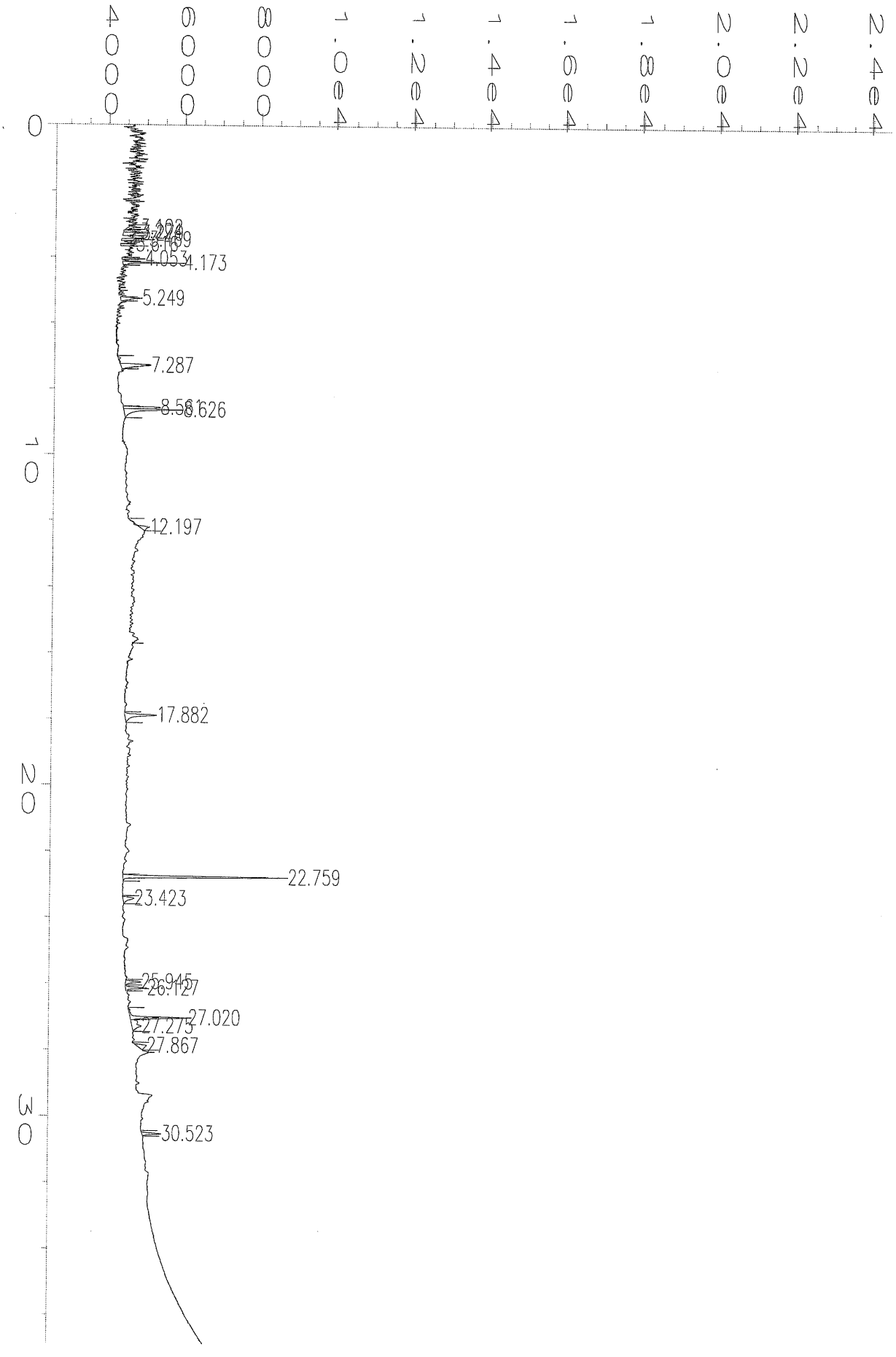
Data File Name : C:\HPCHEM\1\DATA\04015K\2510028A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : T-210
Run Time Bar Code:
Acquired on : 01 Apr 25 01:06 PM
Report Created on: 01 Apr 25 01:43 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04015K\2510028A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.102	841	342	BV	0.036	1.4044
2	3.224	806	414	PV	0.027	1.3449
3	3.279	1964	509	VV	0.051	3.2792
4	3.469	1646	894	VV	0.026	2.7478
5	3.616	1161	380	PV	0.042	1.9388
6	4.053	960	607	VV	0.022	1.6024
7	4.173	3164	1664	VV	0.029	5.2810
8	5.249	2000	542	VV	0.051	3.3388
9	7.287	4146	789	BV	0.065	6.9207
10	8.561	3322	974	BV	0.051	5.5458
11	8.626	5763	1570	VB	0.048	9.6200
12	12.197	1138	265	BB	0.060	1.9003
13	17.882	4056	831	BB	0.071	6.7708
14	22.759	12620	4323	BB	0.046	21.0665
15	23.423	1760	293	BB	0.074	2.9385
16	25.945	1560	402	BV	0.059	2.6043
17	26.127	1880	556	PB	0.052	3.1384
18	27.020	5264	1517	BV	0.053	8.7876
19	27.275	2803	236	VB	0.151	4.6788
20	27.867	1442	247	BB	0.074	2.4066
21	30.523	1608	504	BB	0.050	2.6843

Total area = 59906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Area Percent Report

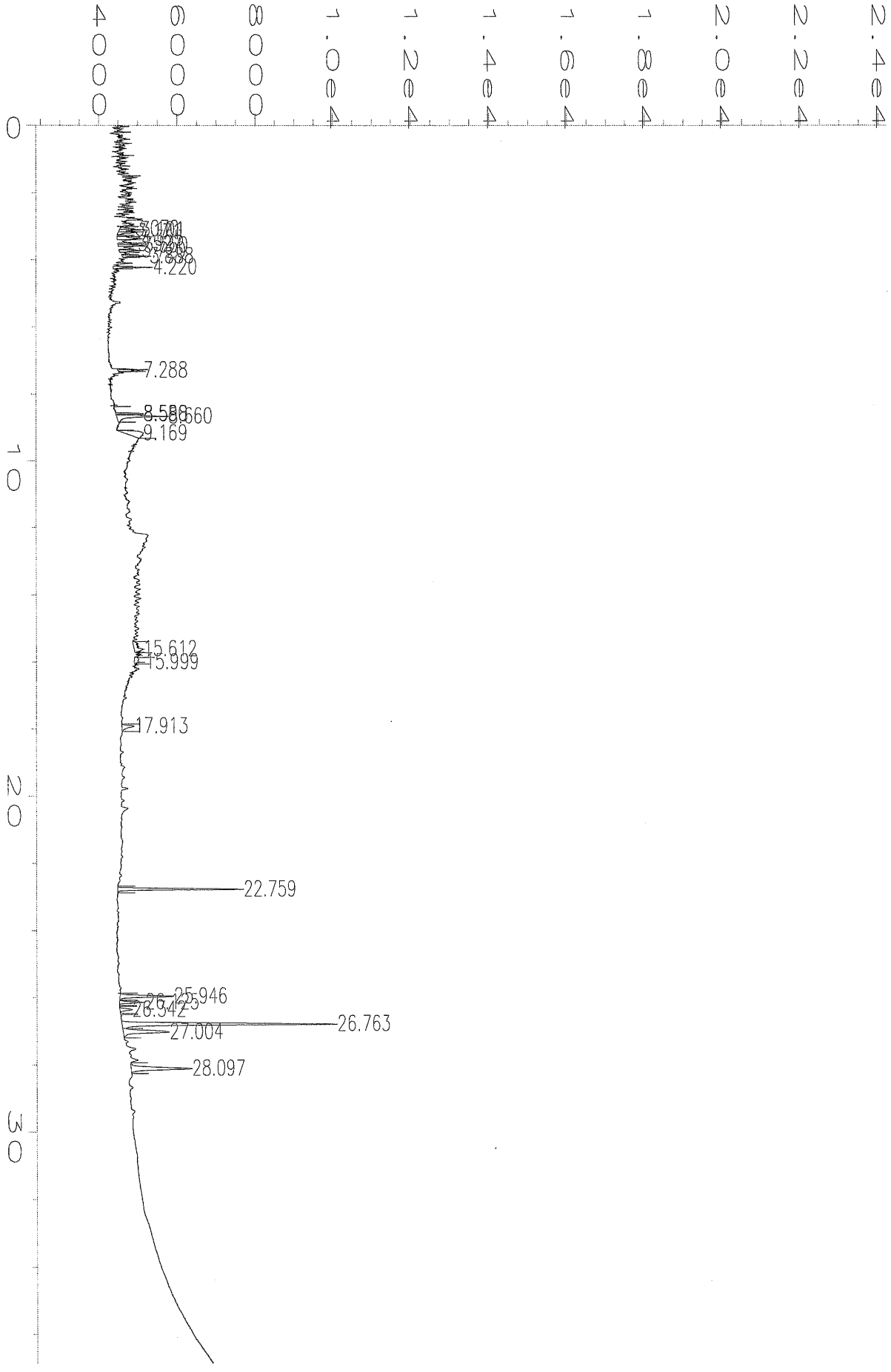
Data File Name : C:\HPCHEM\1\DATA\04015K\2510029A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-211
Run Time Bar Code:
Acquired on : 01 Apr 25 01:53 PM
Report Created on: 01 Apr 25 02:30 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04015K\2510029A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.070	843	381	BV	0.030	0.9859
2	3.101	1234	552	VV	0.033	1.4426
3	3.171	1320	503	VV	0.044	1.5440
4	3.355	2203	578	VV	0.050	2.5758
5	3.527	1052	511	VV	0.028	1.2302
6	3.560	1260	646	VV	0.034	1.4739
7	3.720	1237	583	PV	0.028	1.4466
8	3.888	1372	710	PV	0.027	1.6049
9	4.220	1922	1007	VV	0.029	2.2475
10	7.288	1306	646	VV	0.027	1.5277
11	8.580	1292	697	PV	0.031	1.5111
12	8.598	1328	709	VV	0.031	1.5535
13	8.660	4515	1319	VB	0.045	5.2797
14	9.169	4479	467	BB	0.133	5.2382
15	15.612	2480	220	PV	0.148	2.9000
16	15.999	1057	315	BV	0.046	1.2357
17	17.913	1606	305	BB	0.079	1.8778
18	22.759	9376	3213	BB	0.046	10.9650
19	25.946	5220	1363	BV	0.060	6.1044
20	26.125	1932	649	VB	0.047	2.2594
21	26.342	1214	304	BB	0.062	1.4193
22	26.763	22493	5530	BV	0.063	26.3035
23	27.004	6654	1170	VB	0.091	7.7817
24	28.097	8117	1554	VB	0.078	9.4916

Total area = 85513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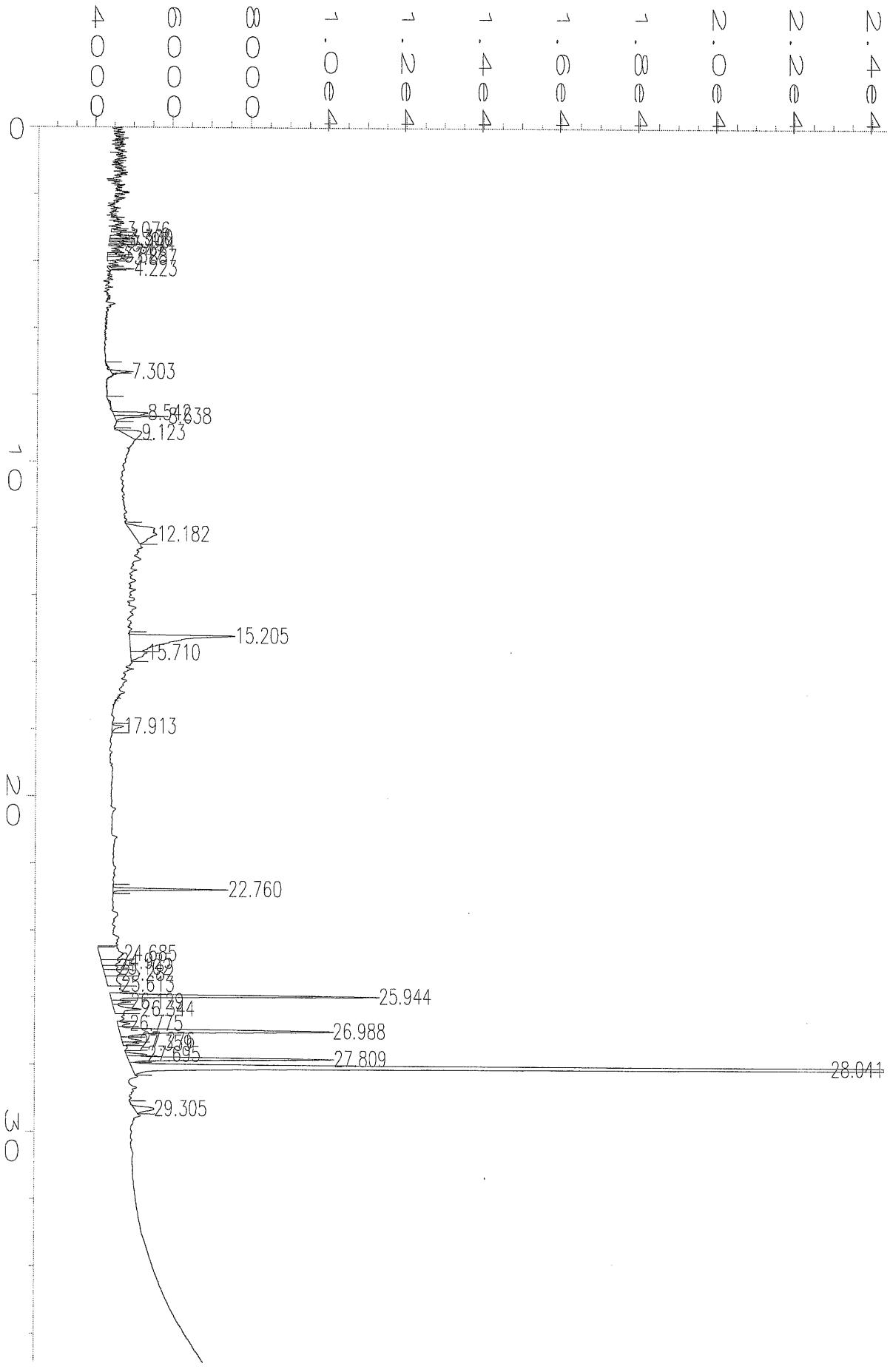
Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04015K\2510030A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-212
Run Time Bar Code:
Acquired on : 01 Apr 25 02:40 PM
Report Created on: 01 Apr 25 03:17 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04015K\2510030A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.076	1119	399	BV	0.039	0.2502
2	3.300	1856	510	VV	0.048	0.4148
3	3.336	1055	537	VV	0.030	0.2358
4	3.393	983	477	VV	0.029	0.2198
5	3.494	1168	593	VV	0.033	0.2610
6	3.747	832	336	PV	0.041	0.1859
7	3.825	1081	438	VV	0.035	0.2417
8	3.887	3249	693	VV	0.063	0.7263
9	4.223	1485	660	PV	0.035	0.3320
10	7.303	1472	594	BV	0.037	0.3291
11	8.542	4818	915	BV	0.078	1.0771
12	8.638	4272	1390	VB	0.042	0.9549
13	9.123	5249	501	BB	0.159	1.1733
14	12.182	14629	601	BB	0.296	3.2701
15	15.205	31633	2695	BV	0.150	7.0712
16	15.710	4519	428	VB	0.137	1.0101
17	17.913	1588	295	BB	0.078	0.3550
18	22.760	8579	2947	BB	0.046	1.9176
19	24.685	12106	639	BV	0.243	2.7060
20	24.925	4184	481	VV	0.117	0.9352
21	25.102	2718	397	VV	0.093	0.6075
22	25.282	4249	435	VV	0.130	0.9497
23	25.613	5434	362	VV	0.190	1.2148
24	25.944	28274	6907	VV	0.063	6.3202
25	26.129	2251	486	VV	0.066	0.5031
26	26.344	5501	715	VV	0.106	1.2297
27	26.775	1606	315	VV	0.076	0.3590
28	26.988	32138	5467	VV	0.092	7.1840
29	27.276	2850	504	VV	0.080	0.6370
30	27.359	1625	422	VV	0.058	0.3632
31	27.695	2182	537	PV	0.063	0.4878
32	27.809	23207	5271	VV	0.067	5.1876
33	28.041	225403	53961	VV	0.065	50.3857
34	29.305	4041	493	BV	0.133	0.9033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Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04015K\2510031A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-213
Run Time Bar Code:
Acquired on : 01 Apr 25 03:27 PM
Report Created on: 02 Apr 25 07:36 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04015K\2510031A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.100	722	522	PV	0.022	0.6332
2	2.159	831	427	VV	0.030	0.7287
3	2.237	529	547	VV	0.016	0.4643
4	2.291	1031	517	PV	0.034	0.9043
5	2.329	518	364	VV	0.024	0.4544
6	2.351	513	426	VV	0.018	0.4502
7	2.395	1274	436	VV	0.049	1.1171
8	2.438	456	529	VV	0.017	0.4003
9	2.536	2657	625	VV	0.054	2.3305
10	2.603	688	473	VV	0.024	0.6031
11	2.662	649	454	VV	0.024	0.5688
12	2.700	926	575	VV	0.027	0.8120
13	2.763	1172	471	VV	0.035	1.0274
14	2.854	1084	605	VV	0.028	0.9506
15	2.882	443	457	VV	0.016	0.3881
16	2.910	742	499	VV	0.021	0.6503
17	2.970	869	532	VV	0.025	0.7619
18	2.991	491	451	VV	0.018	0.4303
19	3.025	545	367	VV	0.025	0.4777
20	3.098	625	388	VV	0.027	0.5479
21	3.127	705	448	VV	0.025	0.6182
22	3.169	1139	582	VV	0.028	0.9987
23	3.260	1255	542	VV	0.032	1.1004
24	3.351	2447	495	VV	0.063	2.1460
25	3.504	576	478	PV	0.023	0.5050
26	3.543	686	459	VV	0.024	0.6013
27	3.571	574	473	VV	0.020	0.5034
28	3.607	952	438	VV	0.032	0.8347
29	3.750	794	375	VV	0.028	0.6961
30	3.793	860	401	VV	0.030	0.7541
31	3.885	1020	457	VV	0.030	0.8947
32	3.948	452	364	VV	0.021	0.3967
33	4.002	565	340	VV	0.027	0.4954
34	4.115	741	310	BV	0.035	0.6495
35	4.222	2268	1153	VV	0.030	1.9893
36	5.257	1456	362	PV	0.051	1.2765

37	7.298	3662	1820	VV	0.029	3.2118
38	7.344	800	653	VV	0.020	0.7019
39	7.363	1680	810	VB	0.028	1.4732
40	8.520	8206	1101	BV	0.102	7.1965
41	8.625	5037	1553	VB	0.043	4.4174
42	9.130	6310	535	BB	0.165	5.5333
43	12.197	2204	223	PB	0.129	1.9327
44	15.517	5174	472	PV	0.150	4.5375
45	17.900	2384	441	BB	0.078	2.0906
46	22.759	4231	1453	BB	0.046	3.7108
47	25.949	9269	2342	VV	0.061	8.1286
48	26.343	1151	294	BV	0.062	1.0095
49	27.024	7572	1740	BV	0.063	6.6405
50	27.364	2756	373	VV	0.100	2.4168
51	27.706	954	337	PV	0.049	0.8364
52	27.843	5088	1047	VV	0.075	4.4623
53	28.061	14298	2397	VV	0.086	12.5390

Total area = 114030

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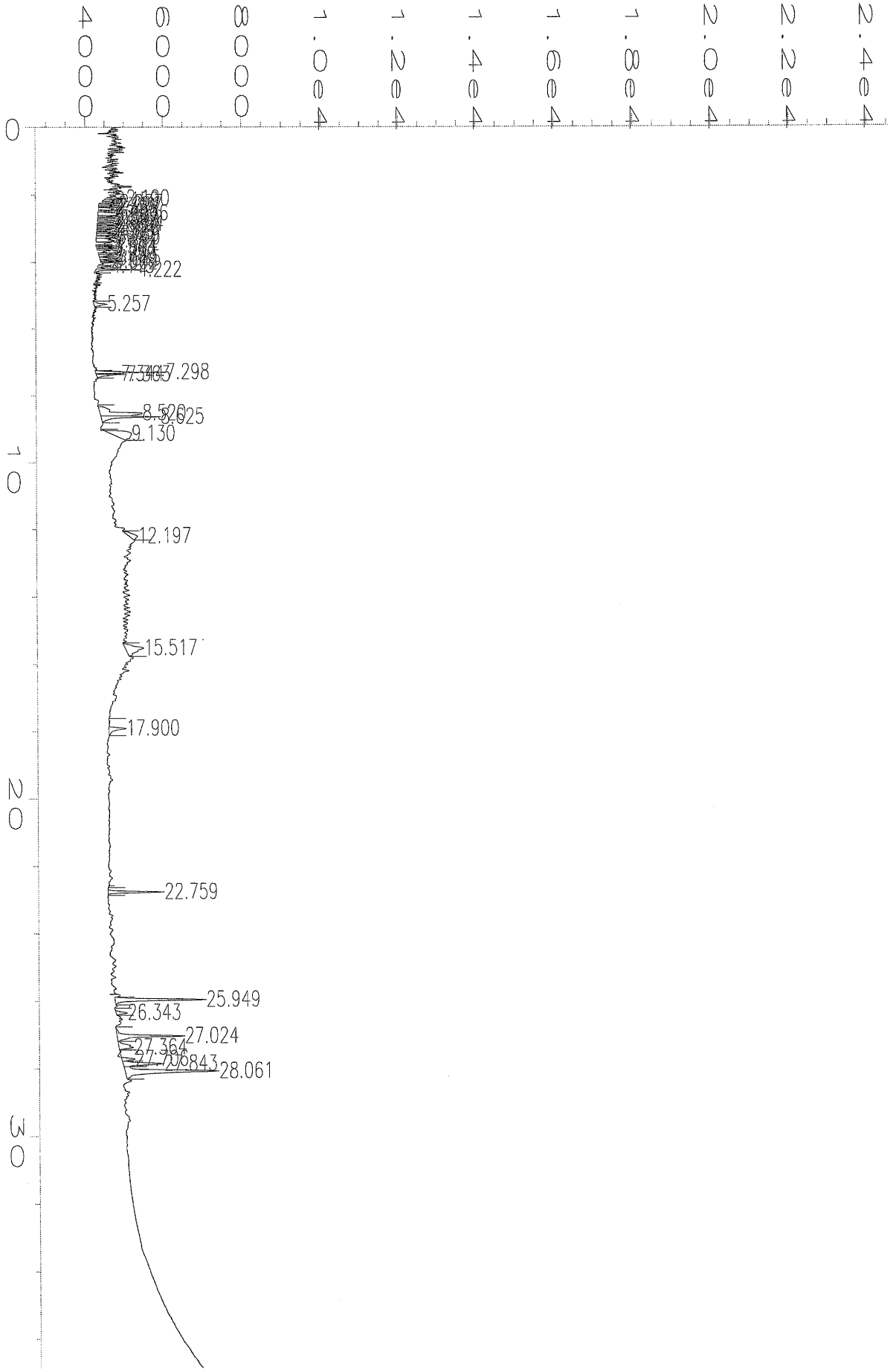
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Area Percent Report

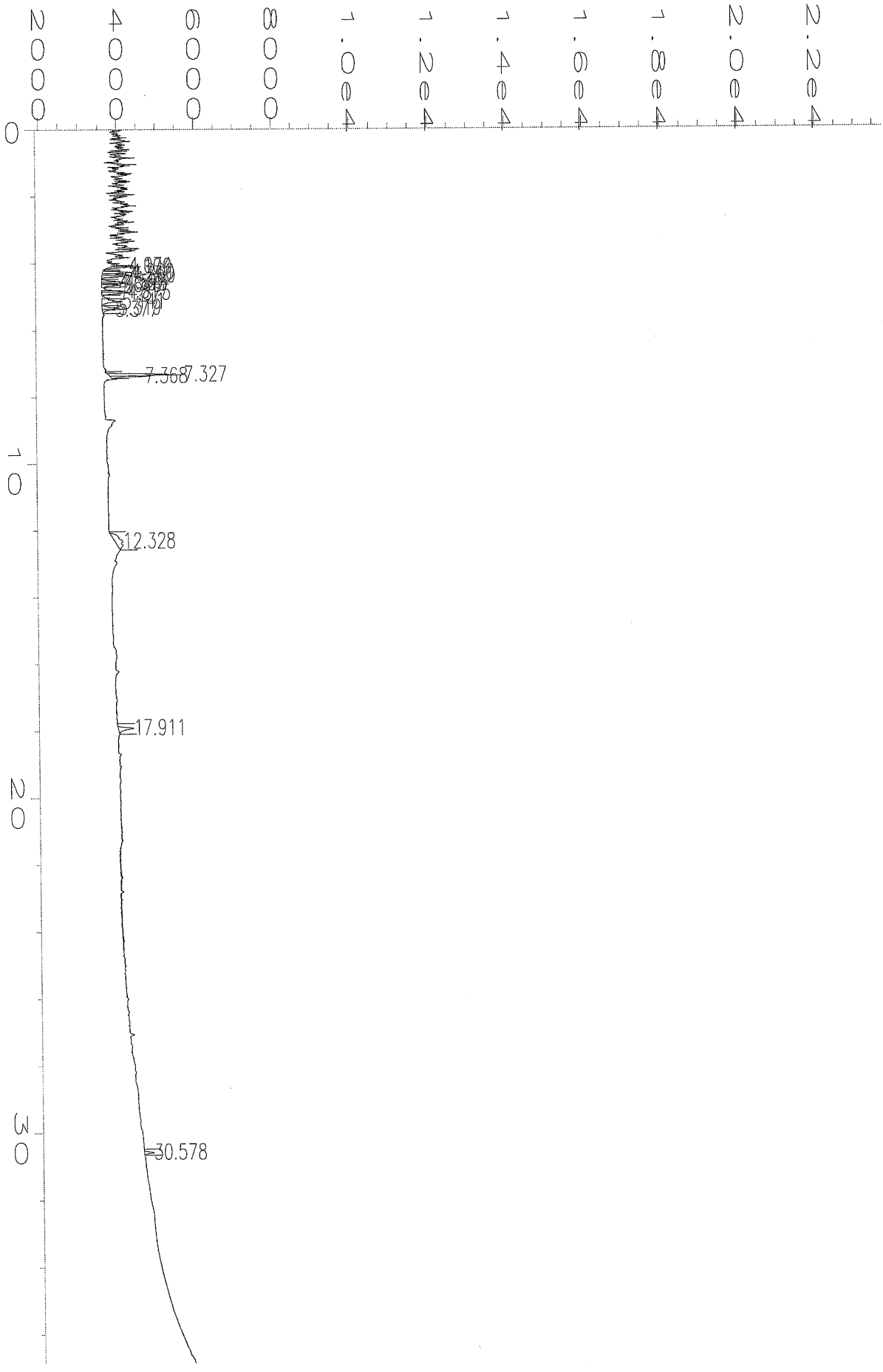
Data File Name : C:\HPCHEM\1\DATA\03315K\2510032A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : T-214
Run Time Bar Code:
Acquired on : 31 Mar 25 01:08 PM
Report Created on: 09 Apr 25 10:15 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03315K\2510032A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.074	631	408	VV	0.023	1.8689
2	4.100	1228	507	VV	0.034	3.6396
3	4.260	1987	746	VV	0.037	5.8881
4	4.330	1532	691	VV	0.033	4.5406
5	4.360	2014	790	VV	0.034	5.9691
6	4.533	944	474	PV	0.033	2.7985
7	4.574	1264	634	VV	0.033	3.7459
8	4.593	703	766	VV	0.015	2.0847
9	4.646	1396	466	VV	0.040	4.1388
10	4.817	1085	620	VV	0.029	3.2159
11	4.875	2247	716	VV	0.048	6.6609
12	5.141	2418	527	VV	0.060	7.1664
13	5.319	1353	452	PV	0.041	4.0102
14	5.377	838	336	VB	0.042	2.4837
15	7.327	5587	1937	BV	0.038	16.5582
16	7.368	1852	1099	VV	0.026	5.4893
17	12.328	3791	200	BB	0.284	11.2373
18	17.911	2010	393	BB	0.075	5.9575
19	30.578	859	255	BB	0.053	2.5464

Total area = 33740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Area Percent Report

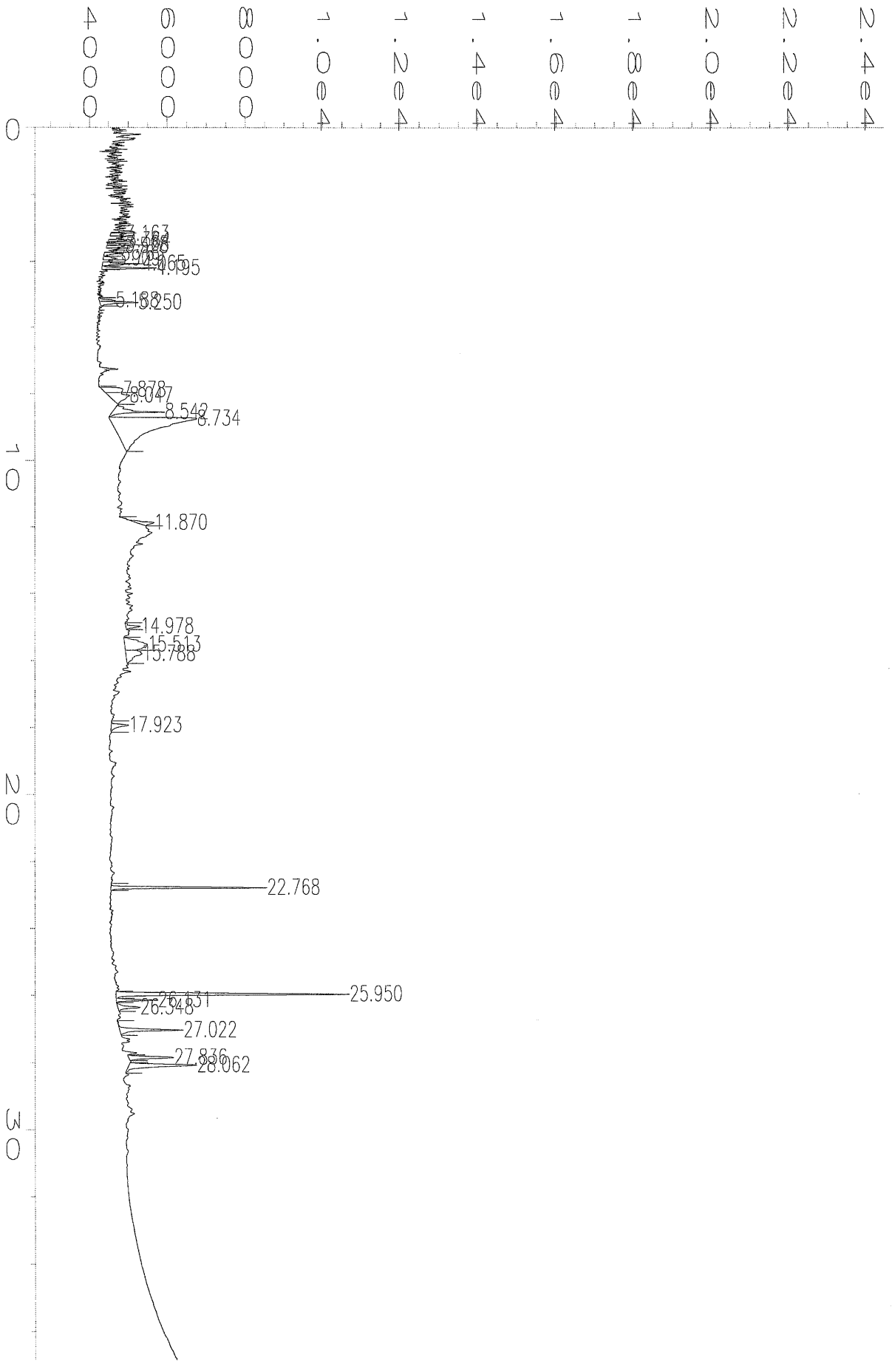
Data File Name : C:\HPCHEM\1\DATA\04015K\2510033A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-215
Run Time Bar Code:
Acquired on : 01 Apr 25 04:15 PM
Report Created on: 01 Apr 25 04:52 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04015K\2510033A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.163	1464	381	VV	0.054	0.8637
2	3.364	1025	453	VV	0.031	0.6046
3	3.468	884	458	VV	0.028	0.5213
4	3.528	1457	454	VV	0.041	0.8595
5	3.763	1383	476	VV	0.044	0.8161
6	3.909	1283	355	PV	0.048	0.7569
7	4.065	2624	1040	VV	0.035	1.5479
8	4.195	3640	1394	PV	0.036	2.1473
9	5.188	1258	409	PV	0.041	0.7422
10	5.250	3323	976	VV	0.051	1.9602
11	7.878	4321	500	BV	0.129	2.5491
12	8.047	6219	529	VB	0.155	3.6687
13	8.542	6362	1341	BV	0.063	3.7528
14	8.734	51750	2227	PB	0.296	30.5268
15	11.870	2451	453	BB	0.078	1.4460
16	14.978	1615	380	BV	0.064	0.9527
17	15.513	8907	591	BV	0.192	5.2542
18	15.788	5394	428	VV	0.160	3.1817
19	17.923	2345	431	BB	0.081	1.3833
20	22.768	11455	4000	BB	0.045	6.7574
21	25.950	22909	5993	VV	0.059	13.5140
22	26.131	3203	1068	VV	0.047	1.8895
23	26.348	2759	577	PB	0.072	1.6276
24	27.022	6859	1639	BB	0.062	4.0458
25	27.836	5144	1164	VB	0.069	3.0347
26	28.062	9486	1739	BV	0.080	5.5959

Total area = 169522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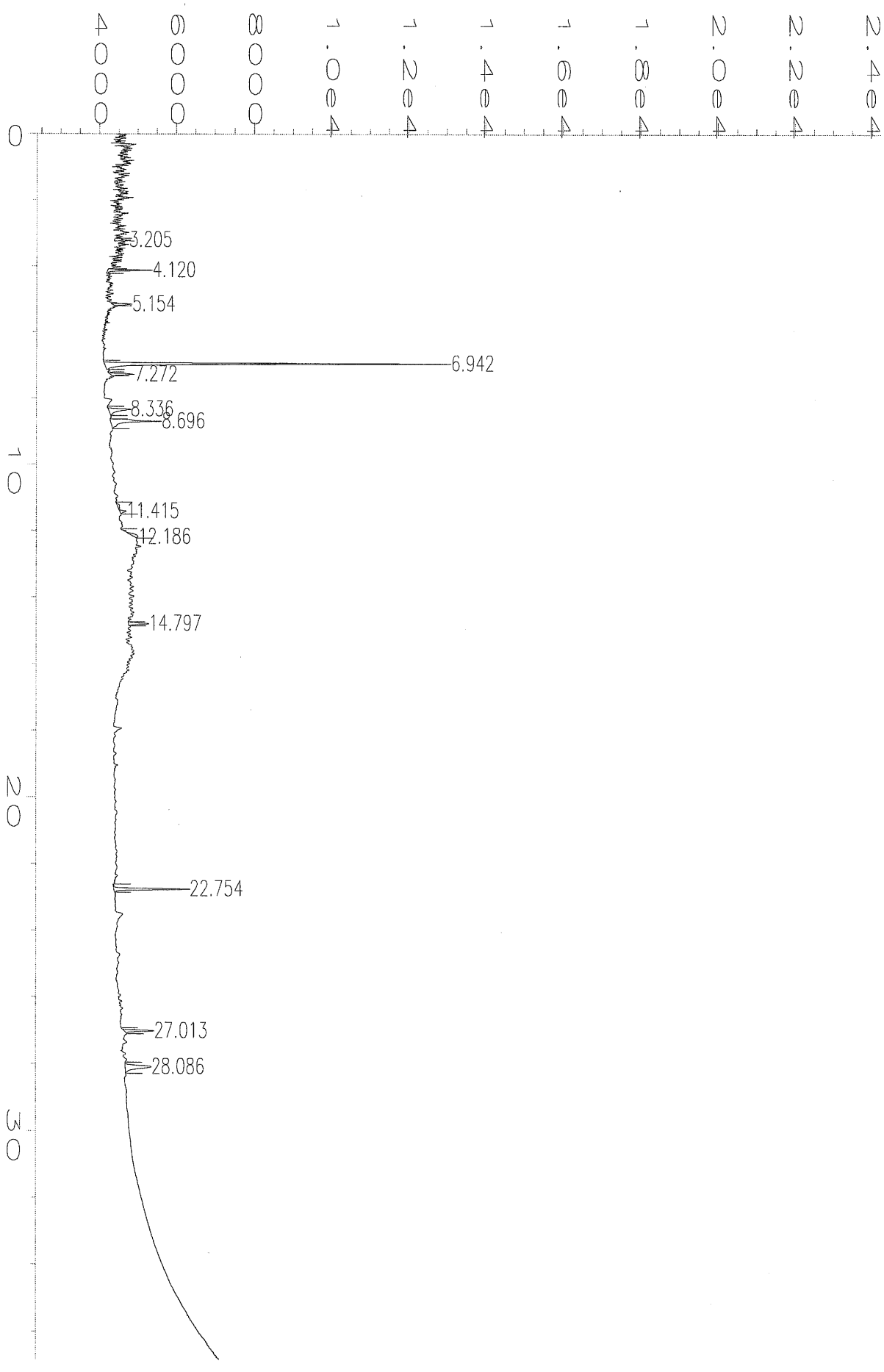
Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04015K\2510034A.D
Operator : UG
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-216
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 01 Apr 25 07:35 PM
Instrument Method: KTO3DHC.MTH
Report Created on: 01 Apr 25 08:11 PM
Analysis Method : KTO3DHC.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\HPCHEM\1\DATA\04015K\2510034A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.205	880	412	PV	0.043	1.5641
2	4.120	2749	1161	VV	0.037	4.8892
3	5.154	1189	518	PV	0.035	2.1139
4	6.942	24269	9036	BV	0.040	43.1559
5	7.272	1808	634	PV	0.043	3.2152
6	8.336	2881	577	BB	0.068	5.1222
7	8.696	5878	1334	BB	0.058	10.4517
8	11.415	973	169	BB	0.080	1.7299
9	12.186	1080	93	BB	0.145	1.9208
10	14.797	1689	523	PV	0.049	3.0030
11	22.754	5944	1966	BB	0.046	10.5693
12	27.013	2381	789	BB	0.047	4.2335
13	28.086	4516	675	BB	0.095	8.0312

Total area = 56236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27.013
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C:\HPCHEM\1\DATA\25K\251003A.D

Area Percent Report

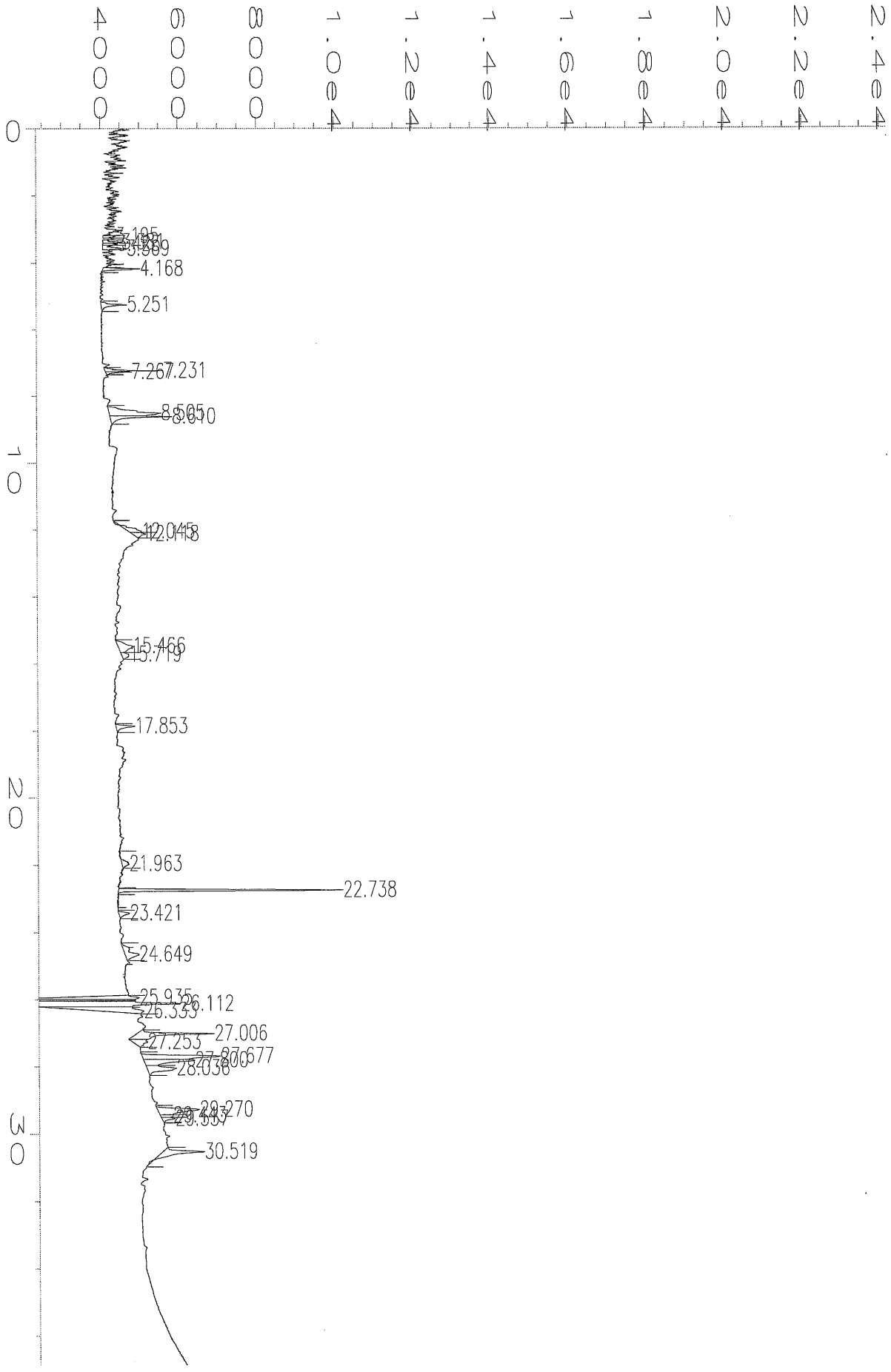
Data File Name : C:\HPCHEM\1\DATA\04035K\2510035A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : T-217
Run Time Bar Code:
Acquired on : 03 Apr 25 12:54 PM
Report Created on: 03 Apr 25 01:31 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04035K\2510035A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.195	1030	322	PV	0.049	0.5180
2	3.381	1369	486	VV	0.036	0.6888
3	3.425	1129	404	VV	0.044	0.5680
4	3.569	2248	584	VV	0.050	1.1306
5	4.168	2936	951	PV	0.044	1.4766
6	5.251	2866	667	BB	0.060	1.4419
7	7.231	2825	1545	PV	0.029	1.4212
8	7.267	1310	649	VV	0.034	0.6587
9	8.505	11075	1330	BV	0.105	5.5708
10	8.610	5729	1599	VB	0.047	2.8817
11	12.045	2701	330	BV	0.136	1.3587
12	12.118	2013	352	VB	0.076	1.0128
13	15.466	4679	376	BV	0.154	2.3535
14	15.719	1517	188	VB	0.099	0.7631
15	17.853	2430	480	BB	0.064	1.2224
16	21.963	1523	175	BB	0.114	0.7661
17	22.738	16295	5781	BB	0.044	8.1968
18	23.421	1629	272	BB	0.087	0.8193
19	24.649	4501	352	BV	0.156	2.2639
20	25.935	13196	2377	BV	0.078	6.6377
21	26.112	39538	4868	PV	0.107	19.8879
22	26.333	16273	1072	VB	0.185	8.1854
23	27.006	11020	1991	BV	0.077	5.5431
24	27.253	3615	393	PB	0.118	1.8183
25	27.677	11922	2013	BV	0.085	5.9970
26	27.800	8896	1310	VV	0.090	4.4750
27	28.036	6378	756	VB	0.109	3.2080
28	29.270	8289	1077	BV	0.105	4.1695
29	29.443	1502	325	VV	0.077	0.7556
30	29.537	1453	337	VB	0.063	0.7308
31	30.519	6916	1062	BB	0.090	3.4787

Total area = 198804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Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04015K\2510036A.D
Operator : UG
Instrument : ANALYZER1
Sample Name : T-218
Run Time Bar Code:
Acquired on : 01 Apr 25 08:23 PM
Report Created on: 01 Apr 25 09:00 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04015K\2510036A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.153	869	319	PV	0.045	0.0069
2	3.219	1213	461	VV	0.037	0.0097
3	3.289	908	471	VV	0.028	0.0072
4	3.471	2280	610	PV	0.057	0.0182
5	3.537	1018	501	VV	0.028	0.0081
6	3.623	1847	480	VV	0.061	0.0147
7	3.971	28775	14794	VV	0.030	0.2292
8	4.098	83871	35478	VV	0.034	0.6680
9	4.452	324084	165188	PV	0.029	2.5810
10	4.615	3225	920	VV	0.053	0.0257
11	4.724	723411	345909	PV	0.032	5.7613
12	4.941	42590	22715	VV	0.030	0.3392
13	5.003	185831	90857	VV	0.032	1.4800
14	5.097	2708783	1282624	VV	0.033	21.5728
15	5.835	178778	66160	BV	0.038	1.4238
16	6.154	961	295	VB	0.054	0.0077
17	6.304	1477	533	BV	0.045	0.0118
18	6.425	12364	1230	PV	0.127	0.0985
19	6.908	2009852	835636	PV	0.038	16.0065
20	7.134	2660	624	VV	0.054	0.0212
21	7.262	3527	923	VV	0.050	0.0281
22	7.880	178311	60046	BV	0.044	1.4201
23	8.261	2599887	919583	VV	0.045	20.7055
24	8.546	14495	1784	VV	0.103	0.1154
25	8.678	4801	1684	VV	0.040	0.0382
26	8.781	57521	16841	VV	0.050	0.4581
27	9.066	219019	77805	VV	0.042	1.7443
28	9.335	7419	1371	VV	0.076	0.0591
29	9.493	15144	2485	VV	0.082	0.1206
30	9.697	11340	1723	VB	0.088	0.0903
31	10.423	1756	254	BB	0.090	0.0140
32	10.660	17366	5357	BV	0.048	0.1383
33	11.375	1000039	367314	VV	0.043	7.9643
34	11.769	1769	277	VV	0.084	0.0141
35	11.976	59514	13843	VV	0.060	0.4740

36	12.184	2447	632	VV	0.056	0.0195
37	12.286	65982	23772	VV	0.043	0.5255
38	12.439	201569	77887	VV	0.040	1.6053
39	12.798	11054	1463	VV	0.100	0.0880
40	13.095	2124	475	VV	0.063	0.0169
41	13.260	9212	2828	PV	0.050	0.0734
42	13.773	184016	69096	PV	0.042	1.4655
43	14.619	2507	417	VV	0.082	0.0200
44	14.794	772143	262409	VV	0.046	6.1494
45	14.893-	33036	11178	VV	0.045	0.2631
46	14.963	5006	1744	VV	0.048	0.0399
47	15.070	38984	11754	VV	0.049	0.3105
48	15.567	19543	5671	VV	0.052	0.1556
49	15.778	4158	760	VV	0.074	0.0331
50	16.175	13699	4223	VV	0.049	0.1091
51	16.876	1159	330	BV	0.051	0.0092
52	16.985	6528	2282	VV	0.044	0.0520
53	17.061	8768	2783	VV	0.048	0.0698
54	17.194	17643	4881	VV	0.056	0.1405
55	17.366	3725	1129	VB	0.050	0.0297
56	17.901	3358	827	BV	0.060	0.0267
57	18.012	10972	3466	VV	0.049	0.0874
58	18.150	19372	5903	VV	0.051	0.1543
59	18.400	7535	2693	PV	0.043	0.0600
60	18.463	15525	4813	VV	0.049	0.1236
61	18.577	2987	927	VV	0.050	0.0238
62	18.677	11138	3272	VV	0.052	0.0887
63	19.040	194646	69930	VV	0.043	1.5502
64	19.099	49050	18128	VV	0.045	0.3906
65	19.757	11724	3667	BB	0.050	0.0934
66	20.113	4446	975	BV	0.069	0.0354
67	20.382	1065	392	BV	0.043	0.0085
68	20.470	5469	1100	VV	0.080	0.0436
69	20.689	1271	385	PV	0.050	0.0101
70	20.950	11939	3498	VV	0.053	0.0951
71	21.106	22749	7102	PV	0.050	0.1812
72	21.777	1588	428	PV	0.056	0.0126
73	21.882	5809	1758	VV	0.051	0.0463
74	22.350	1901	543	BV	0.052	0.0151
75	22.519	4126	603	VV	0.093	0.0329
76	22.756	9154	2664	PV	0.052	0.0729
77	23.200	2280	389	BV	0.082	0.0182
78	23.364	45435	8340	VV	0.078	0.3618
79	23.703	1821	380	VV	0.080	0.0145
80	23.848	5923	957	VB	0.086	0.0472
81	24.416	4040	1128	BV	0.053	0.0322
82	24.485	3435	835	VV	0.062	0.0274
83	24.580	2019	513	VV	0.057	0.0161
84	24.699	2569	1190	VB	0.036	0.0205
85	25.091	1218	348	VV	0.056	0.0097
86	25.262	4847	795	VV	0.087	0.0386

87	25.805	3295	530	VV	0.088	0.0262
88	25.939	6258	1257	VV	0.074	0.0498
89	26.219	5543	742	VV	0.100	0.0441
90	26.331	2013	448	VV	0.067	0.0160
91	26.438	1555	421	VV	0.056	0.0124
92	26.523	3896	906	VV	0.064	0.0310
93	26.604	2724	477	VV	0.095	0.0217
94	27.019	102634	32342	VV	0.050	0.8174
95	27.353	30917	7777	VV	0.060	0.2462
96	27.459	1862	351	VV	0.088	0.0148
97	27.810	1789	401	VV	0.068	0.0143
98	28.220	3146	455	VV	0.096	0.0251
99	28.336	7122	1596	VB	0.067	0.0567
100	28.777	4309	791	BV	0.078	0.0343

Total area = 1.25565E+007

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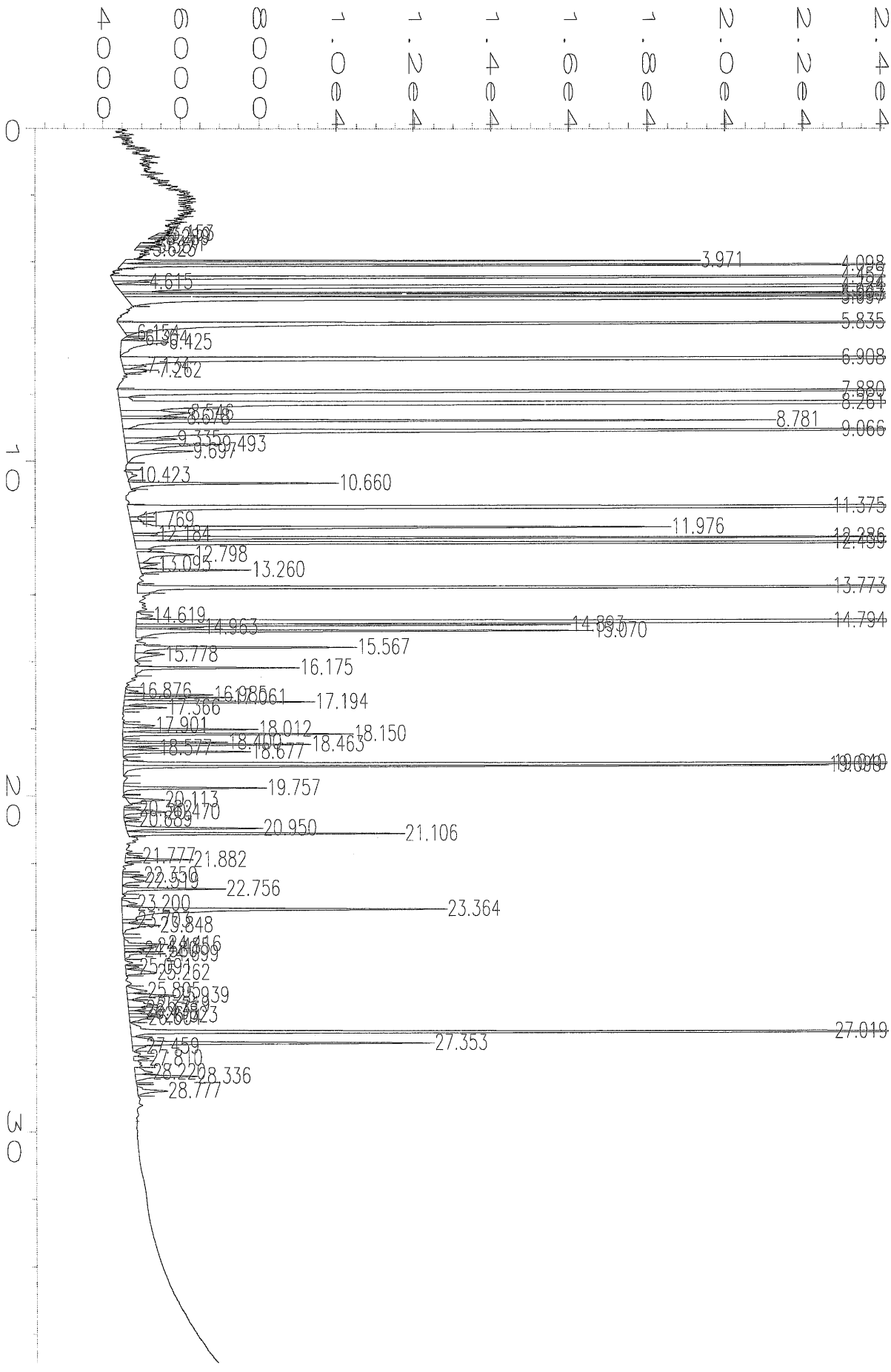
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Area Percent Report

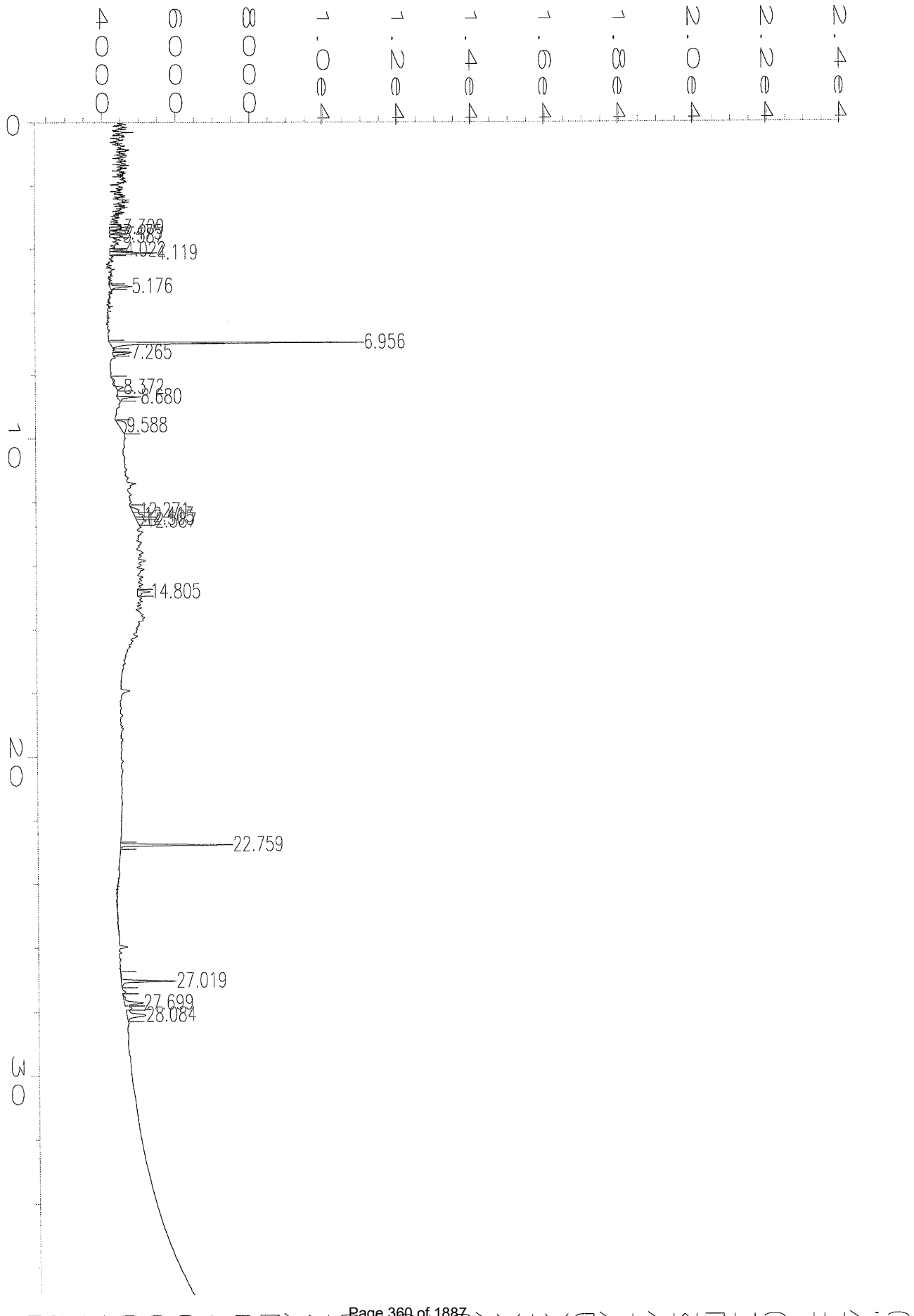
Data File Name : C:\HPCHEM\1\DATA\04015K\2510037A.D
Operator : UG
Instrument : ANALYZER1
Sample Name : T-301
Run Time Bar Code:
Acquired on : 01 Apr 25 09:09 PM
Report Created on: 01 Apr 25 09:46 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04015K\2510037A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.309	1409	415	VV	0.057	2.1486
2	3.475	824	321	VV	0.038	1.2561
3	3.587	1312	356	VV	0.051	2.0004
4	4.022	1083	442	VV	0.033	1.6505
5	4.119	3533	1242	VV	0.042	5.3863
6	5.176	2149	615	PV	0.048	3.2761
7	6.956	18669	6881	BV	0.040	28.4634
8	7.265	1864	535	VV	0.065	2.8419
9	8.372	808	209	BB	0.059	1.2319
10	8.680	1714	644	BB	0.036	2.6135
11	9.588	3588	209	BV	0.252	5.4700
12	12.271	1437	197	BV	0.103	2.1903
13	12.413	1564	253	VV	0.089	2.3846
14	12.505	977	223	VV	0.073	1.4903
15	12.587	1526	246	VV	0.084	2.3272
16	14.805	1703	356	PV	0.069	2.5969
17	22.759	8901	3057	BB	0.046	13.5709
18	27.019	5287	1489	BB	0.054	8.0601
19	27.699	3085	521	PV	0.085	4.7041
20	28.084	4156	514	VV	0.122	6.3370

Total area = 65589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Area Percent Report

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Data File Name : C:\HPCHEM\1\DATA\04025K\2510038A.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-302
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 02 Apr 25 11:25 AM
Instrument Method: KTO3DHC.MTH
Report Created on: 02 Apr 25 12:02 PM
Analysis Method : KTO3DHC.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\HPCHEM\1\DATA\04025K\2510038A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.356	1329	501	VV	0.037	4.9926
2	3.415	1834	522	VV	0.059	6.8874
3	3.509	1720	497	VV	0.048	6.4581
4	4.096	1315	543	VV	0.034	4.9389
5	4.222	5807	2507	VV	0.036	21.8051
6	5.255	3303	923	BB	0.050	12.4027
7	8.595	2387	595	BB	0.053	8.9627
8	12.188	3703	255	BB	0.173	13.9048
9	15.614	2167	213	BB	0.133	8.1391
10	22.762	2039	702	BB	0.044	7.6560
11	27.017	1026	331	BB	0.050	3.8526

Total area = 26629

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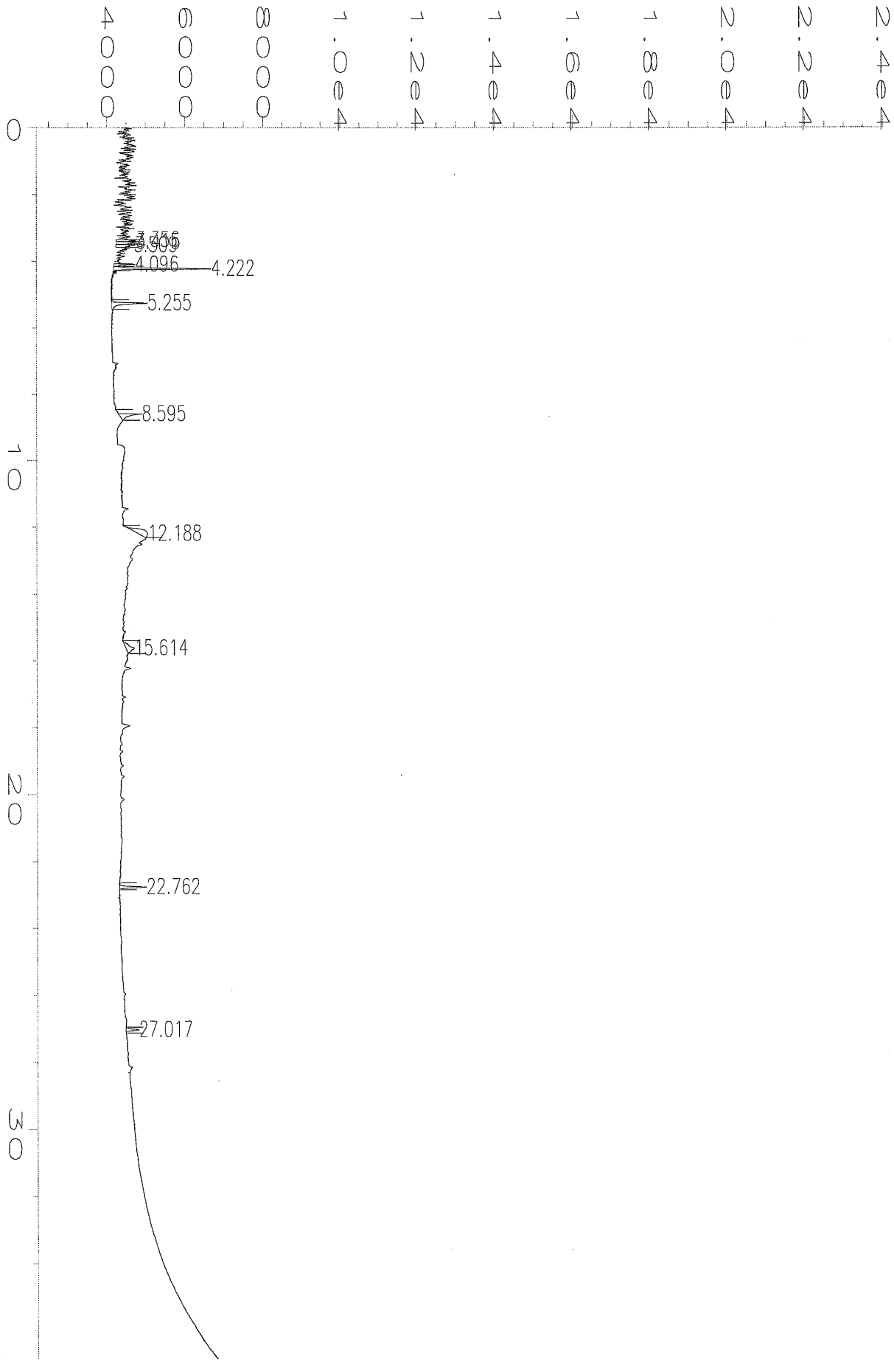
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22.762
27.017
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Area Percent Report

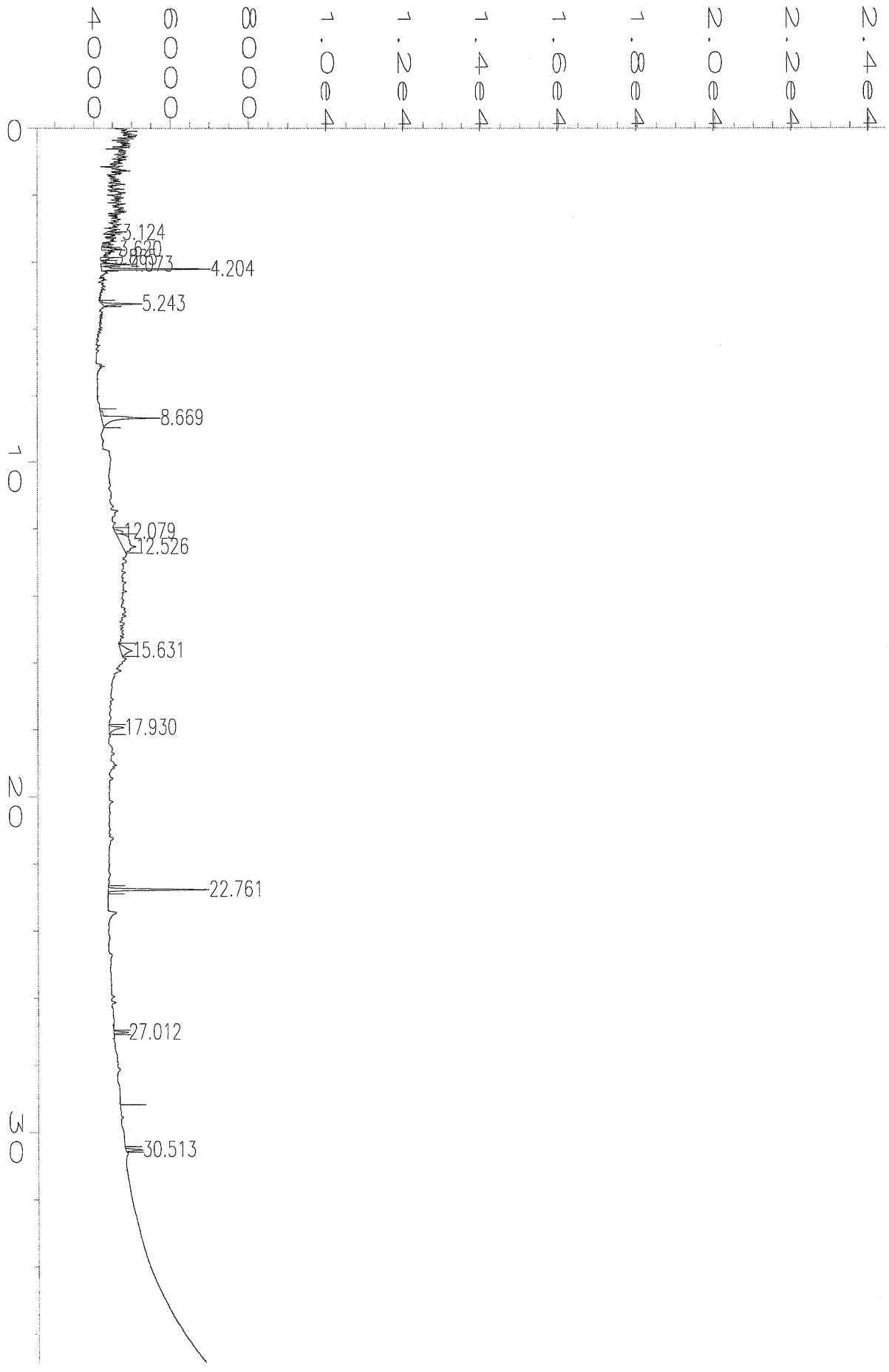
Data File Name : C:\HPCHEM\1\DATA\04025K\2510039A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-303
Run Time Bar Code:
Acquired on : 02 Apr 25 12:14 PM
Report Created on: 02 Apr 25 12:51 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04025K\2510039A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.124	952	426	VV	0.031	2.0606
2	3.620	1397	456	VV	0.040	3.0221
3	3.865	1054	365	VV	0.041	2.2809
4	4.073	1865	779	VV	0.034	4.0344
5	4.204	6542	2833	VV	0.036	14.1540
6	5.243	2841	1052	PV	0.038	6.1473
7	8.669	7830	1529	BB	0.065	16.9411
8	12.079	1205	213	BV	0.074	2.6065
9	12.526	7291	343	VB	0.257	15.7748
10	15.631	3020	296	BV	0.126	6.5348
11	17.930	2177	388	BB	0.077	4.7100
12	22.761	7555	2606	BB	0.045	16.3466
13	27.012	1157	387	BB	0.047	2.5027
14	30.513	1333	440	BV	0.049	2.8843

Total area = 46219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C:\HPCHEM\1\DATA\040225K\25100390.D

Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04035K\2510040A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : T-304
Run Time Bar Code:
Acquired on : 03 Apr 25 01:49 PM
Report Created on: 03 Apr 25 02:26 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04035K\2510040A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.077	1151	480	VV	0.033	0.2723
2	3.258	2472	659	VV	0.049	0.5847
3	3.366	885	496	PV	0.029	0.2093
4	3.435	3030	929	VV	0.053	0.7167
5	3.625	2462	672	BV	0.057	0.5822
6	3.781	1034	426	VV	0.039	0.2446
7	4.006	8281	7230	VV	0.018	1.9587
8	4.132	12006	6938	VV	0.026	2.8399
9	4.205	4958	1455	VV	0.051	1.1727
10	4.663	1999	650	BV	0.045	0.4729
11	5.175	29788	9776	PV	0.045	7.0458
12	5.276	20238	5456	VV	0.053	4.7869
13	7.070	5607	2154	BV	0.039	1.3262
14	7.141	851	421	VV	0.034	0.2014
15	7.247	1181	759	PV	0.024	0.2793
16	8.154	3606	407	BV	0.109	0.8530
17	8.393	11771	2385	VV	0.065	2.7842
18	8.730	4565	1345	VB	0.045	1.0797
19	11.429	6336	1770	BB	0.053	1.4986
20	12.351	7404	894	BV	0.107	1.7513
21	12.497	4533	784	VV	0.080	1.0722
22	13.308	1706	319	BV	0.075	0.4034
23	13.795	1194	349	PV	0.054	0.2824
24	14.798	1740	548	BV	0.049	0.4116
25	15.088	834	292	BV	0.044	0.1972
26	17.891	2691	446	BV	0.084	0.6364
27	18.140	2297	692	VB	0.051	0.5434
28	18.393	1614	496	BV	0.049	0.3818
29	18.451	1160	376	VV	0.045	0.2745
30	18.666	2968	847	BB	0.052	0.7020
31	19.019	11818	4052	VV	0.044	2.7953
32	19.086	1792	548	VB	0.054	0.4238
33	19.406	1524	389	BB	0.057	0.3605
34	19.745	1288	382	BB	0.053	0.3047
35	20.101	3621	909	BB	0.057	0.8564

36	20.938	2200	581	BV	0.057	0.5204
37	21.096	2768	883	PV	0.050	0.6548
38	21.755	2374	604	BV	0.058	0.5614
39	21.868	1358	409	VV	0.047	0.3212
40	22.330	1804	510	BV	0.054	0.4267
41	22.506	1898	504	VV	0.057	0.4489
42	22.748	20400	6829	PV	0.046	4.8252
43	22.934	1868	519	VB	0.056	0.4418
44	23.184	1456	417	VV	0.053	0.3444
45	23.346	104652	24997	VV	0.062	24.7536
46	23.835	10235	1710	VV	0.083	2.4208
47	23.912	1387	463	VV	0.044	0.3281
48	24.474	3988	826	VV	0.070	0.9433
49	24.569	2260	608	VV	0.055	0.5345
50	24.657	3475	823	VV	0.060	0.8221
51	24.736	6604	1081	VV	0.084	1.5620
52	25.079	1277	371	PV	0.053	0.3020
53	25.252	6577	1369	PV	0.075	1.5558
54	25.594	2188	564	BV	0.054	0.5176
55	25.802	3973	701	PV	0.073	0.9398
56	25.914	1924	412	VV	0.061	0.4550
57	26.005	3086	544	VV	0.079	0.7300
58	26.130	2295	459	VV	0.069	0.5430
59	26.316	3266	524	VV	0.089	0.7725
60	26.517	4594	1048	VV	0.063	1.0866
61	26.597	2026	492	VB	0.061	0.4793
62	26.871	2341	429	BV	0.072	0.5536
63	27.010	23493	6154	VV	0.057	5.5568
64	27.347	14497	2933	VV	0.072	3.4289
65	27.816	2687	533	PV	0.072	0.6355
66	27.928	1040	304	VV	0.049	0.2461
67	28.329	3789	953	BV	0.058	0.8962
68	28.764	2844	561	VV	0.073	0.6727
69	30.512	1748	559	BB	0.050	0.4134

Total area = 422777

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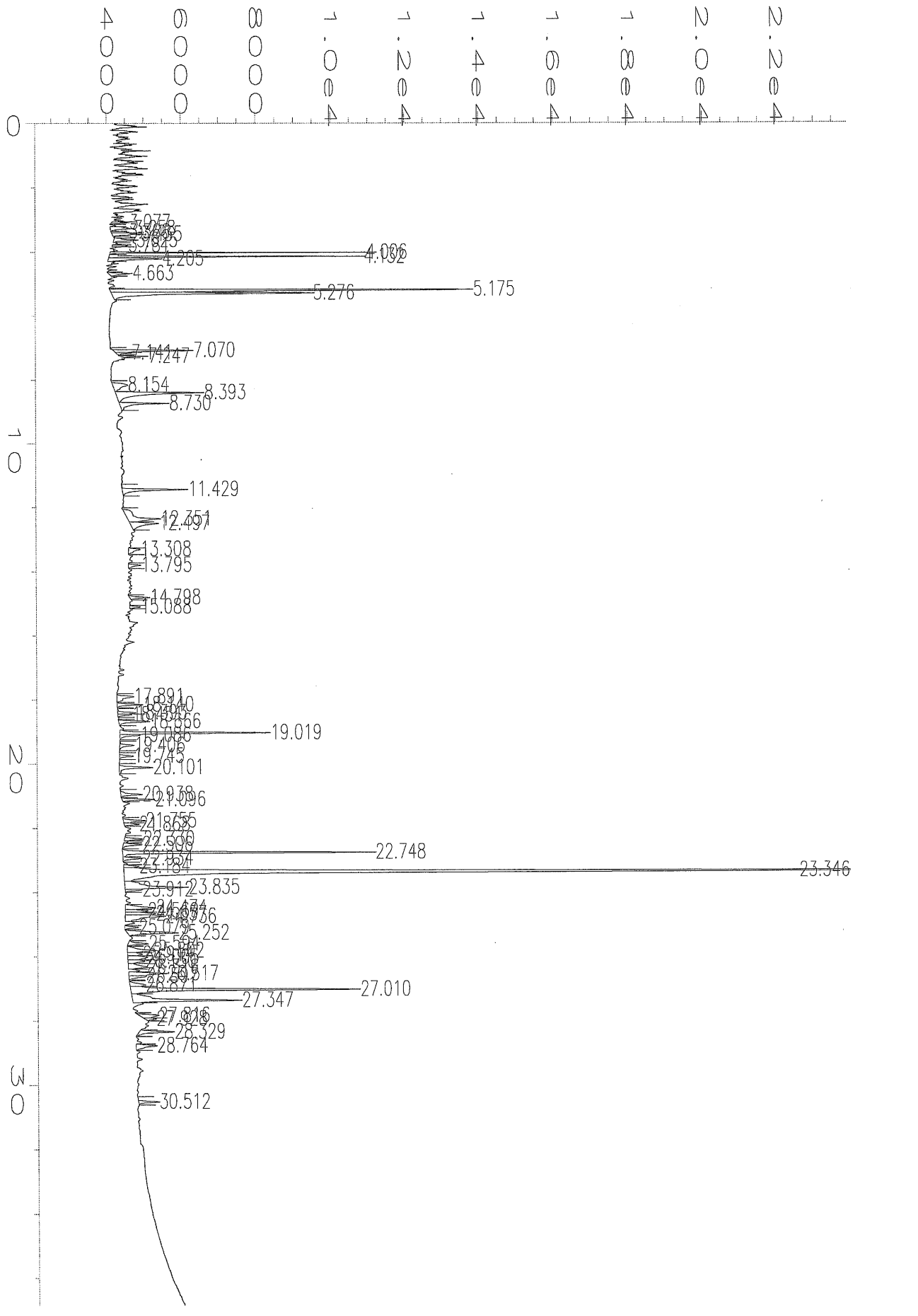
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Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04035K\2510041A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-305
Run Time Bar Code:
Acquired on : 03 Apr 25 02:52 PM
Report Created on: 03 Apr 25 03:29 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04035K\2510041A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.471	809	390	VV	0.036	0.0248
2	4.029	20155	12831	PV	0.025	0.6178
3	4.165	20204	9588	VV	0.031	0.6193
4	4.605	28189	9682	PV	0.042	0.8641
5	4.889	31978	10036	PV	0.047	0.9802
6	5.137	80082	31177	PV	0.037	2.4548
7	5.236	688713	254809	VV	0.039	21.1118
8	6.027	22381	3379	BV	0.091	0.6861
9	6.551	2289	408	VB	0.077	0.0702
10	7.012	322658	107586	BV	0.045	9.8908
11	7.264	4419	1164	VV	0.055	0.1355
12	7.361	1066	330	VB	0.042	0.0327
13	7.982	31889	6636	BV	0.066	0.9775
14	8.319	247501	76656	VV	0.049	7.5869
15	8.851	7463	2027	PV	0.057	0.2288
16	8.980	1582	374	PB	0.063	0.0485
17	9.188	25724	5316	BV	0.070	0.7886
18	9.397	5583	1110	VV	0.071	0.1711
19	9.760	3003	688	VB	0.064	0.0921
20	10.710	4782	1146	BB	0.060	0.1466
21	11.384	187700	65476	BV	0.044	5.7538
22	11.735	29100	2304	VV	0.157	0.8920
23	12.006	16732	3686	VV	0.065	0.5129
24	12.120	7621	1101	VV	0.091	0.2336
25	12.305	26689	8441	VV	0.048	0.8181
26	12.453	74560	24986	VV	0.045	2.2856
27	12.659	5429	1143	VV	0.067	0.1664
28	12.806	9551	1416	VV	0.094	0.2928
29	13.273	6944	1610	VB	0.062	0.2129
30	13.782	22397	7107	BV	0.047	0.6866
31	13.896	1926	354	VB	0.071	0.0590
32	14.785	187946	64829	PV	0.045	5.7613
33	14.894	15225	3488	VV	0.062	0.4667
34	15.069	23945	7695	VV	0.047	0.7340
35	15.175	15897	4080	VV	0.057	0.4873

36	15.255	30673	4429	VV	0.093	0.9403
37	15.557	45488	9175	VV	0.069	1.3944
38	15.754	5533	881	VB	0.084	0.1696
39	16.008	1541	426	BV	0.054	0.0472
40	16.163	26121	8878	PV	0.045	0.8007
41	16.346	1457	351	VV	0.056	0.0446
42	16.423	5146	782	VV	0.087	0.1578
43	16.783	6892	1203	PV	0.081	0.2113
44	16.980	1574	596	VV	0.040	0.0483
45	17.052	20487	6603	VV	0.048	0.6280
46	17.185	6958	1966	VV	0.053	0.2133
47	17.872	9030	2083	BV	0.065	0.2768
48	18.006	4444	1314	VV	0.051	0.1362
49	18.142	45991	14388	VV	0.050	1.4098
50	18.258	4007	827	VV	0.067	0.1228
51	18.388	28670	9461	VV	0.046	0.8789
52	18.456	26751	8319	VV	0.049	0.8200
53	18.570	5719	1602	VV	0.053	0.1753
54	18.662	49011	14812	VV	0.050	1.5024
55	18.800	6147	1070	VV	0.081	0.1884
56	18.898	7063	1917	VV	0.055	0.2165
57	19.028	28168	6775	VV	0.057	0.8635
58	19.091	41119	11816	VV	0.052	1.2605
59	19.393	39245	11241	VV	0.053	1.2030
60	19.753	3848	951	VB	0.059	0.1180
61	20.104	33154	8510	BV	0.059	1.0163
62	20.361	7856	2085	VV	0.054	0.2408
63	20.435	15378	3351	VV	0.067	0.4714
64	20.671	4535	1108	VV	0.060	0.1390
65	20.942	22292	6306	VV	0.053	0.6833
66	21.108	40071	9556	VV	0.064	1.2283
67	21.208	10197	2611	VV	0.056	0.3126
68	21.343	8160	2600	VV	0.047	0.2501
69	21.407	17025	3533	VV	0.070	0.5219
70	21.564	10793	2399	VV	0.065	0.3309
71	21.757	14877	3361	VV	0.065	0.4561
72	21.872	13465	3558	VV	0.056	0.4128
73	22.006	4613	813	VV	0.082	0.1414
74	22.125	3987	861	VV	0.067	0.1222
75	22.276	8589	2277	VV	0.056	0.2633
76	22.329	5732	1731	VV	0.055	0.1757
77	22.511	6286	1428	VV	0.064	0.1927
78	22.755	14531	4421	PV	0.050	0.4454
79	22.933	9058	2502	VV	0.055	0.2777
80	23.099	2501	655	VV	0.057	0.0767
81	23.190	2244	635	VV	0.053	0.0688
82	23.351	102190	23085	VV	0.065	3.1325
83	23.769	5985	1292	VV	0.066	0.1835
84	23.838	7474	1895	VV	0.058	0.2291
85	23.989	26360	4484	VV	0.088	0.8080
86	24.198	2265	561	VV	0.061	0.0694

87	24.417	3724	929	PV	0.059	0.1142
88	24.488	5844	1260	VV	0.065	0.1792
89	24.621	11725	2019	VV	0.087	0.3594
90	24.736	1992	603	VB	0.051	0.0611
91	24.883	4478	1125	BV	0.060	0.1373
92	25.256	4851	899	PV	0.080	0.1487
93	25.424	1799	271	VV	0.089	0.0551
94	25.593	2443	468	VV	0.075	0.0749
95	25.708	2338	552	VV	0.063	0.0717
96	25.795	4063	801	VV	0.079	0.1246
97	25.935	71809	18377	VV	0.061	2.2012
98	26.178	2778	525	VV	0.088	0.0851
99	26.326	19441	3097	VV	0.088	0.5959
100	26.514	5906	1283	VV	0.067	0.1810
101	26.600	3816	813	VV	0.072	0.1170
102	26.819	2562	342	PV	0.121	0.0785
103	27.011	18585	4775	VV	0.058	0.5697
104	27.085	9163	1608	VV	0.095	0.2809
105	27.268	3480	828	VV	0.060	0.1067
106	27.349	8308	2370	VV	0.055	0.2547
107	27.682	4223	891	BV	0.071	0.1294
108	27.814	12010	2248	VV	0.080	0.3682
109	28.045	18881	2863	VV	0.093	0.5788
110	28.335	2097	456	VV	0.068	0.0643
111	28.672	1461	244	PV	0.100	0.0448
112	28.766	1606	283	VB	0.080	0.0492

Total area = 3262216

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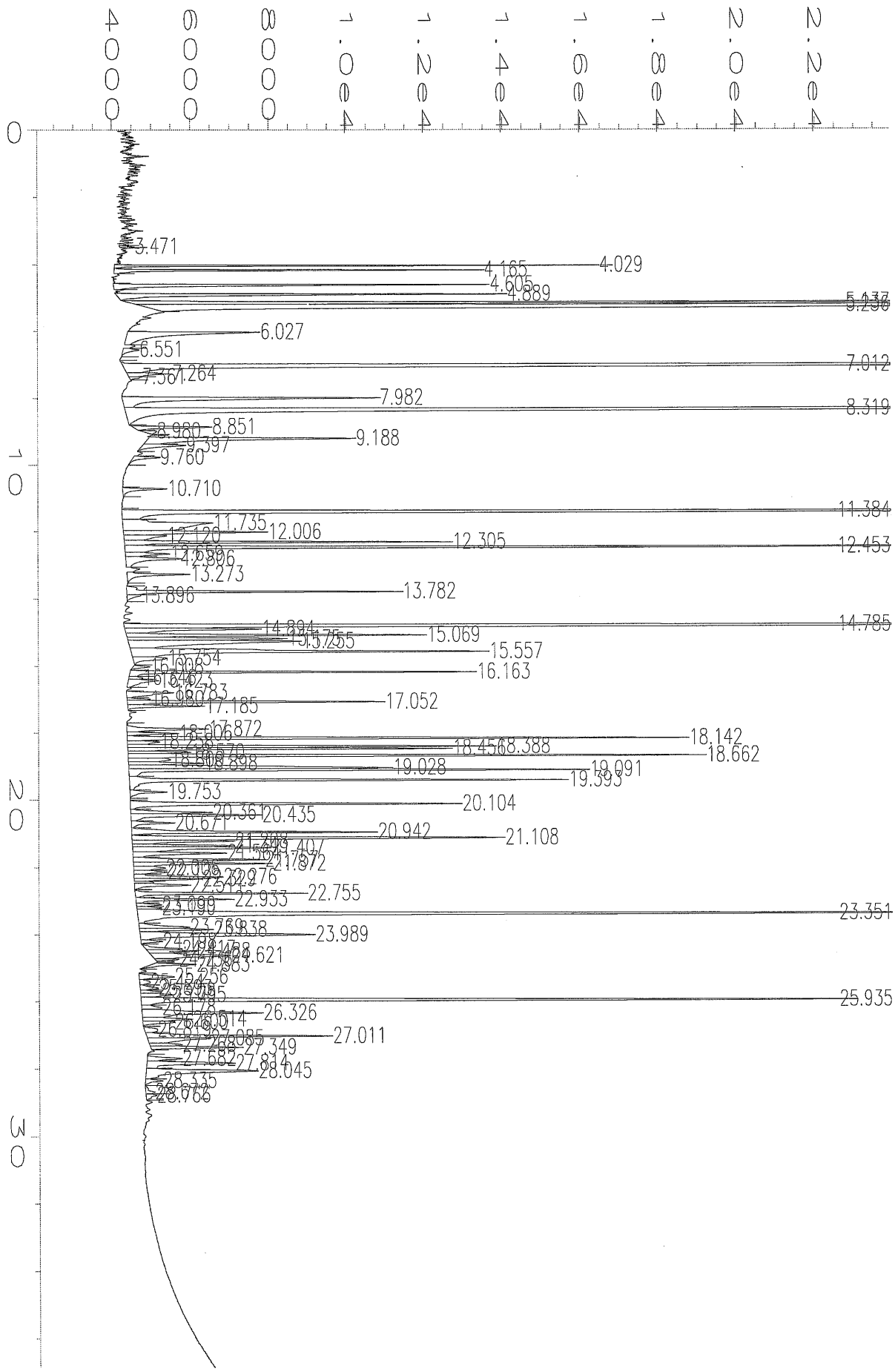
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Area Percent Report

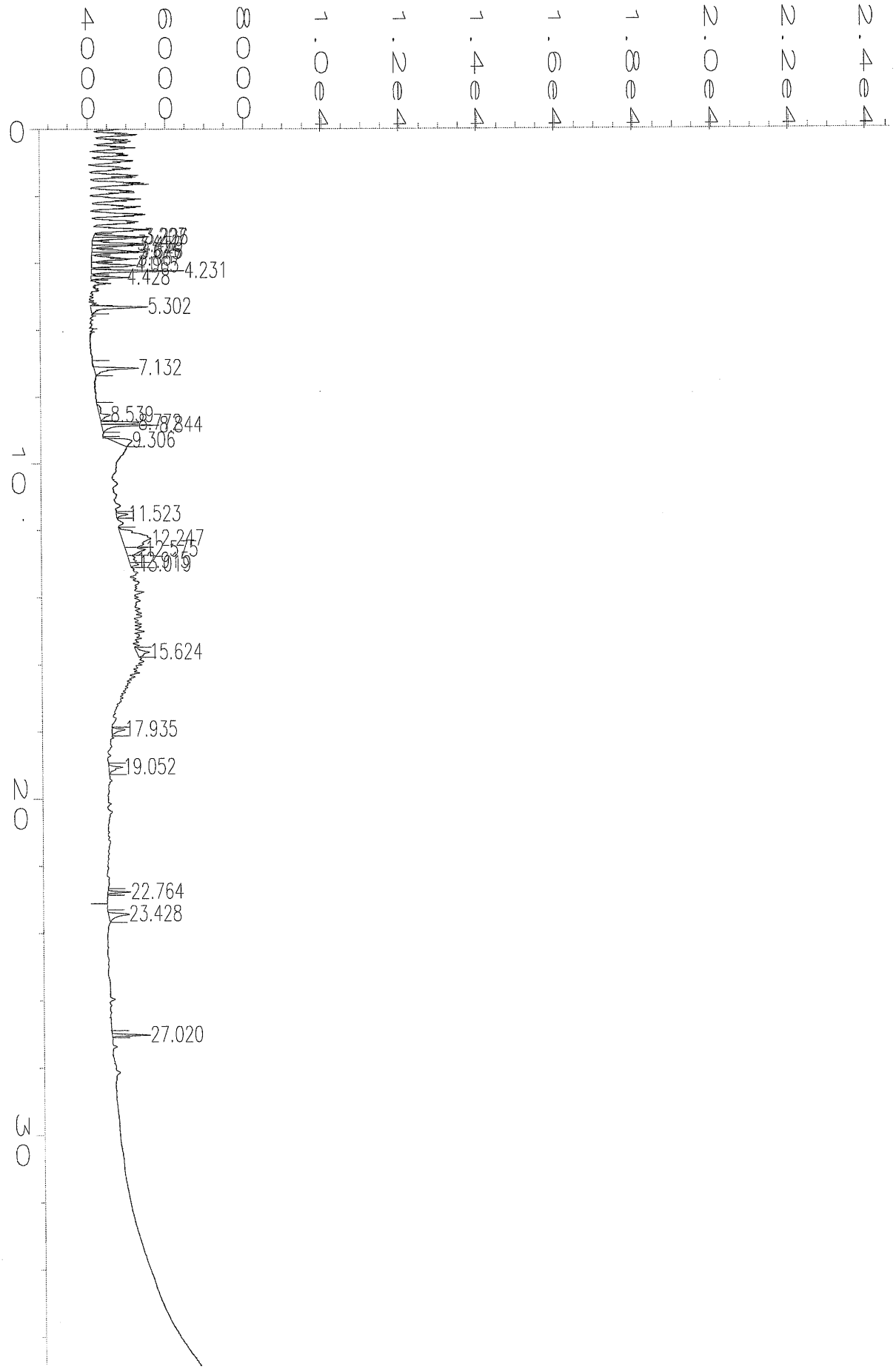
Data File Name : C:\HPCHEM\1\DATA\04025K\2510042A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-306
Run Time Bar Code:
Acquired on : 02 Apr 25 01:00 PM
Report Created on: 02 Apr 25 01:37 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04025K\2510042A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.207	3526	1293	BV	0.038	3.1038
2	3.226	4345	1336	VV	0.054	3.8242
3	3.412	4898	1268	PV	0.055	4.3114
4	3.459	3628	1366	VV	0.037	3.1935
5	3.646	3813	1091	VV	0.045	3.3560
6	3.675	3291	1169	VV	0.038	2.8965
7	3.867	5649	1197	VV	0.063	4.9719
8	4.065	5845	1169	VV	0.064	5.1445
9	4.231	7766	2399	VV	0.043	6.8355
10	4.428	2976	956	VV	0.043	2.6195
11	5.302	6409	1432	VV	0.064	5.6409
12	7.132	5357	1149	BB	0.065	4.7154
13	8.539	2605	287	BV	0.119	2.2927
14	8.772	4158	975	PV	0.065	3.6595
15	8.844	5326	1485	VV	0.047	4.6884
16	9.306	4448	506	BB	0.117	3.9153
17	11.523	1290	295	BB	0.063	1.1353
18	12.247	16066	741	BV	0.270	14.1417
19	12.575	4686	527	VV	0.116	4.1247
20	12.915	1851	175	VV	0.145	1.6292
21	13.019	1077	202	VV	0.071	0.9483
22	15.624	2473	324	PV	0.100	2.1764
23	17.935	1897	321	BB	0.087	1.6695
24	19.052	2099	360	BB	0.079	1.8474
25	22.764	1729	593	BB	0.046	1.5219
26	23.428	3432	535	BB	0.092	3.0209
27	27.020	2972	979	BB	0.048	2.6159

Total area = 113610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Area Percent Report

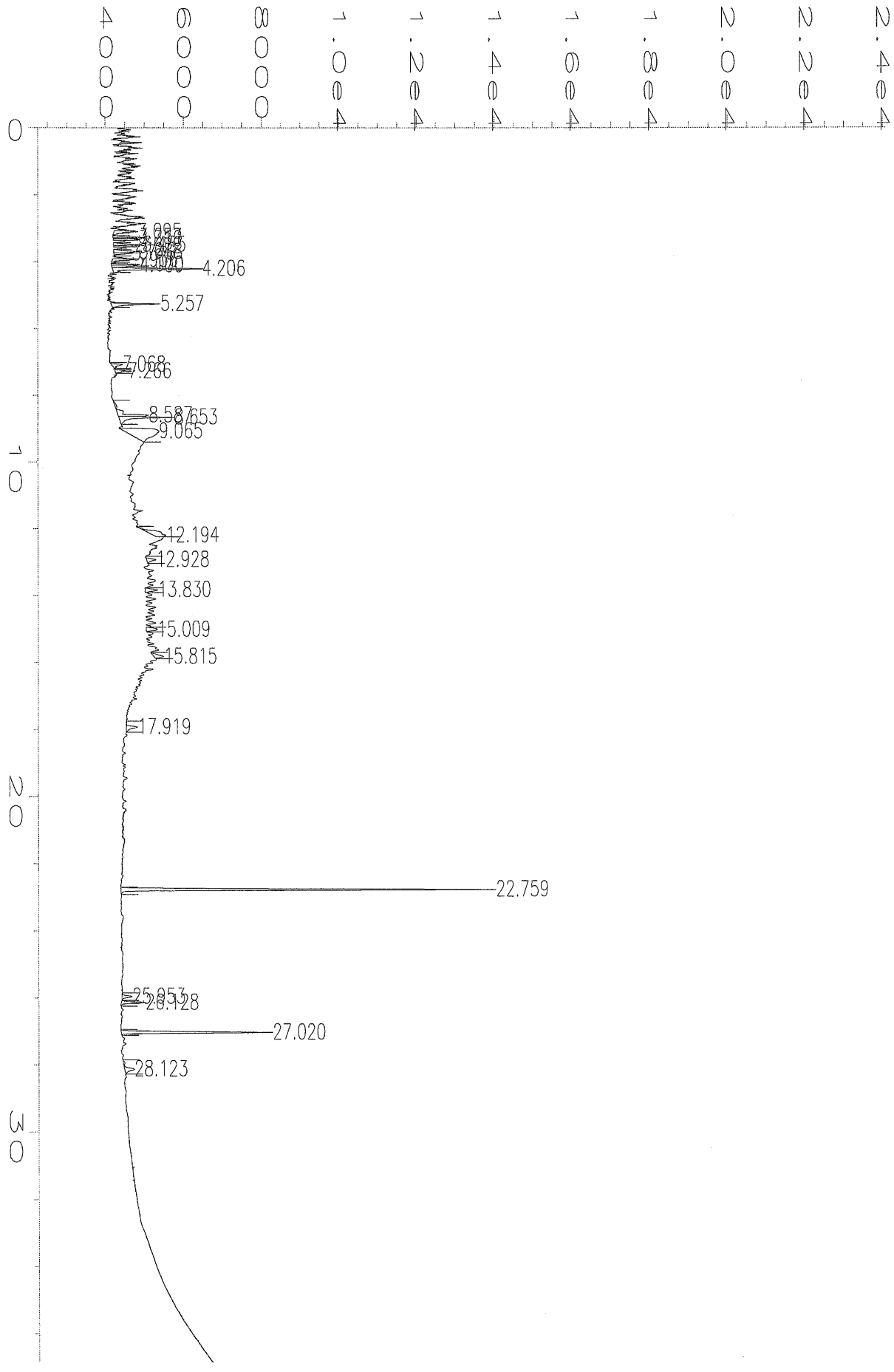
Data File Name : C:\HPCHEM\1\DATA\04025K\2510043A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-307
Run Time Bar Code:
Acquired on : 02 Apr 25 01:46 PM
Report Created on: 02 Apr 25 02:23 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04025K\2510043A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.095	2113	622	VV	0.046	1.9997
2	3.253	1226	663	PV	0.029	1.1599
3	3.316	1721	726	VV	0.035	1.6288
4	3.485	1823	748	VV	0.035	1.7254
5	3.522	1429	701	VV	0.034	1.3523
6	3.688	2033	669	VV	0.041	1.9242
7	3.746	1071	500	VB	0.029	1.0139
8	3.936	1727	568	VV	0.044	1.6342
9	4.070	1469	745	PV	0.030	1.3899
10	4.100	1919	733	VV	0.044	1.8161
11	4.206	6753	2329	VV	0.043	6.3899
12	5.257	3943	1265	VV	0.043	3.7312
13	7.068	1086	267	BB	0.058	1.0272
14	7.266	1096	445	BV	0.036	1.0373
15	8.587	4122	792	BV	0.070	3.9008
16	8.653	4882	1429	VB	0.046	4.6194
17	9.065	13285	886	PB	0.190	12.5717
18	12.194	3559	312	BV	0.141	3.3679
19	12.928	968	233	BB	0.062	0.9159
20	13.830	1451	325	VV	0.061	1.3729
21	15.009	1410	272	VV	0.064	1.3340
22	15.815	1346	252	PV	0.073	1.2733
23	17.919	1302	284	BB	0.066	1.2323
24	22.759	27534	9667	BB	0.044	26.0552
25	25.953	1013	263	BB	0.060	0.9587
26	26.128	1932	617	BB	0.049	1.8283
27	27.020	11776	3901	BB	0.048	11.1437
28	28.123	1687	250	BB	0.086	1.5960

Total area = 105677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Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04025K\2510044A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-308
Run Time Bar Code:
Acquired on : 02 Apr 25 02:33 PM
Report Created on: 02 Apr 25 03:09 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04025K\2510044A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.223	1010	637	PV	0.026	0.5024
2	3.392	1613	467	VV	0.058	0.8021
3	3.446	1737	504	VV	0.058	0.8641
4	3.603	1116	725	VV	0.026	0.5550
5	3.621	1248	614	VV	0.034	0.6207
6	3.744	1313	444	VV	0.044	0.6534
7	3.791	1533	780	VV	0.027	0.7628
8	3.946	809	412	VV	0.033	0.4022
9	3.991	1253	522	VV	0.032	0.6232
10	4.082	2018	842	VV	0.035	1.0037
11	4.231	6063	2132	VV	0.041	3.0159
12	4.652	2101	555	PV	0.051	1.0452
13	5.186	882	398	BV	0.035	0.4389
14	5.254	22348	7694	VV	0.043	11.1172
15	7.039	24434	8166	BV	0.044	12.1544
16	7.283	1378	584	VB	0.032	0.6855
17	8.366	21882	5768	BV	0.054	10.8853
18	8.580	3393	899	VV	0.054	1.6881
19	8.704	6520	1597	VV	0.054	3.2432
20	9.417	6273	420	BB	0.180	3.1203
21	11.426	8505	2434	BV	0.051	4.2306
22	12.076	857	194	BV	0.074	0.4264
23	12.197	5998	584	VV	0.129	2.9836
24	12.388	2961	447	VV	0.087	1.4731
25	12.499	5340	940	VB	0.077	2.6566
26	13.812	1184	378	PV	0.049	0.5890
27	14.809	11485	3536	PV	0.049	5.7131
28	15.435	926	187	PV	0.065	0.4608
29	19.039	2035	1034	BV	0.034	1.0123
30	22.760	22591	7905	BB	0.045	11.2381
31	23.387	13261	2352	BB	0.079	6.5966
32	26.131	1065	348	BB	0.049	0.5300
33	27.022	14399	4704	BB	0.048	7.1628
34	27.366	1495	362	BB	0.061	0.7435

Total area = 201026

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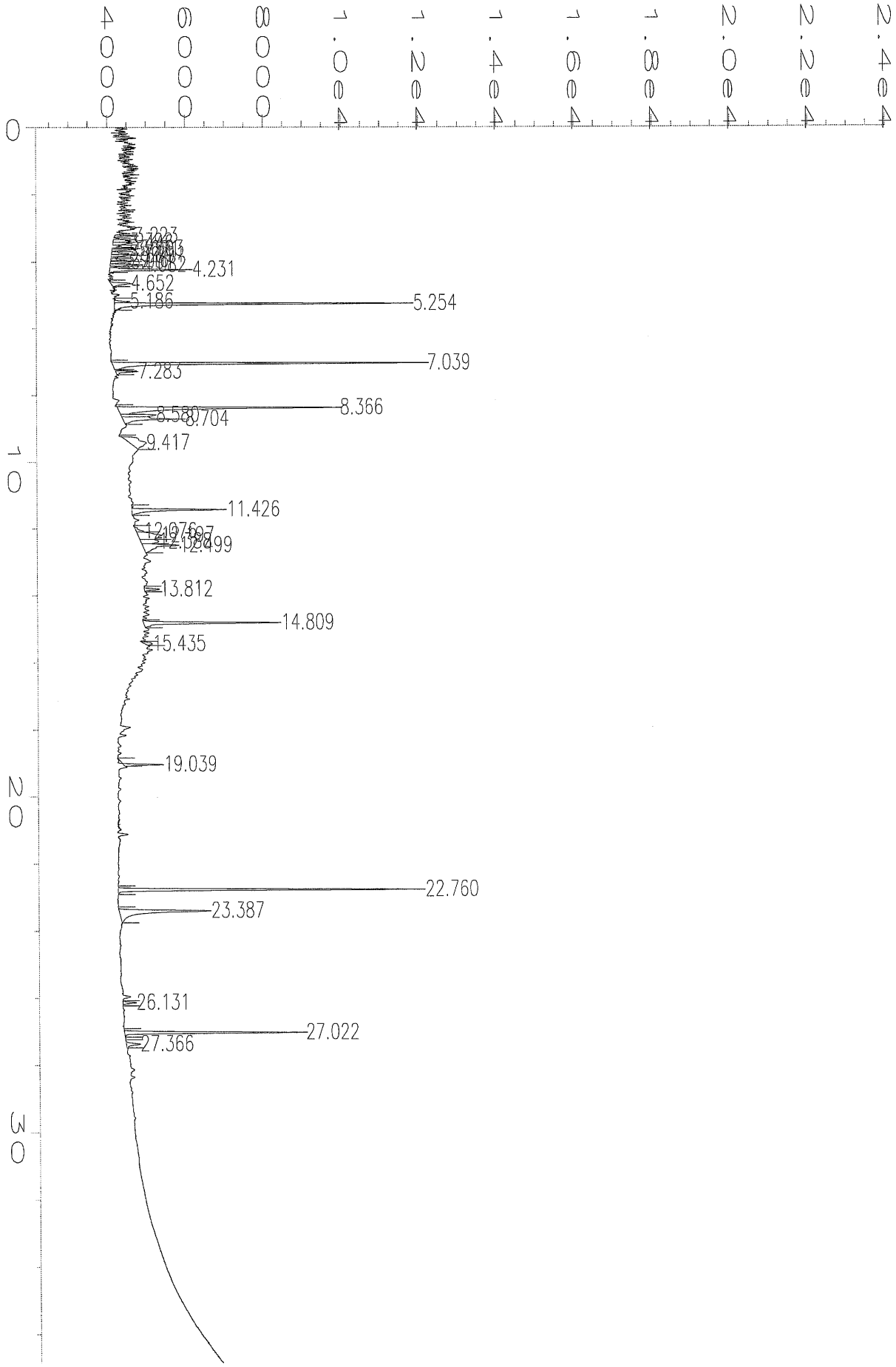
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Area Percent Report

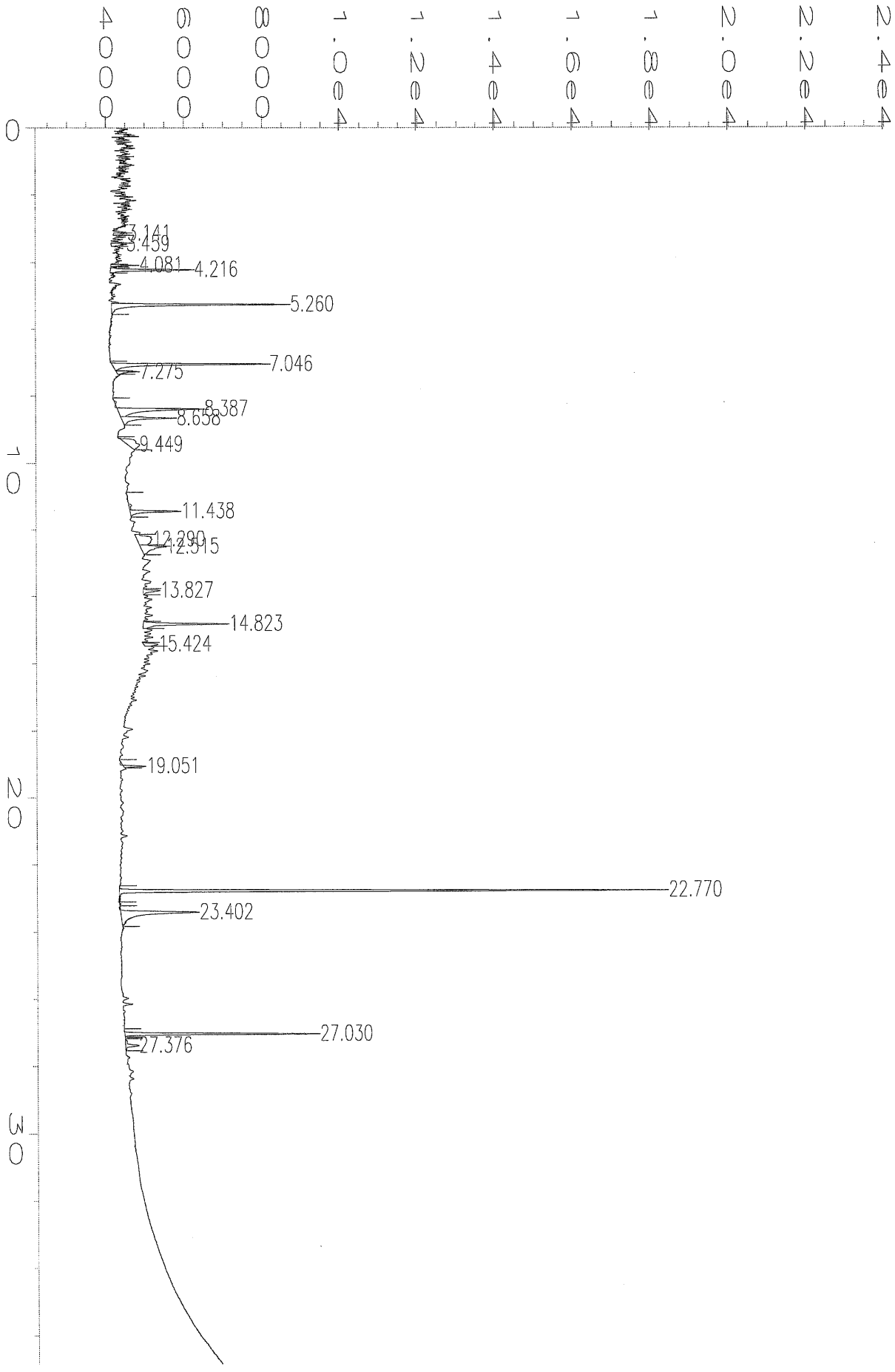
Data File Name : C:\HPCHEM\1\DATA\04025K\2510045A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-309
Run Time Bar Code:
Acquired on : 02 Apr 25 03:17 PM
Report Created on: 02 Apr 25 03:54 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04025K\2510045A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.141	850	352	VV	0.033	0.5371
2	3.459	1318	418	VV	0.049	0.8336
3	4.081	1202	738	PV	0.025	0.7601
4	4.216	6528	2162	VV	0.043	4.1271
5	5.260	14870	4582	VB	0.047	9.4011
6	7.046	12932	4068	BV	0.047	8.1758
7	7.275	1433	593	PV	0.033	0.9060
8	8.387	10979	2225	BV	0.068	6.9411
9	8.658	5521	1433	VB	0.051	3.4908
10	9.449	4536	303	BB	0.194	2.8678
11	11.438	4778	1308	BB	0.054	3.0211
12	12.290	5709	386	VV	0.216	3.6097
13	12.515	4626	658	VV	0.093	2.9246
14	13.827	1695	424	VV	0.062	1.0716
15	14.823	8074	2198	PV	0.055	5.1049
16	15.424	1492	364	PV	0.068	0.9434
17	19.051	1152	581	BV	0.034	0.7284
18	22.770	41019	14101	BB	0.046	25.9337
19	23.402	12839	2020	BV	0.089	8.1175
20	27.030	14945	4975	BB	0.048	9.4489
21	27.376	1670	337	BB	0.073	1.0556

Total area = 158170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Area Percent Report

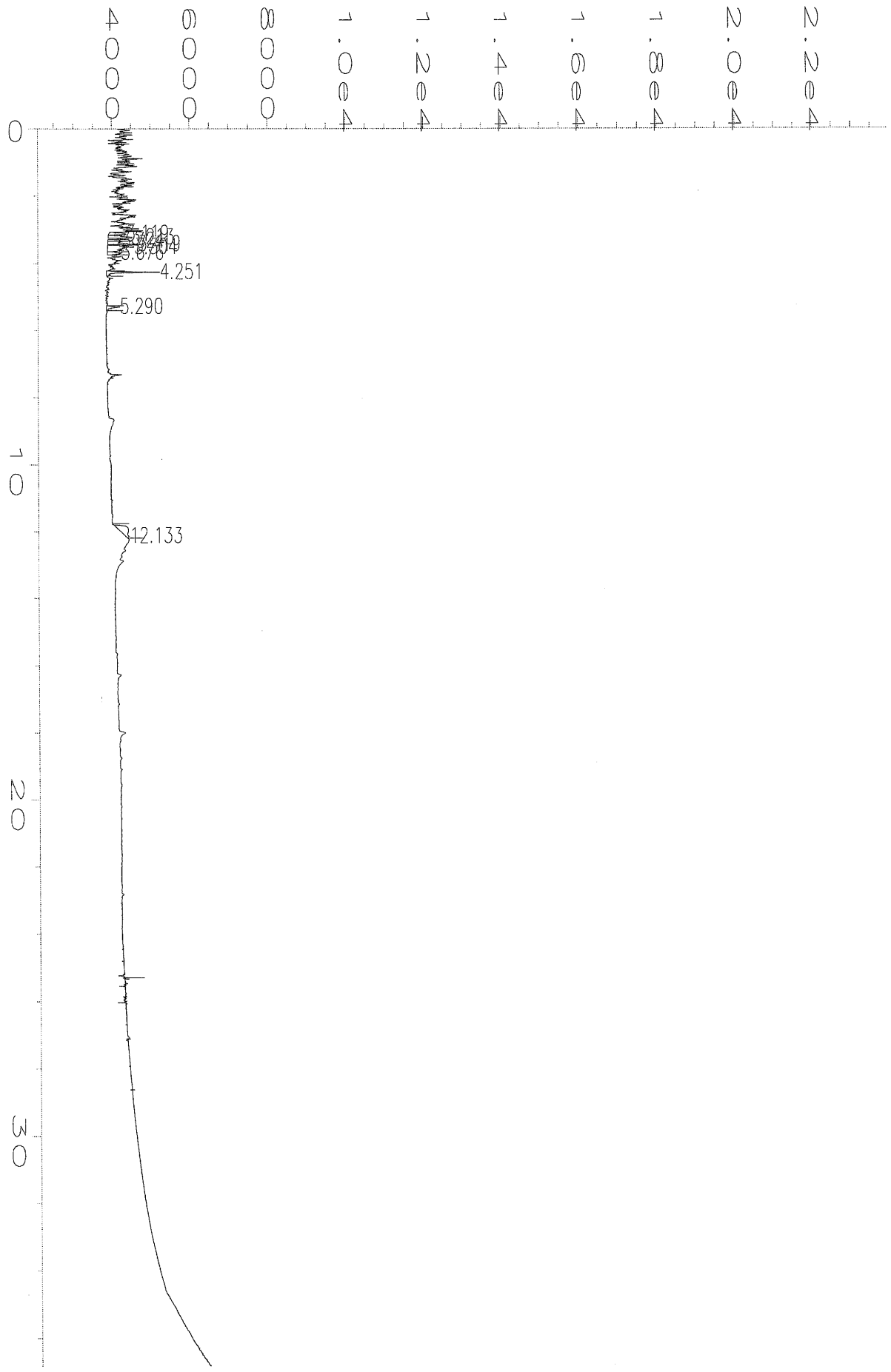
Data File Name : C:\HPCHEM\1\DATA\03315K\2510046A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-310
Run Time Bar Code:
Acquired on : 31 Mar 25 02:28 PM
Report Created on: 31 Mar 25 03:05 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03315K\2510046A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.119	1431	447	PV	0.045	7.0391
2	3.213	1815	624	PV	0.040	8.9262
3	3.324	833	347	VV	0.040	4.0968
4	3.419	2410	765	VV	0.052	11.8560
5	3.504	4352	676	VV	0.083	21.4057
6	3.676	1282	388	VV	0.047	6.3050
7	4.251	3058	1389	VV	0.033	15.0399
8	5.290	1141	342	BV	0.050	5.6104
9	12.133	4009	98	BB	0.481	19.7210

Total area = 20330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30
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Area Percent Report

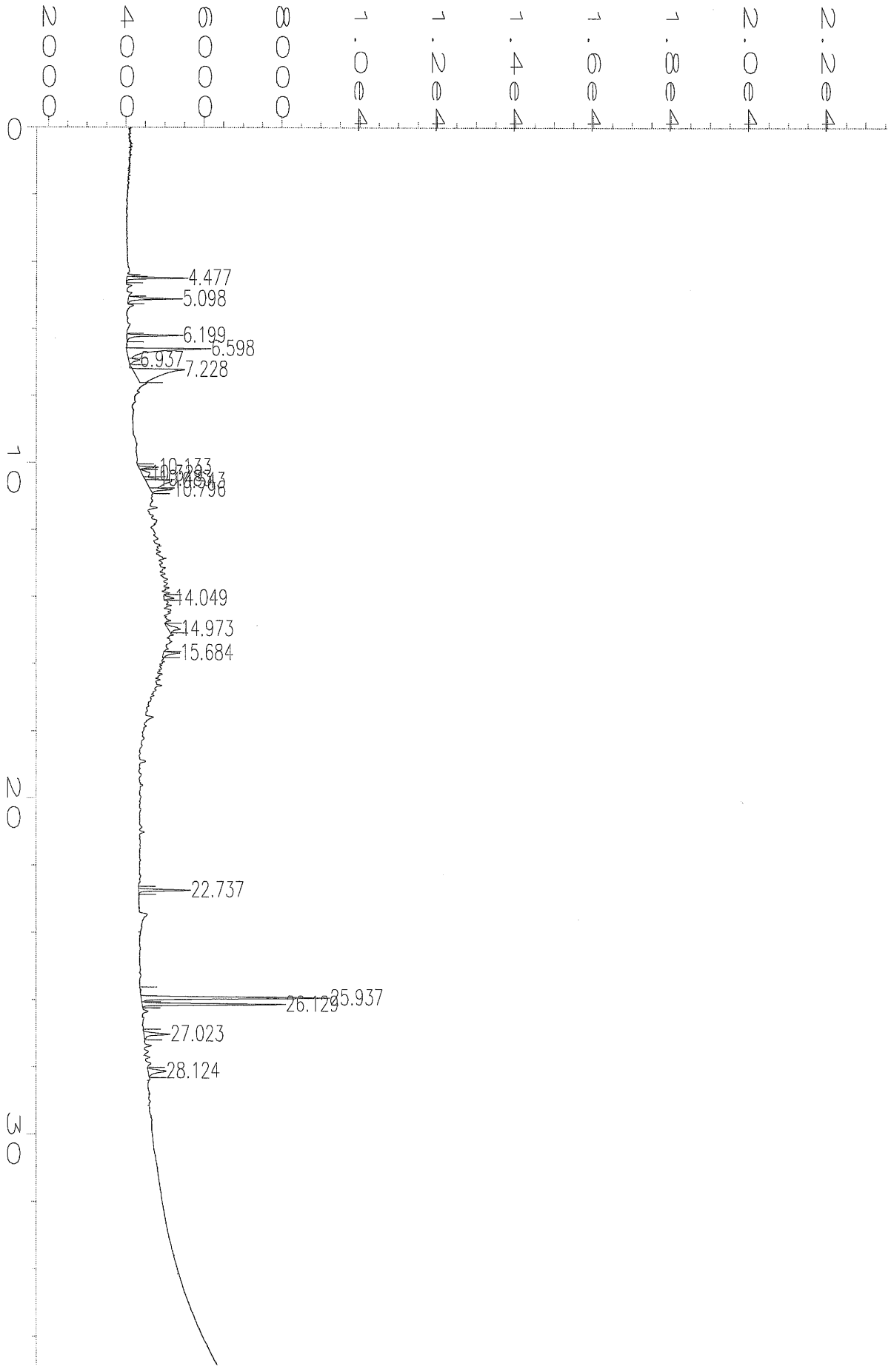
Data File Name : C:\HPCHEM\1\DATA\04025K\2510047A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-311
Run Time Bar Code:
Acquired on : 02 Apr 25 04:03 PM
Report Created on: 02 Apr 25 04:40 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04025K\2510047A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.477	4278	1568	VB	0.043	4.2605
2	5.098	4244	1396	BV	0.044	4.2262
3	6.199	4261	1450	BB	0.044	4.2437
4	6.598	11833	2172	BV	0.071	11.7842
5	6.937	1478	289	VV	0.071	1.4722
6	7.228	16043	1330	PV	0.151	15.9761
7	10.133	1415	500	BV	0.044	1.4095
8	10.329	1836	198	VV	0.132	1.8283
9	10.483	1237	349	VV	0.053	1.2320
10	10.543	6459	671	VV	0.123	6.4318
11	10.796	2238	569	VB	0.058	2.2290
12	14.049	1138	265	VV	0.060	1.1334
13	14.973	2431	304	PV	0.104	2.4206
14	15.684	1782	416	PV	0.063	1.7747
15	22.737	3958	1335	BB	0.046	3.9416
16	25.937	18667	4838	BV	0.060	18.5891
17	26.129	11295	3677	VB	0.048	11.2476
18	27.023	3024	674	BB	0.066	3.0114
19	28.124	2800	457	BB	0.090	2.7881

Total area = 100418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Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04025K\2510048A.D
Operator : SS
Instrument : ANALYZER1
Sample Name : T-312
Run Time Bar Code:
Acquired on : 02 Apr 25 05:04 PM
Report Created on: 02 Apr 25 05:40 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04025K\2510048A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.292	867	259	PV	0.046	0.0559
2	3.704	899	356	PV	0.036	0.0580
3	3.792	1065	340	VV	0.052	0.0687
4	3.972	2001	748	VV	0.038	0.1291
5	4.075	3947	1704	VV	0.034	0.2548
6	4.490	4592	1318	PV	0.047	0.2964
7	4.796	4749	1227	PV	0.054	0.3065
8	4.884	1509	439	VV	0.057	0.0974
9	5.047	2161	824	VV	0.041	0.1395
10	5.118	10524	4350	VV	0.035	0.6792
11	6.116	1225	201	BB	0.094	0.0790
12	6.928	18559	6653	BV	0.041	1.1978
13	7.971	2106	373	BV	0.077	0.1359
14	8.290	9507	1784	VV	0.074	0.6136
15	8.445	5514	1128	VV	0.069	0.3559
16	8.538	5174	1522	VV	0.045	0.3339
17	9.021	4624	602	BB	0.111	0.2984
18	11.382	10745	3273	BV	0.048	0.6935
19	11.474	226190	42496	VV	0.071	14.5983
20	11.986	23702	4492	VV	0.073	1.5297
21	12.463	2942	835	VB	0.053	0.1899
22	12.656	1688	533	BV	0.049	0.1089
23	12.763	1404	350	VV	0.062	0.0906
24	12.855	6161	551	VB	0.147	0.3976
25	13.397	3239	1107	BV	0.046	0.2090
26	13.471	22924	2203	VV	0.133	1.4795
27	13.784	5885	882	VV	0.089	0.3798
28	14.796	5614	1815	BV	0.048	0.3623
29	14.947	4821	1234	VV	0.057	0.3112
30	15.086	2926	563	VV	0.070	0.1889
31	15.169	67348	19797	VV	0.051	4.3466
32	15.286	33819	6830	VV	0.071	2.1827
33	15.429	210764	50016	VV	0.060	13.6027
34	16.184	3366	994	VV	0.050	0.2172
35	16.289	109398	26410	VV	0.059	7.0606

36	16.763	5261	1375	PV	0.058	0.3395
37	16.938	2926	827	PV	0.054	0.1888
38	17.065	912	356	VV	0.041	0.0589
39	17.520	2016	307	BV	0.096	0.1301
40	17.895	3502	631	PV	0.081	0.2260
41	18.069	93586	9519	VV	0.125	6.0401
42	18.514	17403	2426	VV	0.096	1.1232
43	18.675	3913	921	VV	0.061	0.2526
44	18.820	12326	1316	VV	0.124	0.7955
45	19.049	4474	1081	VV	0.069	0.2888
46	19.101	4607	1167	VB	0.058	0.2973
47	19.368	16548	2270	BV	0.098	1.0680
48	19.629	3411	512	VV	0.091	0.2201
49	19.765	4843	506	VV	0.125	0.3126
50	20.176	71977	6009	PV	0.152	4.6454
51	20.676	6576	861	VV	0.102	0.4244
52	20.891	3842	754	VV	0.085	0.2480
53	20.959	4754	966	VV	0.070	0.3068
54	21.119	8230	1287	VV	0.089	0.5312
55	21.793	1797	373	PV	0.078	0.1160
56	21.896	3581	915	VV	0.058	0.2311
57	21.964	6144	832	VV	0.099	0.3965
58	22.461	3090	683	PV	0.068	0.1994
59	22.769	28325	9811	PB	0.046	1.8281
60	23.378	44034	9423	VV	0.068	2.8419
61	23.882	24032	4657	VV	0.073	1.5510
62	24.032	8206	1378	VV	0.086	0.5296
63	24.505	6102	656	PV	0.121	0.3938
64	24.635	7153	1035	VV	0.098	0.4616
65	25.277	1827	373	BV	0.072	0.1179
66	25.729	1148	263	PV	0.066	0.0741
67	25.954	27790	6889	VV	0.062	1.7936
68	26.146	1618	290	VV	0.080	0.1044
69	26.350	11789	2534	VV	0.070	0.7609
70	26.537	1543	437	VV	0.054	0.0996
71	26.634	22616	2570	VV	0.119	1.4597
72	27.031	37334	8319	VV	0.065	2.4095
73	27.367	9037	1219	VV	0.101	0.5832
74	27.692	5799	988	VV	0.093	0.3743
75	27.818	35068	7598	VV	0.071	2.2633
76	28.116	150052	33897	VV	0.068	9.6844
77	28.353	2559	439	VB	0.082	0.1652
78	28.649	1641	343	BV	0.075	0.1059
79	29.345	3574	677	PV	0.081	0.2307
80	30.566	10504	1698	BB	0.091	0.6779

Total area = 1549427

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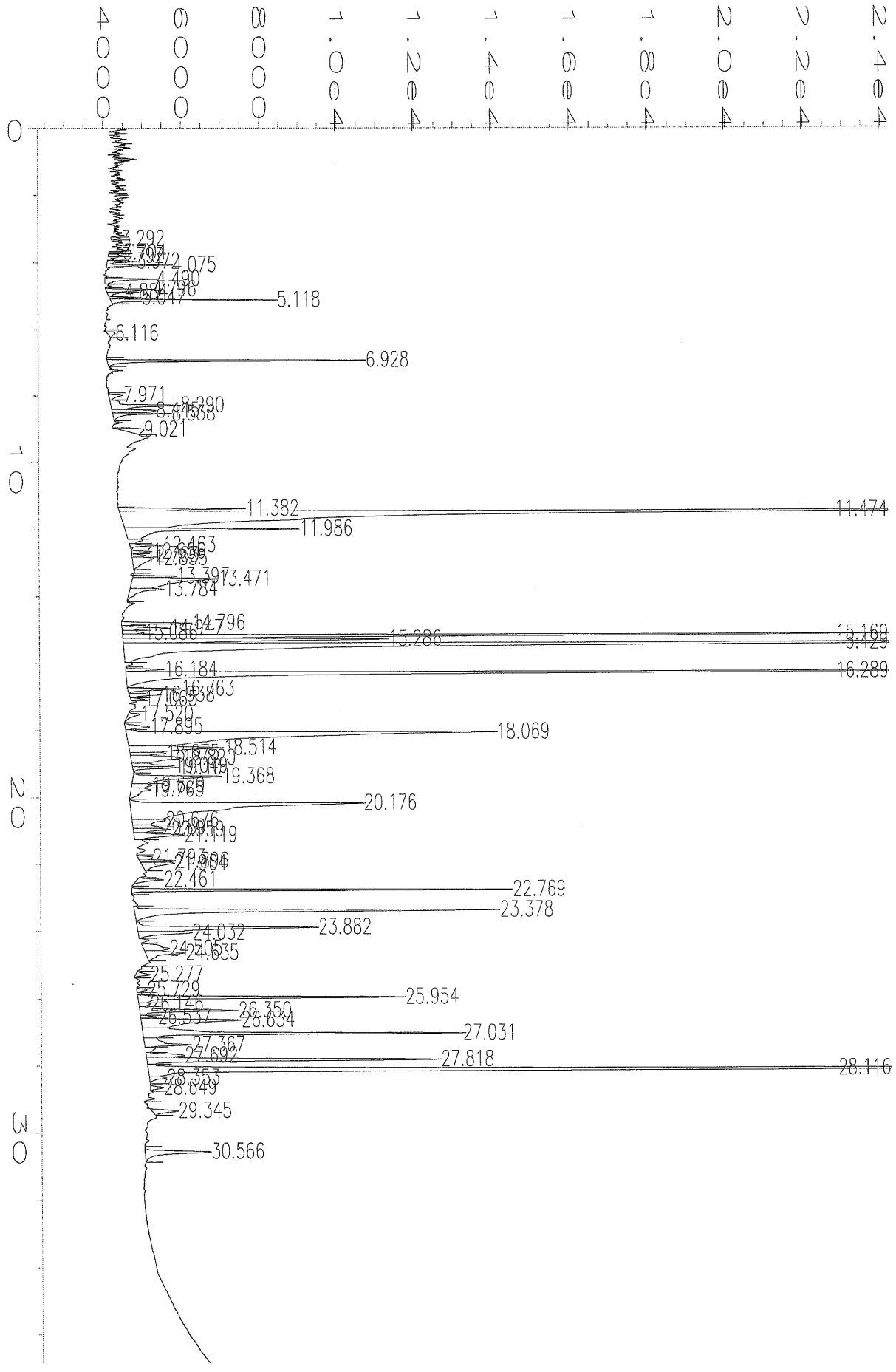

C:\HPCHEM\1\DATA\040225K\251004BA.D

Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04025K\2510049A.D
Operator : SS
Instrument : ANALYZER1
Sample Name : T-313
Run Time Bar Code:
Acquired on : 02 Apr 25 06:02 PM
Report Created on: 02 Apr 25 06:39 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04025K\2510049A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.113	3918	1032	BV	0.053	1.4557
2	3.293	2646	841	VV	0.042	0.9831
3	3.486	5238	1144	PV	0.061	1.9461
4	3.685	4003	1005	VV	0.052	1.4871
5	3.817	1486	688	VV	0.032	0.5523
6	3.861	1880	665	VV	0.041	0.6986
7	3.968	896	488	VV	0.031	0.3328
8	4.048	1580	629	VV	0.035	0.5872
9	4.177	5358	1772	VV	0.049	1.9909
10	5.239	3475	1274	VV	0.040	1.2913
11	5.296	1241	395	VV	0.052	0.4611
12	7.058	1418	651	BV	0.034	0.5268
13	8.447	3356	491	BV	0.095	1.2470
14	8.611	5620	943	VV	0.089	2.0880
15	8.732	4919	1407	VB	0.047	1.8276
16	9.169	5651	621	BB	0.128	2.0997
17	11.466	1565	372	BB	0.060	0.5816
18	11.837	6251	1228	VV	0.074	2.3227
19	11.945	6897	1142	VV	0.091	2.5626
20	12.056	9703	1510	VV	0.087	3.6053
21	12.176	11169	979	VV	0.147	4.1497
22	12.524	2463	449	VV	0.076	0.9152
23	15.352	1485	506	BV	0.049	0.5519
24	15.422	2101	482	VV	0.061	0.7807
25	15.519	2494	376	VV	0.094	0.9267
26	17.918	3148	551	BV	0.082	1.1695
27	18.307	8973	800	PB	0.157	3.3338
28	18.813	1629	302	PV	0.079	0.6052
29	20.433	6107	653	BB	0.137	2.2689
30	21.887	3951	579	BV	0.100	1.4679
31	21.995	2602	368	VV	0.118	0.9666
32	22.771	19395	6819	BB	0.045	7.2062
33	23.400	12556	2174	BV	0.082	4.6652
34	24.707	1840	227	PV	0.124	0.6836
35	25.954	29219	7809	PV	0.059	10.8564

36	26.136	4106	1299	VV	0.050	1.5257
37	26.353	1762	355	VV	0.074	0.6547
38	26.759	3887	409	VV	0.129	1.4442
39	27.018	19846	3452	VV	0.092	7.3739
40	27.180	2342	370	VV	0.098	0.8701
41	27.284	2049	399	VV	0.074	0.7613
42	27.368	2355	509	VV	0.068	0.8751
43	27.703	2009	445	VV	0.068	0.7466
44	27.840	3734	778	VV	0.074	1.3875
45	28.113	14289	2573	PV	0.081	5.3093
46	29.343	2308	322	PV	0.114	0.8576
47	29.560	3517	391	VV	0.118	1.3069
48	30.547	20702	3734	BV	0.082	7.6919

Total area = 269140

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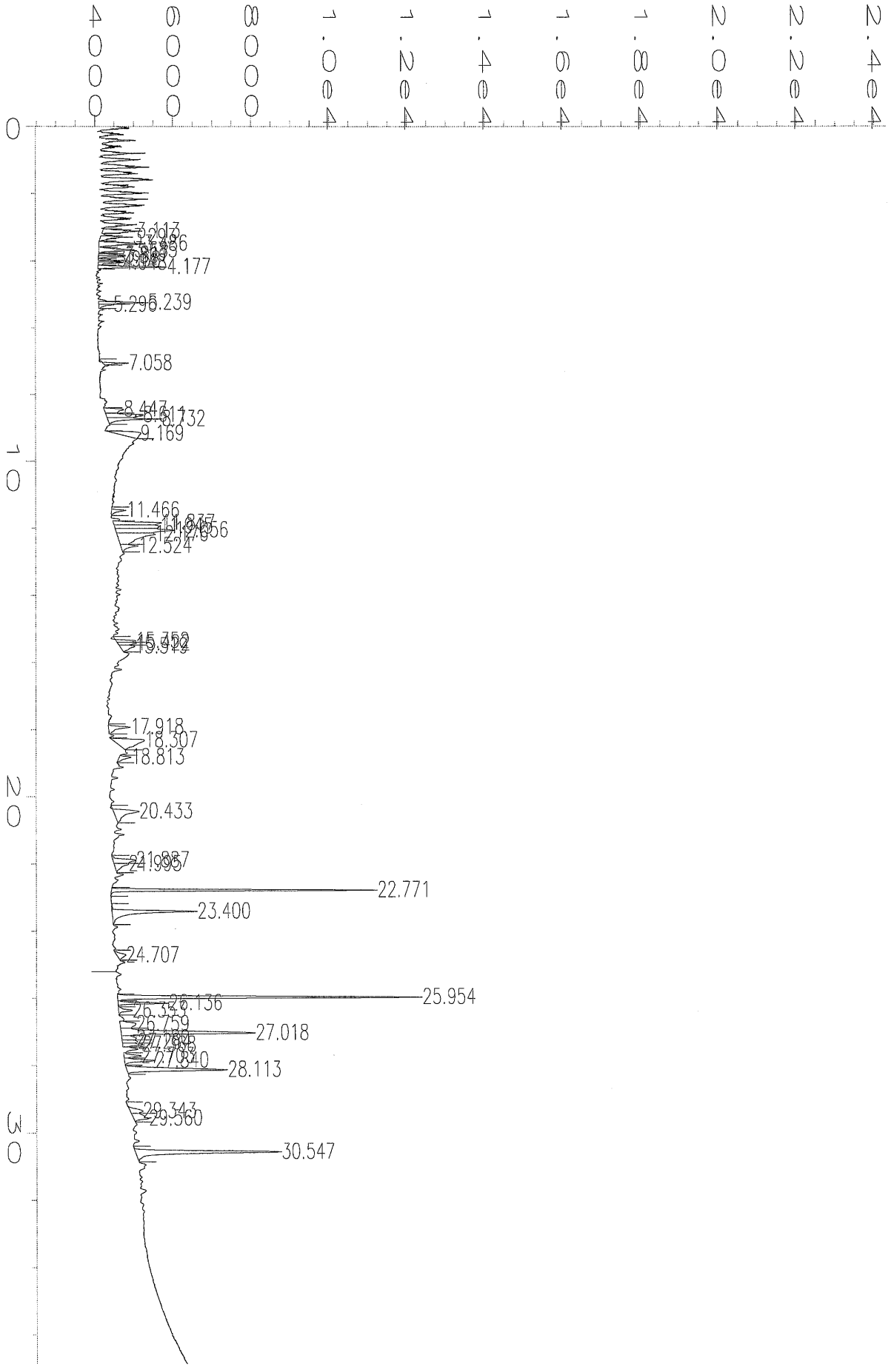
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Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04025K\2510050A.D
Operator : SS
Instrument : ANALYZER1
Sample Name : T-314
Run Time Bar Code:
Acquired on : 02 Apr 25 06:57 PM
Report Created on: 02 Apr 25 07:34 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: KTO3DHC.MTH
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04025K\2510050A.D

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1	4.038	1064	555	VV	0.030	0.0316
2	4.186	5025	1893	PV	0.039	0.1490
3	4.576	15207	6138	VV	0.036	0.4510
4	4.689	1282	384	VV	0.044	0.0380
5	4.861	26666	8505	PV	0.043	0.7909
6	5.124	4568	1180	VV	0.055	0.1355
7	5.212	4982	2063	VV	0.036	0.1478
8	6.016	18111	2713	BB	0.086	0.5372
9	6.994	113965	48431	BV	0.036	3.3801
10	7.259	1515	663	VV	0.032	0.0449
11	8.641	6856	1434	BV	0.061	0.2033
12	8.857	3772	1100	VB	0.050	0.1119
13	9.199	40304	11608	BV	0.049	1.1954
14	9.598	10387	908	VB	0.148	0.3081
15	11.400	98297	36682	BV	0.041	2.9154
16	12.006	48996	16199	BV	0.045	1.4532
17	12.187	1305	279	VB	0.063	0.0387
18	13.806	7654	2693	BV	0.044	0.2270
19	14.816	6664	2237	PV	0.046	0.1977
20	14.921	7486	1942	VV	0.055	0.2220
21	15.104	3523	1145	VB	0.047	0.1045
22	15.275	51160	12045	BV	0.060	1.5173
23	15.595	6698	1293	VB	0.073	0.1986
24	17.008	892	296	VV	0.045	0.0265
25	17.084	972	324	VV	0.044	0.0288
26	17.216	2709	841	PV	0.049	0.0804
27	18.033	2214	635	VV	0.052	0.0657
28	18.171	7597	2319	VB	0.051	0.2253
29	18.486	9546	2863	BV	0.051	0.2831
30	18.596	959	297	VV	0.050	0.0284
31	18.705	2416	706	VB	0.051	0.0716
32	19.050	9507	2774	VV	0.049	0.2820
33	19.117	18352	5547	VB	0.050	0.5443
34	19.448	1189	257	BB	0.067	0.0353
35	19.780	1369	406	BB	0.053	0.0406

36	20.132	4512	1110	BV	0.060	0.1338
37	20.192	2922	856	VV	0.050	0.0867
38	20.388	2836	983	PV	0.044	0.0841
39	20.460	6153	1469	VB	0.060	0.1825
40	20.688	9745	2862	BV	0.053	0.2890
41	20.900	10032	3234	VV	0.048	0.2975
42	20.963	11521	3489	VV	0.050	0.3417
43	21.122	13759	4048	VV	0.053	0.4081
44	21.238	8043	1238	VV	0.088	0.2385
45	21.374	4928	903	VV	0.074	0.1462
46	21.511	2178	595	VV	0.056	0.0646
47	21.622	4880	906	VV	0.083	0.1447
48	21.780	13142	2319	VV	0.078	0.3898
49	21.895	7946	2187	VV	0.055	0.2357
50	22.032	5182	945	VV	0.083	0.1537
51	22.149	2572	586	VV	0.065	0.0763
52	22.354	13365	2450	VV	0.076	0.3964
53	22.438	13404	3373	VV	0.060	0.3975
54	22.529	4110	1030	VV	0.059	0.1219
55	22.773	10651	2578	VV	0.060	0.3159
56	22.876	1603	496	VV	0.050	0.0475
57	22.965	1536	447	VV	0.053	0.0456
58	23.124	5261	1422	PV	0.057	0.1560
59	23.212	2594	775	VV	0.049	0.0769
60	23.301	5337	1533	VV	0.058	0.1583
61	23.382	26443	6687	VV	0.059	0.7843
62	23.456	33743	6568	VV	0.072	1.0008
63	23.730	6686	1545	VV	0.065	0.1983
64	23.862	13812	3472	VV	0.060	0.4097
65	24.028	29570	6091	VV	0.072	0.8770
66	24.219	14503	3753	VV	0.059	0.4301
67	24.348	5911	1333	VV	0.067	0.1753
68	24.486	12892	1838	VV	0.111	0.3823
69	24.646	29289	3054	VV	0.127	0.8687
70	24.891	168221	46321	VV	0.056	4.9892
71	25.099	9366	2505	VV	0.058	0.2778
72	25.286	19505	4532	VV	0.065	0.5785
73	25.391	36499	9216	VV	0.060	1.0825
74	25.559	59556	11839	VV	0.072	1.7664
75	25.645	23214	6436	VV	0.053	0.6885
76	25.786	145421	34625	VV	0.063	4.3130
77	25.943	74853	14896	VV	0.071	2.2200
78	26.018	96063	16430	VV	0.080	2.8491
79	26.169	28042	5559	VV	0.076	0.8317
80	26.304	95585	21322	VV	0.066	2.8349
81	26.428	131176	30270	VV	0.060	3.8905
82	26.474	109306	31939	VV	0.049	3.2419
83	26.541	110549	29233	VV	0.055	3.2787
84	26.642	149105	33547	VV	0.066	4.4223
85	26.888	100390	12001	VV	0.114	2.9774
86	27.000	66340	11768	VV	0.084	1.9676

87	27.113	90200	19026	VV	0.070	2.6752
88	27.279	264616	58018	VV	0.067	7.8482
89	27.374	69197	17147	VV	0.060	2.0523
90	27.471	62917	9293	VV	0.093	1.8660
91	27.680	39582	6566	VV	0.089	1.1740
92	27.821	216968	41039	VV	0.080	6.4350
93	27.961	59682	9210	VV	0.089	1.7701
94	28.156	42141	7586	VV	0.086	1.2499
95	28.236	52702	10789	VV	0.071	1.5631
96	28.357	58940	11415	VV	0.075	1.7481
97	28.591	24902	3197	VV	0.104	0.7386
98	28.683	12697	3274	VV	0.065	0.3766
99	28.780	40450	4654	VV	0.116	1.1997
100	28.981	16897	2954	VV	0.085	0.5011
101	29.130	6237	1147	VV	0.079	0.1850
102	29.436	6102	724	VV	0.120	0.1810

Total area = 3371691

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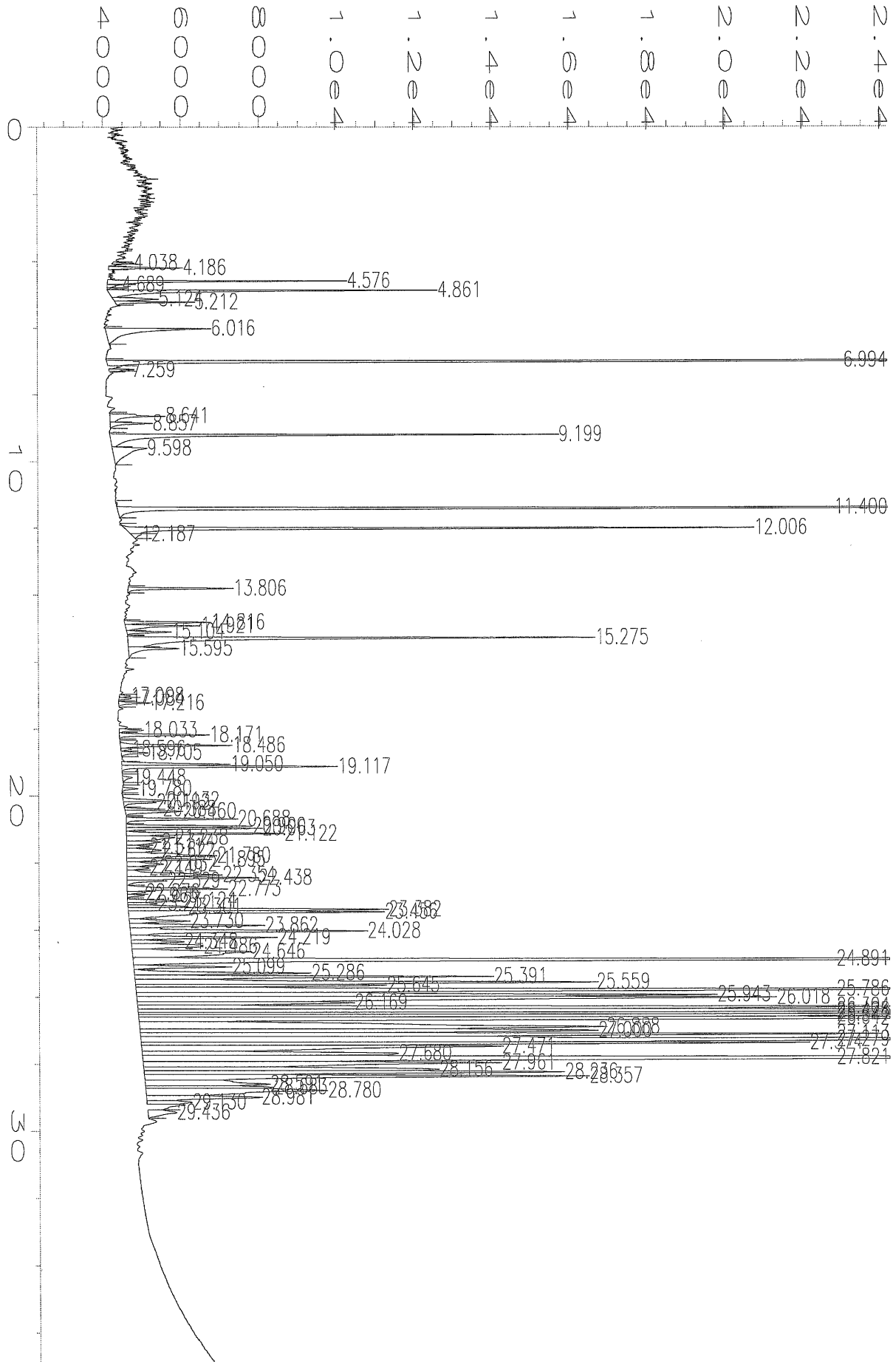
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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 01

File Name: 2510001A
Description: T-101
Canister: 668
QC_Batch: 040825-GCK

Date Sampled: 03/19/25 **Time:** 8:40
Date Analyzed: 04/08/25 **Time:** 12:12
Can Factor: 1.20
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.20	3.61	ND	1.39	4.16	ND	ND
74-86-2	Acetylene	1.20	3.61	ND	1.28	3.85	ND	ND
74-84-0	Ethane	1.20	3.61	4.95	1.49	4.46	6.10	
115-07-1	Propene	0.80	2.41	2.06	1.39	4.16	3.55	J
74-98-6	Propane	0.80	2.41	1.89	1.45	4.35	3.41	J
75-28-5	i-Butane	0.60	1.81	ND	1.43	4.30	ND	ND
106-98-9	1-Butene	0.60	1.81	ND	1.38	4.15	ND	ND
106-97-8	n-Butane	0.60	1.81	ND	1.43	4.30	ND	ND
624-64-6	t-2-Butene	0.60	1.81	ND	1.38	4.15	ND	ND
590-18-1	c-2-Butene	0.60	1.81	ND	1.38	4.15	ND	ND
78-78-4	i-Pentane	0.48	1.45	ND	1.43	4.28	ND	ND
109-67-1	1-Pentene	0.48	1.45	ND	1.38	4.15	ND	ND
109-66-0	n-Pentane	0.48	1.45	ND	1.42	4.27	ND	ND
646-04-8	t-2-Pentene	0.48	1.45	ND	1.38	4.15	ND	ND
627-20-3	c-2-Pentene	0.48	1.45	ND	1.38	4.15	ND	ND
75-83-2	2,2-Dimethylbutane	0.40	1.20	ND	1.42	4.26	ND	ND
142-29-0	Cyclopentene	0.48	1.45	ND	1.34	4.03	ND	ND
287-92-3	Cyclopentane	0.48	1.45	ND	1.38	4.15	ND	ND
79-29-8	2,3-Dimethylbutane	0.40	1.20	ND	1.42	4.26	ND	ND
107-83-5	2-Methylpentane	0.40	1.20	ND	1.42	4.26	ND	ND
96-14-0	3-Methylpentane	0.40	1.20	ND	1.42	4.26	ND	ND
592-41-6	1-Hexene	0.40	1.20	ND	1.39	4.16	ND	ND
110-54-3	n-Hexane	0.40	1.20	ND	1.42	4.26	ND	ND
1120-62-3	3-Methylcyclopentene	0.40	1.20	ND	1.35	4.05	ND	ND
96-37-7	Methylcyclopentane	0.40	1.20	ND	1.39	4.16	ND	ND
108-08-7	2,4-Dimethylpentane	0.34	1.03	ND	1.41	4.24	ND	ND
71-43-2	Benzene	0.40	1.20	0.77	1.29	3.86	2.47	J
110-82-7	Cyclohexane	0.40	1.20	ND	1.39	4.16	ND	ND
591-76-4	2-Methylhexane	0.34	1.03	ND	1.41	4.24	ND	ND
565-59-3	2,3-Dimethylpentane	0.34	1.03	ND	1.41	4.24	ND	ND
589-34-4	3-Methylhexane	0.34	1.03	ND	1.41	4.24	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.90	ND	1.41	4.23	ND	ND
142-82-5	n-Heptane	0.34	1.03	ND	1.41	4.24	ND	ND
108-87-2	Methylcyclohexane	0.34	1.03	ND	1.39	4.16	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.90	ND	1.41	4.23	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.90	ND	1.41	4.23	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.90	ND	1.41	4.23	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.34	1.03	ND	1.30	3.90	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.90	ND	1.41	4.23	ND	ND
592-27-8	2-Methylheptane	0.30	0.90	ND	1.41	4.23	ND	ND
589-53-7	4-Methylheptane	0.30	0.90	ND	1.41	4.23	ND	ND
589-81-1	3-Methylheptane	0.30	0.90	ND	1.41	4.23	ND	ND
111-65-9	n-Octane	0.30	0.90	ND	1.41	4.23	ND	ND
100-41-4	Ethylbenzene	0.30	0.90	ND	1.31	3.93	ND	ND
108-38-3	m,p-xylene	0.30	0.90	ND	1.31	3.93	ND	ND
100-42-5	Styrene	0.30	0.90	ND	1.29	3.86	ND	ND
95-47-6	o-xylene	0.30	0.90	ND	1.31	3.93	ND	ND
111-84-2	n-Nonane	0.27	0.80	ND	1.41	4.22	ND	ND
98-82-8	i-Propylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
103-65-1	n-propylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.80	ND	1.32	3.96	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.80	ND	1.32	3.96	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.80	ND	1.32	3.96	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
124-18-5	n-Decane	0.24	0.72	ND	1.41	4.22	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.72	ND	1.33	3.98	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.72	ND	1.33	3.98	ND	ND
104-51-8	n-Butylbenzene	0.24	0.72	ND	1.33	3.98	ND	ND
1120-21-4	Undecane	0.22	0.66	ND	1.40	4.21	ND	ND
91-20-3	Naphthalene	0.24	0.72	ND	1.27	3.80	ND	ND
112-40-3	Dodecane	0.20	0.60	ND	1.40	4.20	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.04	27.11	31.63	31.92	95.76	111.73	
TNMHC - C1	Total Non-Methane Hydrocarbons	54.21	162.63	189.76	35.55	106.65	124.43	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **01**
File Name: **2510001A**
Sample ID: **T-101**
Sampled: **3/19/2025**
Received: **03/21/25**
Analyzed: **04/08/25**
QCBatch: **040825-GCK**
Can: **668**
Can Factor: **1.20**
Volume: **200.0**
Type: **SA**

Time: **8:40** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **12:12** MDL Fac: **1.0**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **382828**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C4 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.02	**4.01**	1080	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.06			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.13**	6441	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.09**	4017	I	O	M	261	290
74-98-6	Propane	P	5.20	**5.20**	**5.71**	3686	O	I	M	300	300
75-28-5	i-Butane	P	6.60	**7.11**		1073				80	351
67-56-1	Methanol		8.30	8.81						80	401
106-98-9	1-Butene	P	7.29	7.80						80	367
106-99-0	1,3-Butadiene		**7.48**	7.99						80	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.31**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.72						200	410
590-18-1	c-2-Butene	P	9.63	9.60						200	431
64-17-5	Ethanol		10.85	10.83						200	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.03						200	465
67-64-1	Acetone		11.52	11.50						200	476
78-78-4	i-Pentane	P	11.37	11.35	**11.39**		I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.28	**12.30**		I	I	H	496	495
67-63-0	Isopropanol		12.65	12.63						200	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.34						200	497
109-66-0	n-Pentane	P	12.48	**12.46**	**12.46**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.53						164	503
646-04-8	t-2-Pentene	P	12.79	12.77	**12.79**		I	I	H	509	510
627-20-3	c-2-Pentene	P	13.08	13.06						164	518
75-65-0	Tert butyl alcohol		**13.55**	13.53						281	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.60						281	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.75						164	537
142-29-0	Cyclopentene	15	**14.61**	14.59						164	551
71-23-8	n-Propanol		**14.75**	14.73						164	558
287-92-3	Cyclopentane	P	14.88	14.86	**14.87**		I	I	H	565	567
1634-04-4	Methyl tert butyl ether		**15.00**	14.98						164	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.04						164	570
107-83-5	2-Methylpentane	P	15.08	15.06	**15.07**		I	I	H	570	571
96-14-0	3-Methylpentane	P	15.55	15.53	**15.45**		I	I	H	581	583
592-41-6	1-Hexene	P	**15.80**	15.78						164	590
110-54-3	n-Hexane	P	16.17	**16.15**	**16.16**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.29						261	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.44						215	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.79						215	623
96-37-7	Methylcyclopentane		P	16.86	16.85						100	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.04	**17.05**		I	I	H	627	626
71-43-2	Benzene		P	17.87	**17.86**	**17.86**	3019	I	I	H	653	651
110-82-7	Cyclohexane		P	18.14	18.13	**18.14**		I	O	M	661	658
591-76-4	2-Methylhexane		P	18.38	18.37	**18.38**		I	I	H	669	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.44	**18.45**		I	I	H	671	671
589-34-4	3-Methylhexane		P	18.66	18.65	**18.66**		I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.74						100	687
994-05-8	Tert amyl methyl ether			**18.80**	18.79						100	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.08	**19.08**		I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.40	**19.39**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.08	**20.10**		I	I	H	725	722
592-13-2	2,5-Dimethylhexane			20.35	20.34	**20.36**		I	I	H	734	734
589-43-5	2,4-Dimethylhexane			20.43	20.42	**20.42**		I	I	H	736	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.92	**20.93**		I	I	H	754	753
108-88-3	Toluene		P	21.12	**21.11**	**21.10**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.18						24	763
592-27-8	2-Methylheptane		P	21.33	21.31	**21.34**		I	I	H	768	768
589-53-7	4-Methylheptane	48		**21.48**	21.46						24	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.48						24	772
589-81-1	3-Methylheptane		p	21.55	21.53	**21.56**		I	I	H	776	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.08						24	786
111-65-9	n-Octane		P	22.27	22.25	**22.26**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.73	**23.74**		I	I	H	857	855
108-38-3	m,p-xylene		P	23.95	23.93	**23.95**		I	I	H	865	863
100-42-5	Styrene		P	24.40	24.38						-57	881
95-47-6	o-xylene		P	24.57	24.55	**24.58**		I	O	M	889	886
124-11-8	1-Nonene	64		24.60	24.58						-57	889
111-84-2	n-Nonane		P	24.87	24.85	**24.86**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.34	**25.38**		I	I	H	922	919
103-65-1	n-propylbenzene		P	25.93	25.91	**25.92**		I	I	H	945	947
80-56-8	a-Pinene			26.09	26.07						-144	950
620-14-4	3-Ethyltoluene		P	26.17	26.15	**26.14**		I	O	M	954	957
622-96-8	4-Ethyltoluene		P	26.26	26.24						-144	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.43	**26.45**		I	I	H	967	964
611-14-3	2-Ethyltoluene		P	26.61	26.59	**26.60**		I	I	H	973	975
127-91-3	b-Pinene			26.80	26.78	**26.77**		I	I	H	980	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.06	**27.07**		I	I	H	993	991
124-18-5	n-Decane		P	27.26	27.24	**27.24**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.53						-38	1014
496-11-7	Indan	81		27.55	27.53						-38	1020
5989-27-5	d-Limonene			27.65	27.63						-38	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.08	**28.01**		I	I	H	1029	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.21	**28.20**		I	I	H	1037	1037
104-51-8	n-Butylbenzene			28.45	28.43						-38	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.58						-38	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.73						-38	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.81						-38	1060
1120-21-4	Undecane		P	29.86	29.86	**29.86**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.43						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.48						-48	1124
91-20-3	Naphthalene		32.25	32.23						-48	1193
112-40-3	Dodecane	P	32.46	32.46	**32.46**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					0		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					123565		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					123565		0			
TVOC	Total Volatile Organic Compounds					0		0			
TPH(g)	TPH (gasoline)					0		0			
TPH(d)	TPH (diesel)					0		0			
TPH(h)	TPH (hexane)					0		0			
TPH(t)	TPH (toluene)					0		0			
TPHC	TPH (methane)					0		0			
TPH(Jet A)	TPH (Jet A Fuel)					0		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					0					
C6+	**C6+ (hexane)**		16.17	16.15	16.16	**0**		Sum from	16.15	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			7521		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			7703		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**15224**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040825-GCK		
Hexane Std Area:	382828		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.20	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.20		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	1.66	0.83	0.96	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	9.89	4.95	6.10	9.89	4.95	6.10	6.10	6.10
Propene	42.1	3	6.17	2.06	3.55	6.17	2.06	3.55	3.55	3.55
Propane	44.1	3	5.66	1.89	3.41	5.66	1.89	3.41	3.41	3.41
i-Butane	58.1	4	1.65	0.41	0.98	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	4.64	0.77	2.47	4.64	0.77	2.47	2.47	2.4
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	189.76	31.6	111.7	189.76	31.63	111.73	111.73	111.73
Total Non-Methane Hydrocarbons	16	1.0	189.76	189.8	124.4	189.76	189.76	124.43	124.43	124.43
Total Volatile Organic Compounds	100	7.6	0.00	0.0	0.0	ND	ND	ND	0	
TPH (gasoline)	95	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (diesel)	198	15.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (toluene)	92.14	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (methane)	16	1.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Jet A Fuel)	177	13.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Mineral Spirits)	117.81	8.0	0.00	0.0	0.0	ND	ND	ND	0	
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			29.7	10.9						
Paraffins			15.6							
Isoparaffins			1.6							
Aromatics			4.6							
Napthlenes			0.0							
Olefins			7.8							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	11.55	5.78	7.12	11.55	5.78	7.12	7.12	7.12
C3 (propane)	44.1	3	11.83	3.94	7.13	11.83	3.94	7.13	7.13	7.13
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			23.4							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			17.2	58.0
Alkenes			7.8	26.4
Alkynes			0.0	0.0
Cycloalkanes			0.0	0.0
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			4.6	15.6
Terpenes			0.0	0.0

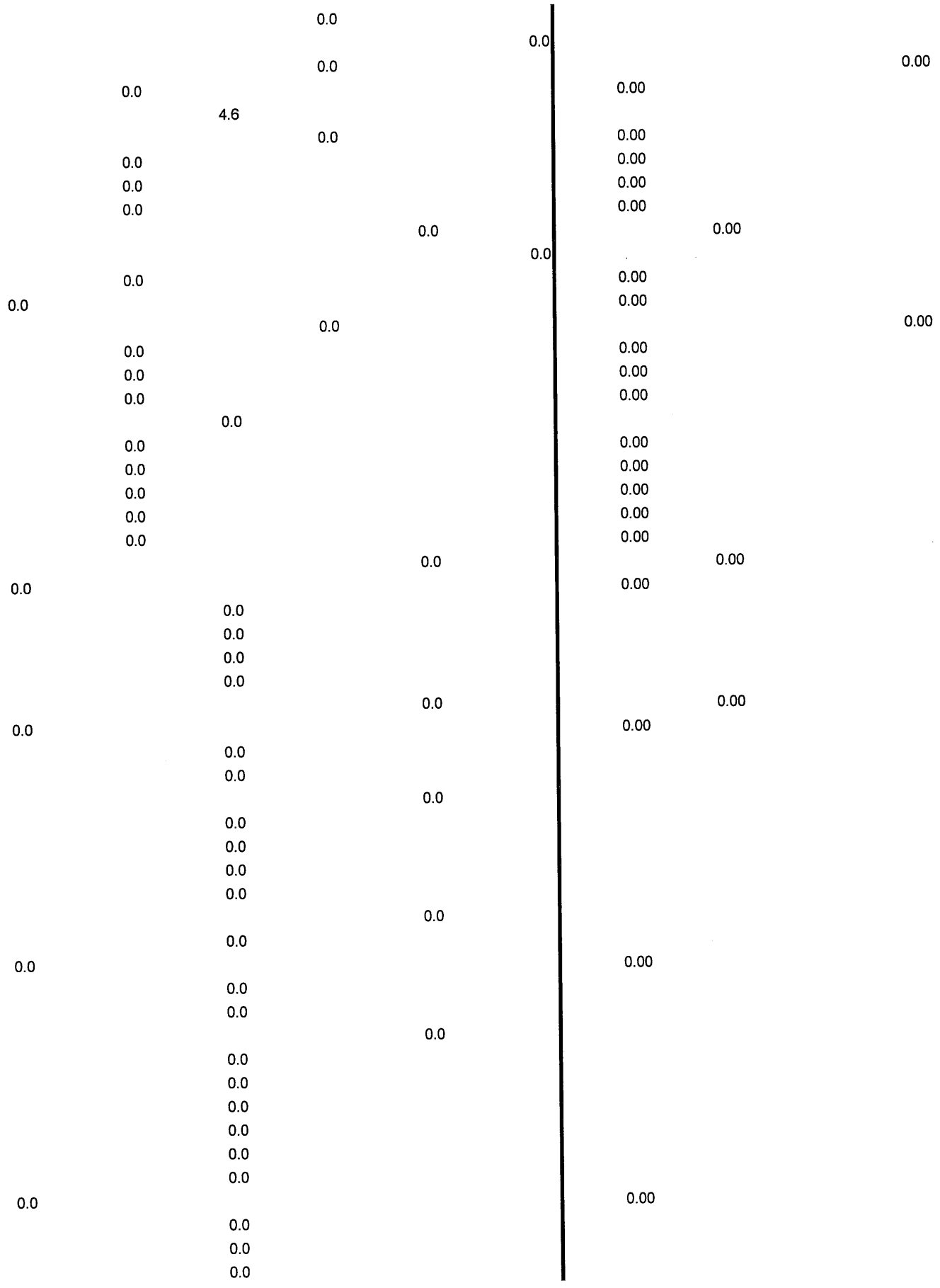
SDG: **225100**
Laboratory Number: **01**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
7.6	2.000	1.00	1.20	1.39	2.41	3.61	4.16	7.2	U	ND		Y
0.0	2.000	1.00	1.20	1.28	2.41	3.61	3.85	7.2	U	ND		Y
45.4	2.000	1.00	1.20	1.49	2.41	3.61	4.46	7.2		=		Y
18.9	2.000	0.67	0.80	1.39	2.41	2.41	4.16	7.2	J	=		Y
17.3	2.000	0.67	0.80	1.45	2.41	2.41	4.35	7.2	J	=		Y
3.8	2.000	0.50	0.60	1.43	2.41	1.81	4.30	7.2	U	ND		Y
0.0	2.000	2.00	2.41	3.16	2.41	7.23	9.48	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.38	2.41	1.81	4.15	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.34	2.41	1.81	4.01	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.43	2.41	1.81	4.30	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.38	2.41	1.81	4.15	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.38	2.41	1.81	4.15	7.2	U	ND		Y
0.0	2.000	1.00	1.20	2.28	2.41	3.61	6.83	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.38	2.41	1.45	4.15	7.2	U	ND		Y
0.0	2.000	0.67	0.80	1.91	2.41	2.41	5.74	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.43	2.41	1.45	4.28	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.38	2.41	1.45	4.15	7.2	U	ND		Y
0.0	2.000	0.67	0.80	1.98	2.41	2.41	5.93	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.38	2.41	1.45	4.15	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.42	2.41	1.45	4.27	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.34	2.41	1.45	4.03	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.38	2.41	1.45	4.15	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.38	2.41	1.45	4.15	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.83	2.41	1.81	5.49	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.38	2.41	1.45	4.15	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.42	2.41	1.20	4.26	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.34	2.41	1.45	4.03	7.2	U	ND		Y
0.0	2.000	0.67	0.80	1.98	2.41	2.41	5.93	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.38	2.41	1.45	4.15	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.74	2.41	1.45	5.23	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.42	2.41	1.20	4.26	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.42	2.41	1.20	4.26	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.42	2.41	1.20	4.26	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.39	2.41	1.20	4.16	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.42	2.41	1.20	4.26	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.68	2.41	1.20	5.05	7.2	U	ND		Y

0.0	2.000	0.33	0.40	1.35	2.41	1.20	4.05	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.68	2.41	1.20	5.05	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.39	2.41	1.20	4.16	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.41	2.41	1.03	4.24	7.2	U	ND	Y
7.1	2.000	0.33	0.40	1.29	2.41	1.20	3.86	7.2	J	=	Y
0.0	2.000	0.33	0.40	1.39	2.41	1.20	4.16	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.41	2.41	1.03	4.24	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.41	2.41	1.03	4.24	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.41	2.41	1.03	4.24	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.39	2.41	1.03	4.16	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.68	2.41	1.20	5.05	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.41	2.41	1.03	4.24	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.39	2.41	1.03	4.16	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.30	2.41	1.03	3.90	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.38	2.41	0.90	4.15	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.31	2.41	0.90	3.93	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.31	2.41	0.90	3.93	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.29	2.41	0.90	3.86	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.31	2.41	0.90	3.93	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.38	2.41	0.80	4.15	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.41	2.41	0.80	4.22	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.41	0.72	4.03	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.41	0.72	4.03	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.41	2.41	0.72	4.22	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.30	2.41	0.80	3.89	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.41	0.72	4.03	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.18	0.22	1.40	2.41	0.66	4.21	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.27	2.41	0.72	3.80	7.2	U	ND	Y

0.0	2.000	0.17	0.20	1.40	2.41	0.60	4.20	7.2	U	ND	Y
%											Y
100.0	45.00	7.5	9.04	31.92	54.21	27.1	95.8	162.6		=	Y
100.0	45.00	45.0	54.21	35.55	54.21	162.6	106.6	162.6		=	Y
0.0	45.00	5.9	7.13	29.23	54.21	21.4	87.7	162.6	U	ND	Y
0.0	45.00	6.4	7.74	30.15	54.21	23.2	90.5	162.6	U	ND	Y
0.0	45.00	3.0	3.61	29.33	54.21	10.8	88.0	162.6	U	ND	Y
0.0	45.00	7.5	9.04	31.92	54.21	27.1	95.8	162.6	U	ND	Y
0.0	45.00	6.4	7.74	29.25	54.21	23.2	87.7	162.6	U	ND	Y
0.0	45.00	45.0	54.21	35.55	54.21	162.6	106.6	162.6	U	ND	Y
0.0	45.00	3.5	4.17	30.25	54.21	12.5	90.8	162.6	U	ND	Y
0.0	45.00	5.6	6.78	32.72	54.21	20.3	98.2	162.6	U	ND	Y
0.0	45.00	7.5	9.04	31.92	54.21	27.1	95.8	162.6	U	ND	Y
0.0	25.000	3.6	4.30	16.75	30.12	12.9	50.3	90.4	U	ND	Y
%											Y
15.6											Y
52.4											Y
5.6											Y
15.6											Y
0.0											Y
26.4											Y
0.0											Y
%											Y
49.4	5.000	2.5	3.01	3.72	6.02	9.0	11.1	18.1	J	=	Y
50.6	5.000	1.7	2.01	3.63	6.02	6.0	10.9	18.1	J	=	Y
0.0	25.000	6.3	7.53	17.93	30.12	22.6	53.8	90.4	U	ND	Y
0.0	25.000	5.0	6.02	17.81	30.12	18.1	53.4	90.4	U	ND	Y
0.0	25.000	4.2	5.02	17.73	30.12	15.1	53.2	90.4	U	ND	Y
0.0	25.000	3.6	4.30	17.67	30.12	12.9	53.0	90.4	U	ND	Y
0.0	25.000	3.1	3.76	17.62	30.12	11.3	52.9	90.4	U	ND	Y
0.0	25.000	2.8	3.35	17.59	30.12	10.0	52.8	90.4	U	ND	Y
0.0	25.000	2.5	3.01	17.56	30.12	9.0	52.7	90.4	U	ND	Y
0.0	25.000	2.3	2.74	17.54	30.12	8.2	52.6	90.4	U	ND	Y
0.0	25.000	2.1	2.51	17.52	30.12	7.5	52.6	90.4	U	ND	Y
0.0	25.000	2.1	2.51	17.52	30.12	7.5	52.6	90.4	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.20	3.56	7.23	3.6	10.7	21.7			Y
0.0	6.0	0.9	1.03	4.24	7.23	3.1	12.7	21.7			Y
0.0	6.0	0.7	0.80	4.22	7.23	2.4	12.7	21.7			Y
0.0	6.0	0.5	0.66	3.85	7.23	2.0	11.5	21.7			Y
0.0	6.0	0.7	0.80	3.76	7.23	2.4	11.3	21.7			Y
0.0	6.0	0.5	0.66	3.83	7.23	2.0	11.5	21.7			Y
0.0	2.0	0.3	0.40	1.42	2.41	1.2	4.3	7.2	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					1.7		1.66		
					0.0			0.00	
9.9						9.89			
					6.2		6.17		
5.7						5.66			
		1.6				1.65			
						0.0			
					0.0		0.00		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
						0.0			
		0.0				0.00			
					0.0		0.00		
						0.0			
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
		0.0				0.00			
				0.0					0.00
						0.0			
				0.0					0.00
						0.0			
		0.0				0.00			
		0.0				0.00			
		0.0				0.00			
					0.0		0.00		
0.0						0.00			
						0.0			


0.0
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4.6
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0.0						0.00			
15.6	1.6	4.6	0.0	7.8	0.0	17.2	7.8	0.0	0.0

0.00	0.00		
0.00	0.00		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
	0.00				
	0.00				
	0.00				
				0.00	
				0.00	

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0.0	0.0	0.0	0.0	4.6	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**01**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.20
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum | (Astdni) / (Cstdni) | i

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.12E+04	1080	1.7	0.83	0.96
Acetylene	2	TRG	26.0	2.12E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.12E+04	6441	9.9	4.95	6.10
Propene	3	TRG	4.5	2.12E+04	4	6.2	2.06	3.55
Propane	3	TRG	44.1	2.12E+04	3686	5.7	1.89	3.41
i-Butane	4	TRG	58.1	2.12E+04	1073	1.6	0.41	0.98
Methanol	1	TRG	32.0	2.12E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.12E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.12E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.12E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.12E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.12E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.12E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.12E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.12E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.12E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.12E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.12E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.12E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.12E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.12E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.12E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.12E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.12E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.12E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.12E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.12E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.12E+04	3019	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.12E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.12E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.12E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.12E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.12E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.12E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.12E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.12E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.12E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.12E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.12E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.12E+04	0	4.6	0.77	2.47	
2-Methylheptane	6	TRG	84.2	2.12E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.12E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.12E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.12E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.12E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.12E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.12E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.12E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.12E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.12E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.12E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.12E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.12E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.12E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.12E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.12E+04	123565	189.8	31.63	111.73	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.12E+04	123565	189.8	189.76	124.43	
Total Volatile Organic Compoun	8	TRG	100.0	2.12E+04	0	0.0	0.00	0.00	
TPH (gasoline)	7	TRG	95.0	2.12E+04	0	0.0	0.00	0.00	
TPH (diesel)	15	TRG	198.0	2.12E+04	0	0.0	0.00	0.00	
TPH (hexane)	6	TRG	86.2	2.12E+04	0	0.0	0.00	0.00	
TPH (toluene)	7	TRG	92.1	2.12E+04	0	0.0	0.00	0.00	
TPH (methane)	1	TRG	16.0	2.12E+04	0	0.0	0.00	0.00	
TPH (Jet A Fuel)	13	TRG	177.0	2.12E+04	0	0.0	0.00	0.00	
TPH (Mineral Spirits)	8	TRG	117.8	2.12E+04	0	0.0	0.00	0.00	
C6+ (hexane)	6	TRG	86.2	2.12E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.12E+04		29.7			Sum ID
Paraffins	P	TRG	0.0	2.12E+04		15.6			Sum P
Isoparaffins	I	TRG	0.0	2.12E+04		1.6			Sum I
Aromatics	A	TRG	0.0	2.12E+04		4.6			Sum A
Napthlenes	N	TRG	0.0	2.12E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.12E+04		7.8			Sum O
Oxygenates		TRG	0.0	2.12E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.12E+04	7521	11.6	5.78	7.12	
C3 (propane)	3	TRG	44.1	2.12E+04	7703	11.8	3.94	7.13	
C4 (Butane)	4	TRG	58.1	2.12E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.12E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.12E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.12E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.12E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.12E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.12E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.12E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.12E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.12E+04	15224	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 02

File Name: 2510002A
Description: T-102
Canister: 895
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 8:50
Date Analyzed: 03/27/25 **Time:** 16:44
Can Factor: 1.24
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.24	3.73	3.83	1.43	4.30	4.41	
74-86-2	Acetylene	1.24	3.73	ND	1.33	3.98	ND	ND
74-84-0	Ethane	1.24	3.73	3.29	1.53	4.60	4.06	J
115-07-1	Propene	0.83	2.49	ND	1.43	4.29	ND	ND
74-98-6	Propane	0.83	2.49	2.75	1.50	4.50	4.98	
75-28-5	i-Butane	0.62	1.87	ND	1.48	4.44	ND	ND
106-98-9	1-Butene	0.62	1.87	2.40	1.43	4.29	5.51	
106-97-8	n-Butane	0.62	1.87	1.05	1.48	4.44	2.51	J
624-64-6	t-2-Butene	0.62	1.87	ND	1.43	4.29	ND	ND
590-18-1	c-2-Butene	0.62	1.87	ND	1.43	4.29	ND	ND
78-78-4	i-Pentane	0.50	1.49	ND	1.47	4.42	ND	ND
109-67-1	1-Pentene	0.50	1.49	ND	1.43	4.29	ND	ND
109-66-0	n-Pentane	0.50	1.49	ND	1.47	4.41	ND	ND
646-04-8	t-2-Pentene	0.50	1.49	1.14	1.43	4.29	3.29	J
627-20-3	c-2-Pentene	0.50	1.49	ND	1.43	4.29	ND	ND
75-83-2	2,2-Dimethylbutane	0.41	1.24	ND	1.46	4.39	ND	ND
142-29-0	Cyclopentene	0.50	1.49	ND	1.39	4.17	ND	ND
287-92-3	Cyclopentane	0.50	1.49	ND	1.43	4.29	ND	ND
79-29-8	2,3-Dimethylbutane	0.41	1.24	ND	1.46	4.39	ND	ND
107-83-5	2-Methylpentane	0.41	1.24	ND	1.46	4.39	ND	ND
96-14-0	3-Methylpentane	0.41	1.24	ND	1.46	4.39	ND	ND
592-41-6	1-Hexene	0.41	1.24	ND	1.43	4.29	ND	ND
110-54-3	n-Hexane	0.41	1.24	0.44	1.46	4.39	1.57	J
1120-62-3	3-Methylcyclopentene	0.41	1.24	ND	1.40	4.19	ND	ND
96-37-7	Methylcyclopentane	0.41	1.24	ND	1.43	4.29	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.07	ND	1.46	4.38	ND	ND
71-43-2	Benzene	0.41	1.24	0.72	1.33	3.98	2.29	J
110-82-7	Cyclohexane	0.41	1.24	4.20	1.43	4.29	14.49	
591-76-4	2-Methylhexane	0.36	1.07	ND	1.46	4.38	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.07	ND	1.46	4.38	ND	ND
589-34-4	3-Methylhexane	0.36	1.07	ND	1.46	4.38	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.31	0.93	ND	1.46	4.37	ND	ND
142-82-5	n-Heptane	0.36	1.07	ND	1.46	4.38	ND	ND
108-87-2	Methylcyclohexane	0.36	1.07	ND	1.43	4.29	ND	ND
592-13-2	2,5-Dimethylhexane	0.31	0.93	ND	1.46	4.37	ND	ND
589-43-5	2,4-Dimethylhexane	0.31	0.93	ND	1.46	4.37	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.31	0.93	ND	1.46	4.37	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.07	1.16	1.34	4.02	4.39	
584-94-1	2,3-Dimethylhexane	0.31	0.93	ND	1.46	4.37	ND	ND
592-27-8	2-Methylheptane	0.31	0.93	ND	1.46	4.37	ND	ND
589-53-7	4-Methylheptane	0.31	0.93	ND	1.46	4.37	ND	ND
589-81-1	3-Methylheptane	0.31	0.93	ND	1.46	4.37	ND	ND
111-65-9	n-Octane	0.31	0.93	ND	1.46	4.37	ND	ND
100-41-4	Ethylbenzene	0.31	0.93	2.33	1.35	4.06	10.13	
108-38-3	m,p-xylene	0.31	0.93	0.65	1.35	4.06	2.84	J
100-42-5	Styrene	0.31	0.93	ND	1.33	3.98	ND	ND
95-47-6	o-xylene	0.31	0.93	0.93	1.35	4.06	4.04	J
111-84-2	n-Nonane	0.28	0.83	ND	1.45	4.36	ND	ND
98-82-8	i-Propylbenzene	0.28	0.83	ND	1.36	4.09	ND	ND
103-65-1	n-propylbenzene	0.28	0.83	0.46	1.36	4.09	2.25	J
620-14-4	3-Ethyltoluene	0.28	0.83	ND	1.36	4.09	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.83	ND	1.36	4.09	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.83	ND	1.36	4.09	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.83	ND	1.36	4.09	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.83	0.46	1.36	4.09	2.24	J
124-18-5	n-Decane	0.25	0.75	0.45	1.45	4.35	2.65	J
526-73-8	1,2,3-Trimethylbenzene	0.28	0.83	ND	1.36	4.09	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.75	ND	1.37	4.10	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.75	ND	1.37	4.10	ND	ND
104-51-8	n-Butylbenzene	0.25	0.75	ND	1.37	4.10	ND	ND
1120-21-4	Undecane	0.23	0.68	ND	1.45	4.35	ND	ND
91-20-3	Naphthalene	0.25	0.75	ND	1.31	3.92	ND	ND
112-40-3	Dodecane	0.21	0.62	ND	1.45	4.34	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.33	27.99	51.54	32.96	98.87	182.08	
TNMHC - C1	Total Non-Methane Hydrocarbons	55.97	167.92	309.24	36.70	110.11	202.78	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **02**
File Name: **2510002A**
Sample ID: **T-102**
Sampled: **3/19/2025**
Received: **03/21/25**
Analyzed: **03/27/25**
QCBatch: **032725-GCK**
Can: **895**
Can Factor: **1.24**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **8:50** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **16:44** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **364105**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

		PAMS	STD	Corrected	Samp	Sample	RT	RTI	Flag	Calc	EAS
CAS#	Compound		RT	RT	RT	Area	in/out	in/out		RTI	RTI
74-85-1	Ethene		P	4.06	4.00	**4.04**	4833	NA	NA	NA		
74-86-2	Acetylene		P	4.10	4.04			NA	NA	NA		
74-84-0	Ethane		P	4.17	**4.17**	**4.11**	4154	I	I	H	200	200
115-07-1	Propene		P	5.11	5.11	**5.09**		I	I	H	288	290
74-98-6	Propane		P	5.20	**5.20**	**5.22**	5209	I	I	H	300	300
75-28-5	i-Butane		P	6.60	**6.62**						129	351
67-56-1	Methanol			8.30	8.32						129	401
106-98-9	1-Butene		P	7.29	7.31	**7.36**	6048	I	O	M	370	367
106-99-0	1,3-Butadiene			**7.48**	7.50						129	373
106-97-8	n-Butane		P	8.34	**8.34**	**8.28**	2657	I	I	H	400	400
624-64-6	t-2-Butene		P	8.75	8.69						200	410
590-18-1	c-2-Butene		P	9.63	9.57						200	431
64-17-5	Ethanol			10.85	10.80						200	461
563-45-1	3-Methyl-1-butene	6		**11.05**	11.00						200	465
67-64-1	Acetone			11.52	11.47						200	476
78-78-4	i-Pentane		P	11.37	11.32	**11.39**		I	I	H	475	473
109-67-1	1-Pentene		P	12.30	12.25	**12.30**		I	I	H	497	495
67-63-0	Isopropanol			12.65	12.60						200	504
563-46-2	2-Methyl-1-butene	9		**12.36**	12.31						200	497
109-66-0	n-Pentane		P	12.48	**12.43**	**12.43**	1236	I	I	H	500	500
78-79-5	Isoprene		P	12.55	12.50						163	503
646-04-8	t-2-Pentene		P	12.79	12.74	**12.70**	3609	I	I	H	507	510
627-20-3	c-2-Pentene		P	13.08	13.03						163	518
75-65-0	Tert butyl alcohol			**13.55**	13.50						284	526
513-35-9	2-Methyl-2-butene	13		**13.62**	13.57						284	520
75-83-2	2,2-Dimethylbutane		P	13.77	13.72						163	537
142-29-0	Cyclopentene	15		**14.61**	14.56						163	551
71-23-8	n-Propanol			**14.75**	14.70						163	558
287-92-3	Cyclopentane		P	14.88	14.83	**14.87**		I	I	H	566	567
1634-04-4	Methyl tert butyl ether			**15.00**	14.95						163	569
79-29-8	2,3-Dimethylbutane		P	15.06	15.01						163	570
107-83-5	2-Methylpentane		P	15.08	15.03	**15.07**		I	I	H	572	571
96-14-0	3-Methylpentane		P	15.55	15.50	**15.45**		I	I	H	582	583
592-41-6	1-Hexene		P	**15.80**	15.75						163	590
110-54-3	n-Hexane		P	16.17	**16.12**	**16.12**	1682	I	I	H	600	600
108-20-3	Diisopropyl ether			**16.30**	16.25						265	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.40						219	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.75						219	623
96-37-7	Methylcyclopentane		P	16.86	16.81						107	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.00	**17.05**		I	I	H	628	626
71-43-2	Benzene		P	17.87	**17.82**	**17.83**	2709	I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.10	**18.19**	15888	I	O	M	663	658
591-76-4	2-Methylhexane		P	18.38	18.34	**18.38**		I	I	H	669	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.41	**18.45**		I	I	H	671	671
589-34-4	3-Methylhexane		P	18.66	18.62	**18.61**	868	I	I	H	676	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.71						107	687
994-05-8	Tert amyl methyl ether			**18.80**	18.76						107	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.05	**19.08**		I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.37	**19.39**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.05	**20.10**		I	I	H	725	722
592-13-2	2,5-Dimethylhexane			20.35	20.31	**20.36**		I	I	H	733	734
589-43-5	2,4-Dimethylhexane			20.43	20.39	**20.42**		I	I	H	736	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.89	**20.93**		I	I	H	754	753
108-88-3	Toluene		P	21.12	**21.08**	**21.12**	5132	I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						26	763
592-27-8	2-Methylheptane		P	21.33	21.33	**21.34**		I	I	H	768	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						26	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						26	772
589-81-1	3-Methylheptane		p	21.55	21.55	**21.56**		I	I	H	775	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						26	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75	**23.72**	11737	I	I	H	856	855
108-38-3	m,p-xylene		P	23.95	23.95	**23.99**	3293	I	I	H	866	863
100-42-5	Styrene		P	24.40	24.40						-61	881
95-47-6	o-xylene		P	24.57	24.57	**24.60**	4687	I	O	M	890	886
124-11-8	1-Nonene	64		24.60	24.60						-61	889
111-84-2	n-Nonane		P	24.87	24.87	**24.86**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36	**25.38**		I	I	H	922	919
103-65-1	n-propylbenzene		P	25.93	25.93	**25.91**	2591	I	I	H	944	947
80-56-8	a-Pinene			26.09	26.09						-147	950
620-14-4	3-Ethyltoluene		P	26.17	26.17	**26.14**		I	O	M	954	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-147	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45	**26.45**		I	I	H	967	964
611-14-3	2-Ethyltoluene		P	26.61	26.61	**26.60**		I	I	H	973	975
127-91-3	b-Pinene			26.80	26.80	**26.75**	5528	I	I	H	980	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08	**27.10**	2585	I	O	M	994	991
124-18-5	n-Decane		P	27.26	27.26	**27.23**	2868	I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-35	1014
496-11-7	Indan	81		27.55	27.55						-35	1020
5989-27-5	d-Limonene			27.65	27.65	**27.64**	13666	I	I	H	1016	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10						-35	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-35	1037
104-51-8	n-Butylbenzene			28.45	28.45						-35	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-35	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-35	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-35	1060
1120-21-4	Undecane		P	29.86	29.86	**29.86**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	32.46	**32.46**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					330344		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					195024		10558			
TNMHC - C1	Total Non-Methane Hydrocarbons					195024		94903			
TVOC	Total Volatile Organic Compounds					195024		13742			
TPH(g)	TPH (gasoline)					195024		16117			
TPH(d)	TPH (diesel)					195024		0			
TPH(h)	TPH (hexane)					195024		0			
TPH(t)	TPH (toluene)					195024		0			
TPHC	TPH (methane)					195024		0			
TPH(Jet A)	TPH (Jet A Fuel)					195024		**135320**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					195024					
C6+	**C6+ (hexane)**		16.17	16.12	16.12	**0**		Sum from	16.12	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			8987		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			5209		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**14196**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	032725-GCK
Hexane Std Area:	364105
Hexane Conc.	18.05
Standard Volume:	1.00
Can Dilution Factor:	1.24
Air Volume:	200.00
Combined Factor:	1.24
Gas Constant:	24.4
Decimal Places:	2

Oxygenate Response	0.75
ND Flag:	ND
MDL Factor	1

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	7.66	3.83	4.41	7.66	3.83	4.41	4.41	4.41
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	6.59	3.29	4.06	6.59	3.29	4.06	4.06	4.06
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	8.26	2.75	4.98	8.26	2.75	4.98	4.98	4.98
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	9.59	2.40	5.51	9.59	2.40	5.51	5.51	5.51
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	4.21	1.05	2.51	4.21	1.05	2.51	2.51	2.51
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	1.96	0.39	1.16	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	5.72	1.14	3.29	5.72	1.14	3.29	3.29	3.29
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	2.67	**0.44**	1.57	2.67	0.44	1.57	1.57	1.57
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	4.30	0.72	2.29	4.30	0.72	2.29	2.29	2.29
Cyclohexane	84.2	6	25.19	4.20	14.49	25.19	4.20	14.49	14.49	14.49
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	1.38	0.20	0.81	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	8.14	1.16	4.39	8.14	1.16	4.39	4.39	4.39
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	18.61	2.33	10.13	18.61	2.33	10.13	10.13	10.13
m,p-xylene	106.2	8	5.22	0.65	2.84	5.22	0.65	2.84	2.84	2.84
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	7.43	0.93	4.04	7.43	0.93	4.04	4.04	4.04
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	4.11	0.46	2.25	4.11	0.46	2.25	2.25	2.25
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	8.77	0.88	4.89	8.77	0.88	4.89	4.89	4.89
1,2,4-Trimethylbenzene	120.2	9	4.10	0.46	2.24	4.10	0.46	2.24	2.24	2.24
n-Decane	142.3	10	4.55	0.45	2.65	4.55	0.45	2.65	2.65	2.65
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	21.67	2.17	12.10	21.67	2.17	12.10	12.10	12.10
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	309.24	51.5	182.1	309.24	51.54	182.08	182.08	182.08
Total Non-Methane Hydrocarbons	16	1.0	309.24	309.2	202.8	309.24	309.24	202.78	202.78	202.78
Total Volatile Organic Compounds	100	7.6	309.24	40.7	166.8	309.24	40.69	166.76	166.76	166.76
TPH (gasoline)	95	7.0	309.24	44.2	172.0	309.24	44.18	172.00	172.00	172.00
TPH (diesel)	198	15.0	309.24	20.6	167.3	309.24	20.62	167.29	167.29	167.29
TPH (hexane)	86.2	6.0	309.24	51.5	182.1	309.24	51.54	182.08	182.08	182.08
TPH (toluene)	92.14	7.0	309.24	44.2	166.8	309.24	44.18	166.82	166.82	166.82
TPH (methane)	16	1.0	309.24	309.2	202.8	309.24	309.24	202.78	202.78	202.78
TPH (Jet A Fuel)	177	13.0	309.24	23.8	172.6	309.24	23.79	172.56	172.56	172.56
TPH (Mineral Spirits)	117.81	8.0	309.24	38.7	186.6	309.24	38.65	186.64	186.64	186.64
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			116.9	29.9						
Paraffins			28.2							
Isoparaffins			1.4							
Aromatics			51.9							
Napthlenes			25.2							
Olefins			53.4							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	14.25	7.13	8.79	14.25	7.13	8.79	8.79	8.79
C3 (propane)	44.1	3	8.26	2.75	4.98	8.26	2.75	4.98	4.98	4.98
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			22.5							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	2.0	0.33	0.97					
Aliphatic C6-C8	100.2	7	2.7	0.38	1.56					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	4.5	0.41	2.42					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			54.8	46.9
Alkenes			23.0	19.6
Alkynes			0.0	0.0
Cycloalkanes			0.0	0.0
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			51.9	44.4
Terpenes			30.4	26.0

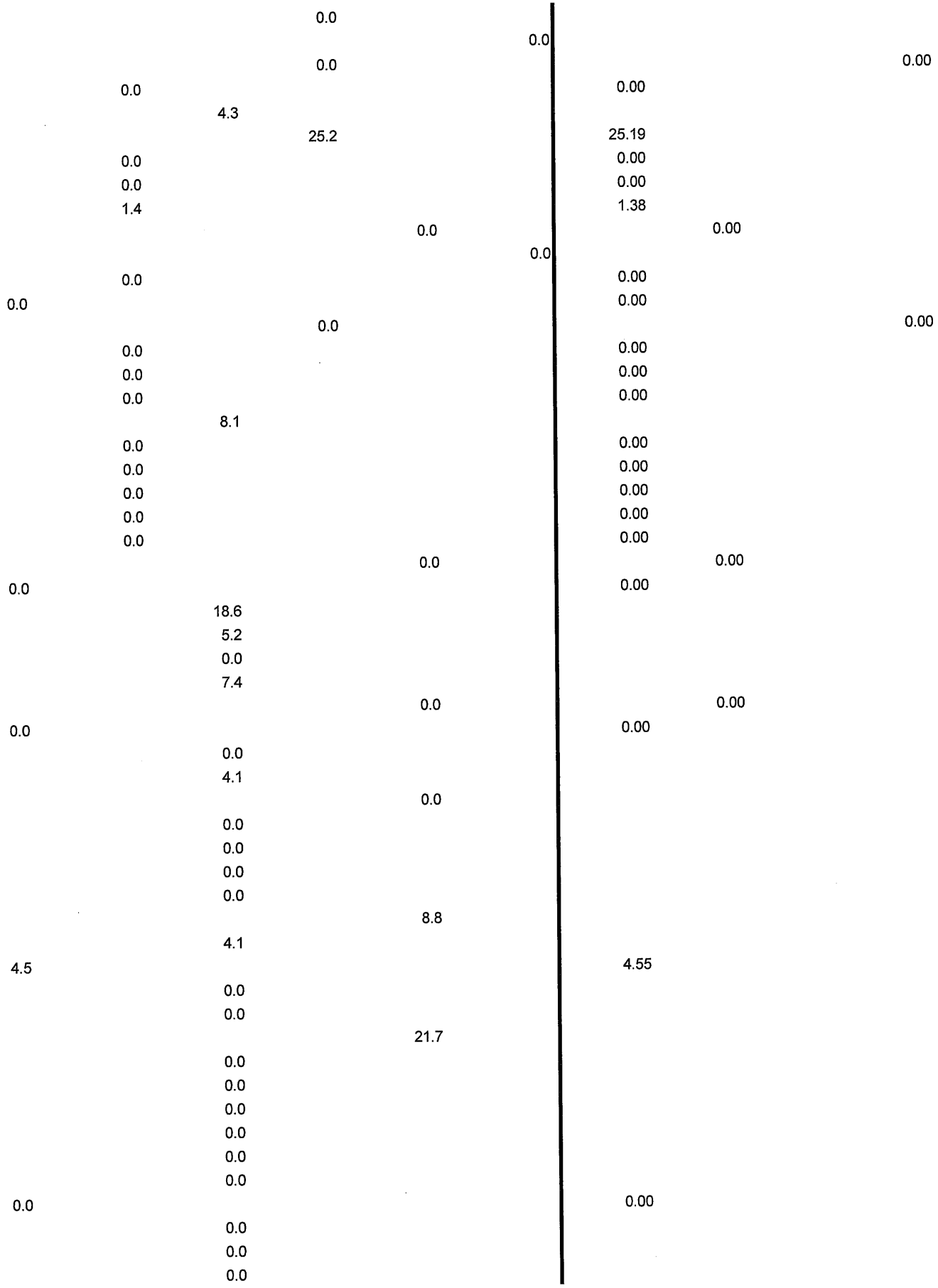
SDG: **225100**
Laboratory Number: **02**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
12.8	2.000	1.00	1.24	1.43	2.49	3.73	4.30	7.5		=		Y
0.0	2.000	1.00	1.24	1.33	2.49	3.73	3.98	7.5	U	ND		Y
11.0	2.000	1.00	1.24	1.53	2.49	3.73	4.60	7.5	J	=		Y
0.0	2.000	0.67	0.83	1.43	2.49	2.49	4.29	7.5	U	ND		Y
9.2	2.000	0.67	0.83	1.50	2.49	2.49	4.50	7.5		=		Y
0.0	2.000	0.50	0.62	1.48	2.49	1.87	4.44	7.5	U	ND		Y
0.0	2.000	2.00	2.49	3.26	2.49	7.46	9.79	7.5	U	ND		Y
8.0	2.000	0.50	0.62	1.43	2.49	1.87	4.29	7.5		=		Y
0.0	2.000	0.50	0.62	1.38	2.49	1.87	4.14	7.5	U	ND		Y
3.5	2.000	0.50	0.62	1.48	2.49	1.87	4.44	7.5	J	=		Y
0.0	2.000	0.50	0.62	1.43	2.49	1.87	4.29	7.5	U	ND		Y
0.0	2.000	0.50	0.62	1.43	2.49	1.87	4.29	7.5	U	ND		Y
0.0	2.000	1.00	1.24	2.35	2.49	3.73	7.05	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5	U	ND		Y
0.0	2.000	0.67	0.83	1.97	2.49	2.49	5.92	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.47	2.49	1.49	4.42	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5	U	ND		Y
0.0	2.000	0.67	0.83	2.04	2.49	2.49	6.13	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5	U	ND		Y
1.3	2.000	0.40	0.50	1.47	2.49	1.49	4.41	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.39	2.49	1.49	4.17	7.5	U	ND		Y
3.8	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5	J	=		Y
0.0	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5	U	ND		Y
0.0	2.000	0.50	0.62	1.89	2.49	1.87	5.67	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5	U	ND		Y
0.0	2.000	0.33	0.41	1.46	2.49	1.24	4.39	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.39	2.49	1.49	4.17	7.5	U	ND		Y
0.0	2.000	0.67	0.83	2.04	2.49	2.49	6.13	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.80	2.49	1.49	5.40	7.5	U	ND		Y
0.0	2.000	0.33	0.41	1.46	2.49	1.24	4.39	7.5	U	ND		Y
0.0	2.000	0.33	0.41	1.46	2.49	1.24	4.39	7.5	U	ND		Y
0.0	2.000	0.33	0.41	1.46	2.49	1.24	4.39	7.5	U	ND		Y
0.0	2.000	0.33	0.41	1.43	2.49	1.24	4.29	7.5	U	ND		Y
1.5	2.000	0.33	0.41	1.46	2.49	1.24	4.39	7.5	J	=		Y
0.0	2.000	0.33	0.41	1.74	2.49	1.24	5.21	7.5	U	ND		Y

0.0	2.000	0.33	0.41	1.40	2.49	1.24	4.19	7.5	U	ND	Y
0.0	2.000	0.33	0.41	1.74	2.49	1.24	5.21	7.5	U	ND	Y
0.0	2.000	0.33	0.41	1.43	2.49	1.24	4.29	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.46	2.49	1.07	4.38	7.5	U	ND	Y
2.4	2.000	0.33	0.41	1.33	2.49	1.24	3.98	7.5	J	=	Y
14.0	2.000	0.33	0.41	1.43	2.49	1.24	4.29	7.5		=	Y
0.0	2.000	0.29	0.36	1.46	2.49	1.07	4.38	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.46	2.49	1.07	4.38	7.5	U	ND	Y
0.7	2.000	0.29	0.36	1.46	2.49	1.07	4.38	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.43	2.49	1.07	4.29	7.5	U	ND	Y
0.0	2.000	0.33	0.41	1.74	2.49	1.24	5.21	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.46	2.49	1.07	4.38	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.43	2.49	1.07	4.29	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
3.9	2.000	0.29	0.36	1.34	2.49	1.07	4.02	7.5		=	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.49	0.93	4.29	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
7.8	2.000	0.25	0.31	1.35	2.49	0.93	4.06	7.5		=	Y
2.2	2.000	0.25	0.31	1.35	2.49	0.93	4.06	7.5	J	=	Y
0.0	2.000	0.25	0.31	1.33	2.49	0.93	3.98	7.5	U	ND	Y
3.1	2.000	0.25	0.31	1.35	2.49	0.93	4.06	7.5	J	=	Y
0.0	2.000	0.22	0.28	1.43	2.49	0.83	4.29	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.45	2.49	0.83	4.36	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.09	7.5	U	ND	Y
1.5	2.000	0.22	0.28	1.36	2.49	0.83	4.09	7.5	J	=	Y
0.0	2.000	0.20	0.25	1.39	2.49	0.75	4.17	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.09	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.09	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.09	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.09	7.5	U	ND	Y
2.9	2.000	0.20	0.25	1.39	2.49	0.75	4.17	7.5		=	Y
1.5	2.000	0.22	0.28	1.36	2.49	0.83	4.09	7.5	J	=	Y
1.5	2.000	0.20	0.25	1.45	2.49	0.75	4.35	7.5	J	=	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.09	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.34	2.49	0.83	4.02	7.5	U	ND	Y
7.2	2.000	0.20	0.25	1.39	2.49	0.75	4.17	7.5		=	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.10	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.10	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.10	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.10	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.10	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.10	7.5	U	ND	Y
0.0	2.000	0.18	0.23	1.45	2.49	0.68	4.35	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.10	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.10	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.31	2.49	0.75	3.92	7.5	U	ND	Y

0.0	2.000	0.17	0.21	1.45	2.49	0.62	4.34	7.5	U	ND	Y
%											Y
100.0	45.00	7.5	9.33	32.96	55.97	28.0	98.9	167.9		=	Y
100.0	45.00	45.0	55.97	36.70	55.97	167.9	110.1	167.9		=	Y
100.0	45.00	5.9	7.37	30.18	55.97	22.1	90.6	167.9		=	Y
100.0	45.00	6.4	8.00	31.13	55.97	24.0	93.4	167.9		=	Y
100.0	45.00	3.0	3.73	30.28	55.97	11.2	90.8	167.9		=	Y
100.0	45.00	7.5	9.33	32.96	55.97	28.0	98.9	167.9		=	Y
100.0	45.00	6.4	8.00	30.20	55.97	24.0	90.6	167.9		=	Y
100.0	45.00	45.0	55.97	36.70	55.97	167.9	110.1	167.9		=	Y
100.0	45.00	3.5	4.31	31.23	55.97	12.9	93.7	167.9		=	Y
100.0	45.00	5.6	7.00	33.78	55.97	21.0	101.3	167.9		=	Y
0.0	45.00	7.5	9.33	32.96	55.97	28.0	98.9	167.9	U	ND	Y
0.0	25.000	3.6	4.44	17.30	31.10	13.3	51.9	93.3	U	ND	Y
%											Y
37.8											Y
24.1											Y
1.2											Y
44.4											Y
21.5											Y
45.7											Y
0.0											Y
%											Y
63.3	5.000	2.5	3.11	3.84	6.22	9.3	11.5	18.7	J	=	Y
36.7	5.000	1.7	2.07	3.75	6.22	6.2	11.2	18.7	J	=	Y
0.0	25.000	6.3	7.77	18.52	31.10	23.3	55.6	93.3	U	ND	Y
0.0	25.000	5.0	6.22	18.39	31.10	18.7	55.2	93.3	U	ND	Y
0.0	25.000	4.2	5.18	18.31	31.10	15.5	54.9	93.3	U	ND	Y
0.0	25.000	3.6	4.44	18.24	31.10	13.3	54.7	93.3	U	ND	Y
0.0	25.000	3.1	3.89	18.19	31.10	11.7	54.6	93.3	U	ND	Y
0.0	25.000	2.8	3.46	18.16	31.10	10.4	54.5	93.3	U	ND	Y
0.0	25.000	2.5	3.11	18.14	31.10	9.3	54.4	93.3	U	ND	Y
0.0	25.000	2.3	2.83	18.11	31.10	8.5	54.3	93.3	U	ND	Y
0.0	25.000	2.1	2.59	18.09	31.10	7.8	54.3	93.3	U	ND	Y
0.0	25.000	2.1	2.59	18.09	31.10	7.8	54.3	93.3	U	ND	Y
100.0											Y
											Y
0.6	6.0	1.0	1.24	3.68	7.46	3.7	11.0	22.4			Y
0.9	6.0	0.9	1.07	4.38	7.46	3.2	13.1	22.4			Y
0.0	6.0	0.7	0.83	4.36	7.46	2.5	13.1	22.4			Y
1.5	6.0	0.5	0.68	3.97	7.46	2.0	11.9	22.4			Y
0.0	6.0	0.7	0.83	3.88	7.46	2.5	11.6	22.4			Y
0.0	6.0	0.5	0.68	3.96	7.46	2.0	11.9	22.4			Y
0.0	2.0	0.3	0.41	1.46	2.49	1.2	4.4	7.5	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					7.7		7.66		
					0.0			0.00	
	6.6					6.59			
					0.0		0.00		
	8.3					8.26			
		0.0				0.00			
					0.0				
					9.6		9.59		
					0.0		0.00		
	4.2					4.21			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		0.0				0.00			
					0.0		0.00		
					0.0				
					0.0		0.00		
	2.0					1.96			
					0.0		0.00		
					5.7		5.72		
					0.0		0.00		
					0.0				
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
					0.0				
			0.0						0.00
					0.0				
		0.0				0.00			
		0.0				0.00			
		0.0				0.00			
					0.0		0.00		
	2.7					2.67			
					0.0				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25.2
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25.19
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1.38
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0.00

0.0						0.00			
28.2	1.4	51.9	25.2	53.4	0.0	54.8	23.0	0.0	0.0

1.96	0.00		
2.67	1.38		
0.00	0.00		
4.55	0.00		
		4.55	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
0.00	0.00	0.00	0.00	0.00	0.00

0.00

0.00

4.30

0.00

8.14

18.61
5.22
0.00
7.43

0.00
4.11
0.00
0.00
0.00
0.00
0.00
8.77
4.10

0.00
0.00
21.67
0.00
0.00
0.00
0.00
0.00
0.00

0.00
0.00
0.00

0.0	0.0	0.0	0.0	51.9	30.4

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**02**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.24	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = $\text{Sum}\left|\frac{(\text{Astdni})}{(\text{Cstdni})}\right|_i$

2) ppbC = $\frac{6 \text{ Carbons} \quad \text{Ansamp} \quad \text{CDF} \quad 1000}{(\text{Avg RFn}) \quad \text{SV}}$ = **Cn**

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = $\frac{(\text{amt(ppbv)} \quad \text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.02E+04	4833	7.7	3.83	4.41
Acetylene	2	TRG	26.0	2.02E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.02E+04	4154	6.6	3.29	4.06
Propene	3	TRG	4.5	2.02E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.02E+04	5209	8.3	2.75	4.98
i-Butane	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.02E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.02E+04	6048	9.6	2.40	5.51
n-Butane	4	TRG	54.1	2.02E+04	2657	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.02E+04	0	4.2	1.05	2.51
c-2-Butene	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.02E+04	1236	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.02E+04	3609	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.02E+04	0	2.0	0.39	1.16
2,2-Dimethylbutane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.02E+04	0	5.7	1.14	3.29
2,3-Dimethylbutane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.02E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.02E+04	1682	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.02E+04	2709	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.02E+04	15888	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.02E+04	868	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.02E+04	0	2.7	0.44	1.57
Methylcyclohexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.02E+04	5132	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.02E+04	0	4.3	0.72	2.29	
2-Methylheptane	6	TRG	84.2	2.02E+04	0	25.2	4.20	14.49	
3-Methylheptane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.02E+04	11737	1.4	0.20	0.81	
m,p-xylene	7	TRG	98.2	2.02E+04	3293	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.02E+04	4687	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.02E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.02E+04	2591	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.02E+04	0	8.1	1.16	4.39	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.02E+04	5528	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.02E+04	2585	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.02E+04	2868	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.02E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.02E+04	13666	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.02E+04	0	18.6	2.33	10.13	
1,4-Diethylbenzene	8	TRG	106.2	2.02E+04	0	5.2	0.65	2.84	
n-Butylbenzene	8	TRG	104.2	2.02E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.02E+04	0	7.4	0.93	4.04	
Dodecane	9	TRG	126.2	2.02E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.02E+04	195024	309.2	51.54	182.08	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.02E+04	195024	309.2	309.24	202.78	
Total Volatile Organic Compoun	8	TRG	100.0	2.02E+04	195024	309.2	40.69	166.76	
TPH (gasoline)	7	TRG	95.0	2.02E+04	195024	309.2	44.18	172.00	
TPH (diesel)	15	TRG	198.0	2.02E+04	195024	309.2	20.62	167.29	
TPH (hexane)	6	TRG	86.2	2.02E+04	195024	309.2	51.54	182.08	
TPH (toluene)	7	TRG	92.1	2.02E+04	195024	309.2	44.18	166.82	
TPH (methane)	1	TRG	16.0	2.02E+04	195024	309.2	309.24	202.78	
TPH (Jet A Fuel)	13	TRG	177.0	2.02E+04	195024	309.2	23.79	172.56	
TPH (Mineral Spirits)	8	TRG	117.8	2.02E+04	195024	309.2	38.65	186.64	
C6+ (hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.02E+04		116.9			Sum ID
Paraffins	P	TRG	0.0	2.02E+04		28.2			Sum P
Isoparaffins	I	TRG	0.0	2.02E+04		1.4			Sum I
Aromatics	A	TRG	0.0	2.02E+04		51.9			Sum A
Napthlenes	N	TRG	0.0	2.02E+04		25.2			Sum N
Olefins	O	TRG	0.0	2.02E+04		53.4			Sum O
Oxygenates		TRG	0.0	2.02E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.02E+04	8987	14.3	7.13	8.79	
C3 (propane)	3	TRG	44.1	2.02E+04	5209	8.3	2.75	4.98	
C4 (Butane)	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.02E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.02E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.02E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.02E+04	14196	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 03

File Name: 2510003A
Description: T-103
Canister: 881
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 8:44
Date Analyzed: 03/27/25 **Time:** 17:46
Can Factor: 1.20
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.20	3.59	ND	1.38	4.13	ND	ND
74-86-2	Acetylene	1.20	3.59	ND	1.27	3.82	ND	ND
74-84-0	Ethane	1.20	3.59	1.88	1.47	4.42	2.32	J
115-07-1	Propene	0.80	2.39	ND	1.37	4.12	ND	ND
74-98-6	Propane	0.80	2.39	2.22	1.44	4.32	4.02	J
75-28-5	i-Butane	0.60	1.79	ND	1.42	4.27	ND	ND
106-98-9	1-Butene	0.60	1.79	0.93	1.37	4.12	2.13	J
106-97-8	n-Butane	0.60	1.79	ND	1.42	4.27	ND	ND
624-64-6	t-2-Butene	0.60	1.79	0.83	1.37	4.12	1.92	J
590-18-1	c-2-Butene	0.60	1.79	ND	1.37	4.12	ND	ND
78-78-4	i-Pentane	0.48	1.43	ND	1.41	4.24	ND	ND
109-67-1	1-Pentene	0.48	1.43	ND	1.37	4.12	ND	ND
109-66-0	n-Pentane	0.48	1.43	0.87	1.41	4.24	2.56	J
646-04-8	t-2-Pentene	0.48	1.43	0.85	1.37	4.12	2.45	J
627-20-3	c-2-Pentene	0.48	1.43	ND	1.37	4.12	ND	ND
75-83-2	2,2-Dimethylbutane	0.40	1.20	ND	1.41	4.22	ND	ND
142-29-0	Cyclopentene	0.48	1.43	ND	1.33	4.00	ND	ND
287-92-3	Cyclopentane	0.48	1.43	ND	1.37	4.12	ND	ND
79-29-8	2,3-Dimethylbutane	0.40	1.20	ND	1.41	4.22	ND	ND
107-83-5	2-Methylpentane	0.40	1.20	ND	1.41	4.22	ND	ND
96-14-0	3-Methylpentane	0.40	1.20	ND	1.41	4.22	ND	ND
592-41-6	1-Hexene	0.40	1.20	ND	1.37	4.12	ND	ND
110-54-3	n-Hexane	0.40	1.20	0.42	1.41	4.22	1.47	J
1120-62-3	3-Methylcyclopentene	0.40	1.20	ND	1.34	4.02	ND	ND
96-37-7	Methylcyclopentane	0.40	1.20	ND	1.37	4.12	ND	ND
108-08-7	2,4-Dimethylpentane	0.34	1.02	ND	1.40	4.21	ND	ND
71-43-2	Benzene	0.40	1.20	ND	1.28	3.83	ND	ND
110-82-7	Cyclohexane	0.40	1.20	ND	1.37	4.12	ND	ND
591-76-4	2-Methylhexane	0.34	1.02	ND	1.40	4.21	ND	ND
565-59-3	2,3-Dimethylpentane	0.34	1.02	ND	1.40	4.21	ND	ND
589-34-4	3-Methylhexane	0.34	1.02	ND	1.40	4.21	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.90	ND	1.40	4.19	ND	ND
142-82-5	n-Heptane	0.34	1.02	ND	1.40	4.21	ND	ND
108-87-2	Methylcyclohexane	0.34	1.02	ND	1.37	4.12	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.90	ND	1.40	4.19	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.90	ND	1.40	4.19	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.90	ND	1.40	4.19	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.34	1.02	ND	1.29	3.87	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.90	ND	1.40	4.19	ND	ND
592-27-8	2-Methylheptane	0.30	0.90	ND	1.40	4.19	ND	ND
589-53-7	4-Methylheptane	0.30	0.90	ND	1.40	4.19	ND	ND
589-81-1	3-Methylheptane	0.30	0.90	ND	1.40	4.19	ND	ND
111-65-9	n-Octane	0.30	0.90	ND	1.40	4.19	ND	ND
100-41-4	Ethylbenzene	0.30	0.90	ND	1.30	3.90	ND	ND
108-38-3	m,p-xylene	0.30	0.90	ND	1.30	3.90	ND	ND
100-42-5	Styrene	0.30	0.90	ND	1.28	3.83	ND	ND
95-47-6	o-xylene	0.30	0.90	ND	1.30	3.90	ND	ND
111-84-2	n-Nonane	0.27	0.80	ND	1.40	4.19	ND	ND
98-82-8	i-Propylbenzene	0.27	0.80	ND	1.31	3.92	ND	ND
103-65-1	n-propylbenzene	0.27	0.80	ND	1.31	3.92	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.80	ND	1.31	3.92	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.80	ND	1.31	3.92	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.80	ND	1.31	3.92	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.80	ND	1.31	3.92	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.80	ND	1.31	3.92	ND	ND
124-18-5	n-Decane	0.24	0.72	ND	1.39	4.18	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.80	ND	1.31	3.92	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.72	ND	1.31	3.94	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.72	ND	1.31	3.94	ND	ND
104-51-8	n-Butylbenzene	0.24	0.72	ND	1.31	3.94	ND	ND
1120-21-4	Undecane	0.22	0.65	ND	1.39	4.18	ND	ND
91-20-3	Naphthalene	0.24	0.72	ND	1.26	3.77	ND	ND
112-40-3	Dodecane	0.20	0.60	ND	1.39	4.17	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	8.96	26.89	13.18	31.66	94.99	46.56	J
TNMHC - C1	Total Non-Methane Hydrocarbons	53.78	161.33	79.08	35.26	105.79	51.86	J

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **03**
File Name: **2510003A**
Sample ID: **T-103**
Sampled: **3/19/2025**
Received: **03/21/25**
Analyzed: **03/27/25**
QCBatch: **032725-GCK**
Can: **881**
Can Factor: **1.20**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **8:44** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **17:46** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **364105**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.04	**4.03**	1345	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.08			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.15**	2474	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.09**		I	I	H	291	290
74-98-6	Propane	P	5.20	**5.20**	**5.19**	4379	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.59**						132	351
67-56-1	Methanol		8.30	8.29						132	401
106-98-9	1-Butene	P	7.29	7.28	**7.29**	2433	I	I	H	368	367
106-99-0	1,3-Butadiene		**7.48**	7.47						132	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.28**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.69	**8.61**	2191	I	I	H	408	410
590-18-1	c-2-Butene	P	9.63	9.57						202	431
64-17-5	Ethanol		10.85	10.83						202	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.03						202	465
67-64-1	Acetone		11.52	11.50						202	476
78-78-4	i-Pentane	P	11.37	11.35	**11.39**		I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.28	**12.16**		O	I	M	493	495
67-63-0	Isopropanol		12.65	12.63						202	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.34						202	497
109-66-0	n-Pentane	P	12.48	**12.46**	**12.46**	2847	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.53						163	503
646-04-8	t-2-Pentene	P	12.79	12.77	**12.79**	2794	I	I	H	509	510
627-20-3	c-2-Pentene	P	13.08	13.06						163	518
75-65-0	Tert butyl alcohol		**13.55**	13.53						282	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.60						282	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.75						163	537
142-29-0	Cyclopentene	15	**14.61**	14.59						163	551
71-23-8	n-Propanol		**14.75**	14.73						163	558
287-92-3	Cyclopentane	P	14.88	14.86	**14.87**		I	I	H	565	567
1634-04-4	Methyl tert butyl ether		**15.00**	14.98						163	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.04						163	570
107-83-5	2-Methylpentane	P	15.08	15.06	**15.07**		I	I	H	570	571
96-14-0	3-Methylpentane	P	15.55	15.53	**15.45**		I	I	H	581	583
592-41-6	1-Hexene	P	**15.80**	15.78						163	590
110-54-3	n-Hexane	P	16.17	**16.15**	**16.16**	1637	I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.29						261	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.44						215	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.79						215	623
96-37-7	Methylcyclopentane		P	16.86	16.85						100	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.04	**17.05**		I	I	H	627	626
71-43-2	Benzene		P	17.87	**17.86**	**17.83**		I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.10	**18.19**		I	O	M	663	658
591-76-4	2-Methylhexane		P	18.38	18.34	**18.38**		I	I	H	669	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.41	**18.45**		I	I	H	671	671
589-34-4	3-Methylhexane		P	18.66	18.62	**18.61**		I	I	H	676	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.71						100	687
994-05-8	Tert amyl methyl ether			**18.80**	18.76						100	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.05	**19.08**		I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.37	**19.39**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.05	**20.10**		I	I	H	725	722
592-13-2	2,5-Dimethylhexane			20.35	20.31	**20.36**		I	I	H	733	734
589-43-5	2,4-Dimethylhexane			20.43	20.39	**20.42**		I	I	H	736	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.89	**20.93**		I	I	H	754	753
108-88-3	Toluene		P	21.12	**21.08**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						26	763
592-27-8	2-Methylheptane		P	21.33	21.33	**21.34**		I	I	H	768	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						26	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						26	772
589-81-1	3-Methylheptane		p	21.55	21.55	**21.56**		I	I	H	775	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						26	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75	**23.72**		I	I	H	856	855
108-38-3	m,p-xylene		P	23.95	23.95	**23.99**		I	I	H	866	863
100-42-5	Styrene		P	24.40	24.40						-61	881
95-47-6	o-xylene		P	24.57	24.57	**24.60**		I	O	M	890	886
124-11-8	1-Nonene	64		24.60	24.60						-61	889
111-84-2	n-Nonane		P	24.87	24.87	**24.86**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36	**25.38**		I	I	H	922	919
103-65-1	n-propylbenzene		P	25.93	25.93	**25.91**		I	I	H	944	947
80-56-8	a-Pinene			26.09	26.09						-147	950
620-14-4	3-Ethyltoluene		P	26.17	26.17	**26.14**		I	O	M	954	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-147	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45	**26.45**		I	I	H	967	964
611-14-3	2-Ethyltoluene		P	26.61	26.61	**26.60**		I	I	H	973	975
127-91-3	b-Pinene			26.80	26.80	**26.75**		I	I	H	980	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08	**26.99**	1416	I	I	H	990	991
124-18-5	n-Decane		P	27.26	27.26	**27.23**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-35	1014
496-11-7	Indan	81		27.55	27.55						-35	1020
5989-27-5	d-Limonene			27.65	27.65	**27.64**		I	I	H	1016	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10	**28.00**		I	I	H	1029	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23	**28.20**		I	I	H	1037	1037
104-51-8	n-Butylbenzene			28.45	28.45						-35	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-35	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-35	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-35	1060
1120-21-4	Undecane		P	29.86	29.86	**29.86**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	32.46	**32.46**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					0		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					51911		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					51911		0			
TVOC	Total Volatile Organic Compounds					0		0			
TPH(g)	TPH (gasoline)					0		0			
TPH(d)	TPH (diesel)					0		0			
TPH(h)	TPH (hexane)					0		0			
TPH(t)	TPH (toluene)					0		0			
TPHC	TPH (methane)					0		0			
TPH(Jet A)	TPH (Jet A Fuel)					0		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					0					
C6+	**C6+ (hexane)**		16.17	16.15	16.16	**0**		Sum from	16.15	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			3819		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			4379		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**8198**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	032725-GCK		
Hexane Std Area:	364105		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.20	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.20		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	2.05	1.02	1.18	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	3.77	1.88	2.32	3.77	1.88	2.32	2.32	2.32
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	6.67	2.22	4.02	6.67	2.22	4.02	4.02	4.02
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	3.71	0.93	2.13	3.71	0.93	2.13	2.13	2.13
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	3.34	0.83	1.92	3.34	0.83	1.92	1.92	1.92
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	4.34	0.87	2.56	4.34	0.87	2.56	2.56	2.56
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	4.26	0.85	2.45	4.26	0.85	2.45	2.45	2.45
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	2.49	**0.42**	1.47	2.49	0.42	1.47	1.47	1.47
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,4-Trimethylbenzene	120.2	9	2.16	0.24	1.18	ND	ND	ND	0
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	79.08	13.2	46.6	79.08	13.18	46.56	46.56	46.56
Total Non-Methane Hydrocarbons	16	1.0	79.08	79.1	51.9	79.08	79.08	51.86	51.86	51.86
Total Volatile Organic Compounds	100	7.6	0.00	0.0	0.0	ND	ND	ND	0	
TPH (gasoline)	95	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (diesel)	198	15.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (toluene)	92.14	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (methane)	16	1.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Jet A Fuel)	177	13.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Mineral Spirits)	117.81	8.0	0.00	0.0	0.0	ND	ND	ND	0	
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			30.6	9.3						
Paraffins			17.3							
Isoparaffins			0.0							
Aromatics			2.2							
Napthlenes			0.0							
Olefins			13.3							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	5.82	2.91	3.59	ND	ND	ND	0	
C3 (propane)	44.1	3	6.67	2.22	4.02	6.67	2.22	4.02	4.02	4.02
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			12.5							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	4.3	0.72	2.14					
Aliphatic C6-C8	100.2	7	2.5	0.36	1.46					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			17.3	56.4
Alkenes			13.3	43.6
Alkynes			0.0	0.0
Cycloalkanes			0.0	0.0
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			2.2	7.0
Terpenes			0.0	0.0

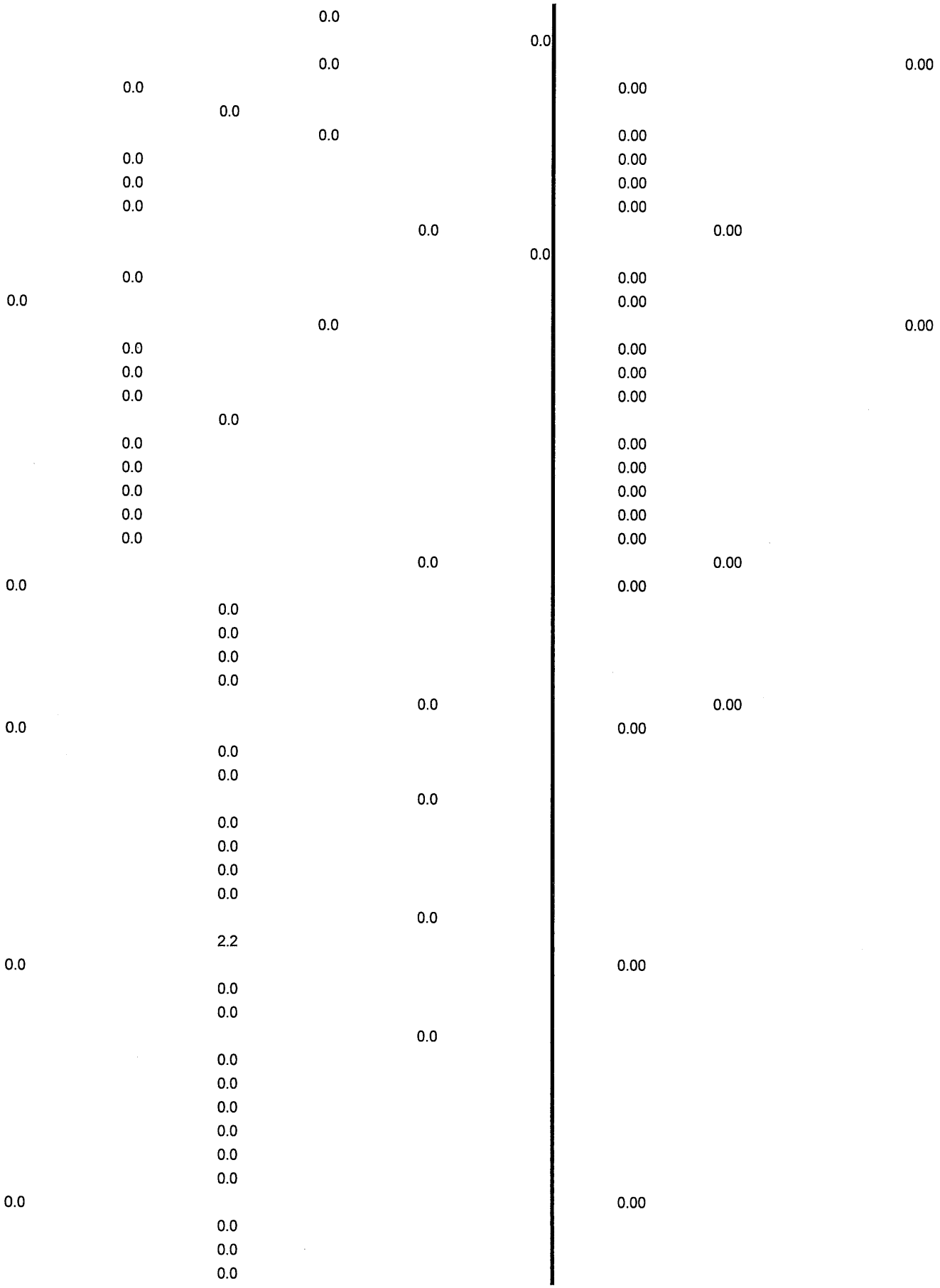
SDG: **225100**
Laboratory Number: **03**

Mole %	(1)	(2)	Calc	Calc	Calc	Calc	Calc	Calc				
Result	MDL	MDL	MDL	MDL	MDL	RL	RL	RL		Detect	EPA	Rept
%	ppbC	ppbV	ppbV	ug/m3	ppbC	ppbV	ug/m3	ppbC	Flag	Flan	Flag	Res
11.1	2.000	1.00	1.20	1.38	2.39	3.59	4.13	7.2	U	ND		Y
0.0	2.000	1.00	1.20	1.27	2.39	3.59	3.82	7.2	U	ND		Y
20.3	2.000	1.00	1.20	1.47	2.39	3.59	4.42	7.2	J	=		Y
0.0	2.000	0.67	0.80	1.37	2.39	2.39	4.12	7.2	U	ND		Y
24.0	2.000	0.67	0.80	1.44	2.39	2.39	4.32	7.2	J	=		Y
0.0	2.000	0.50	0.60	1.42	2.39	1.79	4.27	7.2	U	ND		Y
0.0	2.000	2.00	2.39	3.13	2.39	7.17	9.40	7.2	U	ND		Y
10.0	2.000	0.50	0.60	1.37	2.39	1.79	4.12	7.2	J	=		Y
0.0	2.000	0.50	0.60	1.32	2.39	1.79	3.97	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.42	2.39	1.79	4.27	7.2	U	ND		Y
9.0	2.000	0.50	0.60	1.37	2.39	1.79	4.12	7.2	J	=		Y
0.0	2.000	0.50	0.60	1.37	2.39	1.79	4.12	7.2	U	ND		Y
0.0	2.000	1.00	1.20	2.26	2.39	3.59	6.77	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.39	1.43	4.12	7.2	U	ND		Y
0.0	2.000	0.67	0.80	1.90	2.39	2.39	5.69	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.41	2.39	1.43	4.24	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.39	1.43	4.12	7.2	U	ND		Y
0.0	2.000	0.67	0.80	1.96	2.39	2.39	5.89	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.39	1.43	4.12	7.2	U	ND		Y
9.4	2.000	0.40	0.48	1.41	2.39	1.43	4.24	7.2	J	=		Y
0.0	2.000	0.40	0.48	1.33	2.39	1.43	4.00	7.2	U	ND		Y
9.2	2.000	0.40	0.48	1.37	2.39	1.43	4.12	7.2	J	=		Y
0.0	2.000	0.40	0.48	1.37	2.39	1.43	4.12	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.81	2.39	1.79	5.44	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.39	1.43	4.12	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.41	2.39	1.20	4.22	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.33	2.39	1.43	4.00	7.2	U	ND		Y
0.0	2.000	0.67	0.80	1.96	2.39	2.39	5.89	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.39	1.43	4.12	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.73	2.39	1.43	5.18	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.41	2.39	1.20	4.22	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.41	2.39	1.20	4.22	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.41	2.39	1.20	4.22	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.37	2.39	1.20	4.12	7.2	U	ND		Y
4.5	2.000	0.33	0.40	1.41	2.39	1.20	4.22	7.2	J	=		Y
0.0	2.000	0.33	0.40	1.67	2.39	1.20	5.01	7.2	U	ND		Y

0.0	2.000	0.33	0.40	1.34	2.39	1.20	4.02	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.67	2.39	1.20	5.01	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.37	2.39	1.20	4.12	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.40	2.39	1.02	4.21	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.28	2.39	1.20	3.83	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.37	2.39	1.20	4.12	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.40	2.39	1.02	4.21	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.40	2.39	1.02	4.21	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.40	2.39	1.02	4.21	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.37	2.39	1.02	4.12	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.67	2.39	1.20	5.01	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.40	2.39	0.90	4.19	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.40	2.39	1.02	4.21	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.37	2.39	1.02	4.12	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.40	2.39	0.90	4.19	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.40	2.39	0.90	4.19	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.40	2.39	0.90	4.19	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.29	2.39	1.02	3.87	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.40	2.39	0.90	4.19	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.40	2.39	0.90	4.19	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.40	2.39	0.90	4.19	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.40	2.39	0.90	4.19	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.40	2.39	0.90	4.19	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.37	2.39	0.90	4.12	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.40	2.39	0.90	4.19	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.30	2.39	0.90	3.90	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.30	2.39	0.90	3.90	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.28	2.39	0.90	3.83	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.30	2.39	0.90	3.90	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.37	2.39	0.80	4.12	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.40	2.39	0.80	4.19	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.31	2.39	0.80	3.92	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.31	2.39	0.80	3.92	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.39	0.72	4.00	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.31	2.39	0.80	3.92	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.31	2.39	0.80	3.92	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.31	2.39	0.80	3.92	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.31	2.39	0.80	3.92	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.39	0.72	4.00	7.2	U	ND	Y
2.6	2.000	0.22	0.27	1.31	2.39	0.80	3.92	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.39	2.39	0.72	4.18	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.31	2.39	0.80	3.92	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.29	2.39	0.80	3.86	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.39	0.72	4.00	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.39	0.72	3.94	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.39	0.72	3.94	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.39	0.72	3.94	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.39	0.72	3.94	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.39	0.72	3.94	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.39	0.72	3.94	7.2	U	ND	Y
0.0	2.000	0.18	0.22	1.39	2.39	0.65	4.18	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.39	0.72	3.94	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.39	0.72	3.94	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.26	2.39	0.72	3.77	7.2	U	ND	Y

0.0	2.000	0.17	0.20	1.39	2.39	0.60	4.17	7.2	U	ND	Y
%											Y
100.0	45.00	7.5	8.96	31.66	53.78	26.9	95.0	161.3	J	=	Y
100.0	45.00	45.0	53.78	35.26	53.78	161.3	105.8	161.3	J	=	Y
0.0	45.00	5.9	7.08	29.00	53.78	21.2	87.0	161.3	U	ND	Y
0.0	45.00	6.4	7.68	29.91	53.78	23.0	89.7	161.3	U	ND	Y
0.0	45.00	3.0	3.59	29.09	53.78	10.8	87.3	161.3	U	ND	Y
0.0	45.00	7.5	8.96	31.66	53.78	26.9	95.0	161.3	U	ND	Y
0.0	45.00	6.4	7.68	29.01	53.78	23.0	87.0	161.3	U	ND	Y
0.0	45.00	45.0	53.78	35.26	53.78	161.3	105.8	161.3	U	ND	Y
0.0	45.00	3.5	4.14	30.01	53.78	12.4	90.0	161.3	U	ND	Y
0.0	45.00	5.6	6.72	32.46	53.78	20.2	97.4	161.3	U	ND	Y
0.0	45.00	7.5	8.96	31.66	53.78	26.9	95.0	161.3	U	ND	Y
0.0	25.000	3.6	4.27	16.62	29.88	12.8	49.9	89.6	U	ND	Y
%											Y
38.7											Y
56.4											Y
0.0											Y
7.0											Y
0.0											Y
43.6											Y
0.0											Y
%											Y
46.6	5.000	2.5	2.99	3.69	5.98	9.0	11.1	17.9	U	ND	Y
53.4	5.000	1.7	1.99	3.60	5.98	6.0	10.8	17.9	J	=	Y
0.0	25.000	6.3	7.47	17.79	29.88	22.4	53.4	89.6	U	ND	Y
0.0	25.000	5.0	5.98	17.67	29.88	17.9	53.0	89.6	U	ND	Y
0.0	25.000	4.2	4.98	17.59	29.88	14.9	52.8	89.6	U	ND	Y
0.0	25.000	3.6	4.27	17.53	29.88	12.8	52.6	89.6	U	ND	Y
0.0	25.000	3.1	3.73	17.48	29.88	11.2	52.4	89.6	U	ND	Y
0.0	25.000	2.8	3.32	17.45	29.88	10.0	52.3	89.6	U	ND	Y
0.0	25.000	2.5	2.99	17.42	29.88	9.0	52.3	89.6	U	ND	Y
0.0	25.000	2.3	2.72	17.40	29.88	8.1	52.2	89.6	U	ND	Y
0.0	25.000	2.1	2.49	17.38	29.88	7.5	52.1	89.6	U	ND	Y
0.0	25.000	2.1	2.49	17.38	29.88	7.5	52.1	89.6	U	ND	Y
100.0											Y
											Y
5.5	6.0	1.0	1.20	3.53	7.17	3.6	10.6	21.5			Y
3.2	6.0	0.9	1.02	4.21	7.17	3.1	12.6	21.5			Y
0.0	6.0	0.7	0.80	4.19	7.17	2.4	12.6	21.5			Y
0.0	6.0	0.5	0.65	3.81	7.17	2.0	11.4	21.5			Y
0.0	6.0	0.7	0.80	3.73	7.17	2.4	11.2	21.5			Y
0.0	6.0	0.5	0.65	3.80	7.17	2.0	11.4	21.5			Y
0.0	2.0	0.3	0.40	1.41	2.39	1.2	4.2	7.2	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					2.0		2.05		
					0.0			0.00	
3.8						3.77			
					0.0		0.00		
6.7						6.67			
		0.0				0.00			
					0.0				
					3.7		3.71		
					0.0		0.00		
0.0						0.00			
					3.3		3.34		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		0.0				0.00			
					0.0		0.00		
					0.0				
					0.0		0.00		
4.3						4.34			
					0.0		0.00		
					4.3		4.26		
					0.0		0.00		
					0.0				
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
					0.0				
			0.0						0.00
					0.0				
		0.0				0.00			
		0.0				0.00			
		0.0				0.00			
					0.0		0.00		
2.5						2.49			
					0.0				


0.0
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0.0						0.00			
17.3	0.0	2.2	0.0	13.3	0.0	17.3	13.3	0.0	0.0

4.34	0.00		
2.49	0.00		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
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	0.00				
	0.00				
				0.00	
				0.00	

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0.00
0.00
0.00

0.00
0.00
0.00

0.0	0.0	0.0	0.0	2.2	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**03**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.20	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = $\frac{\text{Sum } \left|\frac{\text{(Astdni)}}{\text{(Cstdni)}}\right|_i}{}$

2) ppbC = $\frac{\text{6 Carbons} \quad \text{Ansamp} \quad \text{CDF} \quad 1000}{\text{(Avg RFn)} \quad \text{SV}}$ = **Cn**

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = $\frac{\text{(amt(ppbv)} \quad \text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.02E+04	1345	2.0	1.02	1.18
Acetylene	2	TRG	26.0	2.02E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.02E+04	2474	3.8	1.88	2.32
Propene	3	TRG	4.5	2.02E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.02E+04	4379	6.7	2.22	4.02
i-Butane	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.02E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.02E+04	2433	3.7	0.93	2.13
n-Butane	4	TRG	54.1	2.02E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.02E+04	2191	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.02E+04	0	3.3	0.83	1.92
Ethanol	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.02E+04	2847	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.02E+04	2794	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.02E+04	0	4.3	0.87	2.56
2,2-Dimethylbutane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.02E+04	0	4.3	0.85	2.45
2,3-Dimethylbutane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.02E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.02E+04	1637	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.02E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.02E+04	0	2.5	0.42	1.47
Methylcyclohexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.02E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.02E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.02E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.02E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.02E+04	1416	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.02E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.02E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.02E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.02E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.02E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.02E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.02E+04	51911	79.1	13.18	46.56	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.02E+04	51911	79.1	79.08	51.86	
Total Volatile Organic Compoun	8	TRG	100.0	2.02E+04	0	0.0	0.00	0.00	
TPH (gasoline)	7	TRG	95.0	2.02E+04	0	0.0	0.00	0.00	
TPH (diesel)	15	TRG	198.0	2.02E+04	0	0.0	0.00	0.00	
TPH (hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
TPH (toluene)	7	TRG	92.1	2.02E+04	0	0.0	0.00	0.00	
TPH (methane)	1	TRG	16.0	2.02E+04	0	0.0	0.00	0.00	
TPH (Jet A Fuel)	13	TRG	177.0	2.02E+04	0	0.0	0.00	0.00	
TPH (Mineral Spirits)	8	TRG	117.8	2.02E+04	0	0.0	0.00	0.00	
C6+ (hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.02E+04		30.6			Sum ID
Paraffins	P	TRG	0.0	2.02E+04		17.3			Sum P
Isoparaffins	I	TRG	0.0	2.02E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.02E+04		2.2			Sum A
Napthlenes	N	TRG	0.0	2.02E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.02E+04		13.3			Sum O
Oxygenates		TRG	0.0	2.02E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.02E+04	3819	5.8	2.91	3.59	
C3 (propane)	3	TRG	44.1	2.02E+04	4379	6.7	2.22	4.02	
C4 (Butane)	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.02E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.02E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.02E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.02E+04	8198	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 04

File Name: 2510004A
Description: T-104
Canister: 860
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 8:37
Date Analyzed: 03/27/25 **Time:** 18:45
Can Factor: 1.31
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.31	3.93	ND	1.51	4.53	ND	ND
74-86-2	Acetylene	1.31	3.93	ND	1.40	4.19	ND	ND
74-84-0	Ethane	1.31	3.93	6.65	1.62	4.85	8.21	
115-07-1	Propene	0.87	2.62	ND	1.51	4.52	ND	ND
74-98-6	Propane	0.87	2.62	2.79	1.58	4.73	5.05	
75-28-5	i-Butane	0.65	1.96	ND	1.56	4.68	ND	ND
106-98-9	1-Butene	0.65	1.96	2.71	1.51	4.52	6.23	
106-97-8	n-Butane	0.65	1.96	2.07	1.56	4.68	4.93	
624-64-6	t-2-Butene	0.65	1.96	ND	1.51	4.52	ND	ND
590-18-1	c-2-Butene	0.65	1.96	ND	1.51	4.52	ND	ND
78-78-4	i-Pentane	0.52	1.57	ND	1.55	4.65	ND	ND
109-67-1	1-Pentene	0.52	1.57	ND	1.51	4.52	ND	ND
109-66-0	n-Pentane	0.52	1.57	ND	1.55	4.64	ND	ND
646-04-8	t-2-Pentene	0.52	1.57	ND	1.51	4.52	ND	ND
627-20-3	c-2-Pentene	0.52	1.57	ND	1.51	4.52	ND	ND
75-83-2	2,2-Dimethylbutane	0.44	1.31	ND	1.54	4.63	ND	ND
142-29-0	Cyclopentene	0.52	1.57	ND	1.46	4.39	ND	ND
287-92-3	Cyclopentane	0.52	1.57	ND	1.51	4.52	ND	ND
79-29-8	2,3-Dimethylbutane	0.44	1.31	ND	1.54	4.63	ND	ND
107-83-5	2-Methylpentane	0.44	1.31	ND	1.54	4.63	ND	ND
96-14-0	3-Methylpentane	0.44	1.31	ND	1.54	4.63	ND	ND
592-41-6	1-Hexene	0.44	1.31	ND	1.51	4.52	ND	ND
110-54-3	n-Hexane	0.44	1.31	ND	1.54	4.63	ND	ND
1120-62-3	3-Methylcyclopentene	0.44	1.31	ND	1.47	4.41	ND	ND
96-37-7	Methylcyclopentane	0.44	1.31	ND	1.51	4.52	ND	ND
108-08-7	2,4-Dimethylpentane	0.37	1.12	0.52	1.54	4.61	2.14	J
71-43-2	Benzene	0.44	1.31	ND	1.40	4.19	ND	ND
110-82-7	Cyclohexane	0.44	1.31	ND	1.51	4.52	ND	ND
591-76-4	2-Methylhexane	0.37	1.12	ND	1.54	4.61	ND	ND
565-59-3	2,3-Dimethylpentane	0.37	1.12	ND	1.54	4.61	ND	ND
589-34-4	3-Methylhexane	0.37	1.12	ND	1.54	4.61	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.33	0.98	ND	1.53	4.60	ND	ND
142-82-5	n-Heptane	0.37	1.12	ND	1.54	4.61	ND	ND
108-87-2	Methylcyclohexane	0.37	1.12	ND	1.51	4.52	ND	ND
592-13-2	2,5-Dimethylhexane	0.33	0.98	ND	1.53	4.60	ND	ND
589-43-5	2,4-Dimethylhexane	0.33	0.98	ND	1.53	4.60	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.33	0.98	ND	1.53	4.60	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.37	1.12	ND	1.41	4.24	ND	ND
584-94-1	2,3-Dimethylhexane	0.33	0.98	ND	1.53	4.60	ND	ND
592-27-8	2-Methylheptane	0.33	0.98	ND	1.53	4.60	ND	ND
589-53-7	4-Methylheptane	0.33	0.98	ND	1.53	4.60	ND	ND
589-81-1	3-Methylheptane	0.33	0.98	ND	1.53	4.60	ND	ND
111-65-9	n-Octane	0.33	0.98	0.93	1.53	4.60	4.36	J
100-41-4	Ethylbenzene	0.33	0.98	0.75	1.43	4.28	3.27	J
108-38-3	m,p-xylene	0.33	0.98	4.23	1.43	4.28	18.40	
100-42-5	Styrene	0.33	0.98	ND	1.40	4.20	ND	ND
95-47-6	o-xylene	0.33	0.98	1.04	1.43	4.28	4.54	
111-84-2	n-Nonane	0.29	0.87	0.74	1.53	4.59	3.91	J
98-82-8	i-Propylbenzene	0.29	0.87	ND	1.43	4.30	ND	ND
103-65-1	n-propylbenzene	0.29	0.87	ND	1.43	4.30	ND	ND
620-14-4	3-Ethyltoluene	0.29	0.87	ND	1.43	4.30	ND	ND
622-96-8	4-Ethyltoluene	0.29	0.87	ND	1.43	4.30	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.29	0.87	ND	1.43	4.30	ND	ND
611-14-3	2-Ethyltoluene	0.29	0.87	ND	1.43	4.30	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	0.87	ND	1.43	4.30	ND	ND
124-18-5	n-Decane	0.26	0.79	ND	1.53	4.58	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.29	0.87	ND	1.43	4.30	ND	ND
141-93-5	1,3-Diethylbenzene	0.26	0.79	ND	1.44	4.32	ND	ND
105-05-5	1,4-Diethylbenzene	0.26	0.79	ND	1.44	4.32	ND	ND
104-51-8	n-Butylbenzene	0.26	0.79	ND	1.44	4.32	ND	ND
1120-21-4	Undecane	0.24	0.71	ND	1.53	4.58	ND	ND
91-20-3	Naphthalene	0.26	0.79	ND	1.38	4.13	ND	ND
112-40-3	Dodecane	0.22	0.65	ND	1.52	4.57	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.82	29.47	24.73	34.70	104.11	87.37	J
TNMHC - C1	Total Non-Methane Hydrocarbons	58.94	176.83	148.39	38.65	115.95	97.30	J

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **04**
File Name: **2510004A**
Sample ID: **T-104**
Sampled: **3/19/2025**
Received: **03/21/25**
Analyzed: **03/27/25**
QCBatch: **032725-GCK**
Can: **860**
Can Factor: **1.31**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **8:37** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **18:45** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **364105**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.07	**4.06**	1501	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.11			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.18**	7971	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.15**	986	I	O	M	293	290
74-98-6	Propane	P	5.20	**5.20**	**5.22**	5017	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.62**						134	351
67-56-1	Methanol		8.30	8.32						134	401
106-98-9	1-Butene	P	7.29	7.31	**7.32**	6496	I	I	H	367	367
106-99-0	1,3-Butadiene		**7.48**	7.50						134	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.36**	4960	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.77	**8.61**		O	O	L	406	410
590-18-1	c-2-Butene	P	9.63	9.65						196	431
64-17-5	Ethanol		10.85	10.83						196	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.03						196	465
67-64-1	Acetone		11.52	11.50						196	476
78-78-4	i-Pentane	P	11.37	11.35	**11.40**	1316	I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.28	**12.16**		O	I	M	493	495
67-63-0	Isopropanol		12.65	12.63						196	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.34						196	497
109-66-0	n-Pentane	P	12.48	**12.46**	**12.46**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.53						163	503
646-04-8	t-2-Pentene	P	12.79	12.77	**12.79**		I	I	H	509	510
627-20-3	c-2-Pentene	P	13.08	13.06						163	518
75-65-0	Tert butyl alcohol		**13.55**	13.53						282	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.60						282	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.75						163	537
142-29-0	Cyclopentene	15	**14.61**	14.59						163	551
71-23-8	n-Propanol		**14.75**	14.73						163	558
287-92-3	Cyclopentane	P	14.88	14.86	**14.87**		I	I	H	565	567
1634-04-4	Methyl tert butyl ether		**15.00**	14.98						163	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.04						163	570
107-83-5	2-Methylpentane	P	15.08	15.06	**15.07**		I	I	H	570	571
96-14-0	3-Methylpentane	P	15.55	15.53	**15.45**		I	I	H	581	583
592-41-6	1-Hexene	P	**15.80**	15.78						163	590
110-54-3	n-Hexane	P	16.17	**16.15**	**16.16**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.29						261	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.44						215	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.79						215	623
96-37-7	Methylcyclopentane		P	16.86	16.85						100	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.04	**17.03**	2183	I	I	H	627	626
71-43-2	Benzene		P	17.87	**17.86**	**17.83**		I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.10	**18.19**		I	O	M	663	658
591-76-4	2-Methylhexane		P	18.38	18.34	**18.38**		I	I	H	669	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.41	**18.45**		I	I	H	671	671
589-34-4	3-Methylhexane		P	18.66	18.62	**18.61**		I	I	H	676	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.71						100	687
994-05-8	Tert amyl methyl ether			**18.80**	18.76						100	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.05	**19.08**		I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.37	**19.39**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.05	**20.10**		I	I	H	724	722
592-13-2	2,5-Dimethylhexane			20.35	20.31	**20.36**		I	I	H	733	734
589-43-5	2,4-Dimethylhexane			20.43	20.39	**20.42**		I	I	H	736	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.89	**20.93**		I	I	H	753	753
108-88-3	Toluene		P	21.12	**21.08**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						28	763
592-27-8	2-Methylheptane		P	21.33	21.33	**21.34**		I	I	H	767	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						28	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						28	772
589-81-1	3-Methylheptane		p	21.55	21.55	**21.56**		I	I	H	775	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						28	786
111-65-9	n-Octane		P	22.27	22.27	**22.28**	4464	I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75	**23.83**	3600	I	O	M	860	855
108-38-3	m,p-xylene		P	23.95	23.95	**23.99**	20259	I	I	H	866	863
100-42-5	Styrene		P	24.40	24.40						-56	881
95-47-6	o-xylene		P	24.57	24.57	**24.62**	4996	I	O	M	890	886
124-11-8	1-Nonene	64		24.60	24.60						-56	889
111-84-2	n-Nonane		P	24.87	24.87	**24.88**	4006	I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36	**25.38**		I	I	H	921	919
103-65-1	n-propylbenzene		P	25.93	25.93	**25.91**		I	O	M	944	947
80-56-8	a-Pinene			26.09	26.09						-158	950
620-14-4	3-Ethyltoluene		P	26.17	26.17	**26.14**		I	O	M	953	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-158	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45	**26.45**		I	I	H	967	964
611-14-3	2-Ethyltoluene		P	26.61	26.61	**26.60**		I	I	H	973	975
127-91-3	b-Pinene			26.80	26.80	**26.75**		I	I	H	980	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08	**26.99**		I	I	H	990	991
124-18-5	n-Decane		P	27.26	27.26	**27.23**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-35	1014
496-11-7	Indan	81		27.55	27.55						-35	1020
5989-27-5	d-Limonene			27.65	27.65	**27.64**		I	I	H	1016	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10	**28.00**		I	I	H	1029	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23	**28.20**		I	I	H	1037	1037
104-51-8	n-Butylbenzene			28.45	28.45						-35	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-35	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-35	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-35	1060
1120-21-4	Undecane		P	29.86	29.86	**29.86**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	32.46	**32.46**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					109128		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					88869		20259			
TNMHC - C1	Total Non-Methane Hydrocarbons					88869		0			
TVOC	Total Volatile Organic Compounds					88869		0			
TPH(g)	TPH (gasoline)					88869		0			
TPH(d)	TPH (diesel)					88869		0			
TPH(h)	TPH (hexane)					88869		0			
TPH(t)	TPH (toluene)					88869		0			
TPHC	TPH (methane)					88869		0			
TPH(Jet A)	TPH (Jet A Fuel)					88869		**20259**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					88869					
C6+	**C6+ (hexane)**		16.17	16.15	16.16	**0**		Sum from	16.15	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			9472		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			6003		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**15475**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	032725-GCK		
Hexane Std Area:	364105		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.31	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.31		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	2.51	1.25	1.44	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	13.31	6.65	8.21	13.31	6.65	8.21	8.21	8.21
Propene	42.1	3	1.65	0.55	0.95	ND	ND	ND	0	
Propane	44.1	3	8.38	2.79	5.05	8.38	2.79	5.05	5.05	5.05
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	10.85	2.71	6.23	10.85	2.71	6.23	6.23	6.23
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	8.28	2.07	4.93	8.28	2.07	4.93	4.93	4.93
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	2.20	0.44	1.30	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	3.64	0.52	2.14	3.64	0.52	2.14	2.14	2.14
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	7.45	0.93	4.36	7.45	0.93	4.36	4.36	4.36
Ethylbenzene	106.2	8	6.01	0.75	3.27	6.01	0.75	3.27	3.27	3.27
m,p-xylene	106.2	8	33.83	4.23	18.40	33.83	4.23	18.40	18.40	18.40
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	8.34	1.04	4.54	8.34	1.04	4.54	4.54	4.54
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	6.69	0.74	3.91	6.69	0.74	3.91	3.91	3.91
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	148.39	24.7	87.4	148.39	24.73	87.37	87.37	87.37
Total Non-Methane Hydrocarbons	16	1.0	148.39	148.4	97.3	148.39	148.39	97.30	97.30	97.30
Total Volatile Organic Compounds	100	7.6	148.39	19.5	80.0	148.39	19.52	80.02	80.02	80.02
TPH (gasoline)	95	7.0	148.39	21.2	82.5	148.39	21.20	82.53	82.53	82.53
TPH (diesel)	198	15.0	148.39	9.9	80.3	148.39	9.89	80.27	80.27	80.27
TPH (hexane)	86.2	6.0	148.39	24.7	87.4	148.39	24.73	87.37	87.37	87.37
TPH (toluene)	92.14	7.0	148.39	21.2	80.0	148.39	21.20	80.05	80.05	80.05
TPH (methane)	16	1.0	148.39	148.4	97.3	148.39	148.39	97.30	97.30	97.30
TPH (Jet A Fuel)	177	13.0	148.39	11.4	82.8	148.39	11.41	82.80	82.80	82.80
TPH (Mineral Spirits)	117.81	8.0	148.39	18.5	89.6	148.39	18.55	89.56	89.56	89.56
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			106.4	24.7						
Paraffins			44.1							
Isoparaffins			5.8							
Aromatics			48.2							
Napthlenes			0.0							
Olefins			15.0							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	15.82	7.91	9.76	15.82	7.91	9.76	9.76	9.76
C3 (propane)	44.1	3	10.02	3.34	6.04	10.02	3.34	6.04	6.04	6.04
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			25.8							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	7.5	1.06	4.37					
Aliphatic C8-C10	128.3	9	6.7	0.74	3.91					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			50.0	46.9
Alkenes			15.0	14.1
Alkynes			0.0	0.0
Cycloalkanes			0.0	0.0
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			48.2	45.3
Terpenes			0.0	0.0

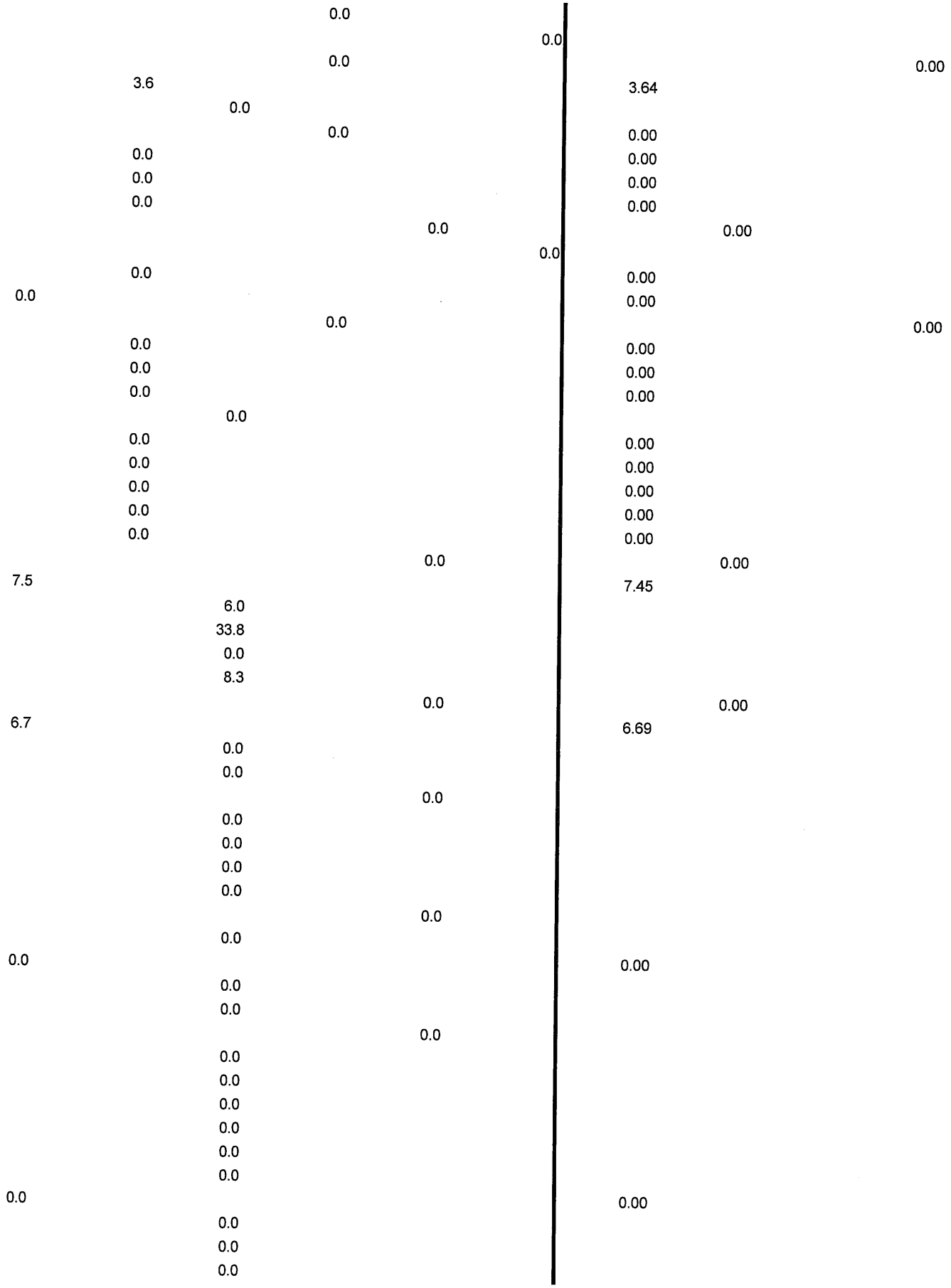
SDG: 225100
Laboratory Number: 04

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
5.1	2.000	1.00	1.31	1.51	2.62	3.93	4.53	7.9	U	ND		Y
0.0	2.000	1.00	1.31	1.40	2.62	3.93	4.19	7.9	U	ND		Y
27.0	2.000	1.00	1.31	1.62	2.62	3.93	4.85	7.9		=		Y
2.2	2.000	0.67	0.87	1.51	2.62	2.62	4.52	7.9	U	ND		Y
11.3	2.000	0.67	0.87	1.58	2.62	2.62	4.73	7.9		=		Y
0.0	2.000	0.50	0.65	1.56	2.62	1.96	4.68	7.9	U	ND		Y
0.0	2.000	2.00	2.62	3.44	2.62	7.86	10.31	7.9	U	ND		Y
11.0	2.000	0.50	0.65	1.51	2.62	1.96	4.52	7.9		=		Y
0.0	2.000	0.50	0.65	1.45	2.62	1.96	4.36	7.9	U	ND		Y
8.4	2.000	0.50	0.65	1.56	2.62	1.96	4.68	7.9		=		Y
0.0	2.000	0.50	0.65	1.51	2.62	1.96	4.52	7.9	U	ND		Y
0.0	2.000	0.50	0.65	1.51	2.62	1.96	4.52	7.9	U	ND		Y
0.0	2.000	1.00	1.31	2.47	2.62	3.93	7.42	7.9	U	ND		Y
0.0	2.000	0.40	0.52	1.51	2.62	1.57	4.52	7.9	U	ND		Y
0.0	2.000	0.67	0.87	2.08	2.62	2.62	6.24	7.9	U	ND		Y
1.8	2.000	0.40	0.52	1.55	2.62	1.57	4.65	7.9	U	ND		Y
0.0	2.000	0.40	0.52	1.51	2.62	1.57	4.52	7.9	U	ND		Y
0.0	2.000	0.67	0.87	2.15	2.62	2.62	6.45	7.9	U	ND		Y
0.0	2.000	0.40	0.52	1.51	2.62	1.57	4.52	7.9	U	ND		Y
0.0	2.000	0.40	0.52	1.55	2.62	1.57	4.64	7.9	U	ND		Y
0.0	2.000	0.40	0.52	1.46	2.62	1.57	4.39	7.9	U	ND		Y
0.0	2.000	0.40	0.52	1.51	2.62	1.57	4.52	7.9	U	ND		Y
0.0	2.000	0.40	0.52	1.51	2.62	1.57	4.52	7.9	U	ND		Y
0.0	2.000	0.50	0.65	1.99	2.62	1.96	5.97	7.9	U	ND		Y
0.0	2.000	0.40	0.52	1.51	2.62	1.57	4.52	7.9	U	ND		Y
0.0	2.000	0.33	0.44	1.54	2.62	1.31	4.63	7.9	U	ND		Y
0.0	2.000	0.40	0.52	1.46	2.62	1.57	4.39	7.9	U	ND		Y
0.0	2.000	0.67	0.87	2.15	2.62	2.62	6.45	7.9	U	ND		Y
0.0	2.000	0.40	0.52	1.51	2.62	1.57	4.52	7.9	U	ND		Y
0.0	2.000	0.40	0.52	1.89	2.62	1.57	5.68	7.9	U	ND		Y
0.0	2.000	0.33	0.44	1.54	2.62	1.31	4.63	7.9	U	ND		Y
0.0	2.000	0.33	0.44	1.54	2.62	1.31	4.63	7.9	U	ND		Y
0.0	2.000	0.33	0.44	1.54	2.62	1.31	4.63	7.9	U	ND		Y
0.0	2.000	0.33	0.44	1.51	2.62	1.31	4.52	7.9	U	ND		Y
0.0	2.000	0.33	0.44	1.54	2.62	1.31	4.63	7.9	U	ND		Y
0.0	2.000	0.33	0.44	1.83	2.62	1.31	5.49	7.9	U	ND		Y

0.0	2.000	0.33	0.44	1.47	2.62	1.31	4.41	7.9	U	ND	Y
0.0	2.000	0.33	0.44	1.83	2.62	1.31	5.49	7.9	U	ND	Y
0.0	2.000	0.33	0.44	1.51	2.62	1.31	4.52	7.9	U	ND	Y
2.1	2.000	0.29	0.37	1.54	2.62	1.12	4.61	7.9	J	=	Y
0.0	2.000	0.33	0.44	1.40	2.62	1.31	4.19	7.9	U	ND	Y
0.0	2.000	0.33	0.44	1.51	2.62	1.31	4.52	7.9	U	ND	Y
0.0	2.000	0.29	0.37	1.54	2.62	1.12	4.61	7.9	U	ND	Y
0.0	2.000	0.29	0.37	1.54	2.62	1.12	4.61	7.9	U	ND	Y
0.0	2.000	0.29	0.37	1.54	2.62	1.12	4.61	7.9	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.62	1.12	4.52	7.9	U	ND	Y
0.0	2.000	0.33	0.44	1.83	2.62	1.31	5.49	7.9	U	ND	Y
0.0	2.000	0.25	0.33	1.53	2.62	0.98	4.60	7.9	U	ND	Y
0.0	2.000	0.29	0.37	1.54	2.62	1.12	4.61	7.9	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.62	1.12	4.52	7.9	U	ND	Y
0.0	2.000	0.25	0.33	1.53	2.62	0.98	4.60	7.9	U	ND	Y
0.0	2.000	0.25	0.33	1.53	2.62	0.98	4.60	7.9	U	ND	Y
0.0	2.000	0.25	0.33	1.53	2.62	0.98	4.60	7.9	U	ND	Y
0.0	2.000	0.29	0.37	1.41	2.62	1.12	4.24	7.9	U	ND	Y
0.0	2.000	0.25	0.33	1.53	2.62	0.98	4.60	7.9	U	ND	Y
0.0	2.000	0.25	0.33	1.53	2.62	0.98	4.60	7.9	U	ND	Y
0.0	2.000	0.25	0.33	1.53	2.62	0.98	4.60	7.9	U	ND	Y
0.0	2.000	0.25	0.33	1.53	2.62	0.98	4.60	7.9	U	ND	Y
0.0	2.000	0.25	0.33	1.53	2.62	0.98	4.60	7.9	U	ND	Y
0.0	2.000	0.25	0.33	1.51	2.62	0.98	4.52	7.9	U	ND	Y
3.8	2.000	0.25	0.33	1.53	2.62	0.98	4.60	7.9	J	=	Y
3.0	2.000	0.25	0.33	1.43	2.62	0.98	4.28	7.9	J	=	Y
17.1	2.000	0.25	0.33	1.43	2.62	0.98	4.28	7.9		=	Y
0.0	2.000	0.25	0.33	1.40	2.62	0.98	4.20	7.9	U	ND	Y
4.2	2.000	0.25	0.33	1.43	2.62	0.98	4.28	7.9		=	Y
0.0	2.000	0.22	0.29	1.51	2.62	0.87	4.52	7.9	U	ND	Y
3.0	2.000	0.22	0.29	1.53	2.62	0.87	4.59	7.9	J	=	Y
0.0	2.000	0.22	0.29	1.43	2.62	0.87	4.30	7.9	U	ND	Y
0.0	2.000	0.22	0.29	1.43	2.62	0.87	4.30	7.9	U	ND	Y
0.0	2.000	0.20	0.26	1.46	2.62	0.79	4.39	7.9	U	ND	Y
0.0	2.000	0.22	0.29	1.43	2.62	0.87	4.30	7.9	U	ND	Y
0.0	2.000	0.22	0.29	1.43	2.62	0.87	4.30	7.9	U	ND	Y
0.0	2.000	0.22	0.29	1.43	2.62	0.87	4.30	7.9	U	ND	Y
0.0	2.000	0.22	0.29	1.43	2.62	0.87	4.30	7.9	U	ND	Y
0.0	2.000	0.20	0.26	1.46	2.62	0.79	4.39	7.9	U	ND	Y
0.0	2.000	0.22	0.29	1.43	2.62	0.87	4.30	7.9	U	ND	Y
0.0	2.000	0.20	0.26	1.53	2.62	0.79	4.58	7.9	U	ND	Y
0.0	2.000	0.22	0.29	1.43	2.62	0.87	4.30	7.9	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.62	0.87	4.23	7.9	U	ND	Y
0.0	2.000	0.20	0.26	1.46	2.62	0.79	4.39	7.9	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.62	0.79	4.32	7.9	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.62	0.79	4.32	7.9	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.62	0.79	4.32	7.9	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.62	0.79	4.32	7.9	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.62	0.79	4.32	7.9	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.62	0.79	4.32	7.9	U	ND	Y
0.0	2.000	0.18	0.24	1.53	2.62	0.71	4.58	7.9	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.62	0.79	4.32	7.9	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.62	0.79	4.32	7.9	U	ND	Y
0.0	2.000	0.20	0.26	1.38	2.62	0.79	4.13	7.9	U	ND	Y

0.0	2.000	0.17	0.22	1.52	2.62	0.65	4.57	7.9	U	ND	Y
%											Y
100.0	45.00	7.5	9.82	34.70	58.94	29.5	104.1	176.8	J	=	Y
100.0	45.00	45.0	58.94	38.65	58.94	176.8	116.0	176.8	J	=	Y
100.0	45.00	5.9	7.76	31.78	58.94	23.3	95.4	176.8	J	=	Y
100.0	45.00	6.4	8.42	32.78	58.94	25.3	98.4	176.8	J	=	Y
100.0	45.00	3.0	3.93	31.89	58.94	11.8	95.7	176.8	J	=	Y
100.0	45.00	7.5	9.82	34.70	58.94	29.5	104.1	176.8	J	=	Y
100.0	45.00	6.4	8.42	31.80	58.94	25.3	95.4	176.8	J	=	Y
100.0	45.00	45.0	58.94	38.65	58.94	176.8	116.0	176.8	J	=	Y
100.0	45.00	3.5	4.53	32.89	58.94	13.6	98.7	176.8	J	=	Y
100.0	45.00	5.6	7.37	35.57	58.94	22.1	106.7	176.8	J	=	Y
0.0	45.00	7.5	9.82	34.70	58.94	29.5	104.1	176.8	U	ND	Y
0.0	25.000	3.6	4.68	18.21	32.75	14.0	54.6	98.2	U	ND	Y
%											Y
71.7											Y
41.4											Y
5.5											Y
45.3											Y
0.0											Y
14.1											Y
0.0											Y
%											Y
61.2	5.000	2.5	3.27	4.04	6.55	9.8	12.1	19.6	J	=	Y
38.8	5.000	1.7	2.18	3.95	6.55	6.5	11.8	19.6	J	=	Y
0.0	25.000	6.3	8.19	19.50	32.75	24.6	58.5	98.2	U	ND	Y
0.0	25.000	5.0	6.55	19.37	32.75	19.6	58.1	98.2	U	ND	Y
0.0	25.000	4.2	5.46	19.28	32.75	16.4	57.8	98.2	U	ND	Y
0.0	25.000	3.6	4.68	19.21	32.75	14.0	57.6	98.2	U	ND	Y
0.0	25.000	3.1	4.09	19.16	32.75	12.3	57.5	98.2	U	ND	Y
0.0	25.000	2.8	3.64	19.13	32.75	10.9	57.4	98.2	U	ND	Y
0.0	25.000	2.5	3.27	19.10	32.75	9.8	57.3	98.2	U	ND	Y
0.0	25.000	2.3	2.98	19.07	32.75	8.9	57.2	98.2	U	ND	Y
0.0	25.000	2.1	2.73	19.05	32.75	8.2	57.1	98.2	U	ND	Y
0.0	25.000	2.1	2.73	19.05	32.75	8.2	57.1	98.2	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.31	3.87	7.86	3.9	11.6	23.6			Y
5.0	6.0	0.9	1.12	4.61	7.86	3.4	13.8	23.6			Y
4.5	6.0	0.7	0.87	4.59	7.86	2.6	13.8	23.6			Y
0.0	6.0	0.5	0.71	4.18	7.86	2.1	12.5	23.6			Y
0.0	6.0	0.7	0.87	4.09	7.86	2.6	12.3	23.6			Y
0.0	6.0	0.5	0.71	4.17	7.86	2.1	12.5	23.6			Y
0.0	2.0	0.3	0.44	1.54	2.62	1.3	4.6	7.9	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					2.5		2.51		
					0.0			0.00	
13.3						13.31			
					1.6		1.65		
8.4						8.38			
		0.0				0.00			
					0.0				
					10.8		10.85		
					0.0		0.00		
8.3						8.28			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		2.2				2.20			
					0.0		0.00		
					0.0				
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
					0.0				
			0.0						0.00
					0.0				
		0.0				0.00			
		0.0				0.00			
		0.0				0.00			
					0.0		0.00		
0.0						0.00			
					0.0				


0.0
0.0
0.0
3.6
0.0
0.0
0.0

0.0						0.00			
44.1	5.8	48.2	0.0	15.0	0.0	50.0	15.0	0.0	0.0

0.00	0.00	
7.45	3.64	
6.69	0.00	
0.00	0.00	
		6.69
		0.00

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
	0.00				
	0.00				
	0.00				
				0.00	
				0.00	

0.00

0.00

0.00

0.00

0.00

6.01
33.83
0.00
8.34

0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00

0.00
0.00
0.00
0.00
0.00
0.00
0.00

0.00
0.00
0.00

0.0	0.0	0.0	0.0	48.2	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**04**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.31	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.02E+04	1501	2.5	1.25	1.44
Acetylene	2	TRG	26.0	2.02E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.02E+04	7971	13.3	6.65	8.21
Propene	3	TRG	4.5	2.02E+04	4	1.6	0.55	0.95
Propane	3	TRG	44.1	2.02E+04	5017	8.4	2.79	5.05
i-Butane	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.02E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.02E+04	6496	10.8	2.71	6.23
n-Butane	4	TRG	54.1	2.02E+04	4960	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.02E+04	0	8.3	2.07	4.93
c-2-Butene	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.02E+04	1316	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.02E+04	0	2.2	0.44	1.30
n-Pentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.02E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.02E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.02E+04	2183	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.02E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.02E+04	0	3.6	0.52	2.14	
2,3-Dimethylhexane	6	TRG	78.1	2.02E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.02E+04	4464	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.02E+04	3600	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.02E+04	20259	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.02E+04	4996	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.02E+04	4006	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.02E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.02E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.02E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.02E+04	0	7.5	0.93	4.36	
1,3-Diethylbenzene	8	TRG	106.2	2.02E+04	0	6.0	0.75	3.27	
1,4-Diethylbenzene	8	TRG	106.2	2.02E+04	0	33.8	4.23	18.40	
n-Butylbenzene	8	TRG	104.2	2.02E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.02E+04	0	8.3	1.04	4.54	
Dodecane	9	TRG	126.2	2.02E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.02E+04	88869	148.4	24.73	87.37	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.02E+04	88869	148.4	148.39	97.30	
Total Volatile Organic Compoun	8	TRG	100.0	2.02E+04	88869	148.4	19.52	80.02	
TPH (gasoline)	7	TRG	95.0	2.02E+04	88869	148.4	21.20	82.53	
TPH (diesel)	15	TRG	198.0	2.02E+04	88869	148.4	9.89	80.27	
TPH (hexane)	6	TRG	86.2	2.02E+04	88869	148.4	24.73	87.37	
TPH (toluene)	7	TRG	92.1	2.02E+04	88869	148.4	21.20	80.05	
TPH (methane)	1	TRG	16.0	2.02E+04	88869	148.4	148.39	97.30	
TPH (Jet A Fuel)	13	TRG	177.0	2.02E+04	88869	148.4	11.41	82.80	
TPH (Mineral Spirits)	8	TRG	117.8	2.02E+04	88869	148.4	18.55	89.56	
C6+ (hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.02E+04		106.4			Sum ID
Paraffins	P	TRG	0.0	2.02E+04		44.1			Sum P
Isoparaffins	I	TRG	0.0	2.02E+04		5.8			Sum I
Aromatics	A	TRG	0.0	2.02E+04		48.2			Sum A
Napthlenes	N	TRG	0.0	2.02E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.02E+04		15.0			Sum O
Oxygenates		TRG	0.0	2.02E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.02E+04	9472	15.8	7.91	9.76	
C3 (propane)	3	TRG	44.1	2.02E+04	6003	10.0	3.34	6.04	
C4 (Butane)	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.02E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.02E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.02E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.02E+04	15475	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 05

File Name: 2510005A
Description: T-105
Canister: 685
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 10:16
Date Analyzed: 03/27/25 **Time:** 19:41
Can Factor: 1.23
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.23	3.68	ND	1.41	4.24	ND	ND
74-86-2	Acetylene	1.23	3.68	ND	1.31	3.92	ND	ND
74-84-0	Ethane	1.23	3.68	4.53	1.51	4.54	5.58	
115-07-1	Propene	0.82	2.45	ND	1.41	4.23	ND	ND
74-98-6	Propane	0.82	2.45	1.95	1.48	4.43	3.53	J
75-28-5	i-Butane	0.61	1.84	ND	1.46	4.38	ND	ND
106-98-9	1-Butene	0.61	1.84	2.64	1.41	4.23	6.07	
106-97-8	n-Butane	0.61	1.84	ND	1.46	4.38	ND	ND
624-64-6	t-2-Butene	0.61	1.84	ND	1.41	4.23	ND	ND
590-18-1	c-2-Butene	0.61	1.84	ND	1.41	4.23	ND	ND
78-78-4	i-Pentane	0.49	1.47	ND	1.45	4.36	ND	ND
109-67-1	1-Pentene	0.49	1.47	ND	1.41	4.23	ND	ND
109-66-0	n-Pentane	0.49	1.47	ND	1.45	4.35	ND	ND
646-04-8	t-2-Pentene	0.49	1.47	0.90	1.41	4.23	2.58	J
627-20-3	c-2-Pentene	0.49	1.47	ND	1.41	4.23	ND	ND
75-83-2	2,2-Dimethylbutane	0.41	1.23	ND	1.44	4.33	ND	ND
142-29-0	Cyclopentene	0.49	1.47	ND	1.37	4.11	ND	ND
287-92-3	Cyclopentane	0.49	1.47	ND	1.41	4.23	ND	ND
79-29-8	2,3-Dimethylbutane	0.41	1.23	ND	1.44	4.33	ND	ND
107-83-5	2-Methylpentane	0.41	1.23	ND	1.44	4.33	ND	ND
96-14-0	3-Methylpentane	0.41	1.23	0.64	1.44	4.33	2.25	J
592-41-6	1-Hexene	0.41	1.23	ND	1.41	4.23	ND	ND
110-54-3	n-Hexane	0.41	1.23	ND	1.44	4.33	ND	ND
1120-62-3	3-Methylcyclopentene	0.41	1.23	ND	1.38	4.13	ND	ND
96-37-7	Methylcyclopentane	0.41	1.23	ND	1.41	4.23	ND	ND
108-08-7	2,4-Dimethylpentane	0.35	1.05	ND	1.44	4.32	ND	ND
71-43-2	Benzene	0.41	1.23	6.64	1.31	3.93	21.24	
110-82-7	Cyclohexane	0.41	1.23	ND	1.41	4.23	ND	ND
591-76-4	2-Methylhexane	0.35	1.05	ND	1.44	4.32	ND	ND
565-59-3	2,3-Dimethylpentane	0.35	1.05	ND	1.44	4.32	ND	ND
589-34-4	3-Methylhexane	0.35	1.05	ND	1.44	4.32	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.31	0.92	ND	1.44	4.31	ND	ND
142-82-5	n-Heptane	0.35	1.05	0.93	1.44	4.32	3.81	J
108-87-2	Methylcyclohexane	0.35	1.05	ND	1.41	4.23	ND	ND
592-13-2	2,5-Dimethylhexane	0.31	0.92	ND	1.44	4.31	ND	ND
589-43-5	2,4-Dimethylhexane	0.31	0.92	ND	1.44	4.31	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.31	0.92	0.35	1.44	4.31	1.64	J

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.05	2.04	1.32	3.97	7.72	
584-94-1	2,3-Dimethylhexane	0.31	0.92	ND	1.44	4.31	ND	ND
592-27-8	2-Methylheptane	0.31	0.92	ND	1.44	4.31	ND	ND
589-53-7	4-Methylheptane	0.31	0.92	ND	1.44	4.31	ND	ND
589-81-1	3-Methylheptane	0.31	0.92	ND	1.44	4.31	ND	ND
111-65-9	n-Octane	0.31	0.92	0.54	1.44	4.31	2.52	J
100-41-4	Ethylbenzene	0.31	0.92	0.97	1.33	4.00	4.22	
108-38-3	m,p-xylene	0.31	0.92	2.16	1.33	4.00	9.40	
100-42-5	Styrene	0.31	0.92	ND	1.31	3.93	ND	ND
95-47-6	o-xylene	0.31	0.92	0.70	1.33	4.00	3.07	J
111-84-2	n-Nonane	0.27	0.82	0.41	1.43	4.30	2.16	J
98-82-8	i-Propylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
103-65-1	n-propylbenzene	0.27	0.82	0.33	1.34	4.03	1.63	J
620-14-4	3-Ethyltoluene	0.27	0.82	ND	1.34	4.03	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.82	ND	1.34	4.03	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.82	0.46	1.34	4.03	2.25	J
611-14-3	2-Ethyltoluene	0.27	0.82	ND	1.34	4.03	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.82	0.78	1.34	4.03	3.84	J
124-18-5	n-Decane	0.25	0.74	0.98	1.43	4.29	5.71	
526-73-8	1,2,3-Trimethylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.74	ND	1.35	4.05	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.74	ND	1.35	4.05	ND	ND
104-51-8	n-Butylbenzene	0.25	0.74	ND	1.35	4.05	ND	ND
1120-21-4	Undecane	0.22	0.67	ND	1.43	4.29	ND	ND
91-20-3	Naphthalene	0.25	0.74	ND	1.29	3.87	ND	ND
112-40-3	Dodecane	0.20	0.61	ND	1.43	4.28	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.20	27.60	33.89	32.50	97.51	119.74	
TNMHC - C1	Total Non-Methane Hydrocarbons	55.20	165.61	203.36	36.20	108.59	133.35	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **05**
File Name: **2510005A**
Sample ID: **T-105**
Sampled: **3/19/2025**
Received: **03/21/25**
Analyzed: **03/27/25**
QCBatch: **032725-GCK**
Can: **685**
Can Factor: **1.23**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **10:16** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **19:41** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **364105**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C5 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.05	**4.06**		NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.09			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.16**	5789	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.15**		I	I	H	293	290
74-98-6	Propane	P	5.20	**5.20**	**5.23**	3749	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.63**						133	351
67-56-1	Methanol		8.30	8.33						133	401
106-98-9	1-Butene	P	7.29	7.32	**7.31**	6752	I	I	H	367	367
106-99-0	1,3-Butadiene		**7.48**	7.51						133	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.36**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.77	**8.61**		O	O	L	406	410
590-18-1	c-2-Butene	P	9.63	9.65						196	431
64-17-5	Ethanol		10.85	10.83						196	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.03						196	465
67-64-1	Acetone		11.52	11.50						196	476
78-78-4	i-Pentane	P	11.37	11.35	**11.40**		I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.28	**12.18**		O	I	M	493	495
67-63-0	Isopropanol		12.65	12.63						196	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.34						196	497
109-66-0	n-Pentane	P	12.48	**12.46**	**12.46**	1041	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.53						162	503
646-04-8	t-2-Pentene	P	12.79	12.77	**12.81**	2867	I	I	H	509	510
627-20-3	c-2-Pentene	P	13.08	13.06						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.53						282	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.60						282	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.75						162	537
142-29-0	Cyclopentene	15	**14.61**	14.59						162	551
71-23-8	n-Propanol		**14.75**	14.73						162	558
287-92-3	Cyclopentane	P	14.88	14.86	**14.87**		I	I	H	565	567
1634-04-4	Methyl tert butyl ether		**15.00**	14.98						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.04						162	570
107-83-5	2-Methylpentane	P	15.08	15.06	**15.07**		I	I	H	571	571
96-14-0	3-Methylpentane	P	15.55	15.53	**15.55**	2441	I	I	H	584	583
592-41-6	1-Hexene	P	**15.80**	15.78						162	590
110-54-3	n-Hexane	P	16.17	**16.15**	**16.15**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.28						263	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.43						216	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.78						216	623
96-37-7	Methylcyclopentane		P	16.86	16.84						102	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.03	**17.03**		I	I	H	627	626
71-43-2	Benzene		P	17.87	**17.85**	**17.84**	25458	I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.11	**18.19**		I	O	M	663	658
591-76-4	2-Methylhexane		P	18.38	18.35	**18.38**		I	I	H	669	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.42	**18.45**		I	I	H	671	671
589-34-4	3-Methylhexane		P	18.66	18.63	**18.65**	951	I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.72						102	687
994-05-8	Tert amyl methyl ether			**18.80**	18.77						102	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.06	**19.08**		I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.38	**19.39**	4149	I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.06	**20.10**		I	I	H	724	722
592-13-2	2,5-Dimethylhexane			20.35	20.32	**20.36**		I	I	H	733	734
589-43-5	2,4-Dimethylhexane			20.43	20.40	**20.42**		I	I	H	736	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.90	**20.94**	1791	I	I	H	754	753
108-88-3	Toluene		P	21.12	**21.09**	**21.13**	9152	I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.21	**21.19**		I	I	H	762	763
592-27-8	2-Methylheptane		P	21.33	21.34	**21.34**		I	I	H	767	768
589-53-7	4-Methylheptane	48		**21.48**	21.49						28	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.51						28	772
589-81-1	3-Methylheptane		p	21.55	21.56	**21.56**		I	I	H	775	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.11						28	786
111-65-9	n-Octane		P	22.27	22.28	**22.28**	2756	I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.76	**23.79**	4960	I	O	M	858	855
108-38-3	m,p-xylene		P	23.95	23.96	**24.00**	11047	I	I	H	866	863
100-42-5	Styrene		P	24.40	24.41						-52	881
95-47-6	o-xylene		P	24.57	24.58	**24.67**	3604	I	O	M	892	886
124-11-8	1-Nonene	64		24.60	24.61						-52	889
111-84-2	n-Nonane		P	24.87	24.88	**24.89**	2365	I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.37	**25.38**		I	I	H	921	919
103-65-1	n-propylbenzene		P	25.93	25.94	**25.93**	1906	I	O	M	944	947
80-56-8	a-Pinene			26.09	26.10						-156	950
620-14-4	3-Ethyltoluene		P	26.17	26.18	**26.14**		I	O	M	953	957
622-96-8	4-Ethyltoluene		P	26.26	26.27						-156	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.46	**26.41**	2625	I	I	H	964	964
611-14-3	2-Ethyltoluene		P	26.61	26.62	**26.60**		I	I	H	972	975
127-91-3	b-Pinene			26.80	26.81	**26.75**		I	I	H	979	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.09	**27.00**	4482	I	I	H	989	991
124-18-5	n-Decane		P	27.26	27.27	**27.25**	6256	I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.56						-44	1014
496-11-7	Indan	81		27.55	27.56						-44	1020
5989-27-5	d-Limonene			27.65	27.66	**27.68**	1345	I	I	H	1016	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.11						-44	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.24						-44	1037
104-51-8	n-Butylbenzene			28.45	28.46						-44	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.61						-44	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.76						-44	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.84						-44	1060
1120-21-4	Undecane		P	29.86	29.82	**29.86**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.46						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.51						-48	1124
91-20-3	Naphthalene		32.25	32.26						-48	1193
112-40-3	Dodecane	P	32.46	32.42	**32.46**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					169857		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					130046		22392			
TNMHC - C1	Total Non-Methane Hydrocarbons					130046		17419			
TVOC	Total Volatile Organic Compounds					130046		0			
TPH(g)	TPH (gasoline)					130046		0			
TPH(d)	TPH (diesel)					130046		0			
TPH(h)	TPH (hexane)					130046		0			
TPH(t)	TPH (toluene)					130046		0			
TPHC	TPH (methane)					130046		0			
TPH(Jet A)	TPH (Jet A Fuel)					130046		**39811**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					130046					
C6+	**C6+ (hexane)**		16.17	16.15	16.15	**0**		Sum from	16.15	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			5789		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			3749		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**9538**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	032725-GCK		
Hexane Std Area:	364105		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.23	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.23		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	9.05	4.53	5.58	9.05	4.53	5.58	5.58	5.58
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	5.86	1.95	3.53	5.86	1.95	3.53	3.53	3.53
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	10.56	2.64	6.07	10.56	2.64	6.07	6.07	6.07
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	1.63	0.33	0.96	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	4.48	0.90	2.58	4.48	0.90	2.58	2.58	2.58
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	3.82	0.64	2.25	3.82	0.64	2.25	2.25	2.25
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	39.81	6.64	21.24	39.81	6.64	21.24	21.24	21.24
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	1.49	0.21	0.87	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	6.49	0.93	3.81	6.49	0.93	3.81	3.81	3.81
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	2.80	0.35	1.64	2.80	0.35	1.64	1.64	1.64
Toluene	92.1	7	14.31	2.04	7.72	14.31	2.04	7.72	7.72	7.72
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	4.31	0.54	2.52	4.31	0.54	2.52	2.52	2.52
Ethylbenzene	106.2	8	7.76	0.97	4.22	7.76	0.97	4.22	4.22	4.22
m,p-xylene	106.2	8	17.27	2.16	9.40	17.27	2.16	9.40	9.40	9.40
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	5.64	0.70	3.07	5.64	0.70	3.07	3.07	3.07
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	3.70	0.41	2.16	3.70	0.41	2.16	2.16	2.16
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	2.98	0.33	1.63	2.98	0.33	1.63	1.63	1.63
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	4.10	0.46	2.25	4.10	0.46	2.25	2.25	2.25
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	7.01	0.78	3.84	7.01	0.78	3.84	3.84	3.84
n-Decane	142.3	10	9.78	0.98	5.71	9.78	0.98	5.71	5.71	5.71
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	2.10	0.21	1.17	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	203.36	33.9	119.7	203.36	33.89	119.74	119.74	119.74
Total Non-Methane Hydrocarbons	16	1.0	203.36	203.4	133.4	203.36	203.36	133.35	133.35	133.35
Total Volatile Organic Compounds	100	7.6	203.36	26.8	109.7	203.36	26.76	109.66	109.66	109.66
TPH (gasoline)	95	7.0	203.36	29.1	113.1	203.36	29.05	113.11	113.11	113.11
TPH (diesel)	198	15.0	203.36	13.6	110.0	203.36	13.56	110.01	110.01	110.01
TPH (hexane)	86.2	6.0	203.36	33.9	119.7	203.36	33.89	119.74	119.74	119.74
TPH (toluene)	92.14	7.0	203.36	29.1	109.7	203.36	29.05	109.70	109.70	109.70
TPH (methane)	16	1.0	203.36	203.4	133.4	203.36	203.36	133.35	133.35	133.35
TPH (Jet A Fuel)	177	13.0	203.36	15.6	113.5	203.36	15.64	113.48	113.48	113.48
TPH (Mineral Spirits)	117.81	8.0	203.36	25.4	122.7	203.36	25.42	122.73	122.73	122.73
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			135.3	28.7						
Paraffins			40.8							
Isoparaffins			8.1							
Aromatics			98.9							
Napthlenes			0.0							
Olefins			17.1							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	9.05	4.53	5.58	9.05	4.53	5.58	5.58	5.58
C3 (propane)	44.1	3	5.86	1.95	3.53	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			14.9							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	1.6	0.27	0.80					
Aliphatic C6-C8	100.2	7	10.8	1.54	6.33					
Aliphatic C8-C10	128.3	9	3.7	0.41	2.16					
Aliphatic C10-C12	142.8	11	9.8	0.89	5.20					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			48.9	36.2
Alkenes			15.0	11.1
Alkynes			0.0	0.0
Cycloalkanes			0.0	0.0
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			98.9	73.1
Terpenes			2.1	1.6

SDG: **225100**
Laboratory Number: **05**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
0.0	2.000	1.00	1.23	1.41	2.45	3.68	4.24	7.4	U	ND		Y
0.0	2.000	1.00	1.23	1.31	2.45	3.68	3.92	7.4	U	ND		Y
15.8	2.000	1.00	1.23	1.51	2.45	3.68	4.54	7.4		=		Y
0.0	2.000	0.67	0.82	1.41	2.45	2.45	4.23	7.4	U	ND		Y
6.8	2.000	0.67	0.82	1.48	2.45	2.45	4.43	7.4	J	=		Y
0.0	2.000	0.50	0.61	1.46	2.45	1.84	4.38	7.4	U	ND		Y
0.0	2.000	2.00	2.45	3.22	2.45	7.36	9.65	7.4	U	ND		Y
9.2	2.000	0.50	0.61	1.41	2.45	1.84	4.23	7.4		=		Y
0.0	2.000	0.50	0.61	1.36	2.45	1.84	4.08	7.4	U	ND		Y
0.0	2.000	0.50	0.61	1.46	2.45	1.84	4.38	7.4	U	ND		Y
0.0	2.000	0.50	0.61	1.41	2.45	1.84	4.23	7.4	U	ND		Y
0.0	2.000	0.50	0.61	1.41	2.45	1.84	4.23	7.4	U	ND		Y
0.0	2.000	1.00	1.23	2.32	2.45	3.68	6.95	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.41	2.45	1.47	4.23	7.4	U	ND		Y
0.0	2.000	0.67	0.82	1.95	2.45	2.45	5.84	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.45	2.45	1.47	4.36	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.41	2.45	1.47	4.23	7.4	U	ND		Y
0.0	2.000	0.67	0.82	2.01	2.45	2.45	6.04	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.41	2.45	1.47	4.23	7.4	U	ND		Y
1.1	2.000	0.40	0.49	1.45	2.45	1.47	4.35	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.37	2.45	1.47	4.11	7.4	U	ND		Y
3.1	2.000	0.40	0.49	1.41	2.45	1.47	4.23	7.4	J	=		Y
0.0	2.000	0.40	0.49	1.41	2.45	1.47	4.23	7.4	U	ND		Y
0.0	2.000	0.50	0.61	1.86	2.45	1.84	5.59	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.41	2.45	1.47	4.23	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.44	2.45	1.23	4.33	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.37	2.45	1.47	4.11	7.4	U	ND		Y
0.0	2.000	0.67	0.82	2.01	2.45	2.45	6.04	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.41	2.45	1.47	4.23	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.77	2.45	1.47	5.32	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.44	2.45	1.23	4.33	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.44	2.45	1.23	4.33	7.4	U	ND		Y
2.2	2.000	0.33	0.41	1.44	2.45	1.23	4.33	7.4	J	=		Y
0.0	2.000	0.33	0.41	1.41	2.45	1.23	4.23	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.44	2.45	1.23	4.33	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.71	2.45	1.23	5.14	7.4	U	ND		Y

0.0	2.000	0.33	0.41	1.38	2.45	1.23	4.13	7.4	U	ND	Y
0.0	2.000	0.33	0.41	1.71	2.45	1.23	5.14	7.4	U	ND	Y
0.0	2.000	0.33	0.41	1.41	2.45	1.23	4.23	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.44	2.45	1.05	4.32	7.4	U	ND	Y
23.1	2.000	0.33	0.41	1.31	2.45	1.23	3.93	7.4		=	Y
0.0	2.000	0.33	0.41	1.41	2.45	1.23	4.23	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.44	2.45	1.05	4.32	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.44	2.45	1.05	4.32	7.4	U	ND	Y
0.7	2.000	0.29	0.35	1.44	2.45	1.05	4.32	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.41	2.45	1.05	4.23	7.4	U	ND	Y
0.0	2.000	0.33	0.41	1.71	2.45	1.23	5.14	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.45	0.92	4.31	7.4	U	ND	Y
3.2	2.000	0.29	0.35	1.44	2.45	1.05	4.32	7.4	J	=	Y
0.0	2.000	0.29	0.35	1.41	2.45	1.05	4.23	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.45	0.92	4.31	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.45	0.92	4.31	7.4	U	ND	Y
1.2	2.000	0.25	0.31	1.44	2.45	0.92	4.31	7.4	J	=	Y
7.1	2.000	0.29	0.35	1.32	2.45	1.05	3.97	7.4		=	Y
0.0	2.000	0.25	0.31	1.44	2.45	0.92	4.31	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.45	0.92	4.31	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.45	0.92	4.31	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.45	0.92	4.31	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.45	0.92	4.31	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.41	2.45	0.92	4.23	7.4	U	ND	Y
1.9	2.000	0.25	0.31	1.44	2.45	0.92	4.31	7.4	J	=	Y
3.4	2.000	0.25	0.31	1.33	2.45	0.92	4.00	7.4		=	Y
7.5	2.000	0.25	0.31	1.33	2.45	0.92	4.00	7.4		=	Y
0.0	2.000	0.25	0.31	1.31	2.45	0.92	3.93	7.4	U	ND	Y
2.5	2.000	0.25	0.31	1.33	2.45	0.92	4.00	7.4	J	=	Y
0.0	2.000	0.22	0.27	1.41	2.45	0.82	4.23	7.4	U	ND	Y
1.4	2.000	0.22	0.27	1.43	2.45	0.82	4.30	7.4	J	=	Y
0.0	2.000	0.22	0.27	1.34	2.45	0.82	4.03	7.4	U	ND	Y
1.2	2.000	0.22	0.27	1.34	2.45	0.82	4.03	7.4	J	=	Y
0.0	2.000	0.20	0.25	1.37	2.45	0.74	4.11	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.45	0.82	4.03	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.45	0.82	4.03	7.4	U	ND	Y
1.6	2.000	0.22	0.27	1.34	2.45	0.82	4.03	7.4	J	=	Y
0.0	2.000	0.22	0.27	1.34	2.45	0.82	4.03	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.45	0.74	4.11	7.4	U	ND	Y
2.7	2.000	0.22	0.27	1.34	2.45	0.82	4.03	7.4	J	=	Y
3.4	2.000	0.20	0.25	1.43	2.45	0.74	4.29	7.4		=	Y
0.0	2.000	0.22	0.27	1.34	2.45	0.82	4.03	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.45	0.82	3.96	7.4	U	ND	Y
0.7	2.000	0.20	0.25	1.37	2.45	0.74	4.11	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.45	0.74	4.05	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.45	0.74	4.05	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.45	0.74	4.05	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.45	0.74	4.05	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.45	0.74	4.05	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.45	0.74	4.05	7.4	U	ND	Y
0.0	2.000	0.18	0.22	1.43	2.45	0.67	4.29	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.45	0.74	4.05	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.45	0.74	4.05	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.29	2.45	0.74	3.87	7.4	U	ND	Y

0.0	2.000	0.17	0.20	1.43	2.45	0.61	4.28	7.4	U	ND	Y
%											Y
100.0	45.00	7.5	9.20	32.50	55.20	27.6	97.5	165.6		=	Y
100.0	45.00	45.0	55.20	36.20	55.20	165.6	108.6	165.6		=	Y
100.0	45.00	5.9	7.26	29.77	55.20	21.8	89.3	165.6		=	Y
100.0	45.00	6.4	7.89	30.70	55.20	23.7	92.1	165.6		=	Y
100.0	45.00	3.0	3.68	29.86	55.20	11.0	89.6	165.6		=	Y
100.0	45.00	7.5	9.20	32.50	55.20	27.6	97.5	165.6		=	Y
100.0	45.00	6.4	7.89	29.78	55.20	23.7	89.3	165.6		=	Y
100.0	45.00	45.0	55.20	36.20	55.20	165.6	108.6	165.6		=	Y
100.0	45.00	3.5	4.25	30.80	55.20	12.7	92.4	165.6		=	Y
100.0	45.00	5.6	6.90	33.32	55.20	20.7	99.9	165.6		=	Y
0.0	45.00	7.5	9.20	32.50	55.20	27.6	97.5	165.6	U	ND	Y
0.0	25.000	3.6	4.38	17.06	30.67	13.1	51.2	92.0	U	ND	Y
%											Y
66.5											Y
30.2											Y
6.0											Y
73.1											Y
0.0											Y
12.7											Y
0.0											Y
%											Y
60.7	5.000	2.5	3.07	3.78	6.13	9.2	11.3	18.4	J	=	Y
39.3	5.000	1.7	2.04	3.70	6.13	6.1	11.1	18.4	U	ND	Y
0.0	25.000	6.3	7.67	18.26	30.67	23.0	54.8	92.0	U	ND	Y
0.0	25.000	5.0	6.13	18.14	30.67	18.4	54.4	92.0	U	ND	Y
0.0	25.000	4.2	5.11	18.06	30.67	15.3	54.2	92.0	U	ND	Y
0.0	25.000	3.6	4.38	17.99	30.67	13.1	54.0	92.0	U	ND	Y
0.0	25.000	3.1	3.83	17.94	30.67	11.5	53.8	92.0	U	ND	Y
0.0	25.000	2.8	3.41	17.91	30.67	10.2	53.7	92.0	U	ND	Y
0.0	25.000	2.5	3.07	17.89	30.67	9.2	53.7	92.0	U	ND	Y
0.0	25.000	2.3	2.79	17.86	30.67	8.4	53.6	92.0	U	ND	Y
0.0	25.000	2.1	2.56	17.84	30.67	7.7	53.5	92.0	U	ND	Y
0.0	25.000	2.1	2.56	17.84	30.67	7.7	53.5	92.0	U	ND	Y
100.0											Y
											Y
0.8	6.0	1.0	1.23	3.63	7.36	3.7	10.9	22.1			Y
5.3	6.0	0.9	1.05	4.32	7.36	3.2	13.0	22.1			Y
1.8	6.0	0.7	0.82	4.30	7.36	2.5	12.9	22.1			Y
4.8	6.0	0.5	0.67	3.92	7.36	2.0	11.7	22.1			Y
0.0	6.0	0.7	0.82	3.83	7.36	2.5	11.5	22.1			Y
0.0	6.0	0.5	0.67	3.90	7.36	2.0	11.7	22.1			Y
0.0	2.0	0.3	0.41	1.44	2.45	1.2	4.3	7.4	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
	9.1					9.05			
					0.0		0.00		
	5.9					5.86			
		0.0				0.00			
					0.0				
					10.6		10.56		
					0.0		0.00		
	0.0					0.00			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		0.0				0.00			
					0.0		0.00		
					0.0				
					0.0		0.00		
	1.6					1.63			
					0.0		0.00		
					4.5		4.48		
					0.0		0.00		
					0.0				
					0.0		0.00		
		0.0				0.00			
				0.0					0.00
					0.0				
				0.0					0.00
					0.0				
		0.0				0.00			
		0.0				0.00			
		3.8				3.82			
					0.0		0.00		
	0.0					0.00			
					0.0				

| | | |

0.0						0.00			
40.8	8.1	98.9	0.0	17.1	0.0	48.9	15.0	0.0	0.0

1.63	3.82	
10.80	4.29	
3.70	0.00	
9.78	0.00	
		13.48
		0.00

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
	0.00				
	0.00				
	0.00				
				0.00	
				0.00	

0.00

0.00

39.81

0.00

14.31

7.76
17.27
0.00
5.64

0.00
2.98
0.00
0.00
0.00
4.10
0.00
0.00
7.01

0.00
0.00
2.10
0.00
0.00
0.00
0.00
0.00
0.00

0.00
0.00
0.00

0.0	0.0	0.0	0.0	98.9	2.1

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**05**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.23	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.02E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.02E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.02E+04	5789	9.1	4.53	5.58
Propene	3	TRG	4.5	2.02E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.02E+04	3749	5.9	1.95	3.53
i-Butane	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.02E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.02E+04	6752	10.6	2.64	6.07
n-Butane	4	TRG	54.1	2.02E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.02E+04	1041	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.02E+04	2867	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.02E+04	0	1.6	0.33	0.96
2,2-Dimethylbutane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.02E+04	0	4.5	0.90	2.58
2,3-Dimethylbutane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.02E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.02E+04	2441	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.02E+04	25458	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.02E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.02E+04	951	3.8	0.64	2.25
2,2,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.02E+04	4149	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.02E+04	1791	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.02E+04	9152	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.02E+04	0	39.8	6.64	21.24	
2-Methylheptane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.02E+04	2756	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.02E+04	4960	1.5	0.21	0.87	
m,p-xylene	7	TRG	98.2	2.02E+04	11047	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.02E+04	3604	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.02E+04	2365	6.5	0.93	3.81	
i-Propylbenzene	7	TRG	98.2	2.02E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.02E+04	1906	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.02E+04	0	2.8	0.35	1.64	
4-Ethyltoluene	7	TRG	92.1	2.02E+04	0	14.3	2.04	7.72	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.02E+04	2625	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.02E+04	4482	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.02E+04	6256	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.02E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.02E+04	1345	4.3	0.54	2.52	
1,3-Diethylbenzene	8	TRG	106.2	2.02E+04	0	7.8	0.97	4.22	
1,4-Diethylbenzene	8	TRG	106.2	2.02E+04	0	17.3	2.16	9.40	
n-Butylbenzene	8	TRG	104.2	2.02E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.02E+04	0	5.6	0.70	3.07	
Dodecane	9	TRG	126.2	2.02E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.02E+04	130046	203.4	33.89	119.74	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.02E+04	130046	203.4	203.36	133.35	
Total Volatile Organic Compoun	8	TRG	100.0	2.02E+04	130046	203.4	26.76	109.66	
TPH (gasoline)	7	TRG	95.0	2.02E+04	130046	203.4	29.05	113.11	
TPH (diesel)	15	TRG	198.0	2.02E+04	130046	203.4	13.56	110.01	
TPH (hexane)	6	TRG	86.2	2.02E+04	130046	203.4	33.89	119.74	
TPH (toluene)	7	TRG	92.1	2.02E+04	130046	203.4	29.05	109.70	
TPH (methane)	1	TRG	16.0	2.02E+04	130046	203.4	203.36	133.35	
TPH (Jet A Fuel)	13	TRG	177.0	2.02E+04	130046	203.4	15.64	113.48	
TPH (Mineral Spirits)	8	TRG	117.8	2.02E+04	130046	203.4	25.42	122.73	
C6+ (hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.02E+04		135.3			Sum ID
Paraffins	P	TRG	0.0	2.02E+04		40.8			Sum P
Isoparaffins	I	TRG	0.0	2.02E+04		8.1			Sum I
Aromatics	A	TRG	0.0	2.02E+04		98.9			Sum A
Napthlenes	N	TRG	0.0	2.02E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.02E+04		17.1			Sum O
Oxygenates		TRG	0.0	2.02E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.02E+04	5789	9.1	4.53	5.58	
C3 (propane)	3	TRG	44.1	2.02E+04	3749	5.9	1.95	3.53	
C4 (Butane)	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.02E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.02E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.02E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.02E+04	9538	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 06

File Name: 2510006A
Description: T-106
Canister: 621
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 10:22
Date Analyzed: 03/27/25 **Time:** 11:21
Can Factor: 1.23
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.23	3.68	ND	1.41	4.23	ND	ND
74-86-2	Acetylene	1.23	3.68	ND	1.31	3.92	ND	ND
74-84-0	Ethane	1.23	3.68	3.99	1.51	4.54	4.93	
115-07-1	Propene	0.82	2.45	ND	1.41	4.23	ND	ND
74-98-6	Propane	0.82	2.45	1.09	1.48	4.43	1.97	J
75-28-5	i-Butane	0.61	1.84	ND	1.46	4.38	ND	ND
106-98-9	1-Butene	0.61	1.84	ND	1.41	4.23	ND	ND
106-97-8	n-Butane	0.61	1.84	ND	1.46	4.38	ND	ND
624-64-6	t-2-Butene	0.61	1.84	ND	1.41	4.23	ND	ND
590-18-1	c-2-Butene	0.61	1.84	ND	1.41	4.23	ND	ND
78-78-4	i-Pentane	0.49	1.47	ND	1.45	4.35	ND	ND
109-67-1	1-Pentene	0.49	1.47	ND	1.41	4.23	ND	ND
109-66-0	n-Pentane	0.49	1.47	ND	1.45	4.35	ND	ND
646-04-8	t-2-Pentene	0.49	1.47	ND	1.41	4.23	ND	ND
627-20-3	c-2-Pentene	0.49	1.47	ND	1.41	4.23	ND	ND
75-83-2	2,2-Dimethylbutane	0.41	1.23	ND	1.44	4.33	ND	ND
142-29-0	Cyclopentene	0.49	1.47	ND	1.37	4.10	ND	ND
287-92-3	Cyclopentane	0.49	1.47	ND	1.41	4.23	ND	ND
79-29-8	2,3-Dimethylbutane	0.41	1.23	ND	1.44	4.33	ND	ND
107-83-5	2-Methylpentane	0.41	1.23	ND	1.44	4.33	ND	ND
96-14-0	3-Methylpentane	0.41	1.23	ND	1.44	4.33	ND	ND
592-41-6	1-Hexene	0.41	1.23	ND	1.41	4.23	ND	ND
110-54-3	n-Hexane	0.41	1.23	ND	1.44	4.33	ND	ND
1120-62-3	3-Methylcyclopentene	0.41	1.23	ND	1.37	4.12	ND	ND
96-37-7	Methylcyclopentane	0.41	1.23	ND	1.41	4.23	ND	ND
108-08-7	2,4-Dimethylpentane	0.35	1.05	ND	1.44	4.31	ND	ND
71-43-2	Benzene	0.41	1.23	1.92	1.31	3.92	6.16	
110-82-7	Cyclohexane	0.41	1.23	ND	1.41	4.23	ND	ND
591-76-4	2-Methylhexane	0.35	1.05	ND	1.44	4.31	ND	ND
565-59-3	2,3-Dimethylpentane	0.35	1.05	ND	1.44	4.31	ND	ND
589-34-4	3-Methylhexane	0.35	1.05	ND	1.44	4.31	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.31	0.92	ND	1.43	4.30	ND	ND
142-82-5	n-Heptane	0.35	1.05	ND	1.44	4.31	ND	ND
108-87-2	Methylcyclohexane	0.35	1.05	ND	1.41	4.23	ND	ND
592-13-2	2,5-Dimethylhexane	0.31	0.92	ND	1.43	4.30	ND	ND
589-43-5	2,4-Dimethylhexane	0.31	0.92	ND	1.43	4.30	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.31	0.92	ND	1.43	4.30	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.05	ND	1.32	3.97	ND	ND
584-94-1	2,3-Dimethylhexane	0.31	0.92	ND	1.43	4.30	ND	ND
592-27-8	2-Methylheptane	0.31	0.92	ND	1.43	4.30	ND	ND
589-53-7	4-Methylheptane	0.31	0.92	ND	1.43	4.30	ND	ND
589-81-1	3-Methylheptane	0.31	0.92	ND	1.43	4.30	ND	ND
111-65-9	n-Octane	0.31	0.92	ND	1.43	4.30	ND	ND
100-41-4	Ethylbenzene	0.31	0.92	ND	1.33	4.00	ND	ND
108-38-3	m,p-xylene	0.31	0.92	ND	1.33	4.00	ND	ND
100-42-5	Styrene	0.31	0.92	ND	1.31	3.93	ND	ND
95-47-6	o-xylene	0.31	0.92	ND	1.33	4.00	ND	ND
111-84-2	n-Nonane	0.27	0.82	ND	1.43	4.30	ND	ND
98-82-8	i-Propylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
103-65-1	n-propylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.82	ND	1.34	4.03	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.82	ND	1.34	4.03	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.82	ND	1.34	4.03	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
124-18-5	n-Decane	0.25	0.74	ND	1.43	4.29	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.74	ND	1.35	4.04	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.74	ND	1.35	4.04	ND	ND
104-51-8	n-Butylbenzene	0.25	0.74	ND	1.35	4.04	ND	ND
1120-21-4	Undecane	0.22	0.67	ND	1.43	4.28	ND	ND
91-20-3	Naphthalene	0.25	0.74	ND	1.29	3.86	ND	ND
112-40-3	Dodecane	0.20	0.61	ND	1.43	4.28	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.19	27.58	ND	32.47	97.42	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	55.15	165.46	ND	36.17	108.50	ND	ND

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **06**
File Name: **2510006A**
Sample ID: **T-106**
Sampled: **3/19/2025**
Received: **03/21/25**
Analyzed: **03/27/25**
QCBatch: **032725-GCK**
Can: **621**
Can Factor: **1.23**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **10:22** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **11:21** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **364105**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C5 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.08	**4.06**		NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.12			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.19**	5111	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.15**		I	O	M	293	290
74-98-6	Propane	P	5.20	**5.20**	**5.22**	2095	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.62**						134	351
67-56-1	Methanol		8.30	8.32						134	401
106-98-9	1-Butene	P	7.29	7.31	**7.32**		I	I	H	367	367
106-99-0	1,3-Butadiene		**7.48**	7.50						134	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.36**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.77	**8.61**		O	O	L	406	410
590-18-1	c-2-Butene	P	9.63	9.65						196	431
64-17-5	Ethanol		10.85	10.83						196	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.03						196	465
67-64-1	Acetone		11.52	11.50						196	476
78-78-4	i-Pentane	P	11.37	11.35	**11.40**		I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.28	**12.16**		O	I	M	493	495
67-63-0	Isopropanol		12.65	12.63						196	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.34						196	497
109-66-0	n-Pentane	P	12.48	**12.46**	**12.46**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.53						163	503
646-04-8	t-2-Pentene	P	12.79	12.77	**12.79**		I	I	H	509	510
627-20-3	c-2-Pentene	P	13.08	13.06						163	518
75-65-0	Tert butyl alcohol		**13.55**	13.53						282	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.60						282	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.75						163	537
142-29-0	Cyclopentene	15	**14.61**	14.59						163	551
71-23-8	n-Propanol		**14.75**	14.73						163	558
287-92-3	Cyclopentane	P	14.88	14.86	**14.87**		I	I	H	565	567
1634-04-4	Methyl tert butyl ether		**15.00**	14.98						163	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.04						163	570
107-83-5	2-Methylpentane	P	15.08	15.06	**15.07**		I	I	H	570	571
96-14-0	3-Methylpentane	P	15.55	15.53	**15.45**		I	I	H	581	583
592-41-6	1-Hexene	P	**15.80**	15.78						163	590
110-54-3	n-Hexane	P	16.17	**16.15**	**16.16**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.29						261	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.44						215	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.79						215	623
96-37-7	Methylcyclopentane		P	16.86	16.85						100	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.04	**17.03**		I	I	H	627	626
71-43-2	Benzene		P	17.87	**17.86**	**17.87**	7385	I	I	H	653	651
110-82-7	Cyclohexane		P	18.14	18.14	**18.19**		I	O	M	663	658
591-76-4	2-Methylhexane		P	18.38	18.38	**18.38**		I	I	H	669	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.45	**18.45**		I	I	H	671	671
589-34-4	3-Methylhexane		P	18.66	18.66	**18.61**		I	I	H	676	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.75						100	687
994-05-8	Tert amyl methyl ether			**18.80**	18.80						100	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.09	**19.08**		I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.41	**19.39**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.09	**20.10**		I	I	H	724	722
592-13-2	2,5-Dimethylhexane			20.35	20.35	**20.36**		I	I	H	733	734
589-43-5	2,4-Dimethylhexane			20.43	20.43	**20.42**		I	I	H	736	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.93	**20.93**		I	I	H	753	753
108-88-3	Toluene		P	21.12	**21.12**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						28	763
592-27-8	2-Methylheptane		P	21.33	21.33	**21.34**		I	I	H	767	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						28	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						28	772
589-81-1	3-Methylheptane		p	21.55	21.55	**21.56**		I	I	H	775	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						28	786
111-65-9	n-Octane		P	22.27	22.27	**22.28**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75	**23.83**		I	O	M	860	855
108-38-3	m,p-xylene		P	23.95	23.95	**23.99**		I	I	H	866	863
100-42-5	Styrene		P	24.40	24.40						-56	881
95-47-6	o-xylene		P	24.57	24.57	**24.62**		I	O	M	890	886
124-11-8	1-Nonene	64		24.60	24.60						-56	889
111-84-2	n-Nonane		P	24.87	24.87	**24.88**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36	**25.38**		I	I	H	921	919
103-65-1	n-propylbenzene		P	25.93	25.93	**25.91**		I	O	M	944	947
80-56-8	a-Pinene			26.09	26.09						-158	950
620-14-4	3-Ethyltoluene		P	26.17	26.17	**26.14**		I	O	M	953	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-158	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45	**26.45**		I	I	H	967	964
611-14-3	2-Ethyltoluene		P	26.61	26.61	**26.60**		I	I	H	973	975
127-91-3	b-Pinene			26.80	26.80	**26.75**		I	I	H	980	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08	**26.99**		I	I	H	990	991
124-18-5	n-Decane		P	27.26	27.26	**27.23**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-35	1014
496-11-7	Indan	81		27.55	27.55						-35	1020
5989-27-5	d-Limonene			27.65	27.65	**27.64**		I	I	H	1016	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10	**28.00**		I	I	H	1029	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23	**28.20**		I	I	H	1037	1037
104-51-8	n-Butylbenzene			28.45	28.45						-35	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-35	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-35	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-35	1060
1120-21-4	Undecane		P	29.86	29.86	**29.86**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	32.46	**32.46**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					0		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					24866		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					24866		0			
TVOC	Total Volatile Organic Compounds					0		0			
TPH(g)	TPH (gasoline)					0		0			
TPH(d)	TPH (diesel)					0		0			
TPH(h)	TPH (hexane)					0		0			
TPH(t)	TPH (toluene)					0		0			
TPHC	TPH (methane)					0		0			
TPH(Jet A)	TPH (Jet A Fuel)					0		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					0					
C6+	**C6+ (hexane)**		16.17	16.15	16.16	**0**		Sum from	16.15	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			5111		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			2095		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**7206**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	032725-GCK		
Hexane Std Area:	364105		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.23	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.23		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	7.99	3.99	4.93	7.99	3.99	4.93	4.93	4.93
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	3.27	1.09	1.97	3.27	1.09	1.97	1.97	1.97
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	11.54	1.92	6.16	11.54	1.92	6.16	6.16	6.16
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	38.85	6.5	22.9	ND	ND	ND	0	
Total Non-Methane Hydrocarbons	16	1.0	38.85	38.9	25.5	ND	ND	ND	0	
Total Volatile Organic Compounds	100	7.6	0.00	0.0	0.0	ND	ND	ND	0	
TPH (gasoline)	95	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (diesel)	198	15.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (toluene)	92.14	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (methane)	16	1.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Jet A Fuel)	177	13.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Mineral Spirits)	117.81	8.0	0.00	0.0	0.0	ND	ND	ND	0	
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			22.8	7.0						
Paraffins			11.3							
Isoparaffins			0.0							
Aromatics			11.5							
Napthlenes			0.0							
Olefins			0.0							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	7.99	3.99	4.93	7.99	3.99	4.93	4.93	4.93
C3 (propane)	44.1	3	3.27	1.09	1.97	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			11.3							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	11.3	49.4
Alkenes	0.0	0.0
Alkynes	0.0	0.0
Cycloalkanes	0.0	0.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	11.5	50.6
Terpenes	0.0	0.0

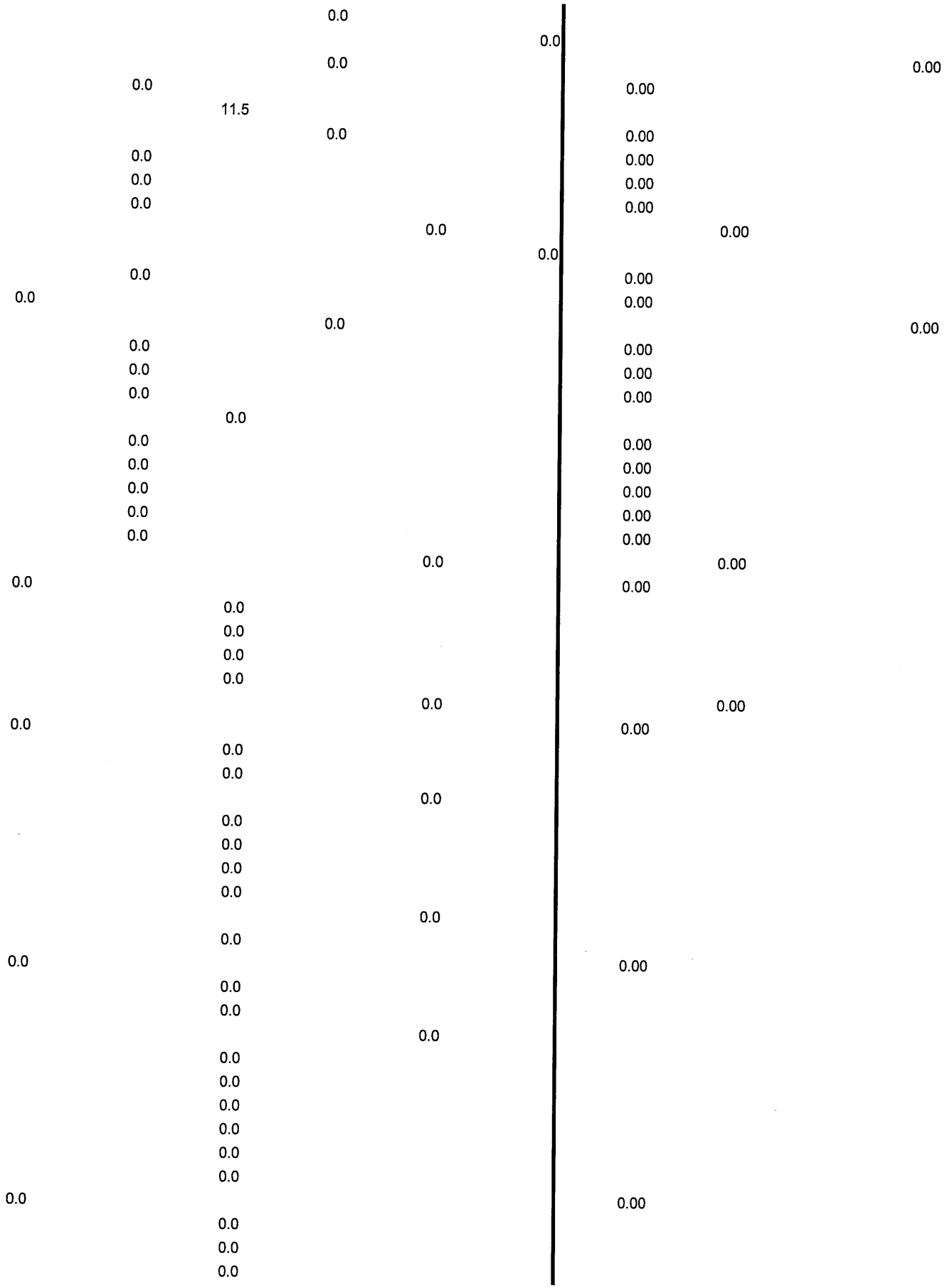
SDG: **225100**
Laboratory Number: **06**

Mole %	(1)	(2)	Calc	Calc	Calc	Calc	Calc	Calc				
Result	MDL	MDL	MDL	MDL	MDL	RL	RL	RL		Detect	EPA	Rept
%	ppbC	ppbV	ppbV	ug/m3	ppbC	ppbV	ug/m3	ppbC	Flag	Flan	Flag	Res
0.0	2.000	1.00	1.23	1.41	2.45	3.68	4.23	7.4	U	ND		Y
0.0	2.000	1.00	1.23	1.31	2.45	3.68	3.92	7.4	U	ND		Y
57.0	2.000	1.00	1.23	1.51	2.45	3.68	4.54	7.4		=		Y
0.0	2.000	0.67	0.82	1.41	2.45	2.45	4.23	7.4	U	ND		Y
15.6	2.000	0.67	0.82	1.48	2.45	2.45	4.43	7.4	J	=		Y
0.0	2.000	0.50	0.61	1.46	2.45	1.84	4.38	7.4	U	ND		Y
0.0	2.000	2.00	2.45	3.21	2.45	7.35	9.64	7.4	U	ND		Y
0.0	2.000	0.50	0.61	1.41	2.45	1.84	4.23	7.4	U	ND		Y
0.0	2.000	0.50	0.61	1.36	2.45	1.84	4.08	7.4	U	ND		Y
0.0	2.000	0.50	0.61	1.46	2.45	1.84	4.38	7.4	U	ND		Y
0.0	2.000	0.50	0.61	1.41	2.45	1.84	4.23	7.4	U	ND		Y
0.0	2.000	0.50	0.61	1.41	2.45	1.84	4.23	7.4	U	ND		Y
0.0	2.000	1.00	1.23	2.32	2.45	3.68	6.95	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.41	2.45	1.47	4.23	7.4	U	ND		Y
0.0	2.000	0.67	0.82	1.95	2.45	2.45	5.84	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.45	2.45	1.47	4.35	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.41	2.45	1.47	4.23	7.4	U	ND		Y
0.0	2.000	0.67	0.82	2.01	2.45	2.45	6.04	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.41	2.45	1.47	4.23	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.45	2.45	1.47	4.35	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.37	2.45	1.47	4.10	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.41	2.45	1.47	4.23	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.41	2.45	1.47	4.23	7.4	U	ND		Y
0.0	2.000	0.50	0.61	1.86	2.45	1.84	5.58	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.41	2.45	1.47	4.23	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.44	2.45	1.23	4.33	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.37	2.45	1.47	4.10	7.4	U	ND		Y
0.0	2.000	0.67	0.82	2.01	2.45	2.45	6.04	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.41	2.45	1.47	4.23	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.77	2.45	1.47	5.32	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.44	2.45	1.23	4.33	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.44	2.45	1.23	4.33	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.44	2.45	1.23	4.33	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.41	2.45	1.23	4.23	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.44	2.45	1.23	4.33	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.71	2.45	1.23	5.13	7.4	U	ND		Y

0.0	2.000	0.33	0.41	1.37	2.45	1.23	4.12	7.4	U	ND	Y
0.0	2.000	0.33	0.41	1.71	2.45	1.23	5.13	7.4	U	ND	Y
0.0	2.000	0.33	0.41	1.41	2.45	1.23	4.23	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.44	2.45	1.05	4.31	7.4	U	ND	Y
27.4	2.000	0.33	0.41	1.31	2.45	1.23	3.92	7.4		=	Y
0.0	2.000	0.33	0.41	1.41	2.45	1.23	4.23	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.44	2.45	1.05	4.31	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.44	2.45	1.05	4.31	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.44	2.45	1.05	4.31	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.41	2.45	1.05	4.23	7.4	U	ND	Y
0.0	2.000	0.33	0.41	1.71	2.45	1.23	5.13	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.45	0.92	4.30	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.44	2.45	1.05	4.31	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.41	2.45	1.05	4.23	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.45	0.92	4.30	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.45	0.92	4.30	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.45	0.92	4.30	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.32	2.45	1.05	3.97	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.45	0.92	4.30	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.45	0.92	4.30	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.45	0.92	4.30	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.45	0.92	4.30	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.41	2.45	0.92	4.23	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.45	0.92	4.30	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.33	2.45	0.92	4.00	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.33	2.45	0.92	4.00	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.31	2.45	0.92	3.93	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.33	2.45	0.92	4.00	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.41	2.45	0.82	4.23	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.43	2.45	0.82	4.30	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.45	0.82	4.03	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.45	0.82	4.03	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.45	0.74	4.10	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.45	0.82	4.03	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.45	0.82	4.03	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.45	0.82	4.03	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.45	0.82	4.03	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.45	0.74	4.10	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.45	0.82	4.03	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.43	2.45	0.74	4.29	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.45	0.82	4.03	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.45	0.82	3.96	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.45	0.74	4.10	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.45	0.74	4.04	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.45	0.74	4.04	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.45	0.74	4.04	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.45	0.74	4.04	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.45	0.74	4.04	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.45	0.74	4.04	7.4	U	ND	Y
0.0	2.000	0.18	0.22	1.43	2.45	0.67	4.28	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.45	0.74	4.04	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.45	0.74	4.04	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.29	2.45	0.74	3.86	7.4	U	ND	Y

0.0	2.000	0.17	0.20	1.43	2.45	0.61	4.28	7.4	U	ND	Y
%											Y
100.0	45.00	7.5	9.19	32.47	55.15	27.6	97.4	165.5	U	ND	Y
100.0	45.00	45.0	55.15	36.17	55.15	165.5	108.5	165.5	U	ND	Y
0.0	45.00	5.9	7.26	29.74	55.15	21.8	89.2	165.5	U	ND	Y
0.0	45.00	6.4	7.88	30.68	55.15	23.6	92.0	165.5	U	ND	Y
0.0	45.00	3.0	3.68	29.84	55.15	11.0	89.5	165.5	U	ND	Y
0.0	45.00	7.5	9.19	32.47	55.15	27.6	97.4	165.5	U	ND	Y
0.0	45.00	6.4	7.88	29.75	55.15	23.6	89.3	165.5	U	ND	Y
0.0	45.00	45.0	55.15	36.17	55.15	165.5	108.5	165.5	U	ND	Y
0.0	45.00	3.5	4.24	30.78	55.15	12.7	92.3	165.5	U	ND	Y
0.0	45.00	5.6	6.89	33.29	55.15	20.7	99.9	165.5	U	ND	Y
0.0	45.00	7.5	9.19	32.47	55.15	27.6	97.4	165.5	U	ND	Y
0.0	25.000	3.6	4.38	17.04	30.64	13.1	51.1	91.9	U	ND	Y
%											Y
58.7											Y
49.4											Y
0.0											Y
50.6											Y
0.0											Y
0.0											Y
0.0											Y
%											Y
70.9	5.000	2.5	3.06	3.78	6.13	9.2	11.3	18.4	J	=	Y
29.1	5.000	1.7	2.04	3.69	6.13	6.1	11.1	18.4	U	ND	Y
0.0	25.000	6.3	7.66	18.25	30.64	23.0	54.7	91.9	U	ND	Y
0.0	25.000	5.0	6.13	18.12	30.64	18.4	54.4	91.9	U	ND	Y
0.0	25.000	4.2	5.11	18.04	30.64	15.3	54.1	91.9	U	ND	Y
0.0	25.000	3.6	4.38	17.98	30.64	13.1	53.9	91.9	U	ND	Y
0.0	25.000	3.1	3.83	17.93	30.64	11.5	53.8	91.9	U	ND	Y
0.0	25.000	2.8	3.40	17.90	30.64	10.2	53.7	91.9	U	ND	Y
0.0	25.000	2.5	3.06	17.87	30.64	9.2	53.6	91.9	U	ND	Y
0.0	25.000	2.3	2.79	17.84	30.64	8.4	53.5	91.9	U	ND	Y
0.0	25.000	2.1	2.55	17.82	30.64	7.7	53.5	91.9	U	ND	Y
0.0	25.000	2.1	2.55	17.82	30.64	7.7	53.5	91.9	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.23	3.62	7.35	3.7	10.9	22.1			Y
0.0	6.0	0.9	1.05	4.31	7.35	3.2	12.9	22.1			Y
0.0	6.0	0.7	0.82	4.30	7.35	2.5	12.9	22.1			Y
0.0	6.0	0.5	0.67	3.91	7.35	2.0	11.7	22.1			Y
0.0	6.0	0.7	0.82	3.82	7.35	2.5	11.5	22.1			Y
0.0	6.0	0.5	0.67	3.90	7.35	2.0	11.7	22.1			Y
0.0	2.0	0.3	0.41	1.44	2.45	1.2	4.3	7.4	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
	8.0					7.99			
					0.0		0.00		
	3.3					3.27			
		0.0				0.00			
						0.0			
					0.0		0.00		
					0.0		0.00		
	0.0					0.00			
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
						0.0			
		0.0				0.00			
					0.0		0.00		
						0.0			
					0.0		0.00		
	0.0					0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
						0.0			
				0.0					0.00
						0.0			
		0.0				0.00			
		0.0				0.00			
		0.0				0.00			
					0.0		0.00		
	0.0					0.00			
						0.0			


0.0
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11.5
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0.0 11.3	0.0	11.5	0.0	0.0	0.0	0.00 11.3	0.0	0.0	0.0

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0.00	0.00		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
0.00					
0.00					
		0.00			
0.00					
0.00					
0.00					
			0.00		
			0.00		

0.00

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11.54

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0.0	0.0	0.0	0.0	11.5	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**06**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.23	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum $\left|\frac{(Astdni)}{(Cstdni)}\right|_i$

2) ppbC = $\frac{6 \text{ Carbons} \quad Ansamp \quad CDF \quad 1000}{(Avg\ RFn) \quad SV}$ = **Cn**

3) Amount ppbv = $\frac{Cn}{C\#}$

4) Amount ug/m3 = $\frac{(amt(ppbv) \quad MW}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.02E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.02E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.02E+04	5111	8.0	3.99	4.93
Propene	3	TRG	4.5	2.02E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.02E+04	2095	3.3	1.09	1.97
i-Butane	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.02E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.02E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.02E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.02E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.02E+04	7385	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.02E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.02E+04	0	11.5	1.92	6.16	
2-Methylheptane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.02E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.02E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.02E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.02E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.02E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.02E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.02E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.02E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.02E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.02E+04	24866	38.9	6.48	22.87	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.02E+04	24866	38.9	38.85	25.48	
Total Volatile Organic Compoun	8	TRG	100.0	2.02E+04	0	0.0	0.00	0.00	
TPH (gasoline)	7	TRG	95.0	2.02E+04	0	0.0	0.00	0.00	
TPH (diesel)	15	TRG	198.0	2.02E+04	0	0.0	0.00	0.00	
TPH (hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
TPH (toluene)	7	TRG	92.1	2.02E+04	0	0.0	0.00	0.00	
TPH (methane)	1	TRG	16.0	2.02E+04	0	0.0	0.00	0.00	
TPH (Jet A Fuel)	13	TRG	177.0	2.02E+04	0	0.0	0.00	0.00	
TPH (Mineral Spirits)	8	TRG	117.8	2.02E+04	0	0.0	0.00	0.00	
C6+ (hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.02E+04		22.8			Sum ID
Paraffins	P	TRG	0.0	2.02E+04		11.3			Sum P
Isoparaffins	I	TRG	0.0	2.02E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.02E+04		11.5			Sum A
Napthlenes	N	TRG	0.0	2.02E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.02E+04		0.0			Sum O
Oxygenates		TRG	0.0	2.02E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.02E+04	5111	8.0	3.99	4.93	
C3 (propane)	3	TRG	44.1	2.02E+04	2095	3.3	1.09	1.97	
C4 (Butane)	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.02E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.02E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.02E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.02E+04	7206	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 07

File Name: 2510007A
Description: T-107
Canister: 644
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 10:22
Date Analyzed: 03/27/25 **Time:** 12:09
Can Factor: 1.23
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.23	3.70	ND	1.42	4.26	ND	ND
74-86-2	Acetylene	1.23	3.70	ND	1.31	3.94	ND	ND
74-84-0	Ethane	1.23	3.70	3.94	1.52	4.56	4.86	
115-07-1	Propene	0.82	2.47	ND	1.42	4.26	ND	ND
74-98-6	Propane	0.82	2.47	1.33	1.49	4.46	2.40	J
75-28-5	i-Butane	0.62	1.85	ND	1.47	4.41	ND	ND
106-98-9	1-Butene	0.62	1.85	ND	1.42	4.25	ND	ND
106-97-8	n-Butane	0.62	1.85	ND	1.47	4.41	ND	ND
624-64-6	t-2-Butene	0.62	1.85	ND	1.42	4.25	ND	ND
590-18-1	c-2-Butene	0.62	1.85	ND	1.42	4.25	ND	ND
78-78-4	i-Pentane	0.49	1.48	ND	1.46	4.38	ND	ND
109-67-1	1-Pentene	0.49	1.48	ND	1.42	4.25	ND	ND
109-66-0	n-Pentane	0.49	1.48	ND	1.46	4.37	ND	ND
646-04-8	t-2-Pentene	0.49	1.48	ND	1.42	4.25	ND	ND
627-20-3	c-2-Pentene	0.49	1.48	ND	1.42	4.25	ND	ND
75-83-2	2,2-Dimethylbutane	0.41	1.23	ND	1.45	4.36	ND	ND
142-29-0	Cyclopentene	0.49	1.48	ND	1.38	4.13	ND	ND
287-92-3	Cyclopentane	0.49	1.48	ND	1.42	4.25	ND	ND
79-29-8	2,3-Dimethylbutane	0.41	1.23	ND	1.45	4.36	ND	ND
107-83-5	2-Methylpentane	0.41	1.23	ND	1.45	4.36	ND	ND
96-14-0	3-Methylpentane	0.41	1.23	ND	1.45	4.36	ND	ND
592-41-6	1-Hexene	0.41	1.23	ND	1.42	4.26	ND	ND
110-54-3	n-Hexane	0.41	1.23	ND	1.45	4.36	ND	ND
1120-62-3	3-Methylcyclopentene	0.41	1.23	ND	1.38	4.15	ND	ND
96-37-7	Methylcyclopentane	0.41	1.23	ND	1.42	4.26	ND	ND
108-08-7	2,4-Dimethylpentane	0.35	1.06	ND	1.45	4.34	ND	ND
71-43-2	Benzene	0.41	1.23	4.21	1.32	3.95	13.49	
110-82-7	Cyclohexane	0.41	1.23	ND	1.42	4.26	ND	ND
591-76-4	2-Methylhexane	0.35	1.06	ND	1.45	4.34	ND	ND
565-59-3	2,3-Dimethylpentane	0.35	1.06	ND	1.45	4.34	ND	ND
589-34-4	3-Methylhexane	0.35	1.06	ND	1.45	4.34	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.31	0.93	ND	1.44	4.33	ND	ND
142-82-5	n-Heptane	0.35	1.06	ND	1.45	4.34	ND	ND
108-87-2	Methylcyclohexane	0.35	1.06	ND	1.42	4.25	ND	ND
592-13-2	2,5-Dimethylhexane	0.31	0.93	ND	1.44	4.33	ND	ND
589-43-5	2,4-Dimethylhexane	0.31	0.93	ND	1.44	4.33	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.31	0.93	ND	1.44	4.33	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.06	0.96	1.33	3.99	3.61	J
584-94-1	2,3-Dimethylhexane	0.31	0.93	ND	1.44	4.33	ND	ND
592-27-8	2-Methylheptane	0.31	0.93	ND	1.44	4.33	ND	ND
589-53-7	4-Methylheptane	0.31	0.93	ND	1.44	4.33	ND	ND
589-81-1	3-Methylheptane	0.31	0.93	ND	1.44	4.33	ND	ND
111-65-9	n-Octane	0.31	0.93	ND	1.44	4.33	ND	ND
100-41-4	Ethylbenzene	0.31	0.93	0.35	1.34	4.03	1.54	J
108-38-3	m,p-xylene	0.31	0.93	0.83	1.34	4.03	3.61	J
100-42-5	Styrene	0.31	0.93	ND	1.32	3.95	ND	ND
95-47-6	o-xylene	0.31	0.93	ND	1.34	4.03	ND	ND
111-84-2	n-Nonane	0.27	0.82	ND	1.44	4.32	ND	ND
98-82-8	i-Propylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
103-65-1	n-propylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.82	ND	1.35	4.05	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.82	ND	1.35	4.05	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.82	ND	1.35	4.05	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
124-18-5	n-Decane	0.25	0.74	ND	1.44	4.32	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.74	1.18	1.36	4.07	6.47	
105-05-5	1,4-Diethylbenzene	0.25	0.74	ND	1.36	4.07	ND	ND
104-51-8	n-Butylbenzene	0.25	0.74	ND	1.36	4.07	ND	ND
1120-21-4	Undecane	0.22	0.67	ND	1.44	4.31	ND	ND
91-20-3	Naphthalene	0.25	0.74	ND	1.30	3.89	ND	ND
112-40-3	Dodecane	0.21	0.62	ND	1.43	4.30	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.25	27.75	23.36	32.68	98.03	82.53	J
TNMHC - C1	Total Non-Methane Hydrocarbons	55.50	166.50	140.17	36.39	109.18	91.91	J

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **07**
File Name: **2510007A**
Sample ID: **T-107**
Sampled: **3/19/2025**
Received: **03/21/25**
Analyzed: **03/27/25**
QCBatch: **032725-GCK**
Can: **644**
Can Factor: **1.23**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **10:22** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **12:09** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **364105**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win	C2-C	C5-C12									
RT	**0.3**	**0.1**									
RTI	**3**	**3**									

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.08	**3.96**	1424	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.12			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.19**	5010	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.15**		I	O	M	293	290
74-98-6	Propane	P	5.20	**5.20**	**5.22**	2532	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.62**						133	351
67-56-1	Methanol		8.30	8.32						133	401
106-98-9	1-Butene	P	7.29	7.31	**7.35**	998	I	I	H	368	367
106-99-0	1,3-Butadiene		**7.48**	7.50						133	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75	**8.61**		O	O	L	407	410
590-18-1	c-2-Butene	P	9.63	9.63						194	431
64-17-5	Ethanol		10.85	10.75						194	461
563-45-1	3-Methyl-1-butene	6	**11.05**	10.95						194	465
67-64-1	Acetone		11.52	11.42						194	476
78-78-4	i-Pentane	P	11.37	11.27	**11.40**		O	I	M	476	473
109-67-1	1-Pentene	P	12.30	12.20	**12.38**		O	O	L	500	495
67-63-0	Isopropanol		12.65	12.55						194	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.26						194	497
109-66-0	n-Pentane	P	12.48	**12.38**	**12.38**	1468	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.45						173	503
646-04-8	t-2-Pentene	P	12.79	12.69						173	510
627-20-3	c-2-Pentene	P	13.08	12.98						173	518
75-65-0	Tert butyl alcohol		**13.55**	13.45						287	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.52						287	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.67						173	537
142-29-0	Cyclopentene	15	**14.61**	14.51						173	551
71-23-8	n-Propanol		**14.75**	14.65						173	558
287-92-3	Cyclopentane	P	14.88	14.78	**14.87**		I	I	H	566	567
1634-04-4	Methyl tert butyl ether		**15.00**	14.90						173	569
79-29-8	2,3-Dimethylbutane	P	15.06	14.96						173	570
107-83-5	2-Methylpentane	P	15.08	14.98	**15.07**		I	I	H	571	571
96-14-0	3-Methylpentane	P	15.55	15.45	**15.45**		I	I	H	581	583
592-41-6	1-Hexene	P	**15.80**	15.70						173	590
110-54-3	n-Hexane	P	16.17	**16.07**	**16.16**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.29						261	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.44						215	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.79						215	623
96-37-7	Methylcyclopentane		P	16.86	16.85						96	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.04	**17.03**		I	I	H	627	626
71-43-2	Benzene		P	17.87	**17.86**	**17.82**	16082	I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.09	**18.19**		I	O	M	663	658
591-76-4	2-Methylhexane		P	18.38	18.33	**18.38**		I	I	H	669	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.40	**18.45**		I	I	H	671	671
589-34-4	3-Methylhexane		P	18.66	18.61	**18.61**		I	I	H	676	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.70						96	687
994-05-8	Tert amyl methyl ether			**18.80**	18.75						96	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.04	**19.08**		I	I	H	691	690
142-82-5	n-Heptane		P	19.41	19.36	**19.37**	1306	I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.04	**20.10**		I	I	H	725	722
592-13-2	2,5-Dimethylhexane			20.35	20.30	**20.36**		I	I	H	734	734
589-43-5	2,4-Dimethylhexane			20.43	20.38	**20.42**		I	I	H	736	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.88	**20.93**		I	I	H	754	753
108-88-3	Toluene		P	21.12	**21.07**	**21.12**	4255	I	I	H	761	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						29	763
592-27-8	2-Methylheptane		P	21.33	21.33	**21.34**		I	I	H	768	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						29	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						29	772
589-81-1	3-Methylheptane		p	21.55	21.55	**21.56**		I	I	H	776	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						29	786
111-65-9	n-Octane		P	22.27	22.27	**22.26**	897	I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75	**23.80**	1805	I	O	M	859	855
108-38-3	m,p-xylene		P	23.95	23.95	**24.00**	4222	I	I	H	866	863
100-42-5	Styrene		P	24.40	24.40						-48	881
95-47-6	o-xylene		P	24.57	24.57	**24.62**		I	O	M	890	886
124-11-8	1-Nonene	64		24.60	24.60						-48	889
111-84-2	n-Nonane		P	24.87	24.87	**24.88**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36	**25.38**		I	I	H	921	919
103-65-1	n-propylbenzene		P	25.93	25.93	**25.91**		I	O	M	944	947
80-56-8	a-Pinene			26.09	26.09						-158	950
620-14-4	3-Ethyltoluene		P	26.17	26.17	**26.14**		I	O	M	953	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-158	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45	**26.45**		I	I	H	967	964
611-14-3	2-Ethyltoluene		P	26.61	26.61	**26.60**		I	I	H	973	975
127-91-3	b-Pinene			26.80	26.80	**26.75**		I	I	H	980	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08	**26.97**		O	I	M	989	991
124-18-5	n-Decane		P	27.26	27.26	**27.23**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-35	1014
496-11-7	Indan	81		27.55	27.55						-35	1020
5989-27-5	d-Limonene			27.65	27.65	**27.64**		I	I	H	1016	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10	**28.01**	7481	I	I	H	1030	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23	**28.20**		I	I	H	1037	1037
104-51-8	n-Butylbenzene			28.45	28.45						-35	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-35	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-35	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-35	1060
1120-21-4	Undecane		P	29.86	29.86	**29.86**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	32.46	**32.46**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					0		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					89153		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					89153		0			
TVOC	Total Volatile Organic Compounds					0		0			
TPH(g)	TPH (gasoline)					0		0			
TPH(d)	TPH (diesel)					0		0			
TPH(h)	TPH (hexane)					0		0			
TPH(t)	TPH (toluene)					0		0			
TPHC	TPH (methane)					0		0			
TPH(Jet A)	TPH (Jet A Fuel)					0		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					0					
C6+	**C6+ (hexane)**		16.17	16.07	16.16	**0**		Sum from	16.07	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			6434		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			2532		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**8966**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	032725-GCK		
Hexane Std Area:	364105		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.23	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.23		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	2.24	1.12	1.29	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	7.88	3.94	4.86	7.88	3.94	4.86	4.86	4.86
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	3.98	1.33	2.40	3.98	1.33	2.40	2.40	2.40
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	1.57	0.39	0.90	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	2.31	0.46	1.36	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	25.28	4.21	13.49	25.28	4.21	13.49	13.49	13.49
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	2.05	0.29	1.20	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	6.69	0.96	3.61	6.69	0.96	3.61	3.61	3.61
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	1.41	0.18	0.83	ND	ND	ND	0	
Ethylbenzene	106.2	8	2.84	0.35	1.54	2.84	0.35	1.54	1.54	1.54
m,p-xylene	106.2	8	6.64	0.83	3.61	6.64	0.83	3.61	3.61	3.61
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	11.76	1.18	6.47	11.76	1.18	6.47	6.47	6.47
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	140.17	23.4	82.5	140.17	23.36	82.53	82.53	82.53
Total Non-Methane Hydrocarbons	16	1.0	140.17	140.2	91.9	140.17	140.17	91.91	91.91	91.91
Total Volatile Organic Compounds	100	7.6	0.00	0.0	0.0	ND	ND	ND	0	
TPH (gasoline)	95	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (diesel)	198	15.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (toluene)	92.14	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (methane)	16	1.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Jet A Fuel)	177	13.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Mineral Spirits)	117.81	8.0	0.00	0.0	0.0	ND	ND	ND	0	
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			62.9	15.2						
Paraffins			17.6							
Isoparaffins			0.0							
Aromatics			53.2							
Napthlenes			0.0							
Olefins			3.8							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	10.12	5.06	6.24	10.12	5.06	6.24	6.24	6.24
C3 (propane)	44.1	3	3.98	1.33	2.40	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			14.1							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	2.3	0.38	1.14					
Aliphatic C6-C8	100.2	7	3.5	0.49	2.03					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	17.6	28.0
Alkenes	3.8	6.1
Alkynes	0.0	0.0
Cycloalkanes	0.0	0.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	53.2	84.6
Terpenes	0.0	0.0

SDG: **225100**
Laboratory Number: **07**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
7.3	2.000	1.00	1.23	1.42	2.47	3.70	4.26	7.4	U	ND		Y
0.0	2.000	1.00	1.23	1.31	2.47	3.70	3.94	7.4	U	ND		Y
25.8	2.000	1.00	1.23	1.52	2.47	3.70	4.56	7.4		=		Y
0.0	2.000	0.67	0.82	1.42	2.47	2.47	4.26	7.4	U	ND		Y
8.7	2.000	0.67	0.82	1.49	2.47	2.47	4.46	7.4	J	=		Y
0.0	2.000	0.50	0.62	1.47	2.47	1.85	4.41	7.4	U	ND		Y
0.0	2.000	2.00	2.47	3.23	2.47	7.40	9.70	7.4	U	ND		Y
2.6	2.000	0.50	0.62	1.42	2.47	1.85	4.25	7.4	U	ND		Y
0.0	2.000	0.50	0.62	1.37	2.47	1.85	4.10	7.4	U	ND		Y
0.0	2.000	0.50	0.62	1.47	2.47	1.85	4.41	7.4	U	ND		Y
0.0	2.000	0.50	0.62	1.42	2.47	1.85	4.25	7.4	U	ND		Y
0.0	2.000	0.50	0.62	1.42	2.47	1.85	4.25	7.4	U	ND		Y
0.0	2.000	1.00	1.23	2.33	2.47	3.70	6.99	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.42	2.47	1.48	4.25	7.4	U	ND		Y
0.0	2.000	0.67	0.82	1.96	2.47	2.47	5.87	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.46	2.47	1.48	4.38	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.42	2.47	1.48	4.25	7.4	U	ND		Y
0.0	2.000	0.67	0.82	2.03	2.47	2.47	6.08	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.42	2.47	1.48	4.25	7.4	U	ND		Y
3.0	2.000	0.40	0.49	1.46	2.47	1.48	4.37	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.38	2.47	1.48	4.13	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.42	2.47	1.48	4.25	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.42	2.47	1.48	4.25	7.4	U	ND		Y
0.0	2.000	0.50	0.62	1.87	2.47	1.85	5.62	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.42	2.47	1.48	4.25	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.45	2.47	1.23	4.36	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.38	2.47	1.48	4.13	7.4	U	ND		Y
0.0	2.000	0.67	0.82	2.03	2.47	2.47	6.08	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.42	2.47	1.48	4.25	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.78	2.47	1.48	5.35	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.45	2.47	1.23	4.36	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.45	2.47	1.23	4.36	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.45	2.47	1.23	4.36	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.42	2.47	1.23	4.26	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.45	2.47	1.23	4.36	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.72	2.47	1.23	5.17	7.4	U	ND		Y

0.0	2.000	0.33	0.41	1.38	2.47	1.23	4.15	7.4	U	ND	Y
0.0	2.000	0.33	0.41	1.72	2.47	1.23	5.17	7.4	U	ND	Y
0.0	2.000	0.33	0.41	1.42	2.47	1.23	4.26	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.45	2.47	1.06	4.34	7.4	U	ND	Y
27.7	2.000	0.33	0.41	1.32	2.47	1.23	3.95	7.4		=	Y
0.0	2.000	0.33	0.41	1.42	2.47	1.23	4.26	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.45	2.47	1.06	4.34	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.45	2.47	1.06	4.34	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.45	2.47	1.06	4.34	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.47	1.06	4.25	7.4	U	ND	Y
0.0	2.000	0.33	0.41	1.72	2.47	1.23	5.17	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4	U	ND	Y
1.9	2.000	0.29	0.35	1.45	2.47	1.06	4.34	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.47	1.06	4.25	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4	U	ND	Y
6.3	2.000	0.29	0.35	1.33	2.47	1.06	3.99	7.4	J	=	Y
0.0	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.42	2.47	0.93	4.25	7.4	U	ND	Y
1.2	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4	U	ND	Y
2.3	2.000	0.25	0.31	1.34	2.47	0.93	4.03	7.4	J	=	Y
5.4	2.000	0.25	0.31	1.34	2.47	0.93	4.03	7.4	J	=	Y
0.0	2.000	0.25	0.31	1.32	2.47	0.93	3.95	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.34	2.47	0.93	4.03	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.42	2.47	0.82	4.25	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.44	2.47	0.82	4.32	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.05	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.05	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.47	0.74	4.13	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.05	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.05	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.05	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.05	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.47	0.74	4.13	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.05	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.44	2.47	0.74	4.32	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.05	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.47	0.82	3.98	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.47	0.74	4.13	7.4	U	ND	Y
7.7	2.000	0.20	0.25	1.36	2.47	0.74	4.07	7.4		=	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.07	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.07	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.07	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.07	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.07	7.4	U	ND	Y
0.0	2.000	0.18	0.22	1.44	2.47	0.67	4.31	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.07	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.07	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.30	2.47	0.74	3.89	7.4	U	ND	Y

0.0	2.000	0.17	0.21	1.43	2.47	0.62	4.30	7.4	U	ND	Y
%											Y
100.0	45.00	7.5	9.25	32.68	55.50	27.8	98.0	166.5	J	=	Y
100.0	45.00	45.0	55.50	36.39	55.50	166.5	109.2	166.5	J	=	Y
0.0	45.00	5.9	7.30	29.93	55.50	21.9	89.8	166.5	U	ND	Y
0.0	45.00	6.4	7.93	30.87	55.50	23.8	92.6	166.5	U	ND	Y
0.0	45.00	3.0	3.70	30.02	55.50	11.1	90.1	166.5	U	ND	Y
0.0	45.00	7.5	9.25	32.68	55.50	27.8	98.0	166.5	U	ND	Y
0.0	45.00	6.4	7.93	29.94	55.50	23.8	89.8	166.5	U	ND	Y
0.0	45.00	45.0	55.50	36.39	55.50	166.5	109.2	166.5	U	ND	Y
0.0	45.00	3.5	4.27	30.97	55.50	12.8	92.9	166.5	U	ND	Y
0.0	45.00	5.6	6.94	33.50	55.50	20.8	100.5	166.5	U	ND	Y
0.0	45.00	7.5	9.25	32.68	55.50	27.8	98.0	166.5	U	ND	Y
0.0	25.000	3.6	4.40	17.15	30.83	13.2	51.4	92.5	U	ND	Y
%											Y
44.9											Y
28.0											Y
0.0											Y
84.6											Y
0.0											Y
6.1											Y
0.0											Y
%											Y
71.8	5.000	2.5	3.08	3.80	6.17	9.3	11.4	18.5	J	=	Y
28.2	5.000	1.7	2.06	3.72	6.17	6.2	11.1	18.5	U	ND	Y
0.0	25.000	6.3	7.71	18.36	30.83	23.1	55.1	92.5	U	ND	Y
0.0	25.000	5.0	6.17	18.23	30.83	18.5	54.7	92.5	U	ND	Y
0.0	25.000	4.2	5.14	18.15	30.83	15.4	54.5	92.5	U	ND	Y
0.0	25.000	3.6	4.40	18.09	30.83	13.2	54.3	92.5	U	ND	Y
0.0	25.000	3.1	3.85	18.04	30.83	11.6	54.1	92.5	U	ND	Y
0.0	25.000	2.8	3.43	18.01	30.83	10.3	54.0	92.5	U	ND	Y
0.0	25.000	2.5	3.08	17.98	30.83	9.3	53.9	92.5	U	ND	Y
0.0	25.000	2.3	2.80	17.96	30.83	8.4	53.9	92.5	U	ND	Y
0.0	25.000	2.1	2.57	17.93	30.83	7.7	53.8	92.5	U	ND	Y
0.0	25.000	2.1	2.57	17.93	30.83	7.7	53.8	92.5	U	ND	Y
100.0											Y
											Y
1.6	6.0	1.0	1.23	3.65	7.40	3.7	10.9	22.2			Y
2.5	6.0	0.9	1.06	4.34	7.40	3.2	13.0	22.2			Y
0.0	6.0	0.7	0.82	4.32	7.40	2.5	13.0	22.2			Y
0.0	6.0	0.5	0.67	3.94	7.40	2.0	11.8	22.2			Y
0.0	6.0	0.7	0.82	3.85	7.40	2.5	11.5	22.2			Y
0.0	6.0	0.5	0.67	3.92	7.40	2.0	11.8	22.2			Y
0.0	2.0	0.3	0.41	1.45	2.47	1.2	4.4	7.4	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					2.2		2.24		
					0.0			0.00	
7.9						7.88			
					0.0		0.00		
4.0						3.98			
	0.0					0.00			
					0.0				
					1.6		1.57		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
						0.0			
	0.0					0.00			
					0.0		0.00		
						0.0			
					0.0		0.00		
2.3						2.31			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
	0.0					0.00			
			0.0						0.00
						0.0			
			0.0						0.00
						0.0			
	0.0					0.00			
	0.0					0.00			
	0.0					0.00			
					0.0		0.00		
0.0						0.00			
					0.0				

| | | |

0.0						0.00			
17.6	0.0	53.2	0.0	3.8	0.0	17.6	3.8	0.0	0.0

2.31	0.00		
3.46	0.00		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
0.00					
0.00					
			0.00		
0.00					
0.00					
0.00					
				0.00	
				0.00	

0.00

0.00

25.28

0.00

6.69

2.84
6.64
0.00
0.00

0.00
0.00

0.00

0.00
0.00
0.00
0.00

0.00

0.00

0.00
0.00

0.00

11.76
0.00
0.00
0.00
0.00
0.00

0.00
0.00
0.00

0.0	0.0	0.0	0.0	53.2	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**07**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.23
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum |(Astdni) / (Cstdni)|$_i$

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.02E+04	1424	2.2	1.12	1.29
Acetylene	2	TRG	26.0	2.02E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.02E+04	5010	7.9	3.94	4.86
Propene	3	TRG	4.5	2.02E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.02E+04	2532	4.0	1.33	2.40
i-Butane	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.02E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.02E+04	998	1.6	0.39	0.90
n-Butane	4	TRG	54.1	2.02E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.02E+04	1468	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.02E+04	0	2.3	0.46	1.36
2,2-Dimethylbutane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.02E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.02E+04	16082	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.02E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.02E+04	1306	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.02E+04	4255	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.02E+04	0	25.3	4.21	13.49	
2-Methylheptane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.02E+04	897	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.02E+04	1805	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.02E+04	4222	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.02E+04	0	2.1	0.29	1.20	
i-Propylbenzene	7	TRG	98.2	2.02E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.02E+04	0	6.7	0.96	3.61	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.02E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.02E+04	0	1.4	0.18	0.83	
1,3-Diethylbenzene	8	TRG	106.2	2.02E+04	7481	2.8	0.35	1.54	
1,4-Diethylbenzene	8	TRG	106.2	2.02E+04	0	6.6	0.83	3.61	
n-Butylbenzene	8	TRG	104.2	2.02E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.02E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.02E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.02E+04	89153	140.2	23.36	82.53	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.02E+04	89153	140.2	140.17	91.91	
Total Volatile Organic Compoun	8	TRG	100.0	2.02E+04	0	0.0	0.00	0.00	
TPH (gasoline)	7	TRG	95.0	2.02E+04	0	0.0	0.00	0.00	
TPH (diesel)	15	TRG	198.0	2.02E+04	0	0.0	0.00	0.00	
TPH (hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
TPH (toluene)	7	TRG	92.1	2.02E+04	0	0.0	0.00	0.00	
TPH (methane)	1	TRG	16.0	2.02E+04	0	0.0	0.00	0.00	
TPH (Jet A Fuel)	13	TRG	177.0	2.02E+04	0	0.0	0.00	0.00	
TPH (Mineral Spirits)	8	TRG	117.8	2.02E+04	0	0.0	0.00	0.00	
C6+ (hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.02E+04		62.9			Sum ID
Paraffins	P	TRG	0.0	2.02E+04		17.6			Sum P
Isoparaffins	I	TRG	0.0	2.02E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.02E+04		53.2			Sum A
Napthlenes	N	TRG	0.0	2.02E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.02E+04		3.8			Sum O
Oxygenates		TRG	0.0	2.02E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.02E+04	6434	10.1	5.06	6.24	
C3 (propane)	3	TRG	44.1	2.02E+04	2532	4.0	1.33	2.40	
C4 (Butane)	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.02E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.02E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.02E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.02E+04	8966	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 08

File Name: 2510008A
Description: T-108
Canister: 556
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 10:30
Date Analyzed: 03/27/25 **Time:** 12:57
Can Factor: 1.26
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.26	3.79	499.84	1.45	4.36	575.63	
74-86-2	Acetylene	1.26	3.79	111.06	1.34	4.03	118.34	
74-84-0	Ethane	1.26	3.79	548.39	1.56	4.67	676.50	
115-07-1	Propene	0.84	2.52	90.37	1.45	4.36	155.93	
74-98-6	Propane	0.84	2.52	38.40	1.52	4.56	69.41	
75-28-5	i-Butane	0.63	1.89	ND	1.50	4.51	ND	ND
106-98-9	1-Butene	0.63	1.89	ND	1.45	4.35	ND	ND
106-97-8	n-Butane	0.63	1.89	976.64	1.50	4.51	2,325.53	
624-64-6	t-2-Butene	0.63	1.89	53.12	1.45	4.35	122.13	
590-18-1	c-2-Butene	0.63	1.89	ND	1.45	4.35	ND	ND
78-78-4	i-Pentane	0.50	1.51	299.04	1.49	4.48	884.85	
109-67-1	1-Pentene	0.50	1.51	221.96	1.45	4.35	637.69	
109-66-0	n-Pentane	0.50	1.51	237.95	1.49	4.48	703.13	
646-04-8	t-2-Pentene	0.50	1.51	ND	1.45	4.35	ND	ND
627-20-3	c-2-Pentene	0.50	1.51	290.55	1.45	4.35	834.75	
75-83-2	2,2-Dimethylbutane	0.42	1.26	23.66	1.49	4.46	83.59	
142-29-0	Cyclopentene	0.50	1.51	ND	1.41	4.23	ND	ND
287-92-3	Cyclopentane	0.50	1.51	112.76	1.45	4.35	323.96	
79-29-8	2,3-Dimethylbutane	0.42	1.26	21.72	1.49	4.46	76.73	
107-83-5	2-Methylpentane	0.42	1.26	79.19	1.49	4.46	279.75	
96-14-0	3-Methylpentane	0.42	1.26	55.70	1.49	4.46	196.78	
592-41-6	1-Hexene	0.42	1.26	ND	1.45	4.36	ND	ND
110-54-3	n-Hexane	0.42	1.26	79.50	1.49	4.46	280.85	
1120-62-3	3-Methylcyclopentene	0.42	1.26	95.86	1.42	4.25	322.54	
96-37-7	Methylcyclopentane	0.42	1.26	104.17	1.45	4.36	359.48	
108-08-7	2,4-Dimethylpentane	0.36	1.08	67.96	1.48	4.44	279.10	
71-43-2	Benzene	0.42	1.26	10,170.31	1.35	4.04	32,553.34	
110-82-7	Cyclohexane	0.42	1.26	ND	1.45	4.36	ND	ND
591-76-4	2-Methylhexane	0.36	1.08	20.35	1.48	4.44	83.58	
565-59-3	2,3-Dimethylpentane	0.36	1.08	13.84	1.48	4.44	56.82	
589-34-4	3-Methylhexane	0.36	1.08	6.74	1.48	4.44	27.67	
540-84-1	2,2,4-Trimethylpentane	0.32	0.95	83.91	1.48	4.43	392.71	
142-82-5	n-Heptane	0.36	1.08	172.41	1.48	4.44	708.01	
108-87-2	Methylcyclohexane	0.36	1.08	59.42	1.45	4.35	239.15	
592-13-2	2,5-Dimethylhexane	0.32	0.95	ND	1.48	4.43	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.95	12.26	1.48	4.43	57.36	
565-75-3	2,3,4-Trimethylpentane	0.32	0.95	ND	1.48	4.43	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.08	54.89	1.36	4.08	207.20	
584-94-1	2,3-Dimethylhexane	0.32	0.95	6.26	1.48	4.43	29.31	
592-27-8	2-Methylheptane	0.32	0.95	9.64	1.48	4.43	45.10	
589-53-7	4-Methylheptane	0.32	0.95	8.05	1.48	4.43	37.68	
589-81-1	3-Methylheptane	0.32	0.95	8.97	1.48	4.43	41.97	
111-65-9	n-Octane	0.32	0.95	8.90	1.48	4.43	41.68	
100-41-4	Ethylbenzene	0.32	0.95	20.45	1.37	4.12	89.01	
108-38-3	m,p-xylene	0.32	0.95	13.51	1.37	4.12	58.79	
100-42-5	Styrene	0.32	0.95	ND	1.35	4.04	ND	ND
95-47-6	o-xylene	0.32	0.95	6.46	1.37	4.12	28.10	
111-84-2	n-Nonane	0.28	0.84	8.82	1.47	4.42	46.40	
98-82-8	i-Propylbenzene	0.28	0.84	ND	1.38	4.14	ND	ND
103-65-1	n-propylbenzene	0.28	0.84	ND	1.38	4.14	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.84	ND	1.38	4.14	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.84	0.74	1.38	4.14	3.64	J
108-67-8	1,3,5-Trimethylbenzene	0.28	0.84	ND	1.38	4.14	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.84	ND	1.38	4.14	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.84	ND	1.38	4.14	ND	ND
124-18-5	n-Decane	0.25	0.76	ND	1.47	4.42	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.84	ND	1.38	4.14	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.76	ND	1.39	4.16	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.76	ND	1.39	4.16	ND	ND
104-51-8	n-Butylbenzene	0.25	0.76	ND	1.39	4.16	ND	ND
1120-21-4	Undecane	0.23	0.69	ND	1.47	4.41	ND	ND
91-20-3	Naphthalene	0.25	0.76	ND	1.33	3.98	ND	ND
112-40-3	Dodecane	0.21	0.63	ND	1.47	4.40	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.47	28.40	25,580.19	33.44	100.32	90,369.35	
TNMHC - C1	Total Non-Methane Hydrocarbons	56.79	170.38	153,481.12	37.24	111.73	100,643.36	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **08**
File Name: **2510008A**
Sample ID: **T-108**
Sampled: **3/19/2025**
Received: **03/21/25**
Analyzed: **03/27/25**
QCBatch: **032725-GCK**
Can: **556**
Can Factor: **1.26**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **10:30** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **12:57** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **364105**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C5 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.09	**4.09**	621346	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.13	**4.15**	138057	NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.20**	681700	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**4.59**	168510	O	O	L	238	290
74-98-6	Propane	P	5.20	**5.20**	**5.23**	71611	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.63**						127	351
67-56-1	Methanol		8.30	8.33						127	401
106-98-9	1-Butene	P	7.29	7.32						127	367
106-99-0	1,3-Butadiene		**7.48**	7.51						127	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.25**	2428123	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.66	**8.72**	132066	I	I	H	411	410
590-18-1	c-2-Butene	P	9.63	9.54						197	431
64-17-5	Ethanol		10.85	10.70						197	461
563-45-1	3-Methyl-1-butene	6	**11.05**	10.90						197	465
67-64-1	Acetone		11.52	11.37	**11.42**	79842	I	I	H	478	476
78-78-4	i-Pentane	P	11.37	11.22	**11.21**	929324	I	I	H	472	473
109-67-1	1-Pentene	P	12.30	12.15	**12.17**	689805	I	I	H	496	495
67-63-0	Isopropanol		12.65	12.50						197	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.21						197	497
109-66-0	n-Pentane	P	12.48	**12.33**	**12.33**	739492	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.40						174	503
646-04-8	t-2-Pentene	P	12.79	12.64						174	510
627-20-3	c-2-Pentene	P	13.08	12.93	**12.98**	902966	I	I	H	517	518
75-65-0	Tert butyl alcohol		**13.55**	13.40						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.47						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.62	**13.69**	88241	I	I	H	536	537
142-29-0	Cyclopentene	15	**14.61**	14.46						174	551
71-23-8	n-Propanol		**14.75**	14.60						174	558
287-92-3	Cyclopentane	P	14.88	14.73	**14.70**	350435	I	O	M	563	567
1634-04-4	Methyl tert butyl ether		**15.00**	14.85						174	569
79-29-8	2,3-Dimethylbutane	P	15.06	14.91	**14.89**	81002	I	I	H	568	570
107-83-5	2-Methylpentane	P	15.08	14.93	**14.99**	295308	I	I	H	570	571
96-14-0	3-Methylpentane	P	15.55	15.40	**15.49**	207720	I	I	H	584	583
592-41-6	1-Hexene	P	**15.80**	15.65						174	590
110-54-3	n-Hexane	P	16.17	**16.02**	**16.11**	296471	I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.24						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.39	**16.36**	357487	I	O	M	606	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.74						220	623
96-37-7	Methylcyclopentane		P	16.86	16.80	**16.79**	388493	I	I	H	621	622
108-08-7	2,4-Dimethylpentane		P	17.05	16.99	**17.00**	295702	I	I	H	627	626
71-43-2	Benzene		P	17.87	**17.81**	**17.82**	3.79E+07	I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.09						107	658
591-76-4	2-Methylhexane		P	18.38	18.33	**18.38**	88554	I	I	H	669	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.40	**18.45**	60199	I	I	H	672	671
589-34-4	3-Methylhexane		P	18.66	18.61	**18.57**	29313	I	I	H	675	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.70						107	687
994-05-8	Tert amyl methyl ether			**18.80**	18.75						107	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.04	**18.65**	417220	O	O	L	678	690
142-82-5	n-Heptane		P	19.41	19.36	**19.38**	750124	I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.04	**20.08**	258532	I	O	M	727	722
592-13-2	2,5-Dimethylhexane			20.35	20.30	**20.36**		I	O	M	737	734
589-43-5	2,4-Dimethylhexane			20.43	20.38	**20.40**	60944	I	I	H	739	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.88						-33	753
108-88-3	Toluene		P	21.12	**21.07**	**21.08**	238836	I	O	M	764	758
584-94-1	2,3-Dimethylhexane			21.20	21.16	**21.18**	31135	I	O	M	768	763
592-27-8	2-Methylheptane		P	21.33	21.29	**21.30**	47919	I	O	M	773	768
589-53-7	4-Methylheptane	48		**21.48**	21.44	**21.37**	40030	I	O	M	775	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.46						-33	772
589-81-1	3-Methylheptane		p	21.55	21.51	**21.53**	44592	I	O	M	781	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.06						-33	786
111-65-9	n-Octane		P	22.27	22.23	**22.02**	44277	O	I	M	800	800
100-41-4	Ethylbenzene		P	23.75	23.71	**22.26**	101690	O	O	L	806	855
108-38-3	m,p-xylene		P	23.95	23.91	**22.44**	67159	O	O	L	811	863
100-42-5	Styrene		P	24.40	24.36						231	881
95-47-6	o-xylene		P	24.57	24.53	**23.79**	32101	O	O	L	846	886
124-11-8	1-Nonene	64		24.60	24.56						231	889
111-84-2	n-Nonane		P	24.87	24.83	**25.89**	49358	O	I	M	900	900
98-82-8	i-Propylbenzene		P	25.36	25.32						-1028	919
103-65-1	n-propylbenzene		P	25.93	25.89						-1028	947
80-56-8	a-Pinene			26.09	26.05						-1028	950
620-14-4	3-Ethyltoluene		P	26.17	26.13	**26.14**		I	O	M	918	957
622-96-8	4-Ethyltoluene		P	26.26	26.22	**26.29**	4129	I	O	M	930	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.41	**26.45**		I	O	M	942	964
611-14-3	2-Ethyltoluene		P	26.61	26.57	**26.60**		I	O	M	953	975
127-91-3	b-Pinene			26.80	26.76	**26.75**		I	O	M	964	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.04	**26.97**		I	O	M	980	991
124-18-5	n-Decane		P	27.26	27.22	**27.23**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.51						-35	1014
496-11-7	Indan	81		27.55	27.51						-35	1020
5989-27-5	d-Limonene			27.65	27.61	**27.64**		I	I	H	1016	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.06	**28.01**		I	I	H	1030	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.19	**28.20**		I	I	H	1037	1037
104-51-8	n-Butylbenzene			28.45	28.41						-35	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.56						-35	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.71						-35	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.79						-35	1060
1120-21-4	Undecane		P	29.86	29.86	**29.86**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.41						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.46						-48	1124
91-20-3	Naphthalene		32.25	32.21						-48	1193
112-40-3	Dodecane	P	32.46	32.46	**32.46**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					0		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					95395800		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					95395800		0			
TVOC	Total Volatile Organic Compounds					0		0			
TPH(g)	TPH (gasoline)					0		0			
TPH(d)	TPH (diesel)					0		0			
TPH(h)	TPH (hexane)					0		0			
TPH(t)	TPH (toluene)					0		0			
TPHC	TPH (methane)					0		0			
TPH(Jet A)	TPH (Jet A Fuel)					0		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					0					
C6+	**C6+ (hexane)**		16.17	16.02	16.11	**0**		Sum from	16.02	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			1441103		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			240121		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**1681224**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	032725-GCK		
Hexane Std Area:	364105		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.26	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.26		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	999.68	499.84	575.63	999.68	499.84	575.63	575.63	575.63
Acetylene	26.0	2	222.12	111.06	118.34	222.12	111.06	118.34	118.34	118.34
Ethane	30.1	2	1096.78	548.39	676.50	1,096.78	548.39	676.50	676.50	676.50
Propene	42.1	3	271.11	90.37	155.93	271.11	90.37	155.93	155.93	155.93
Propane	44.1	3	115.21	38.40	69.41	115.21	38.40	69.41	69.41	69.41
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	3906.58	976.64	2325.53	3,906.58	976.64	2,325.53	2,325.53	2,325.53
t-2-Butene	56.1	4	212.48	53.12	122.13	212.48	53.12	122.13	122.13	122.13
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	128.46	42.82	101.96	128.46	42.82	101.96	101.96	101.96
i-Pentane	72.2	5	1495.18	299.04	884.85	1,495.18	299.04	884.85	884.85	884.85
1-Pentene	70.1	5	1109.82	221.96	637.69	1,109.82	221.96	637.69	637.69	637.69
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	1189.76	237.95	703.13	1,189.76	237.95	703.13	703.13	703.13
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	1452.77	290.55	834.75	1,452.77	290.55	834.75	834.75	834.75
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	141.97	23.66	83.59	141.97	23.66	83.59	83.59	83.59
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	563.81	112.76	323.96	563.81	112.76	323.96	323.96	323.96
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	130.32	21.72	76.73	130.32	21.72	76.73	76.73	76.73
2-Methylpentane	86.2	6	475.12	79.19	279.75	475.12	79.19	279.75	279.75	279.75
3-Methylpentane	86.2	6	334.20	55.70	196.78	334.20	55.70	196.78	196.78	196.78
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	476.99	**79.50**	280.85	476.99	79.50	280.85	280.85	280.85
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	575.16	95.86	322.54	575.16	95.86	322.54	322.54	322.54
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	625.04	104.17	359.48	625.04	104.17	359.48	359.48	359.48
2,4-Dimethylpentane	100.2	7	475.75	67.96	279.10	475.75	67.96	279.10	279.10	279.10
Benzene	78.1	6	61021.89	10170.31	32553.34	61,021.89	10,170.31	32,553.34	32,553.34	32,553.34
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	142.47	20.35	83.58	142.47	20.35	83.58	83.58	83.58
2,3-Dimethylpentane	100.2	7	96.85	13.84	56.82	96.85	13.84	56.82	56.82	56.82
3-Methylhexane	100.2	7	47.16	6.74	27.67	47.16	6.74	27.67	27.67	27.67
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	671.26	83.91	392.71	671.26	83.91	392.71	392.71	392.71
n-Heptane	100.2	7	1206.87	172.41	708.01	1,206.87	172.41	708.01	708.01	708.01
Methylcyclohexane	98.2	7	415.95	59.42	239.15	415.95	59.42	239.15	239.15	239.15
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	98.05	12.26	57.36	98.05	12.26	57.36	57.36	57.36
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	384.26	54.89	207.20	384.26	54.89	207.20	207.20	207.20
2,3-Dimethylhexane	114.2	8	50.09	6.26	29.31	50.09	6.26	29.31	29.31	29.31
2-Methylheptane	114.2	8	77.10	9.64	45.10	77.10	9.64	45.10	45.10	45.10
4-Methylheptane	114.2	8	64.40	8.05	37.68	64.40	8.05	37.68	37.68	37.68
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	71.74	8.97	41.97	71.74	8.97	41.97	41.97	41.97
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	71.24	8.90	41.68	71.24	8.90	41.68	41.68	41.68
Ethylbenzene	106.2	8	163.61	20.45	89.01	163.61	20.45	89.01	89.01	89.01
m,p-xylene	106.2	8	108.05	13.51	58.79	108.05	13.51	58.79	58.79	58.79
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	51.65	6.46	28.10	51.65	6.46	28.10	28.10	28.10
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	79.41	8.82	46.40	79.41	8.82	46.40	46.40	46.40
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	6.64	0.74	3.64	6.64	0.74	3.64	3.64	3.64
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	153481.12	25580.2	90369.3	153,481.12	25,580.19	90,369.35	90,369.35	90,369.35
Total Non-Methane Hydrocarbons	16	1.0	153481.12	153481.1	100643.4	153,481.12	153,481.12	100,643.36	100,643.36	100,643.36
Total Volatile Organic Compounds	100	7.6	0.00	0.0	0.0	ND	ND	ND	0	
TPH (gasoline)	95	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (diesel)	198	15.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (toluene)	92.14	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (methane)	16	1.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Jet A Fuel)	177	13.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Mineral Spirits)	117.81	8.0	0.00	0.0	0.0	ND	ND	ND	0	
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			80740.9	14736.6						
Paraffins			8142.8							
Isoparaffins			4371.7							
Aromatics			61736.1							
Napthlenes			2180.0							
Olefins			4268.0							
Oxygenates			128.5							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	2318.57	1159.29	1430.10	2,318.57	1,159.29	1,430.10	1,430.10	1,430.10
C3 (propane)	44.1	3	386.33	128.78	232.75	386.33	128.78	232.75	232.75	232.75
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			2704.9							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	1189.8	198.29	586.35					
Aliphatic C6-C8	100.2	7	1755.1	250.73	1029.63					
Aliphatic C8-C10	128.3	9	79.4	8.82	46.40					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	142.0	23.66	83.57					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	12514.5	15.5
Alkenes	4045.9	5.0
Alkynes	222.1	0.3
Cycloalkanes	1604.8	2.0
Cycloalkenes	575.2	0.7
Alcohols	0.0	0.0
Ketones	128.5	0.2
Ethers	0.0	0.0
Aromatics	61736.1	76.5
Terpenes	0.0	0.0

SDG: **225100**
Laboratory Number: **08**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
3.4	2.000	1.00	1.26	1.45	2.52	3.79	4.36	7.6		=		Y
0.8	2.000	1.00	1.26	1.34	2.52	3.79	4.03	7.6		=		Y
3.7	2.000	1.00	1.26	1.56	2.52	3.79	4.67	7.6		=		Y
0.6	2.000	0.67	0.84	1.45	2.52	2.52	4.36	7.6		=		Y
0.3	2.000	0.67	0.84	1.52	2.52	2.52	4.56	7.6		=		Y
0.0	2.000	0.50	0.63	1.50	2.52	1.89	4.51	7.6	U	ND		Y
0.0	2.000	2.00	2.52	3.31	2.52	7.57	9.93	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.45	2.52	1.89	4.35	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.40	2.52	1.89	4.20	7.6	U	ND		Y
6.6	2.000	0.50	0.63	1.50	2.52	1.89	4.51	7.6		=		Y
0.4	2.000	0.50	0.63	1.45	2.52	1.89	4.35	7.6		=		Y
0.0	2.000	0.50	0.63	1.45	2.52	1.89	4.35	7.6	U	ND		Y
0.0	2.000	1.00	1.26	2.38	2.52	3.79	7.15	7.6	U	ND		Y
0.0	2.000	0.40	0.50	1.45	2.52	1.51	4.35	7.6	U	ND		Y
0.3	2.000	0.67	0.84	2.00	2.52	2.52	6.01	7.6		=		Y
2.0	2.000	0.40	0.50	1.49	2.52	1.51	4.48	7.6		=		Y
1.5	2.000	0.40	0.50	1.45	2.52	1.51	4.35	7.6		=		Y
0.0	2.000	0.67	0.84	2.07	2.52	2.52	6.22	7.6	U	ND		Y
0.0	2.000	0.40	0.50	1.45	2.52	1.51	4.35	7.6	U	ND		Y
1.6	2.000	0.40	0.50	1.49	2.52	1.51	4.48	7.6		=		Y
0.0	2.000	0.40	0.50	1.41	2.52	1.51	4.23	7.6	U	ND		Y
0.0	2.000	0.40	0.50	1.45	2.52	1.51	4.35	7.6	U	ND		Y
2.0	2.000	0.40	0.50	1.45	2.52	1.51	4.35	7.6		=		Y
0.0	2.000	0.50	0.63	1.92	2.52	1.89	5.75	7.6	U	ND		Y
0.0	2.000	0.40	0.50	1.45	2.52	1.51	4.35	7.6	U	ND		Y
0.2	2.000	0.33	0.42	1.49	2.52	1.26	4.46	7.6		=		Y
0.0	2.000	0.40	0.50	1.41	2.52	1.51	4.23	7.6	U	ND		Y
0.0	2.000	0.67	0.84	2.07	2.52	2.52	6.22	7.6	U	ND		Y
0.8	2.000	0.40	0.50	1.45	2.52	1.51	4.35	7.6		=		Y
0.0	2.000	0.40	0.50	1.82	2.52	1.51	5.47	7.6	U	ND		Y
0.1	2.000	0.33	0.42	1.49	2.52	1.26	4.46	7.6		=		Y
0.5	2.000	0.33	0.42	1.49	2.52	1.26	4.46	7.6		=		Y
0.4	2.000	0.33	0.42	1.49	2.52	1.26	4.46	7.6		=		Y
0.0	2.000	0.33	0.42	1.45	2.52	1.26	4.36	7.6	U	ND		Y
0.5	2.000	0.33	0.42	1.49	2.52	1.26	4.46	7.6		=		Y
0.0	2.000	0.33	0.42	1.76	2.52	1.26	5.29	7.6	U	ND		Y

0.7	2.000	0.33	0.42	1.42	2.52	1.26	4.25	7.6		=	Y
0.0	2.000	0.33	0.42	1.76	2.52	1.26	5.29	7.6	U	ND	Y
0.7	2.000	0.33	0.42	1.45	2.52	1.26	4.36	7.6		=	Y
0.5	2.000	0.29	0.36	1.48	2.52	1.08	4.44	7.6		=	Y
69.0	2.000	0.33	0.42	1.35	2.52	1.26	4.04	7.6		=	Y
0.0	2.000	0.33	0.42	1.45	2.52	1.26	4.36	7.6	U	ND	Y
0.1	2.000	0.29	0.36	1.48	2.52	1.08	4.44	7.6		=	Y
0.1	2.000	0.29	0.36	1.48	2.52	1.08	4.44	7.6		=	Y
0.0	2.000	0.29	0.36	1.48	2.52	1.08	4.44	7.6		=	Y
0.0	2.000	0.29	0.36	1.45	2.52	1.08	4.35	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.76	2.52	1.26	5.29	7.6	U	ND	Y
0.6	2.000	0.25	0.32	1.48	2.52	0.95	4.43	7.6		=	Y
1.2	2.000	0.29	0.36	1.48	2.52	1.08	4.44	7.6		=	Y
0.4	2.000	0.29	0.36	1.45	2.52	1.08	4.35	7.6		=	Y
0.0	2.000	0.25	0.32	1.48	2.52	0.95	4.43	7.6	U	ND	Y
0.1	2.000	0.25	0.32	1.48	2.52	0.95	4.43	7.6		=	Y
0.0	2.000	0.25	0.32	1.48	2.52	0.95	4.43	7.6	U	ND	Y
0.4	2.000	0.29	0.36	1.36	2.52	1.08	4.08	7.6		=	Y
0.0	2.000	0.25	0.32	1.48	2.52	0.95	4.43	7.6		=	Y
0.1	2.000	0.25	0.32	1.48	2.52	0.95	4.43	7.6		=	Y
0.1	2.000	0.25	0.32	1.48	2.52	0.95	4.43	7.6		=	Y
0.0	2.000	0.25	0.32	1.48	2.52	0.95	4.43	7.6	U	ND	Y
0.1	2.000	0.25	0.32	1.48	2.52	0.95	4.43	7.6		=	Y
0.0	2.000	0.25	0.32	1.45	2.52	0.95	4.35	7.6	U	ND	Y
0.1	2.000	0.25	0.32	1.48	2.52	0.95	4.43	7.6		=	Y
0.1	2.000	0.25	0.32	1.37	2.52	0.95	4.12	7.6		=	Y
0.1	2.000	0.25	0.32	1.37	2.52	0.95	4.12	7.6		=	Y
0.0	2.000	0.25	0.32	1.35	2.52	0.95	4.04	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.37	2.52	0.95	4.12	7.6		=	Y
0.0	2.000	0.22	0.28	1.45	2.52	0.84	4.35	7.6	U	ND	Y
0.1	2.000	0.22	0.28	1.47	2.52	0.84	4.42	7.6		=	Y
0.0	2.000	0.22	0.28	1.38	2.52	0.84	4.14	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.38	2.52	0.84	4.14	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.41	2.52	0.76	4.23	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.38	2.52	0.84	4.14	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.38	2.52	0.84	4.14	7.6	J	=	Y
0.0	2.000	0.22	0.28	1.38	2.52	0.84	4.14	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.38	2.52	0.84	4.14	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.41	2.52	0.76	4.23	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.38	2.52	0.84	4.14	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.47	2.52	0.76	4.42	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.38	2.52	0.84	4.14	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.52	0.84	4.08	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.41	2.52	0.76	4.23	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.52	0.76	4.16	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.52	0.76	4.16	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.52	0.76	4.16	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.52	0.76	4.16	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.52	0.76	4.16	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.52	0.76	4.16	7.6	U	ND	Y
0.0	2.000	0.18	0.23	1.47	2.52	0.69	4.41	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.52	0.76	4.16	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.52	0.76	4.16	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.33	2.52	0.76	3.98	7.6	U	ND	Y

0.0	2.000	0.17	0.21	1.47	2.52	0.63	4.40	7.6	U	ND	Y
%											Y
100.0	45.00	7.5	9.47	33.44	56.79	28.4	100.3	170.4		=	Y
100.0	45.00	45.0	56.79	37.24	56.79	170.4	111.7	170.4		=	Y
0.0	45.00	5.9	7.47	30.63	56.79	22.4	91.9	170.4	U	ND	Y
0.0	45.00	6.4	8.11	31.59	56.79	24.3	94.8	170.4	U	ND	Y
0.0	45.00	3.0	3.79	30.73	56.79	11.4	92.2	170.4	U	ND	Y
0.0	45.00	7.5	9.47	33.44	56.79	28.4	100.3	170.4	U	ND	Y
0.0	45.00	6.4	8.11	30.64	56.79	24.3	91.9	170.4	U	ND	Y
0.0	45.00	45.0	56.79	37.24	56.79	170.4	111.7	170.4	U	ND	Y
0.0	45.00	3.5	4.37	31.69	56.79	13.1	95.1	170.4	U	ND	Y
0.0	45.00	5.6	7.10	34.28	56.79	21.3	102.8	170.4	U	ND	Y
0.0	45.00	7.5	9.47	33.44	56.79	28.4	100.3	170.4	U	ND	Y
0.0	25.000	3.6	4.51	17.55	31.55	13.5	52.6	94.7	U	ND	Y
%											Y
52.6											Y
10.1											Y
5.4											Y
76.5											Y
2.7											Y
5.3											Y
0.2											Y
%											Y
85.7	5.000	2.5	3.16	3.89	6.31	9.5	11.7	18.9		=	Y
14.3	5.000	1.7	2.10	3.80	6.31	6.3	11.4	18.9		=	Y
0.0	25.000	6.3	7.89	18.79	31.55	23.7	56.4	94.7	U	ND	Y
0.0	25.000	5.0	6.31	18.66	31.55	18.9	56.0	94.7	U	ND	Y
0.0	25.000	4.2	5.26	18.58	31.55	15.8	55.7	94.7	U	ND	Y
0.0	25.000	3.6	4.51	18.51	31.55	13.5	55.5	94.7	U	ND	Y
0.0	25.000	3.1	3.94	18.46	31.55	11.8	55.4	94.7	U	ND	Y
0.0	25.000	2.8	3.51	18.43	31.55	10.5	55.3	94.7	U	ND	Y
0.0	25.000	2.5	3.16	18.40	31.55	9.5	55.2	94.7	U	ND	Y
0.0	25.000	2.3	2.87	18.37	31.55	8.6	55.1	94.7	U	ND	Y
0.0	25.000	2.1	2.63	18.35	31.55	7.9	55.1	94.7	U	ND	Y
0.0	25.000	2.1	2.63	18.35	31.55	7.9	55.1	94.7	U	ND	Y
100.0											Y
											Y
0.8	6.0	1.0	1.26	3.73	7.57	3.8	11.2	22.7			Y
1.1	6.0	0.9	1.08	4.44	7.57	3.2	13.3	22.7			Y
0.1	6.0	0.7	0.84	4.42	7.57	2.5	13.3	22.7			Y
0.0	6.0	0.5	0.69	4.03	7.57	2.1	12.1	22.7			Y
0.0	6.0	0.7	0.84	3.94	7.57	2.5	11.8	22.7			Y
0.0	6.0	0.5	0.69	4.01	7.57	2.1	12.0	22.7			Y
0.2	2.0	0.3	0.42	1.49	2.52	1.3	4.5	7.6		=	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
				999.7			999.68		
				222.1				222.12	
1096.8						1096.78			
				271.1			271.11		
115.2						115.21			
	0.0					0.00			
					0.0				
				0.0			0.00		
				0.0			0.00		
3906.6						3906.58			
				212.5			212.48		
				0.0			0.00		
					0.0				
				0.0			0.00		
					128.5				
	1495.2					1495.18			
				1109.8			1109.82		
					0.0				
				0.0			0.00		
1189.8						1189.76			
				0.0			0.00		
				0.0			0.00		
				1452.8			1452.77		
					0.0				
				0.0			0.00		
	142.0					141.97			
			0.0						0.00
					0.0				
			563.8						563.81
					0.0				
	130.3					130.32			
	475.1					475.12			
	334.2					334.20			
				0.0			0.00		
477.0						476.99			
					0.0				

		575.2				
			0.0			
		625.0				625.04
	475.8			475.75		
		61021.9				
		0.0		0.00		
	142.5			142.47		
	96.9			96.85		
	47.2			47.16		
			0.0		0.00	
			0.0			
	671.3			671.26		
1206.9				1206.87		
		415.9				415.95
	0.0			0.00		
	98.1			98.05		
	0.0			0.00		
		384.3				
	50.1			50.09		
	77.1			77.10		
	64.4			64.40		
	0.0			0.00		
	71.7			71.74		
			0.0		0.00	
71.2				71.24		
		163.6				
		108.1				
		0.0				
		51.6				
			0.0		0.00	
79.4				79.41		
		0.0				
		0.0				
			0.0			
		0.0				
		6.6				
		0.0				
		0.0				
			0.0			
		0.0				
0.0				0.00		
		0.0				
		0.0				
			0.0			
		0.0				
		0.0				
		0.0				
		0.0				
		0.0				
		0.0				
0.0				0.00		
		0.0				
		0.0				
		0.0				

0.0						0.00			
8142.8	4371.7	61736.1	2180.0	4268.0	128.5	12514.5	4045.9	222.1	1604.8

1189.76	1081.61		
1755.09	1794.89		
79.41	0.00		
0.00	0.00		
		79.41	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
		128.46			
	0.00				
	0.00				
	0.00				
			0.00		
			0.00		

575.16

0.00

61021.89

0.00

384.26

163.61
108.05
0.00
51.65

0.00
0.00
0.00
0.00
6.64
0.00
0.00
0.00
0.00

0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00

575.2	0.0	128.5	0.0	61736.1	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**08**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.26	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons (Avg RFn) Ansamp SV CDF 1000 = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) MW / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.02E+04	621346	999.7	499.84	575.63
Acetylene	2	TRG	26.0	2.02E+04	138057	222.1	111.06	118.34
Ethane	2	TRG	30.1	2.02E+04	681700	1096.8	548.39	676.50
Propene	3	TRG	4.5	2.02E+04	4	271.1	90.37	155.93
Propane	3	TRG	44.1	2.02E+04	71611	115.2	38.40	69.41
i-Butane	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.02E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.02E+04	2428123	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.02E+04	132066	3906.6	976.64	2325.53
c-2-Butene	4	TRG	56.1	2.02E+04	0	212.5	53.12	122.13
Ethanol	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.02E+04	929324	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.02E+04	689805	128.5	42.82	101.96
Isopropanol	5	TRG	72.2	2.02E+04	0	1495.2	299.04	884.85
n-Pentane	5	TRG	70.1	2.02E+04	739492	1109.8	221.96	637.69
Isoprene	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.02E+04	902966	1189.8	237.95	703.13
2,2-Dimethylbutane	5	TRG	68.1	2.02E+04	88241	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.02E+04	350435	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.02E+04	81002	1452.8	290.55	834.75
2-Methylpentane	4	TRG	74.1	2.02E+04	295308	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.02E+04	207720	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.02E+04	296471	142.0	23.66	83.59
Methylcyclopentane	5	TRG	68.1	2.02E+04	388493	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.02E+04	295702	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.02E+04	37928000	563.8	112.76	323.96
Cyclohexane	5	TRG	88.2	2.02E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.02E+04	88554	130.3	21.72	76.73
2,3-Dimethylpentane	6	TRG	86.2	2.02E+04	60199	475.1	79.19	279.75
3-Methylhexane	6	TRG	86.2	2.02E+04	29313	334.2	55.70	196.78
2,2,4-Trimethylpentane	6	TRG	84.2	2.02E+04	417220	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.02E+04	750124	477.0	79.50	280.85
Methylcyclohexane	6	TRG	102.2	2.02E+04	258532	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.02E+04	0	575.2	95.86	322.54
2,4-Dimethylhexane	6	TRG	102.2	2.02E+04	60944	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	625.0	104.17	359.48	
Toluene	7	TRG	100.2	2.02E+04	238836	475.8	67.96	279.10	
2,3-Dimethylhexane	6	TRG	78.1	2.02E+04	31135	61021.9	10170.31	32553.34	
2-Methylheptane	6	TRG	84.2	2.02E+04	47919	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.02E+04	44592	142.5	20.35	83.58	
n-Octane	7	TRG	100.2	2.02E+04	44277	96.9	13.84	56.82	
Ethylbenzene	7	TRG	100.2	2.02E+04	101690	47.2	6.74	27.67	
m,p-xylene	7	TRG	98.2	2.02E+04	67159	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.02E+04	32101	671.3	83.91	392.71	
n-Nonane	7	TRG	100.2	2.02E+04	49358	1206.9	172.41	708.01	
i-Propylbenzene	7	TRG	98.2	2.02E+04	0	415.9	59.42	239.15	
n-propylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.02E+04	0	98.1	12.26	57.36	
3-Ethyltoluene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.02E+04	4129	384.3	54.89	207.20	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	50.1	6.26	29.31	
2-Ethyltoluene	8	TRG	114.2	2.02E+04	0	77.1	9.64	45.10	
b-Pinene	8	TRG	114.2	2.02E+04	0	64.4	8.05	37.68	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.02E+04	0	71.7	8.97	41.97	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.02E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.02E+04	0	71.2	8.90	41.68	
1,3-Diethylbenzene	8	TRG	106.2	2.02E+04	0	163.6	20.45	89.01	
1,4-Diethylbenzene	8	TRG	106.2	2.02E+04	0	108.1	13.51	58.79	
n-Butylbenzene	8	TRG	104.2	2.02E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.02E+04	0	51.6	6.46	28.10	
Dodecane	9	TRG	126.2	2.02E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.02E+04	95395800	153481.1	25580.19	90369.35	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.02E+04	95395800	153481.1	153481.12	100643.36	
Total Volatile Organic Compoun	8	TRG	100.0	2.02E+04	0	0.0	0.00	0.00	
TPH (gasoline)	7	TRG	95.0	2.02E+04	0	0.0	0.00	0.00	
TPH (diesel)	15	TRG	198.0	2.02E+04	0	0.0	0.00	0.00	
TPH (hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
TPH (toluene)	7	TRG	92.1	2.02E+04	0	0.0	0.00	0.00	
TPH (methane)	1	TRG	16.0	2.02E+04	0	0.0	0.00	0.00	
TPH (Jet A Fuel)	13	TRG	177.0	2.02E+04	0	0.0	0.00	0.00	
TPH (Mineral Spirits)	8	TRG	117.8	2.02E+04	0	0.0	0.00	0.00	
C6+ (hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.02E+04		80740.9			Sum ID
Paraffins	P	TRG	0.0	2.02E+04		8142.8			Sum P
Isoparaffins	I	TRG	0.0	2.02E+04		4371.7			Sum I
Aromatics	A	TRG	0.0	2.02E+04		61736.1			Sum A
Napthlenes	N	TRG	0.0	2.02E+04		2180.0			Sum N
Olefins	O	TRG	0.0	2.02E+04		4268.0			Sum O
Oxygenates		TRG	0.0	2.02E+04		128.5			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.02E+04	1441103	2318.6	1159.29	1430.10	
C3 (propane)	3	TRG	44.1	2.02E+04	240121	386.3	128.78	232.75	
C4 (Butane)	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.02E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.02E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.02E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.02E+04	1681224	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 09

File Name: 2510009A
Description: T-109
Canister: 694
QC_Batch: 040325-GCK

Date Sampled: 03/19/25 **Time:** 11:25
Date Analyzed: 04/03/25 **Time:** 17:00
Can Factor: 1.30
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.30	3.90	ND	1.50	4.49	ND	ND
74-86-2	Acetylene	1.30	3.90	ND	1.38	4.15	ND	ND
74-84-0	Ethane	1.30	3.90	2.87	1.60	4.81	3.55	J
115-07-1	Propene	0.87	2.60	ND	1.49	4.48	ND	ND
74-98-6	Propane	0.87	2.60	2.13	1.56	4.69	3.85	J
75-28-5	i-Butane	0.65	1.95	ND	1.55	4.64	ND	ND
106-98-9	1-Butene	0.65	1.95	ND	1.49	4.48	ND	ND
106-97-8	n-Butane	0.65	1.95	2.70	1.55	4.64	6.42	
624-64-6	t-2-Butene	0.65	1.95	ND	1.49	4.48	ND	ND
590-18-1	c-2-Butene	0.65	1.95	ND	1.49	4.48	ND	ND
78-78-4	i-Pentane	0.52	1.56	ND	1.54	4.61	ND	ND
109-67-1	1-Pentene	0.52	1.56	0.64	1.49	4.48	1.84	J
109-66-0	n-Pentane	0.52	1.56	ND	1.54	4.61	ND	ND
646-04-8	t-2-Pentene	0.52	1.56	3.22	1.49	4.48	9.26	
627-20-3	c-2-Pentene	0.52	1.56	ND	1.49	4.48	ND	ND
75-83-2	2,2-Dimethylbutane	0.43	1.30	ND	1.53	4.59	ND	ND
142-29-0	Cyclopentene	0.52	1.56	ND	1.45	4.35	ND	ND
287-92-3	Cyclopentane	0.52	1.56	ND	1.49	4.48	ND	ND
79-29-8	2,3-Dimethylbutane	0.43	1.30	ND	1.53	4.59	ND	ND
107-83-5	2-Methylpentane	0.43	1.30	ND	1.53	4.59	ND	ND
96-14-0	3-Methylpentane	0.43	1.30	ND	1.53	4.59	ND	ND
592-41-6	1-Hexene	0.43	1.30	ND	1.49	4.48	ND	ND
110-54-3	n-Hexane	0.43	1.30	ND	1.53	4.59	ND	ND
1120-62-3	3-Methylcyclopentene	0.43	1.30	ND	1.46	4.37	ND	ND
96-37-7	Methylcyclopentane	0.43	1.30	3.26	1.49	4.48	11.26	
108-08-7	2,4-Dimethylpentane	0.37	1.11	ND	1.52	4.57	ND	ND
71-43-2	Benzene	0.43	1.30	26.30	1.39	4.16	84.19	
110-82-7	Cyclohexane	0.43	1.30	0.48	1.49	4.48	1.66	J
591-76-4	2-Methylhexane	0.37	1.11	ND	1.52	4.57	ND	ND
565-59-3	2,3-Dimethylpentane	0.37	1.11	ND	1.52	4.57	ND	ND
589-34-4	3-Methylhexane	0.37	1.11	0.76	1.52	4.57	3.14	J
540-84-1	2,2,4-Trimethylpentane	0.32	0.97	ND	1.52	4.56	ND	ND
142-82-5	n-Heptane	0.37	1.11	ND	1.52	4.57	ND	ND
108-87-2	Methylcyclohexane	0.37	1.11	1.42	1.49	4.48	5.71	
592-13-2	2,5-Dimethylhexane	0.32	0.97	ND	1.52	4.56	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.97	0.40	1.52	4.56	1.85	J
565-75-3	2,3,4-Trimethylpentane	0.32	0.97	ND	1.52	4.56	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.37	1.11	6.20	1.40	4.20	23.39	
584-94-1	2,3-Dimethylhexane	0.32	0.97	ND	1.52	4.56	ND	ND
592-27-8	2-Methylheptane	0.32	0.97	1.20	1.52	4.56	5.61	
589-53-7	4-Methylheptane	0.32	0.97	1.13	1.52	4.56	5.31	
589-81-1	3-Methylheptane	0.32	0.97	1.27	1.52	4.56	5.95	
111-65-9	n-Octane	0.32	0.97	ND	1.52	4.56	ND	ND
100-41-4	Ethylbenzene	0.32	0.97	3.55	1.41	4.24	15.44	
108-38-3	m,p-xylene	0.32	0.97	6.51	1.41	4.24	28.35	
100-42-5	Styrene	0.32	0.97	1.31	1.39	4.16	5.57	
95-47-6	o-xylene	0.32	0.97	3.77	1.41	4.24	16.40	
111-84-2	n-Nonane	0.29	0.87	ND	1.52	4.55	ND	ND
98-82-8	i-Propylbenzene	0.29	0.87	0.88	1.42	4.27	4.34	
103-65-1	n-propylbenzene	0.29	0.87	ND	1.42	4.27	ND	ND
620-14-4	3-Ethyltoluene	0.29	0.87	ND	1.42	4.27	ND	ND
622-96-8	4-Ethyltoluene	0.29	0.87	ND	1.42	4.27	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.29	0.87	ND	1.42	4.27	ND	ND
611-14-3	2-Ethyltoluene	0.29	0.87	ND	1.42	4.27	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	0.87	ND	1.42	4.27	ND	ND
124-18-5	n-Decane	0.26	0.78	ND	1.51	4.54	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.29	0.87	ND	1.42	4.27	ND	ND
141-93-5	1,3-Diethylbenzene	0.26	0.78	ND	1.43	4.29	ND	ND
105-05-5	1,4-Diethylbenzene	0.26	0.78	ND	1.43	4.29	ND	ND
104-51-8	n-Butylbenzene	0.26	0.78	ND	1.43	4.29	ND	ND
1120-21-4	Undecane	0.24	0.71	ND	1.51	4.54	ND	ND
91-20-3	Naphthalene	0.26	0.78	ND	1.36	4.09	ND	ND
112-40-3	Dodecane	0.22	0.65	ND	1.51	4.53	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.74	29.22	205.91	34.41	103.23	727.45	
TNMHC - C1	Total Non-Methane Hydrocarbons	58.44	175.33	1,235.48	38.32	114.97	810.15	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **09**
File Name: **2510009A**
Sample ID: **T-109**
Sampled: **3/19/2025**
Received: **03/21/25**
Analyzed: **04/03/25**
QCBatch: **040325-GCK**
Can: **694**
Can Factor: **1.30**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **11:25** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **17:00** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **402031**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C4 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.00			NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.04			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.11**	3473	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.14**		I	O	M	294	290
74-98-6	Propane	P	5.20	**5.20**	**5.20**	3863	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.60**	**6.55**		I	O	M	342	351
67-56-1	Methanol		8.30	8.30						140	401
106-98-9	1-Butene	P	7.29	7.29	**7.36**		I	I	H	367	367
106-99-0	1,3-Butadiene		**7.48**	7.48						140	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.44**	6513	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.85	**8.73**		O	I	M	407	410
590-18-1	c-2-Butene	P	9.63	9.73						191	431
64-17-5	Ethanol		10.85	10.84						191	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.04						191	465
67-64-1	Acetone		11.52	11.51						191	476
78-78-4	i-Pentane	P	11.37	11.36	**11.38**		I	I	H	473	473
109-67-1	1-Pentene	P	12.30	12.29	**12.32**	1931	I	I	H	496	495
67-63-0	Isopropanol		12.65	12.64						191	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.35						191	497
109-66-0	n-Pentane	P	12.48	**12.47**	**12.47**	1039	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.54						162	503
646-04-8	t-2-Pentene	P	12.79	12.78	**12.78**	9730	I	I	H	508	510
627-20-3	c-2-Pentene	P	13.08	13.07						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.54						280	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.61						280	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.76	**13.78**		I	I	H	536	537
142-29-0	Cyclopentene	15	**14.61**	14.60						162	551
71-23-8	n-Propanol		**14.75**	14.74						162	558
287-92-3	Cyclopentane	P	14.88	14.87	**14.89**		I	I	H	566	567
1634-04-4	Methyl tert butyl ether		**15.00**	14.99						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.05						162	570
107-83-5	2-Methylpentane	P	15.08	15.07	**15.07**		I	I	H	570	571
96-14-0	3-Methylpentane	P	15.55	15.54	**15.56**		I	I	H	584	583
592-41-6	1-Hexene	P	**15.80**	15.79						162	590
110-54-3	n-Hexane	P	16.17	**16.16**	**16.16**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.29						263	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.44	**16.42**		I	O	M	606	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.79						215	623
96-37-7	Methylcyclopentane		P	16.86	16.85	**16.78**	11827	I	I	H	619	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.04	**17.05**	1350	I	I	H	627	626
71-43-2	Benzene		P	17.87	**17.86**	**17.85**	95328	I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.12	**18.14**	1747	I	O	M	661	658
591-76-4	2-Methylhexane		P	18.38	18.36	**18.39**		I	I	H	669	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.43	**18.46**		I	I	H	671	671
589-34-4	3-Methylhexane		P	18.66	18.64	**18.67**	3230	I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.73						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.78						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.07	**19.03**		I	I	H	689	690
142-82-5	n-Heptane		P	19.41	19.39	**19.40**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.07	**20.11**	6000	I	I	H	725	722
592-13-2	2,5-Dimethylhexane			20.35	20.33	**20.36**		I	I	H	733	734
589-43-5	2,4-Dimethylhexane			20.43	20.41	**20.44**	1909	I	I	H	736	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.91	**20.95**		I	I	H	754	753
108-88-3	Toluene		P	21.12	**21.10**	**21.13**	26197	I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.21	**21.21**		I	I	H	763	763
592-27-8	2-Methylheptane		P	21.33	21.34	**21.35**	5790	I	I	H	768	768
589-53-7	4-Methylheptane	48		**21.48**	21.49	**21.41**	5481	I	O	M	770	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.51						24	772
589-81-1	3-Methylheptane		p	21.55	21.56	**21.57**	6145	I	I	H	776	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.11						24	786
111-65-9	n-Octane		P	22.27	22.28	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.76	**23.77**	17144	I	I	H	857	855
108-38-3	m,p-xylene		P	23.95	23.96	**23.99**	31477	I	I	H	866	863
100-42-5	Styrene		P	24.40	24.41	**24.47**	6308	I	I	H	884	881
95-47-6	o-xylene		P	24.57	24.58	**24.66**	18205	I	O	M	891	886
124-11-8	1-Nonene	64		24.60	24.61						-53	889
111-84-2	n-Nonane		P	24.87	24.88	**24.88**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.37	**25.42**	4793	I	O	M	923	919
103-65-1	n-propylbenzene		P	25.93	25.94	**25.94**		I	I	H	945	947
80-56-8	a-Pinene			26.09	26.10	**26.01**		I	I	H	947	950
620-14-4	3-Ethyltoluene		P	26.17	26.18	**26.18**		I	I	H	955	957
622-96-8	4-Ethyltoluene		P	26.26	26.27	**26.33**		I	I	H	961	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.46	**26.51**		I	O	M	968	964
611-14-3	2-Ethyltoluene		P	26.61	26.62	**26.62**		I	I	H	973	975
127-91-3	b-Pinene			26.80	26.81	**26.87**		I	O	M	984	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.09	**27.01**		I	I	H	989	991
124-18-5	n-Decane		P	27.26	27.27	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.56						-48	1014
496-11-7	Indan	81		27.55	27.56						-48	1020
5989-27-5	d-Limonene			27.65	27.66						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.11	**28.03**		I	I	H	1030	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.24	**28.21**		I	I	H	1037	1037
104-51-8	n-Butylbenzene			28.45	28.46						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.61						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.76						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.84						-48	1060
1120-21-4	Undecane		P	29.86	29.92	**29.86**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.46						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.51						-48	1124
91-20-3	Naphthalene		32.25	32.26						-48	1193
112-40-3	Dodecane	P	32.46	32.52	**32.46**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					1042568		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					746249		132486			
TNMHC - C1	Total Non-Methane Hydrocarbons					746249		81309			
TVOC	Total Volatile Organic Compounds					746249		39986			
TPH(g)	TPH (gasoline)					746249		42538			
TPH(d)	TPH (diesel)					746249		0			
TPH(h)	TPH (hexane)					746249		0			
TPH(t)	TPH (toluene)					746249		0			
TPHC	TPH (methane)					746249		0			
TPH(Jet A)	TPH (Jet A Fuel)					746249		**296319**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					746249					
C6+	**C6+ (hexane)**		16.17	16.16	16.16	**0**		Sum from	16.16	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			3473		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			3863		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**7336**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040325-GCK		
Hexane Std Area:	402031		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.30	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.30		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	5.75	2.87	3.55	5.75	2.87	3.55	3.55	3.55
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	6.40	2.13	3.85	6.40	2.13	3.85	3.85	3.85
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	10.78	2.70	6.42	10.78	2.70	6.42	6.42	6.42
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	3.20	0.64	1.84	3.20	0.64	1.84	1.84	1.84
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	1.72	0.34	1.02	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	16.11	3.22	9.26	16.11	3.22	9.26	9.26	9.26
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	19.58	3.26	11.26	19.58	3.26	11.26	11.26	11.26
2,4-Dimethylpentane	100.2	7	2.24	0.32	1.31	ND	ND	ND	0	
Benzene	78.1	6	157.82	26.30	84.19	157.82	26.30	84.19	84.19	84.19
Cyclohexane	84.2	6	2.89	0.48	1.66	2.89	0.48	1.66	1.66	1.66
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	5.35	0.76	3.14	5.35	0.76	3.14	3.14	3.14
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	9.93	1.42	5.71	9.93	1.42	5.71	5.71	5.71
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	3.16	0.40	1.85	3.16	0.40	1.85	1.85	1.85
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	43.37	6.20	23.39	43.37	6.20	23.39	23.39	23.39
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	9.59	1.20	5.61	9.59	1.20	5.61	5.61	5.61
4-Methylheptane	114.2	8	9.07	1.13	5.31	9.07	1.13	5.31	5.31	5.31
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	10.17	1.27	5.95	10.17	1.27	5.95	5.95	5.95
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	28.38	3.55	15.44	28.38	3.55	15.44	15.44	15.44
m,p-xylene	106.2	8	52.11	6.51	28.35	52.11	6.51	28.35	28.35	28.35
Styrene	104.2	8	10.44	1.31	5.57	10.44	1.31	5.57	5.57	5.57
o-xylene	106.2	8	30.14	3.77	16.40	30.14	3.77	16.40	16.40	16.40
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	7.94	0.88	4.34	7.94	0.88	4.34	4.34	4.34
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	1235.48	205.9	727.4	1,235.48	205.91	727.45	727.45	727.45
Total Non-Methane Hydrocarbons	16	1.0	1235.48	1235.5	810.1	1,235.48	1,235.48	810.15	810.15	810.15
Total Volatile Organic Compounds	100	7.6	1235.48	162.6	666.2	1,235.48	162.56	666.24	666.24	666.24
TPH (gasoline)	95	7.0	1235.48	176.5	687.2	1,235.48	176.50	687.18	687.18	687.18
TPH (diesel)	198	15.0	1235.48	82.4	668.4	1,235.48	82.37	668.37	668.37	668.37
TPH (hexane)	86.2	6.0	1235.48	205.9	727.4	1,235.48	205.91	727.45	727.45	727.45
TPH (toluene)	92.14	7.0	1235.48	176.5	666.5	1,235.48	176.50	666.49	666.49	666.49
TPH (methane)	16	1.0	1235.48	1235.5	810.1	1,235.48	1,235.48	810.15	810.15	810.15
TPH (Jet A Fuel)	177	13.0	1235.48	95.0	689.4	1,235.48	95.04	689.40	689.40	689.40
TPH (Mineral Spirits)	117.81	8.0	1235.48	154.4	745.7	1,235.48	154.43	745.65	745.65	745.65
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			438.2	70.7						
Paraffins			24.6							
Isoparaffins			39.6							
Aromatics			330.2							
Napthlenes			32.4							
Olefins			19.3							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	5.75	2.87	3.55	ND	ND	ND	0	
C3 (propane)	44.1	3	6.40	2.13	3.85	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			12.1							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	1.7	0.29	0.85					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			67.1	15.3
Alkenes			19.3	4.4
Alkynes			0.0	0.0
Cycloalkanes			29.5	6.7
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			330.2	75.4
Terpenes			0.0	0.0

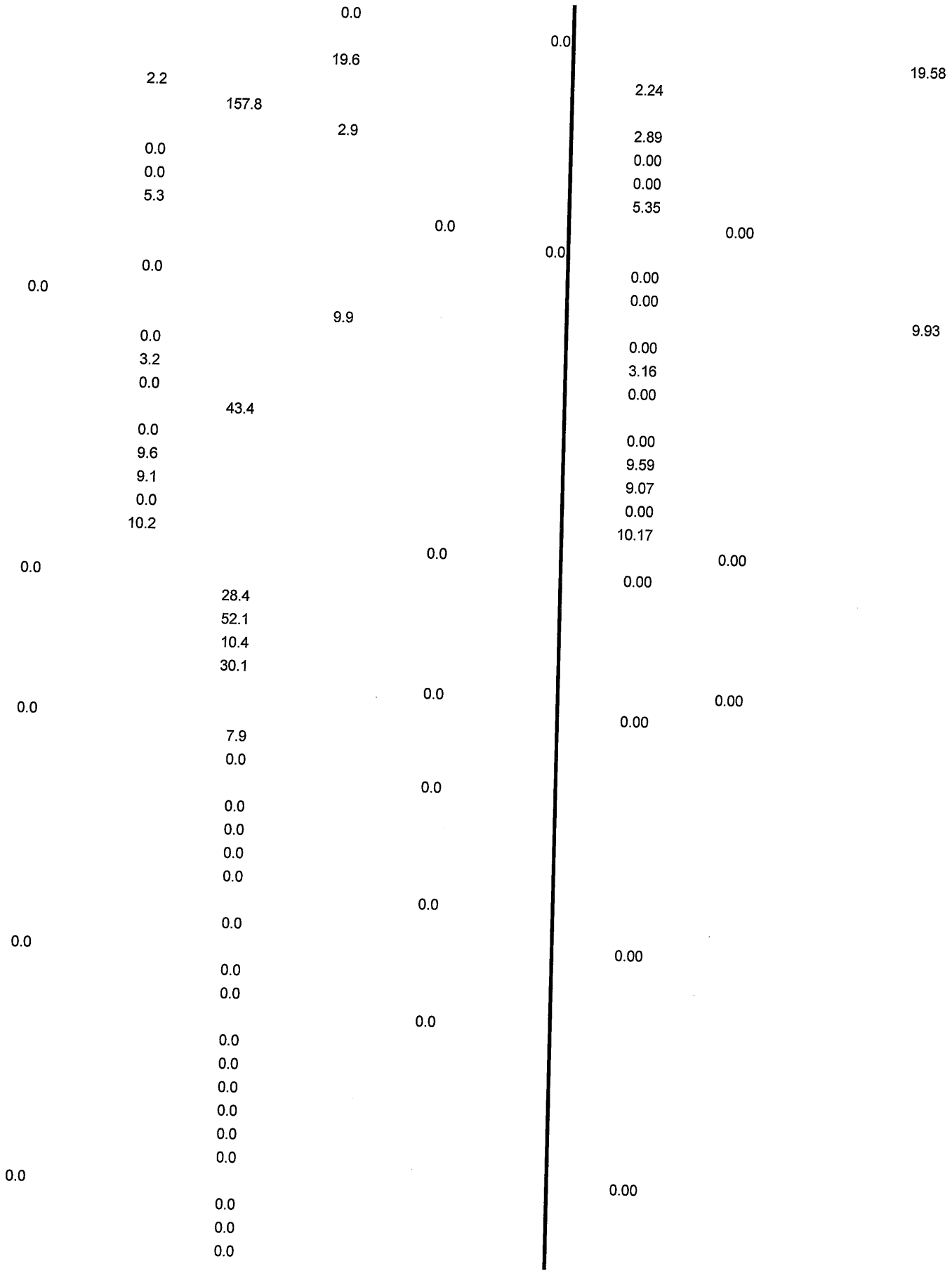
SDG: **225100**
Laboratory Number: **09**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
0.0	2.000	1.00	1.30	1.50	2.60	3.90	4.49	7.8	U	ND		Y
0.0	2.000	1.00	1.30	1.38	2.60	3.90	4.15	7.8	U	ND		Y
4.1	2.000	1.00	1.30	1.60	2.60	3.90	4.81	7.8	J	=		Y
0.0	2.000	0.67	0.87	1.49	2.60	2.60	4.48	7.8	U	ND		Y
3.0	2.000	0.67	0.87	1.56	2.60	2.60	4.69	7.8	J	=		Y
0.0	2.000	0.50	0.65	1.55	2.60	1.95	4.64	7.8	U	ND		Y
0.0	2.000	2.00	2.60	3.41	2.60	7.79	10.22	7.8	U	ND		Y
0.0	2.000	0.50	0.65	1.49	2.60	1.95	4.48	7.8	U	ND		Y
0.0	2.000	0.50	0.65	1.44	2.60	1.95	4.32	7.8	U	ND		Y
3.8	2.000	0.50	0.65	1.55	2.60	1.95	4.64	7.8		=		Y
0.0	2.000	0.50	0.65	1.49	2.60	1.95	4.48	7.8	U	ND		Y
0.0	2.000	0.50	0.65	1.49	2.60	1.95	4.48	7.8	U	ND		Y
0.0	2.000	1.00	1.30	2.45	2.60	3.90	7.36	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.49	2.60	1.56	4.48	7.8	U	ND		Y
0.0	2.000	0.67	0.87	2.06	2.60	2.60	6.18	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.54	2.60	1.56	4.61	7.8	U	ND		Y
0.9	2.000	0.40	0.52	1.49	2.60	1.56	4.48	7.8	J	=		Y
0.0	2.000	0.67	0.87	2.13	2.60	2.60	6.40	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.49	2.60	1.56	4.48	7.8	U	ND		Y
0.5	2.000	0.40	0.52	1.54	2.60	1.56	4.61	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.45	2.60	1.56	4.35	7.8	U	ND		Y
4.6	2.000	0.40	0.52	1.49	2.60	1.56	4.48	7.8		=		Y
0.0	2.000	0.40	0.52	1.49	2.60	1.56	4.48	7.8	U	ND		Y
0.0	2.000	0.50	0.65	1.97	2.60	1.95	5.92	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.49	2.60	1.56	4.48	7.8	U	ND		Y
0.0	2.000	0.33	0.43	1.53	2.60	1.30	4.59	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.45	2.60	1.56	4.35	7.8	U	ND		Y
0.0	2.000	0.67	0.87	2.13	2.60	2.60	6.40	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.49	2.60	1.56	4.48	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.88	2.60	1.56	5.63	7.8	U	ND		Y
0.0	2.000	0.33	0.43	1.53	2.60	1.30	4.59	7.8	U	ND		Y
0.0	2.000	0.33	0.43	1.53	2.60	1.30	4.59	7.8	U	ND		Y
0.0	2.000	0.33	0.43	1.53	2.60	1.30	4.59	7.8	U	ND		Y
0.0	2.000	0.33	0.43	1.49	2.60	1.30	4.48	7.8	U	ND		Y
0.0	2.000	0.33	0.43	1.53	2.60	1.30	4.59	7.8	U	ND		Y
0.0	2.000	0.33	0.43	1.81	2.60	1.30	5.44	7.8	U	ND		Y

0.0	2.000	0.33	0.43	1.46	2.60	1.30	4.37	7.8	U	ND	Y
0.0	2.000	0.33	0.43	1.81	2.60	1.30	5.44	7.8	U	ND	Y
4.6	2.000	0.33	0.43	1.49	2.60	1.30	4.48	7.8		=	Y
0.5	2.000	0.29	0.37	1.52	2.60	1.11	4.57	7.8	U	ND	Y
37.2	2.000	0.33	0.43	1.39	2.60	1.30	4.16	7.8		=	Y
0.7	2.000	0.33	0.43	1.49	2.60	1.30	4.48	7.8	J	=	Y
0.0	2.000	0.29	0.37	1.52	2.60	1.11	4.57	7.8	U	ND	Y
0.0	2.000	0.29	0.37	1.52	2.60	1.11	4.57	7.8	U	ND	Y
1.1	2.000	0.29	0.37	1.52	2.60	1.11	4.57	7.8	J	=	Y
0.0	2.000	0.29	0.37	1.49	2.60	1.11	4.48	7.8	U	ND	Y
0.0	2.000	0.33	0.43	1.81	2.60	1.30	5.44	7.8	U	ND	Y
0.0	2.000	0.25	0.32	1.52	2.60	0.97	4.56	7.8	U	ND	Y
0.0	2.000	0.29	0.37	1.52	2.60	1.11	4.57	7.8	U	ND	Y
2.0	2.000	0.29	0.37	1.49	2.60	1.11	4.48	7.8		=	Y
0.0	2.000	0.25	0.32	1.52	2.60	0.97	4.56	7.8	U	ND	Y
0.6	2.000	0.25	0.32	1.52	2.60	0.97	4.56	7.8	J	=	Y
0.0	2.000	0.25	0.32	1.52	2.60	0.97	4.56	7.8	U	ND	Y
8.8	2.000	0.29	0.37	1.40	2.60	1.11	4.20	7.8		=	Y
0.0	2.000	0.25	0.32	1.52	2.60	0.97	4.56	7.8	U	ND	Y
1.7	2.000	0.25	0.32	1.52	2.60	0.97	4.56	7.8		=	Y
1.6	2.000	0.25	0.32	1.52	2.60	0.97	4.56	7.8		=	Y
0.0	2.000	0.25	0.32	1.52	2.60	0.97	4.56	7.8	U	ND	Y
1.8	2.000	0.25	0.32	1.52	2.60	0.97	4.56	7.8		=	Y
0.0	2.000	0.25	0.32	1.49	2.60	0.97	4.48	7.8	U	ND	Y
0.0	2.000	0.25	0.32	1.52	2.60	0.97	4.56	7.8	U	ND	Y
5.0	2.000	0.25	0.32	1.41	2.60	0.97	4.24	7.8		=	Y
9.2	2.000	0.25	0.32	1.41	2.60	0.97	4.24	7.8		=	Y
1.8	2.000	0.25	0.32	1.39	2.60	0.97	4.16	7.8		=	Y
5.3	2.000	0.25	0.32	1.41	2.60	0.97	4.24	7.8		=	Y
0.0	2.000	0.22	0.29	1.49	2.60	0.87	4.48	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.52	2.60	0.87	4.55	7.8	U	ND	Y
1.2	2.000	0.22	0.29	1.42	2.60	0.87	4.27	7.8		=	Y
0.0	2.000	0.22	0.29	1.42	2.60	0.87	4.27	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.45	2.60	0.78	4.35	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.42	2.60	0.87	4.27	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.42	2.60	0.87	4.27	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.42	2.60	0.87	4.27	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.42	2.60	0.87	4.27	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.45	2.60	0.78	4.35	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.42	2.60	0.87	4.27	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.51	2.60	0.78	4.54	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.42	2.60	0.87	4.27	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.40	2.60	0.87	4.19	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.45	2.60	0.78	4.35	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.43	2.60	0.78	4.29	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.43	2.60	0.78	4.29	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.43	2.60	0.78	4.29	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.43	2.60	0.78	4.29	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.43	2.60	0.78	4.29	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.43	2.60	0.78	4.29	7.8	U	ND	Y
0.0	2.000	0.18	0.24	1.51	2.60	0.71	4.54	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.43	2.60	0.78	4.29	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.43	2.60	0.78	4.29	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.36	2.60	0.78	4.09	7.8	U	ND	Y

0.0	2.000	0.17	0.22	1.51	2.60	0.65	4.53	7.8	U	ND	Y
%											Y
100.0	45.00	7.5	9.74	34.41	58.44	29.2	103.2	175.3		=	Y
100.0	45.00	45.0	58.44	38.32	58.44	175.3	115.0	175.3		=	Y
100.0	45.00	5.9	7.69	31.52	58.44	23.1	94.5	175.3		=	Y
100.0	45.00	6.4	8.35	32.51	58.44	25.0	97.5	175.3		=	Y
100.0	45.00	3.0	3.90	31.62	58.44	11.7	94.9	175.3		=	Y
100.0	45.00	7.5	9.74	34.41	58.44	29.2	103.2	175.3		=	Y
100.0	45.00	6.4	8.35	31.53	58.44	25.0	94.6	175.3		=	Y
100.0	45.00	45.0	58.44	38.32	58.44	175.3	115.0	175.3		=	Y
100.0	45.00	3.5	4.50	32.61	58.44	13.5	97.8	175.3		=	Y
100.0	45.00	5.6	7.31	35.27	58.44	21.9	105.8	175.3		=	Y
0.0	45.00	7.5	9.74	34.41	58.44	29.2	103.2	175.3	U	ND	Y
0.0	25.000	3.6	4.64	18.06	32.47	13.9	54.2	97.4	U	ND	Y
%											Y
35.5											Y
5.6											Y
9.0											Y
75.4											Y
7.4											Y
4.4											Y
0.0											Y
%											Y
47.3	5.000	2.5	3.25	4.01	6.49	9.7	12.0	19.5	U	ND	Y
52.7	5.000	1.7	2.16	3.91	6.49	6.5	11.7	19.5	U	ND	Y
0.0	25.000	6.3	8.12	19.33	32.47	24.4	58.0	97.4	U	ND	Y
0.0	25.000	5.0	6.49	19.20	32.47	19.5	57.6	97.4	U	ND	Y
0.0	25.000	4.2	5.41	19.12	32.47	16.2	57.4	97.4	U	ND	Y
0.0	25.000	3.6	4.64	19.05	32.47	13.9	57.1	97.4	U	ND	Y
0.0	25.000	3.1	4.06	19.00	32.47	12.2	57.0	97.4	U	ND	Y
0.0	25.000	2.8	3.61	18.96	32.47	10.8	56.9	97.4	U	ND	Y
0.0	25.000	2.5	3.25	18.94	32.47	9.7	56.8	97.4	U	ND	Y
0.0	25.000	2.3	2.95	18.91	32.47	8.9	56.7	97.4	U	ND	Y
0.0	25.000	2.1	2.71	18.88	32.47	8.1	56.7	97.4	U	ND	Y
0.0	25.000	2.1	2.71	18.88	32.47	8.1	56.7	97.4	U	ND	Y
100.0											Y
											Y
0.1	6.0	1.0	1.30	3.84	7.79	3.9	11.5	23.4			Y
0.0	6.0	0.9	1.11	4.57	7.79	3.3	13.7	23.4			Y
0.0	6.0	0.7	0.87	4.55	7.79	2.6	13.7	23.4			Y
0.0	6.0	0.5	0.71	4.15	7.79	2.1	12.4	23.4			Y
0.0	6.0	0.7	0.87	4.05	7.79	2.6	12.2	23.4			Y
0.0	6.0	0.5	0.71	4.13	7.79	2.1	12.4	23.4			Y
0.0	2.0	0.3	0.43	1.53	2.60	1.3	4.6	7.8	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
5.7						5.75			
					0.0		0.00		
6.4						6.40			
	0.0					0.00			
					0.0				
					0.0		0.00		
					0.0		0.00		
10.8						10.78			
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
						0.0			
	0.0					0.00			
					3.2		3.20		
						0.0			
					0.0		0.00		
1.7						1.72			
					0.0		0.00		
					16.1		16.11		
					0.0		0.00		
						0.0			
					0.0		0.00		
	0.0					0.00			
			0.0						0.00
						0.0			
			0.0						0.00
						0.0			
	0.0					0.00			
	0.0					0.00			
	0.0					0.00			
					0.0		0.00		
0.0						0.00			
						0.0			


0.0
19.6
2.2
157.8
2.9
0.0
0.0
5.3
0.0
0.0
9.9
0.0
3.2
0.0
43.4
0.0
9.6
9.1
0.0
10.2
0.0
28.4
52.1
10.4
30.1
0.0
7.9
0.0
0.0
0.0

0.0									
24.6	39.6	330.2	32.4	19.3	0.0	0.00 67.1	19.3	0.0	29.5

1.72	0.00		
0.00	39.58		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
0.00					
0.00					
	0.00				
0.00					
0.00					
0.00					
		0.00			
		0.00			

0.00

0.00

157.82

0.00

43.37

28.38
52.11
10.44
30.14

7.94
0.00

0.00

0.00
0.00
0.00
0.00

0.00

0.00

0.00
0.00

0.00

0.00
0.00
0.00
0.00
0.00
0.00

0.00
0.00
0.00

0.0	0.0	0.0	0.0	330.2	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**09**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.30
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = $\text{Sum}\left|\frac{(\text{Astdni})}{(\text{Cstdni})}\right|_i$

2) ppbC = $\frac{6 \text{ Carbons}}{(\text{Avg RFn})} \cdot \frac{\text{Ansamp}}{\text{SV}} \cdot \text{CDF} \cdot 1000 = \textbf{Cn}$

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = $(\text{amt(ppbv)} \cdot \frac{\text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.23E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.23E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.23E+04	3473	5.7	2.87	3.55
Propene	3	TRG	4.5	2.23E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.23E+04	3863	6.4	2.13	3.85
i-Butane	4	TRG	58.1	2.23E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.23E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.23E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.23E+04	6513	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.23E+04	0	10.8	2.70	6.42
c-2-Butene	4	TRG	56.1	2.23E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.23E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.23E+04	1931	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.23E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.23E+04	1039	3.2	0.64	1.84
Isoprene	3	TRG	60.1	2.23E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.23E+04	9730	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.23E+04	0	1.7	0.34	1.02
2,2-Dimethylbutane	5	TRG	68.1	2.23E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.23E+04	0	16.1	3.22	9.26
2,3-Dimethylbutane	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.23E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.23E+04	11827	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.23E+04	1350	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.23E+04	95328	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.23E+04	1747	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.23E+04	3230	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.23E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.23E+04	6000	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.23E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.23E+04	1909	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.23E+04	0	19.6	3.26	11.26
Toluene	7	TRG	100.2	2.23E+04	26197	2.2	0.32	1.31
2,3-Dimethylhexane	6	TRG	78.1	2.23E+04	0	157.8	26.30	84.19
2-Methylheptane	6	TRG	84.2	2.23E+04	5790	2.9	0.48	1.66
3-Methylheptane	7	TRG	100.2	2.23E+04	6145	0.0	0.00	0.00
n-Octane	7	TRG	100.2	2.23E+04	0	0.0	0.00	0.00
Ethylbenzene	7	TRG	100.2	2.23E+04	17144	5.3	0.76	3.14
m,p-xylene	7	TRG	98.2	2.23E+04	31477	0.0	0.00	0.00
Styrene	6	TRG	102.2	2.23E+04	6308	0.0	0.00	0.00
o-xylene	8	TRG	114.2	2.23E+04	18205	0.0	0.00	0.00
n-Nonane	7	TRG	100.2	2.23E+04	0	0.0	0.00	0.00
i-Propylbenzene	7	TRG	98.2	2.23E+04	4793	9.9	1.42	5.71
n-propylbenzene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00
a-Pinene	8	TRG	114.2	2.23E+04	0	3.2	0.40	1.85
3-Ethyltoluene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00
4-Ethyltoluene	7	TRG	92.1	2.23E+04	0	43.4	6.20	23.39
1,3,5-Trimethylbenzene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00
2-Ethyltoluene	8	TRG	114.2	2.23E+04	0	9.6	1.20	5.61
b-Pinene	8	TRG	114.2	2.23E+04	0	9.1	1.13	5.31
1,2,4-Trimethylbenzene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00
n-Decane	8	TRG	114.2	2.23E+04	0	10.2	1.27	5.95
1,2,3-Trimethylbenzene	8	TRG	112.2	2.23E+04	0	0.0	0.00	0.00
d-Limonene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00
1,3-Diethylbenzene	8	TRG	106.2	2.23E+04	0	28.4	3.55	15.44
1,4-Diethylbenzene	8	TRG	106.2	2.23E+04	0	52.1	6.51	28.35
n-Butylbenzene	8	TRG	104.2	2.23E+04	0	10.4	1.31	5.57
Undecane	8	TRG	106.2	2.23E+04	0	30.1	3.77	16.40
Dodecane	9	TRG	126.2	2.23E+04	0	0.0	0.00	0.00
Total Petroleum Hydrocarbons:								
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.23E+04	746249	1235.5	205.91	727.45
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.23E+04	746249	1235.5	1235.48	810.15
Total Volatile Organic Compoun	8	TRG	100.0	2.23E+04	746249	1235.5	162.56	666.24
TPH (gasoline)	7	TRG	95.0	2.23E+04	746249	1235.5	176.50	687.18
TPH (diesel)	15	TRG	198.0	2.23E+04	746249	1235.5	82.37	668.37
TPH (hexane)	6	TRG	86.2	2.23E+04	746249	1235.5	205.91	727.45
TPH (toluene)	7	TRG	92.1	2.23E+04	746249	1235.5	176.50	666.49
TPH (methane)	1	TRG	16.0	2.23E+04	746249	1235.5	1235.48	810.15
TPH (Jet A Fuel)	13	TRG	177.0	2.23E+04	746249	1235.5	95.04	689.40
TPH (Mineral Spirits)	8	TRG	117.8	2.23E+04	746249	1235.5	154.43	745.65
C6+ (hexane)	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00
Sample: Composition								
Total Identified		TRG	0.0	2.23E+04		438.2		Sum ID
Paraffins	P	TRG	0.0	2.23E+04		24.6		Sum P
Isoparaffins	I	TRG	0.0	2.23E+04		39.6		Sum I
Aromatics	A	TRG	0.0	2.23E+04		330.2		Sum A
Napthlenes	N	TRG	0.0	2.23E+04		32.4		Sum N
Olefins	O	TRG	0.0	2.23E+04		19.3		Sum O
Oxygenates		TRG	0.0	2.23E+04		0.0		Sum Ox
Carbon Ranges:								
C2 (ethane)	2	TRG	30.1	2.23E+04	3473	5.7	2.87	3.55
C3 (propane)	3	TRG	44.1	2.23E+04	3863	6.4	2.13	3.85
C4 (Butane)	4	TRG	58.1	2.23E+04	0	0.0	0.00	0.00
C5 (Pentane)	5	TRG	72.2	2.23E+04	0	0.0	0.00	0.00
C6 (Hexane)	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00

C7 (Heptane)	7	TRG	100.2	2.23E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.23E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.23E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.23E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.23E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.23E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.23E+04	7336	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 10

File Name: 2510010A
Description: T-110
Canister: 857
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 11:32
Date Analyzed: 03/27/25 **Time:** 14:39
Can Factor: 1.27
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.27	3.82	1.89	1.47	4.40	2.17	J
74-86-2	Acetylene	1.27	3.82	ND	1.36	4.07	ND	ND
74-84-0	Ethane	1.27	3.82	4.62	1.57	4.72	5.70	
115-07-1	Propene	0.85	2.55	ND	1.47	4.40	ND	ND
74-98-6	Propane	0.85	2.55	4.14	1.54	4.61	7.48	
75-28-5	i-Butane	0.64	1.91	ND	1.52	4.55	ND	ND
106-98-9	1-Butene	0.64	1.91	1.64	1.47	4.40	3.78	J
106-97-8	n-Butane	0.64	1.91	1.70	1.52	4.55	4.05	J
624-64-6	t-2-Butene	0.64	1.91	ND	1.47	4.40	ND	ND
590-18-1	c-2-Butene	0.64	1.91	ND	1.47	4.40	ND	ND
78-78-4	i-Pentane	0.51	1.53	ND	1.51	4.53	ND	ND
109-67-1	1-Pentene	0.51	1.53	1.87	1.46	4.39	5.36	
109-66-0	n-Pentane	0.51	1.53	ND	1.51	4.52	ND	ND
646-04-8	t-2-Pentene	0.51	1.53	7.57	1.46	4.39	21.76	
627-20-3	c-2-Pentene	0.51	1.53	ND	1.46	4.39	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.27	ND	1.50	4.50	ND	ND
142-29-0	Cyclopentene	0.51	1.53	ND	1.42	4.27	ND	ND
287-92-3	Cyclopentane	0.51	1.53	ND	1.46	4.39	ND	ND
79-29-8	2,3-Dimethylbutane	0.42	1.27	ND	1.50	4.50	ND	ND
107-83-5	2-Methylpentane	0.42	1.27	ND	1.50	4.50	ND	ND
96-14-0	3-Methylpentane	0.42	1.27	0.96	1.50	4.50	3.40	J
592-41-6	1-Hexene	0.42	1.27	ND	1.47	4.40	ND	ND
110-54-3	n-Hexane	0.42	1.27	ND	1.50	4.50	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.27	ND	1.43	4.29	ND	ND
96-37-7	Methylcyclopentane	0.42	1.27	ND	1.47	4.40	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.09	ND	1.50	4.49	ND	ND
71-43-2	Benzene	0.42	1.27	57.42	1.36	4.08	183.79	
110-82-7	Cyclohexane	0.42	1.27	ND	1.47	4.40	ND	ND
591-76-4	2-Methylhexane	0.36	1.09	0.61	1.50	4.49	2.52	J
565-59-3	2,3-Dimethylpentane	0.36	1.09	ND	1.50	4.49	ND	ND
589-34-4	3-Methylhexane	0.36	1.09	1.10	1.50	4.49	4.52	
540-84-1	2,2,4-Trimethylpentane	0.32	0.96	ND	1.49	4.47	ND	ND
142-82-5	n-Heptane	0.36	1.09	ND	1.50	4.49	ND	ND
108-87-2	Methylcyclohexane	0.36	1.09	1.42	1.47	4.40	5.72	
592-13-2	2,5-Dimethylhexane	0.32	0.96	ND	1.49	4.47	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.96	0.55	1.49	4.47	2.59	J
565-75-3	2,3,4-Trimethylpentane	0.32	0.96	0.73	1.49	4.47	3.42	J

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.09	12.50	1.37	4.12	47.17	
584-94-1	2,3-Dimethylhexane	0.32	0.96	ND	1.49	4.47	ND	ND
592-27-8	2-Methylheptane	0.32	0.96	1.31	1.49	4.47	6.13	
589-53-7	4-Methylheptane	0.32	0.96	1.24	1.49	4.47	5.82	
589-81-1	3-Methylheptane	0.32	0.96	1.09	1.49	4.47	5.12	
111-65-9	n-Octane	0.32	0.96	ND	1.49	4.47	ND	ND
100-41-4	Ethylbenzene	0.32	0.96	5.76	1.39	4.16	25.07	
108-38-3	m,p-xylene	0.32	0.96	11.57	1.39	4.16	50.36	
100-42-5	Styrene	0.32	0.96	ND	1.36	4.08	ND	ND
95-47-6	o-xylene	0.32	0.96	4.70	1.39	4.16	20.44	
111-84-2	n-Nonane	0.28	0.85	ND	1.49	4.47	ND	ND
98-82-8	i-Propylbenzene	0.28	0.85	ND	1.40	4.19	ND	ND
103-65-1	n-propylbenzene	0.28	0.85	ND	1.40	4.19	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.85	ND	1.40	4.19	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.85	ND	1.40	4.19	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.85	ND	1.40	4.19	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.85	ND	1.40	4.19	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.85	ND	1.40	4.19	ND	ND
124-18-5	n-Decane	0.25	0.76	ND	1.49	4.46	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.85	ND	1.40	4.19	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.76	ND	1.40	4.21	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.76	ND	1.40	4.21	ND	ND
104-51-8	n-Butylbenzene	0.25	0.76	ND	1.40	4.21	ND	ND
1120-21-4	Undecane	0.23	0.70	ND	1.48	4.45	ND	ND
91-20-3	Naphthalene	0.25	0.76	ND	1.34	4.02	ND	ND
112-40-3	Dodecane	0.21	0.64	ND	1.48	4.45	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.56	28.67	276.82	33.77	101.30	977.95	
TNMHC - C1	Total Non-Methane Hydrocarbons	57.35	172.04	1,660.92	37.61	112.82	1,089.13	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **10**
File Name: **2510010A**
Sample ID: **T-110**
Sampled: **3/19/2025**
Received: **03/21/25**
Analyzed: **03/27/25**
QCBatch: **032725-GCK**
Can: **857**
Can Factor: **1.27**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **11:32** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **14:39** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **364105**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win										C2-C4	C5-C12
RT										**0.3**	**0.1**
RTI										**3**	**3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.09	**4.08**	2322	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.13			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.20**	5687	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11						-210	290
74-98-6	Propane	P	5.20	**5.20**	**5.22**	7642	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.62**						134	351
67-56-1	Methanol		8.30	8.32						134	401
106-98-9	1-Butene	P	7.29	7.31	**7.31**	4048	I	I	H	366	367
106-99-0	1,3-Butadiene		**7.48**	7.50						134	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.37**	4187	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.78						192	410
590-18-1	c-2-Butene	P	9.63	9.66						192	431
64-17-5	Ethanol		10.85	10.75						192	461
563-45-1	3-Methyl-1-butene	6	**11.05**	10.95						192	465
67-64-1	Acetone		11.52	11.42						192	476
78-78-4	i-Pentane	P	11.37	11.27	**11.27**		I	I	H	472	473
109-67-1	1-Pentene	P	12.30	12.20	**12.11**	5743	I	I	H	493	495
67-63-0	Isopropanol		12.65	12.55						192	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.26						192	497
109-66-0	n-Pentane	P	12.48	**12.38**	**12.38**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.45						171	503
646-04-8	t-2-Pentene	P	12.79	12.69	**12.76**	23312	I	I	H	510	510
627-20-3	c-2-Pentene	P	13.08	12.98						171	518
75-65-0	Tert butyl alcohol		**13.55**	13.45						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.52						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.67						171	537
142-29-0	Cyclopentene	15	**14.61**	14.51						171	551
71-23-8	n-Propanol		**14.75**	14.65						171	558
287-92-3	Cyclopentane	P	14.88	14.78						171	567
1634-04-4	Methyl tert butyl ether		**15.00**	14.90						171	569
79-29-8	2,3-Dimethylbutane	P	15.06	14.96						171	570
107-83-5	2-Methylpentane	P	15.08	14.98						171	571
96-14-0	3-Methylpentane	P	15.55	15.45	**15.43**	3557	I	I	H	581	583
592-41-6	1-Hexene	P	**15.80**	15.70						171	590
110-54-3	n-Hexane	P	16.17	**16.07**	**16.14**	1381	I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.27						262	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.42						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.77						700	623
96-37-7	Methylcyclopentane		P	16.86	16.83						99	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.02	**17.02**	1317	I	I	H	627	626
71-43-2	Benzene		P	17.87	**17.84**	**17.82**	212074	I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.09						99	658
591-76-4	2-Methylhexane		P	18.38	18.33	**18.36**	2649	I	I	H	669	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.40						99	671
589-34-4	3-Methylhexane		P	18.66	18.61	**18.63**	4741	I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.70						99	687
994-05-8	Tert amyl methyl ether			**18.80**	18.75						99	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.04						99	690
142-82-5	n-Heptane		P	19.41	19.36	**19.36**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.04	**20.07**	6119	I	I	H	725	722
592-13-2	2,5-Dimethylhexane			20.35	20.30						25	734
589-43-5	2,4-Dimethylhexane			20.43	20.38	**20.40**	2721	I	I	H	736	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.88	**20.91**	3599	I	I	H	754	753
108-88-3	Toluene		P	21.12	**21.07**	**21.08**	53845	I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.16						25	763
592-27-8	2-Methylheptane		P	21.33	21.29	**21.31**	6454	I	I	H	768	768
589-53-7	4-Methylheptane	48		**21.48**	21.44	**21.38**	6122	I	O	M	770	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.46						25	772
589-81-1	3-Methylheptane		p	21.55	21.51	**21.54**	5387	I	I	H	776	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.06						25	786
111-65-9	n-Octane		P	22.27	22.23	**22.23**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.71	**23.71**	28360	I	I	H	857	855
108-38-3	m,p-xylene		P	23.95	23.91	**23.94**	56977	I	I	H	866	863
100-42-5	Styrene		P	24.40	24.36						-55	881
95-47-6	o-xylene		P	24.57	24.53	**24.57**	23124	I	O	M	890	886
124-11-8	1-Nonene	64		24.60	24.56						-55	889
111-84-2	n-Nonane		P	24.87	24.83	**24.83**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.32						-143	919
103-65-1	n-propylbenzene		P	25.93	25.89						-143	947
80-56-8	a-Pinene			26.09	26.05						-143	950
620-14-4	3-Ethyltoluene		P	26.17	26.13						-143	957
622-96-8	4-Ethyltoluene		P	26.26	26.22						-143	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.41						-143	964
611-14-3	2-Ethyltoluene		P	26.61	26.57						-143	975
127-91-3	b-Pinene			26.80	26.76						-143	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.04						-143	991
124-18-5	n-Decane		P	27.26	27.22	**27.21**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.51						-27	1014
496-11-7	Indan	81		27.55	27.51						-27	1020
5989-27-5	d-Limonene			27.65	27.61						-27	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.06						-27	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.19						-27	1037
104-51-8	n-Butylbenzene			28.45	28.41						-27	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.56						-27	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.71						-27	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.79						-27	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.41						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.46						-48	1124
91-20-3	Naphthalene		32.25	32.21						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					1313988		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					1022384		155987			
TNMHC - C1	Total Non-Methane Hydrocarbons					1022384		55197			
TVOC	Total Volatile Organic Compounds					1022384		80420			
TPH(g)	TPH (gasoline)					1022384		0			
TPH(d)	TPH (diesel)					1022384		0			
TPH(h)	TPH (hexane)					1022384		0			
TPH(t)	TPH (toluene)					1022384		0			
TPHC	TPH (methane)					1022384		0			
TPH(Jet A)	TPH (Jet A Fuel)					1022384		**291604**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					1022384					
C6+	**C6+ (hexane)**		16.17	16.07	16.14	**0**		Sum from	16.07	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			8009		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			7642		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**15651**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	032725-GCK		
Hexane Std Area:	364105		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.27	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.27		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	3.77	1.89	2.17	3.77	1.89	2.17	2.17	2.17
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	9.24	4.62	5.70	9.24	4.62	5.70	5.70	5.70
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	12.41	4.14	7.48	12.41	4.14	7.48	7.48	7.48
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	6.58	1.64	3.78	6.58	1.64	3.78	3.78	3.78
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	6.80	1.70	4.05	6.80	1.70	4.05	4.05	4.05
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	9.33	1.87	5.36	9.33	1.87	5.36	5.36	5.36
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	37.87	7.57	21.76	37.87	7.57	21.76	21.76	21.76
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	5.78	0.96	3.40	5.78	0.96	3.40	3.40	3.40
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	2.24	**0.37**	1.32	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	2.14	0.31	1.26	ND	ND	ND	0	
Benzene	78.1	6	344.53	57.42	183.79	344.53	57.42	183.79	183.79	183.79
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	4.30	0.61	2.52	4.30	0.61	2.52	2.52	2.52
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	7.70	1.10	4.52	7.70	1.10	4.52	4.52	4.52
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	9.94	1.42	5.72	9.94	1.42	5.72	5.72	5.72
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	4.42	0.55	2.59	4.42	0.55	2.59	2.59	2.59
2,3,4-Trimethylpentane	114.2	8	5.85	0.73	3.42	5.85	0.73	3.42	3.42	3.42
Toluene	92.1	7	87.47	12.50	47.17	87.47	12.50	47.17	47.17	47.17
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	10.48	1.31	6.13	10.48	1.31	6.13	6.13	6.13
4-Methylheptane	114.2	8	9.95	1.24	5.82	9.95	1.24	5.82	5.82	5.82
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	8.75	1.09	5.12	8.75	1.09	5.12	5.12	5.12
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	46.07	5.76	25.07	46.07	5.76	25.07	25.07	25.07
m,p-xylene	106.2	8	92.56	11.57	50.36	92.56	11.57	50.36	50.36	50.36
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	37.57	4.70	20.44	37.57	4.70	20.44	20.44	20.44
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	1660.92	276.8	977.9	1,660.92	276.82	977.95	977.95	977.9
Total Non-Methane Hydrocarbons	16	1.0	1660.92	1660.9	1089.1	1,660.92	1,660.92	1,089.13	1,089.13	1,089.1
Total Volatile Organic Compounds	100	7.6	1660.92	218.5	895.7	1,660.92	218.54	895.66	895.66	895.6
TPH (gasoline)	95	7.0	1660.92	237.3	923.8	1,660.92	237.27	923.81	923.81	923.8
TPH (diesel)	198	15.0	1660.92	110.7	898.5	1,660.92	110.73	898.53	898.53	898.5
TPH (hexane)	86.2	6.0	1660.92	276.8	977.9	1,660.92	276.82	977.95	977.95	977.9
TPH (toluene)	92.14	7.0	1660.92	237.3	896.0	1,660.92	237.27	896.00	896.00	896.0
TPH (methane)	16	1.0	1660.92	1660.9	1089.1	1,660.92	1,660.92	1,089.13	1,089.13	1,089.1
TPH (Jet A Fuel)	177	13.0	1660.92	127.8	926.8	1,660.92	127.76	926.81	926.81	926.81
TPH (Mineral Spirits)	117.81	8.0	1660.92	207.6	1002.4	1,660.92	207.61	1,002.42	1,002.42	1,002.42
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			765.8	125.1						
Paraffins			30.7							
Isoparaffins			59.4							
Aromatics			608.2							
Napthlenes			9.9							
Olefins			57.5							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	13.01	6.51	8.03	13.01	6.51	8.03	8.03	8.03
C3 (propane)	44.1	3	12.41	4.14	7.48	12.41	4.14	7.48	7.48	7.48
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			25.4							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	2.2	0.32	1.32					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			90.1	11.8
Alkenes			57.5	7.5
Alkynes			0.0	0.0
Cycloalkanes			9.9	1.3
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			608.2	79.4
Terpenes			0.0	0.0

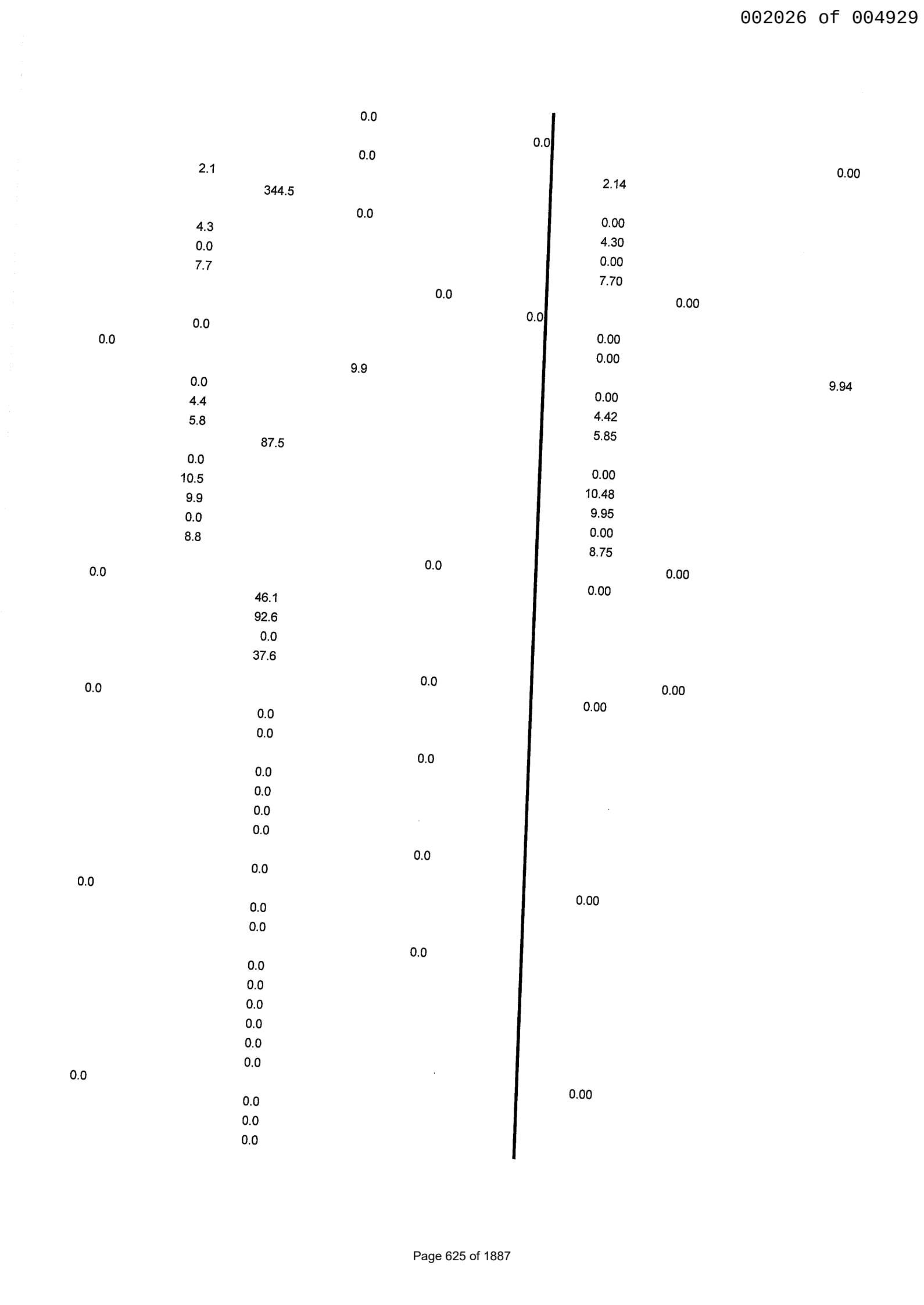
SDG: **225100**
Laboratory Number: **10**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
1.5	2.000	1.00	1.27	1.47	2.55	3.82	4.40	7.6	J	=		Y
0.0	2.000	1.00	1.27	1.36	2.55	3.82	4.07	7.6	U	ND		Y
3.7	2.000	1.00	1.27	1.57	2.55	3.82	4.72	7.6		=		Y
0.0	2.000	0.67	0.85	1.47	2.55	2.55	4.40	7.6	U	ND		Y
3.3	2.000	0.67	0.85	1.54	2.55	2.55	4.61	7.6		=		Y
0.0	2.000	0.50	0.64	1.52	2.55	1.91	4.55	7.6	U	ND		Y
0.0	2.000	2.00	2.55	3.34	2.55	7.65	10.03	7.6	U	ND		Y
1.3	2.000	0.50	0.64	1.47	2.55	1.91	4.40	7.6	J	=		Y
0.0	2.000	0.50	0.64	1.41	2.55	1.91	4.24	7.6	U	ND		Y
1.4	2.000	0.50	0.64	1.52	2.55	1.91	4.55	7.6	J	=		Y
0.0	2.000	0.50	0.64	1.47	2.55	1.91	4.40	7.6	U	ND		Y
0.0	2.000	0.50	0.64	1.47	2.55	1.91	4.40	7.6	U	ND		Y
0.0	2.000	1.00	1.27	2.41	2.55	3.82	7.22	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.55	1.53	4.39	7.6	U	ND		Y
0.0	2.000	0.67	0.85	2.02	2.55	2.55	6.07	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.51	2.55	1.53	4.53	7.6	U	ND		Y
1.5	2.000	0.40	0.51	1.46	2.55	1.53	4.39	7.6		=		Y
0.0	2.000	0.67	0.85	2.09	2.55	2.55	6.28	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.55	1.53	4.39	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.51	2.55	1.53	4.52	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.42	2.55	1.53	4.27	7.6	U	ND		Y
6.1	2.000	0.40	0.51	1.46	2.55	1.53	4.39	7.6		=		Y
0.0	2.000	0.40	0.51	1.46	2.55	1.53	4.39	7.6	U	ND		Y
0.0	2.000	0.50	0.64	1.94	2.55	1.91	5.81	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.55	1.53	4.39	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.50	2.55	1.27	4.50	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.42	2.55	1.53	4.27	7.6	U	ND		Y
0.0	2.000	0.67	0.85	2.09	2.55	2.55	6.28	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.55	1.53	4.39	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.84	2.55	1.53	5.53	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.50	2.55	1.27	4.50	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.50	2.55	1.27	4.50	7.6	U	ND		Y
0.8	2.000	0.33	0.42	1.50	2.55	1.27	4.50	7.6	J	=		Y
0.0	2.000	0.33	0.42	1.47	2.55	1.27	4.40	7.6	U	ND		Y
0.3	2.000	0.33	0.42	1.50	2.55	1.27	4.50	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.78	2.55	1.27	5.34	7.6	U	ND		Y

0.0	2.000	0.33	0.42	1.43	2.55	1.27	4.29	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.78	2.55	1.27	5.34	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.47	2.55	1.27	4.40	7.6	U	ND	Y
0.2	2.000	0.29	0.36	1.50	2.55	1.09	4.49	7.6	U	ND	Y
45.9	2.000	0.33	0.42	1.36	2.55	1.27	4.08	7.6		=	Y
0.0	2.000	0.33	0.42	1.47	2.55	1.27	4.40	7.6	U	ND	Y
0.5	2.000	0.29	0.36	1.50	2.55	1.09	4.49	7.6	J	=	Y
0.0	2.000	0.29	0.36	1.50	2.55	1.09	4.49	7.6	U	ND	Y
0.9	2.000	0.29	0.36	1.50	2.55	1.09	4.49	7.6		=	Y
0.0	2.000	0.29	0.36	1.47	2.55	1.09	4.40	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.78	2.55	1.27	5.34	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.49	2.55	0.96	4.47	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.50	2.55	1.09	4.49	7.6	U	ND	Y
1.1	2.000	0.29	0.36	1.47	2.55	1.09	4.40	7.6		=	Y
0.0	2.000	0.25	0.32	1.49	2.55	0.96	4.47	7.6	U	ND	Y
0.4	2.000	0.25	0.32	1.49	2.55	0.96	4.47	7.6	J	=	Y
0.6	2.000	0.25	0.32	1.49	2.55	0.96	4.47	7.6	J	=	Y
10.0	2.000	0.29	0.36	1.37	2.55	1.09	4.12	7.6		=	Y
0.0	2.000	0.25	0.32	1.49	2.55	0.96	4.47	7.6	U	ND	Y
1.0	2.000	0.25	0.32	1.49	2.55	0.96	4.47	7.6		=	Y
1.0	2.000	0.25	0.32	1.49	2.55	0.96	4.47	7.6		=	Y
0.0	2.000	0.25	0.32	1.49	2.55	0.96	4.47	7.6	U	ND	Y
0.9	2.000	0.25	0.32	1.49	2.55	0.96	4.47	7.6		=	Y
0.0	2.000	0.25	0.32	1.47	2.55	0.96	4.40	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.49	2.55	0.96	4.47	7.6	U	ND	Y
4.6	2.000	0.25	0.32	1.39	2.55	0.96	4.16	7.6		=	Y
9.3	2.000	0.25	0.32	1.39	2.55	0.96	4.16	7.6		=	Y
0.0	2.000	0.25	0.32	1.36	2.55	0.96	4.08	7.6	U	ND	Y
3.8	2.000	0.25	0.32	1.39	2.55	0.96	4.16	7.6		=	Y
0.0	2.000	0.22	0.28	1.46	2.55	0.85	4.39	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.49	2.55	0.85	4.47	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.40	2.55	0.85	4.19	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.40	2.55	0.85	4.19	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.42	2.55	0.76	4.27	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.40	2.55	0.85	4.19	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.40	2.55	0.85	4.19	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.40	2.55	0.85	4.19	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.40	2.55	0.85	4.19	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.42	2.55	0.76	4.27	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.40	2.55	0.85	4.19	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.49	2.55	0.76	4.46	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.40	2.55	0.85	4.19	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.55	0.85	4.12	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.42	2.55	0.76	4.27	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.55	0.76	4.21	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.55	0.76	4.21	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.55	0.76	4.21	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.55	0.76	4.21	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.55	0.76	4.21	7.6	U	ND	Y
0.0	2.000	0.18	0.23	1.48	2.55	0.70	4.45	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.55	0.76	4.21	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.55	0.76	4.21	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.34	2.55	0.76	4.02	7.6	U	ND	Y

0.0	2.000	0.17	0.21	1.48	2.55	0.64	4.45	7.6	U	ND	Y
%											Y
100.0	45.00	7.5	9.56	33.77	57.35	28.7	101.3	172.0		=	Y
100.0	45.00	45.0	57.35	37.61	57.35	172.0	112.8	172.0		=	Y
100.0	45.00	5.9	7.55	30.93	57.35	22.6	92.8	172.0		=	Y
100.0	45.00	6.4	8.19	31.90	57.35	24.6	95.7	172.0		=	Y
100.0	45.00	3.0	3.82	31.02	57.35	11.5	93.1	172.0		=	Y
100.0	45.00	7.5	9.56	33.77	57.35	28.7	101.3	172.0		=	Y
100.0	45.00	6.4	8.19	30.94	57.35	24.6	92.8	172.0		=	Y
100.0	45.00	45.0	57.35	37.61	57.35	172.0	112.8	172.0		=	Y
100.0	45.00	3.5	4.41	32.00	57.35	13.2	96.0	172.0		=	Y
100.0	45.00	5.6	7.17	34.61	57.35	21.5	103.8	172.0		=	Y
0.0	45.00	7.5	9.56	33.77	57.35	28.7	101.3	172.0	U	ND	Y
0.0	25.000	3.6	4.55	17.72	31.86	13.7	53.2	95.6	U	ND	Y
%											Y
46.1											Y
4.0											Y
7.8											Y
79.4											Y
1.3											Y
7.5											Y
0.0											Y
%											Y
51.2	5.000	2.5	3.19	3.93	6.37	9.6	11.8	19.1	J	=	Y
48.8	5.000	1.7	2.12	3.84	6.37	6.4	11.5	19.1	J	=	Y
0.0	25.000	6.3	7.96	18.97	31.86	23.9	56.9	95.6	U	ND	Y
0.0	25.000	5.0	6.37	18.84	31.86	19.1	56.5	95.6	U	ND	Y
0.0	25.000	4.2	5.31	18.76	31.86	15.9	56.3	95.6	U	ND	Y
0.0	25.000	3.6	4.55	18.69	31.86	13.7	56.1	95.6	U	ND	Y
0.0	25.000	3.1	3.98	18.64	31.86	11.9	55.9	95.6	U	ND	Y
0.0	25.000	2.8	3.54	18.61	31.86	10.6	55.8	95.6	U	ND	Y
0.0	25.000	2.5	3.19	18.58	31.86	9.6	55.7	95.6	U	ND	Y
0.0	25.000	2.3	2.90	18.55	31.86	8.7	55.7	95.6	U	ND	Y
0.0	25.000	2.1	2.65	18.53	31.86	8.0	55.6	95.6	U	ND	Y
0.0	25.000	2.1	2.65	18.53	31.86	8.0	55.6	95.6	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.27	3.77	7.65	3.8	11.3	22.9			Y
0.1	6.0	0.9	1.09	4.49	7.65	3.3	13.5	22.9			Y
0.0	6.0	0.7	0.85	4.47	7.65	2.5	13.4	22.9			Y
0.0	6.0	0.5	0.70	4.07	7.65	2.1	12.2	22.9			Y
0.0	6.0	0.7	0.85	3.98	7.65	2.5	11.9	22.9			Y
0.0	6.0	0.5	0.70	4.05	7.65	2.1	12.2	22.9			Y
0.0	2.0	0.3	0.42	1.50	2.55	1.3	4.5	7.6	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					3.8		3.77		
					0.0				
9.2								0.00	
						9.24			
					0.0				
12.4							0.00		
						12.41			
	0.0								
						0.00			
						0.0			
					6.6				
							6.58		
					0.0				
6.8							0.00		
						6.80			
					0.0				
							0.00		
					0.0				
							0.00		
						0.0			
					0.0				
							0.00		
	0.0					0.0			
							0.00		
					9.3				
							9.33		
						0.0			
					0.0				
0.0							0.00		
						0.00			
					0.0				
							0.00		
					37.9				
							37.87		
					0.0				
							0.00		
						0.0			
					0.0				
							0.00		
	0.0								
						0.00			
			0.0						
									0.00
						0.0			
			0.0						
									0.00
						0.0			
	0.0								
						0.00			
	0.0								
						0.00			
	5.8								
						5.78			
					0.0				
							0.00		
2.2									
						2.24			
						0.0			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0.0
2.1
344.5
0.0
4.3
0.0
7.7
0.0
0.0
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9.9
0.0
4.4
5.8
87.5
0.0
10.5
9.9
0.0
8.8
0.0
46.1
92.6
0.0
37.6
0.0
0.0
0.0

0.0						0.00			
30.7	59.4	608.2	9.9	57.5	0.0	90.1	57.5	0.0	9.9

0.00	5.78	
2.24	53.59	
0.00	0.00	
0.00	0.00	
		0.00
		0.00

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
0.00					
0.00					
		0.00			
0.00					
0.00					
0.00					
			0.00		
			0.00		

0.00

0.00

344.53

0.00

87.47

46.07
92.56
0.00
37.57

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0.00

0.0	0.0	0.0	0.0	608.2	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**10**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.27
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = $\text{Sum}\left|\frac{(\text{Astdni})}{(\text{Cstdni})}\right|_i$

2) ppbC = $\frac{6 \text{ Carbons} \times \text{Ansamp} \times \text{CDF} \times 1000}{(\text{Avg RFn}) \times \text{SV}} = \textbf{Cn}$

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = $\frac{(\text{amt(ppbv)} \times \text{MW})}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.02E+04	2322	3.8	1.89	2.17
Acetylene	2	TRG	26.0	2.02E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.02E+04	5687	9.2	4.62	5.70
Propene	3	TRG	4.5	2.02E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.02E+04	7642	12.4	4.14	7.48
i-Butane	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.02E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.02E+04	4048	6.6	1.64	3.78
n-Butane	4	TRG	54.1	2.02E+04	4187	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.02E+04	0	6.8	1.70	4.05
c-2-Butene	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.02E+04	5743	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.02E+04	0	9.3	1.87	5.36
Isoprene	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.02E+04	23312	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.02E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.02E+04	0	37.9	7.57	21.76
2,3-Dimethylbutane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.02E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.02E+04	3557	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.02E+04	1381	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.02E+04	1317	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.02E+04	212074	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.02E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.02E+04	2649	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.02E+04	4741	5.8	0.96	3.40
2,2,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.02E+04	0	2.2	0.37	1.32
Methylcyclohexane	6	TRG	102.2	2.02E+04	6119	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.02E+04	2721	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.02E+04	3599	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.02E+04	53845	2.1	0.31	1.26	
2,3-Dimethylhexane	6	TRG	78.1	2.02E+04	0	344.5	57.42	183.79	
2-Methylheptane	6	TRG	84.2	2.02E+04	6454	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.02E+04	5387	4.3	0.61	2.52	
n-Octane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.02E+04	28360	7.7	1.10	4.52	
m,p-xylene	7	TRG	98.2	2.02E+04	56977	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.02E+04	23124	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.02E+04	0	9.9	1.42	5.72	
n-propylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.02E+04	0	4.4	0.55	2.59	
3-Ethyltoluene	8	TRG	114.2	2.02E+04	0	5.8	0.73	3.42	
4-Ethyltoluene	7	TRG	92.1	2.02E+04	0	87.5	12.50	47.17	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.02E+04	0	10.5	1.31	6.13	
b-Pinene	8	TRG	114.2	2.02E+04	0	9.9	1.24	5.82	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.02E+04	0	8.8	1.09	5.12	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.02E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.02E+04	0	46.1	5.76	25.07	
1,4-Diethylbenzene	8	TRG	106.2	2.02E+04	0	92.6	11.57	50.36	
n-Butylbenzene	8	TRG	104.2	2.02E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.02E+04	0	37.6	4.70	20.44	
Dodecane	9	TRG	126.2	2.02E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.02E+04	1022384	1660.9	276.82	977.95	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.02E+04	1022384	1660.9	1660.92	1089.13	
Total Volatile Organic Compoun	8	TRG	100.0	2.02E+04	1022384	1660.9	218.54	895.66	
TPH (gasoline)	7	TRG	95.0	2.02E+04	1022384	1660.9	237.27	923.81	
TPH (diesel)	15	TRG	198.0	2.02E+04	1022384	1660.9	110.73	898.53	
TPH (hexane)	6	TRG	86.2	2.02E+04	1022384	1660.9	276.82	977.95	
TPH (toluene)	7	TRG	92.1	2.02E+04	1022384	1660.9	237.27	896.00	
TPH (methane)	1	TRG	16.0	2.02E+04	1022384	1660.9	1660.92	1089.13	
TPH (Jet A Fuel)	13	TRG	177.0	2.02E+04	1022384	1660.9	127.76	926.81	
TPH (Mineral Spirits)	8	TRG	117.8	2.02E+04	1022384	1660.9	207.61	1002.42	
C6+ (hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.02E+04		765.8			Sum ID
Paraffins	P	TRG	0.0	2.02E+04		30.7			Sum P
Isoparaffins	I	TRG	0.0	2.02E+04		59.4			Sum I
Aromatics	A	TRG	0.0	2.02E+04		608.2			Sum A
Napthlenes	N	TRG	0.0	2.02E+04		9.9			Sum N
Olefins	O	TRG	0.0	2.02E+04		57.5			Sum O
Oxygenates		TRG	0.0	2.02E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.02E+04	8009	13.0	6.51	8.03	
C3 (propane)	3	TRG	44.1	2.02E+04	7642	12.4	4.14	7.48	
C4 (Butane)	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.02E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.02E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.02E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.02E+04	15651	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 11

File Name: 2510011A
Description: T-111
Canister: 504
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 11:32
Date Analyzed: 03/27/25 **Time:** 15:43
Can Factor: 1.25
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.25	3.75	ND	1.44	4.32	ND	ND
74-86-2	Acetylene	1.25	3.75	ND	1.33	3.99	ND	ND
74-84-0	Ethane	1.25	3.75	2.58	1.54	4.62	3.18	J
115-07-1	Propene	0.83	2.50	2.15	1.44	4.31	3.72	J
74-98-6	Propane	0.83	2.50	2.21	1.51	4.52	3.99	J
75-28-5	i-Butane	0.62	1.87	ND	1.49	4.46	ND	ND
106-98-9	1-Butene	0.62	1.87	1.02	1.44	4.31	2.35	J
106-97-8	n-Butane	0.62	1.87	2.81	1.49	4.46	6.70	
624-64-6	t-2-Butene	0.62	1.87	ND	1.44	4.31	ND	ND
590-18-1	c-2-Butene	0.62	1.87	ND	1.44	4.31	ND	ND
78-78-4	i-Pentane	0.50	1.50	5.80	1.48	4.44	17.16	
109-67-1	1-Pentene	0.50	1.50	ND	1.44	4.31	ND	ND
109-66-0	n-Pentane	0.50	1.50	ND	1.48	4.43	ND	ND
646-04-8	t-2-Pentene	0.50	1.50	ND	1.44	4.31	ND	ND
627-20-3	c-2-Pentene	0.50	1.50	ND	1.44	4.31	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.25	ND	1.47	4.41	ND	ND
142-29-0	Cyclopentene	0.50	1.50	ND	1.40	4.19	ND	ND
287-92-3	Cyclopentane	0.50	1.50	ND	1.44	4.31	ND	ND
79-29-8	2,3-Dimethylbutane	0.42	1.25	ND	1.47	4.41	ND	ND
107-83-5	2-Methylpentane	0.42	1.25	0.68	1.47	4.41	2.39	J
96-14-0	3-Methylpentane	0.42	1.25	ND	1.47	4.41	ND	ND
592-41-6	1-Hexene	0.42	1.25	ND	1.44	4.31	ND	ND
110-54-3	n-Hexane	0.42	1.25	ND	1.47	4.41	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.25	ND	1.40	4.20	ND	ND
96-37-7	Methylcyclopentane	0.42	1.25	ND	1.44	4.31	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.07	2.70	1.47	4.40	11.09	
71-43-2	Benzene	0.42	1.25	13.71	1.33	4.00	43.88	
110-82-7	Cyclohexane	0.42	1.25	ND	1.44	4.31	ND	ND
591-76-4	2-Methylhexane	0.36	1.07	ND	1.47	4.40	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.07	1.32	1.47	4.40	5.40	
589-34-4	3-Methylhexane	0.36	1.07	2.12	1.47	4.40	8.70	
540-84-1	2,2,4-Trimethylpentane	0.31	0.94	ND	1.46	4.39	ND	ND
142-82-5	n-Heptane	0.36	1.07	0.72	1.47	4.40	2.94	J
108-87-2	Methylcyclohexane	0.36	1.07	ND	1.44	4.31	ND	ND
592-13-2	2,5-Dimethylhexane	0.31	0.94	0.37	1.46	4.39	1.74	J
589-43-5	2,4-Dimethylhexane	0.31	0.94	ND	1.46	4.39	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.31	0.94	0.93	1.46	4.39	4.34	J

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.07	2.83	1.35	4.04	10.67	
584-94-1	2,3-Dimethylhexane	0.31	0.94	ND	1.46	4.39	ND	ND
592-27-8	2-Methylheptane	0.31	0.94	0.87	1.46	4.39	4.08	J
589-53-7	4-Methylheptane	0.31	0.94	ND	1.46	4.39	ND	ND
589-81-1	3-Methylheptane	0.31	0.94	ND	1.46	4.39	ND	ND
111-65-9	n-Octane	0.31	0.94	0.71	1.46	4.39	3.33	J
100-41-4	Ethylbenzene	0.31	0.94	1.00	1.36	4.08	4.34	
108-38-3	m,p-xylene	0.31	0.94	2.17	1.36	4.08	9.46	
100-42-5	Styrene	0.31	0.94	ND	1.33	4.00	ND	ND
95-47-6	o-xylene	0.31	0.94	0.91	1.36	4.08	3.96	J
111-84-2	n-Nonane	0.28	0.83	0.43	1.46	4.38	2.26	J
98-82-8	i-Propylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
103-65-1	n-propylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.83	ND	1.37	4.10	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.83	ND	1.37	4.10	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.83	ND	1.37	4.10	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
124-18-5	n-Decane	0.25	0.75	ND	1.46	4.37	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.75	ND	1.37	4.12	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.75	ND	1.37	4.12	ND	ND
104-51-8	n-Butylbenzene	0.25	0.75	ND	1.37	4.12	ND	ND
1120-21-4	Undecane	0.23	0.68	ND	1.46	4.37	ND	ND
91-20-3	Naphthalene	0.25	0.75	ND	1.31	3.94	ND	ND
112-40-3	Dodecane	0.21	0.62	ND	1.45	4.36	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.37	28.12	176.58	33.11	99.33	623.83	
TNMHC - C1	Total Non-Methane Hydrocarbons	56.23	168.70	1,059.49	36.87	110.62	694.75	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **11**
File Name: **2510011A**
Sample ID: **T-111**
Sampled: **3/19/2025**
Received: **03/21/25**
Analyzed: **03/27/25**
QCBatch: **032725-GCK**
Can: **504**
Can Factor: **1.25**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **11:32** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **15:43** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **364105**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.03	**4.03**	1025	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.07			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.14**	3239	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.12**	4058	I	I	H	292	290
74-98-6	Propane	P	5.20	**5.20**	**5.20**	4161	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.60**						136	351
67-56-1	Methanol		8.30	8.30						136	401
106-98-9	1-Butene	P	7.29	7.29	**7.33**	2562	I	I	H	367	367
106-99-0	1,3-Butadiene		**7.48**	7.48						136	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.37**	7065	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.78	**8.87**		I	I	H	413	410
590-18-1	c-2-Butene	P	9.63	9.66						192	431
64-17-5	Ethanol		10.85	10.75						192	461
563-45-1	3-Methyl-1-butene	6	**11.05**	10.95						192	465
67-64-1	Acetone		11.52	11.42						192	476
78-78-4	i-Pentane	P	11.37	11.27	**11.32**	18205	I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.20						192	495
67-63-0	Isopropanol		12.65	12.55						192	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.26						192	497
109-66-0	n-Pentane	P	12.48	**12.38**	**12.38**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.45						165	503
646-04-8	t-2-Pentene	P	12.79	12.69						165	510
627-20-3	c-2-Pentene	P	13.08	12.98						165	518
75-65-0	Tert butyl alcohol		**13.55**	13.45						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.52						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.67						165	537
142-29-0	Cyclopentene	15	**14.61**	14.51						165	551
71-23-8	n-Propanol		**14.75**	14.65						165	558
287-92-3	Cyclopentane	P	14.88	14.78						165	567
1634-04-4	Methyl tert butyl ether		**15.00**	14.90						165	569
79-29-8	2,3-Dimethylbutane	P	15.06	14.96						165	570
107-83-5	2-Methylpentane	P	15.08	14.98	**14.99**	2544	I	I	H	571	571
96-14-0	3-Methylpentane	P	15.55	15.45						165	583
592-41-6	1-Hexene	P	**15.80**	15.70						165	590
110-54-3	n-Hexane	P	16.17	**16.07**	**16.07**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.20						268	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.35						221	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.70						221	623
96-37-7	Methylcyclopentane		P	16.86	16.76						112	622
108-08-7	2,4-Dimethylpentane		P	17.05	16.95	**17.02**	11868	I	I	H	629	626
71-43-2	Benzene		P	17.87	**17.77**	**17.82**	51636	I	I	H	653	651
110-82-7	Cyclohexane		P	18.14	18.09						112	658
591-76-4	2-Methylhexane		P	18.38	18.33						112	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.40	**18.48**	5779	I	I	H	673	671
589-34-4	3-Methylhexane		P	18.66	18.61	**18.57**	9307	I	I	H	676	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.70						112	687
994-05-8	Tert amyl methyl ether			**18.80**	18.75						112	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.04	**18.99**		I	I	H	689	690
142-82-5	n-Heptane		P	19.41	19.36	**19.36**	3144	I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.04	**20.07**		I	I	H	725	722
592-13-2	2,5-Dimethylhexane			20.35	20.30	**20.31**	1869	I	I	H	733	734
589-43-5	2,4-Dimethylhexane			20.43	20.38	**20.40**		I	I	H	736	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.88	**20.91**	4660	I	I	H	754	753
108-88-3	Toluene		P	21.12	**21.07**	**21.09**	12421	I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.17						29	763
592-27-8	2-Methylheptane		P	21.33	21.30	**21.31**	4374	I	I	H	768	768
589-53-7	4-Methylheptane	48		**21.48**	21.45	**21.38**		I	O	M	770	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.47						29	772
589-81-1	3-Methylheptane		p	21.55	21.52	**21.54**		I	I	H	775	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.07						29	786
111-65-9	n-Octane		P	22.27	22.24	**22.25**	3571	I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.72	**23.75**	5003	I	I	H	858	855
108-38-3	m,p-xylene		P	23.95	23.92	**23.97**	10913	I	I	H	866	863
100-42-5	Styrene		P	24.40	24.37						-53	881
95-47-6	o-xylene		P	24.57	24.54	**24.61**	4567	I	O	M	890	886
124-11-8	1-Nonene	64		24.60	24.57						-53	889
111-84-2	n-Nonane		P	24.87	24.84	**24.86**	2428	I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.33						-149	919
103-65-1	n-propylbenzene		P	25.93	25.90						-149	947
80-56-8	a-Pinene			26.09	26.06						-149	950
620-14-4	3-Ethyltoluene		P	26.17	26.14						-149	957
622-96-8	4-Ethyltoluene		P	26.26	26.23						-149	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.42						-149	964
611-14-3	2-Ethyltoluene		P	26.61	26.58						-149	975
127-91-3	b-Pinene			26.80	26.77						-149	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.05						-149	991
124-18-5	n-Decane		P	27.26	27.23	**27.23**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.52						-33	1014
496-11-7	Indan	81		27.55	27.52						-33	1020
5989-27-5	d-Limonene			27.65	27.62						-33	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.07						-33	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.20						-33	1037
104-51-8	n-Butylbenzene			28.45	28.42						-33	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.57						-33	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.72						-33	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.80						-33	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.42						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.47						-48	1124
91-20-3	Naphthalene		32.25	32.22						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					1223914		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					665093		97244			
TNMHC - C1	Total Non-Methane Hydrocarbons					665093		37996			
TVOC	Total Volatile Organic Compounds					665093		119070			
TPH(g)	TPH (gasoline)					665093		304511			
TPH(d)	TPH (diesel)					665093		0			
TPH(h)	TPH (hexane)					665093		0			
TPH(t)	TPH (toluene)					665093		0			
TPHC	TPH (methane)					665093		0			
TPH(Jet A)	TPH (Jet A Fuel)					665093		**558821** Total Subtracted			
TPH (MS)	TPH (Mineral Spirits)					665093					
C6+	**C6+ (hexane)**		16.17	16.07	16.07	**0**		Sum from	16.07	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			4264		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			8219		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**12483**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	032725-GCK
Hexane Std Area:	364105
Hexane Conc.	18.05
Standard Volume:	1.00
Can Dilution Factor:	1.25
Air Volume:	200.00
Combined Factor:	1.25
Gas Constant:	24.4
Decimal Places:	2

Oxygenate Response	0.75
ND Flag:	ND
MDL Factor	1

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	1.63	0.82	0.94	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	5.16	2.58	3.18	5.16	2.58	3.18	3.18	3.18
Propene	42.1	3	6.46	2.15	3.72	6.46	2.15	3.72	3.72	3.72
Propane	44.1	3	6.63	2.21	3.99	6.63	2.21	3.99	3.99	3.99
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	4.08	1.02	2.35	4.08	1.02	2.35	2.35	2.35
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	11.25	2.81	6.70	11.25	2.81	6.70	6.70	6.70
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	29.00	5.80	17.16	29.00	5.80	17.16	17.16	17.16
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	4.05	0.68	2.39	4.05	0.68	2.39	2.39	2.39
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	18.91	2.70	11.09	18.91	2.70	11.09	11.09	11.0
Benzene	78.1	6	82.26	13.71	43.88	82.26	13.71	43.88	43.88	43.8
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	9.21	1.32	5.40	9.21	1.32	5.40	5.40	5.4
3-Methylhexane	100.2	7	14.83	2.12	8.70	14.83	2.12	8.70	8.70	8.7
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	5.01	0.72	2.94	5.01	0.72	2.94	2.94	2.94
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	2.98	0.37	1.74	2.98	0.37	1.74	1.74	1.74
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	7.42	0.93	4.34	7.42	0.93	4.34	4.34	4.34
Toluene	92.1	7	19.79	2.83	10.67	19.79	2.83	10.67	10.67	10.67
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	6.97	0.87	4.08	6.97	0.87	4.08	4.08	4.08
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	5.69	0.71	3.33	5.69	0.71	3.33	3.33	3.33
Ethylbenzene	106.2	8	7.97	1.00	4.34	7.97	1.00	4.34	4.34	4.34
m,p-xylene	106.2	8	17.38	2.17	9.46	17.38	2.17	9.46	9.46	9.46
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	7.28	0.91	3.96	7.28	0.91	3.96	3.96	3.96
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	3.87	0.43	2.26	3.87	0.43	2.26	2.26	2.26
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	1059.49	176.6	623.8	1,059.49	176.58	623.83	623.83	623.8
Total Non-Methane Hydrocarbons	16	1.0	1059.49	1059.5	694.7	1,059.49	1,059.49	694.75	694.75	694.7
Total Volatile Organic Compounds	100	7.6	1059.49	139.4	571.3	1,059.49	139.41	571.34	571.34	571.3
TPH (gasoline)	95	7.0	1059.49	151.4	589.3	1,059.49	151.36	589.29	589.29	589.2
TPH (diesel)	198	15.0	1059.49	70.6	573.2	1,059.49	70.63	573.17	573.17	573.1
TPH (hexane)	86.2	6.0	1059.49	176.6	623.8	1,059.49	176.58	623.83	623.83	623.8
TPH (toluene)	92.14	7.0	1059.49	151.4	571.6	1,059.49	151.36	571.55	571.55	571.5
TPH (methane)	16	1.0	1059.49	1059.5	694.7	1,059.49	1,059.49	694.75	694.75	694.7
TPH (Jet A Fuel)	177	13.0	1059.49	81.5	591.2	1,059.49	81.50	591.20	591.20	591.2
TPH (Mineral Spirits)	117.81	8.0	1059.49	132.4	639.4	1,059.49	132.44	639.44	639.44	639.4
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			273.9	48.8						
Paraffins			37.6							
Isoparaffins			93.4							
Aromatics			134.7							
Napthlenes			0.0							
Olefins			12.2							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	6.79	3.40	4.19	6.79	3.40	4.19	4.19	4.19
C3 (propane)	44.1	3	13.09	4.36	7.89	13.09	4.36	7.89	7.89	7.89
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			19.9							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	10.7	1.53	6.28					
Aliphatic C8-C10	128.3	9	3.9	0.43	2.26					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	131.0	47.8
Alkenes	12.2	4.4
Alkynes	0.0	0.0
Cycloalkanes	0.0	0.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	134.7	49.2
Terpenes	0.0	0.0

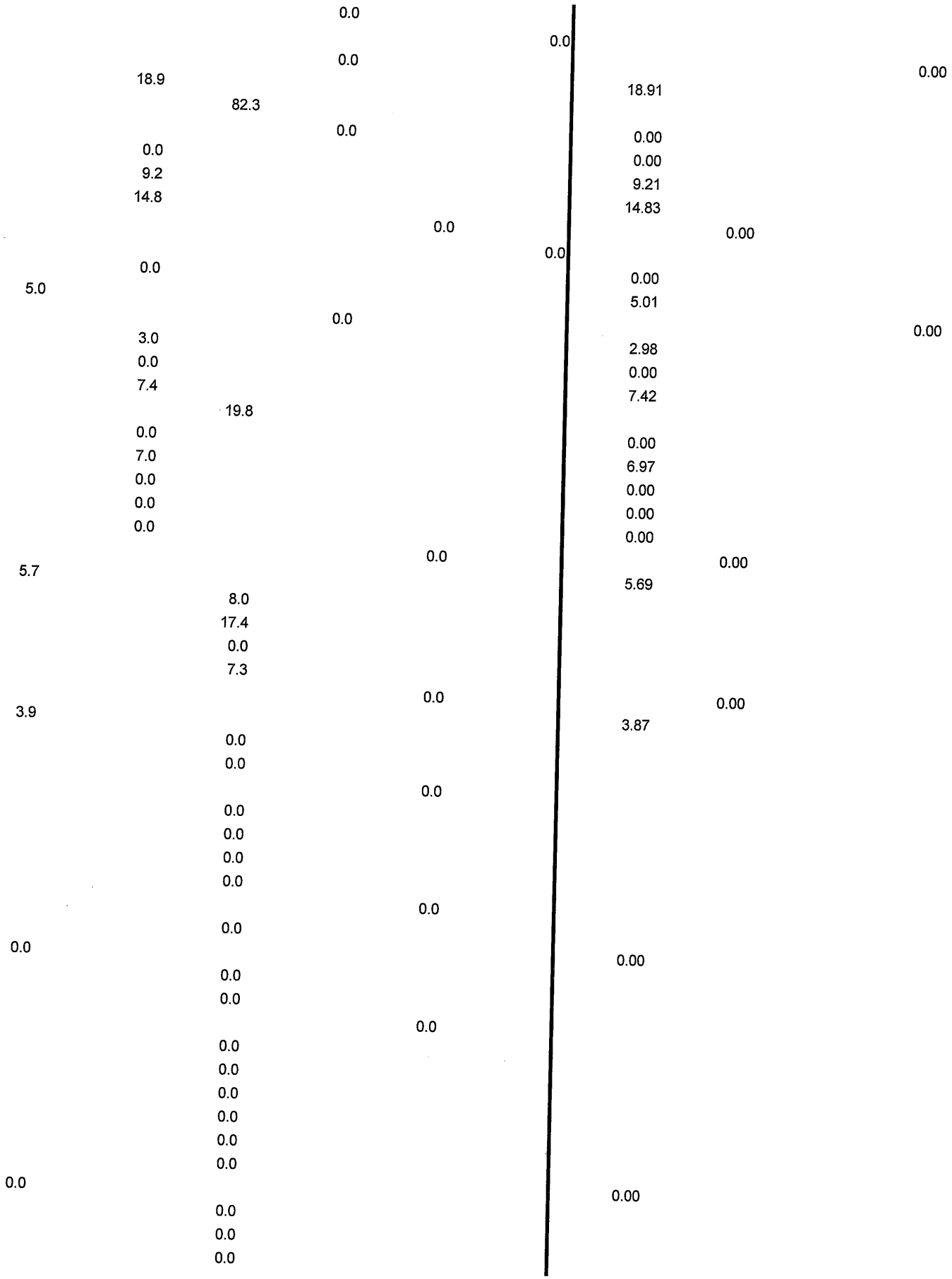
SDG: 225100
Laboratory Number: 11

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
1.7	2.000	1.00	1.25	1.44	2.50	3.75	4.32	7.5	U	ND		Y
0.0	2.000	1.00	1.25	1.33	2.50	3.75	3.99	7.5	U	ND		Y
5.3	2.000	1.00	1.25	1.54	2.50	3.75	4.62	7.5	J	=		Y
4.4	2.000	0.67	0.83	1.44	2.50	2.50	4.31	7.5	J	=		Y
4.5	2.000	0.67	0.83	1.51	2.50	2.50	4.52	7.5	J	=		Y
0.0	2.000	0.50	0.62	1.49	2.50	1.87	4.46	7.5	U	ND		Y
0.0	2.000	2.00	2.50	3.28	2.50	7.50	9.83	7.5	U	ND		Y
2.1	2.000	0.50	0.62	1.44	2.50	1.87	4.31	7.5	J	=		Y
0.0	2.000	0.50	0.62	1.39	2.50	1.87	4.16	7.5	U	ND		Y
5.8	2.000	0.50	0.62	1.49	2.50	1.87	4.46	7.5		=		Y
0.0	2.000	0.50	0.62	1.44	2.50	1.87	4.31	7.5	U	ND		Y
0.0	2.000	0.50	0.62	1.44	2.50	1.87	4.31	7.5	U	ND		Y
0.0	2.000	1.00	1.25	2.36	2.50	3.75	7.08	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.50	1.50	4.31	7.5	U	ND		Y
0.0	2.000	0.67	0.83	1.98	2.50	2.50	5.95	7.5	U	ND		Y
11.9	2.000	0.40	0.50	1.48	2.50	1.50	4.44	7.5		=		Y
0.0	2.000	0.40	0.50	1.44	2.50	1.50	4.31	7.5	U	ND		Y
0.0	2.000	0.67	0.83	2.05	2.50	2.50	6.16	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.50	1.50	4.31	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.48	2.50	1.50	4.43	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.40	2.50	1.50	4.19	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.50	1.50	4.31	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.50	1.50	4.31	7.5	U	ND		Y
0.0	2.000	0.50	0.62	1.90	2.50	1.87	5.69	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.50	1.50	4.31	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.47	2.50	1.25	4.41	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.40	2.50	1.50	4.19	7.5	U	ND		Y
0.0	2.000	0.67	0.83	2.05	2.50	2.50	6.16	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.50	1.50	4.31	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.81	2.50	1.50	5.42	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.47	2.50	1.25	4.41	7.5	U	ND		Y
1.4	2.000	0.33	0.42	1.47	2.50	1.25	4.41	7.5	J	=		Y
0.0	2.000	0.33	0.42	1.47	2.50	1.25	4.41	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.44	2.50	1.25	4.31	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.47	2.50	1.25	4.41	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.74	2.50	1.25	5.23	7.5	U	ND		Y

0.0	2.000	0.33	0.42	1.40	2.50	1.25	4.20	7.5	U	ND	Y
0.0	2.000	0.33	0.42	1.74	2.50	1.25	5.23	7.5	U	ND	Y
0.0	2.000	0.33	0.42	1.44	2.50	1.25	4.31	7.5	U	ND	Y
5.5	2.000	0.29	0.36	1.47	2.50	1.07	4.40	7.5		=	Y
28.1	2.000	0.33	0.42	1.33	2.50	1.25	4.00	7.5		=	Y
0.0	2.000	0.33	0.42	1.44	2.50	1.25	4.31	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.47	2.50	1.07	4.40	7.5	U	ND	Y
2.7	2.000	0.29	0.36	1.47	2.50	1.07	4.40	7.5		=	Y
4.3	2.000	0.29	0.36	1.47	2.50	1.07	4.40	7.5		=	Y
0.0	2.000	0.29	0.36	1.44	2.50	1.07	4.31	7.5	U	ND	Y
0.0	2.000	0.33	0.42	1.74	2.50	1.25	5.23	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5	U	ND	Y
1.5	2.000	0.29	0.36	1.47	2.50	1.07	4.40	7.5	J	=	Y
0.0	2.000	0.29	0.36	1.44	2.50	1.07	4.31	7.5	U	ND	Y
0.8	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5	J	=	Y
0.0	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5	U	ND	Y
1.9	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5	J	=	Y
5.8	2.000	0.29	0.36	1.35	2.50	1.07	4.04	7.5		=	Y
0.0	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5	U	ND	Y
1.8	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5	J	=	Y
0.0	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.50	0.94	4.31	7.5	U	ND	Y
1.5	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5	J	=	Y
2.0	2.000	0.25	0.31	1.36	2.50	0.94	4.08	7.5		=	Y
4.4	2.000	0.25	0.31	1.36	2.50	0.94	4.08	7.5		=	Y
0.0	2.000	0.25	0.31	1.33	2.50	0.94	4.00	7.5	U	ND	Y
1.9	2.000	0.25	0.31	1.36	2.50	0.94	4.08	7.5	J	=	Y
0.0	2.000	0.22	0.28	1.44	2.50	0.83	4.31	7.5	U	ND	Y
0.9	2.000	0.22	0.28	1.46	2.50	0.83	4.38	7.5	J	=	Y
0.0	2.000	0.22	0.28	1.37	2.50	0.83	4.10	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.50	0.83	4.10	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.50	0.75	4.19	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.50	0.83	4.10	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.50	0.83	4.10	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.50	0.83	4.10	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.50	0.83	4.10	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.50	0.75	4.19	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.50	0.83	4.10	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.46	2.50	0.75	4.37	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.50	0.83	4.10	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.35	2.50	0.83	4.04	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.50	0.75	4.19	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.50	0.75	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.50	0.75	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.50	0.75	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.50	0.75	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.50	0.75	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.50	0.75	4.12	7.5	U	ND	Y
0.0	2.000	0.18	0.23	1.46	2.50	0.68	4.37	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.50	0.75	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.50	0.75	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.31	2.50	0.75	3.94	7.5	U	ND	Y

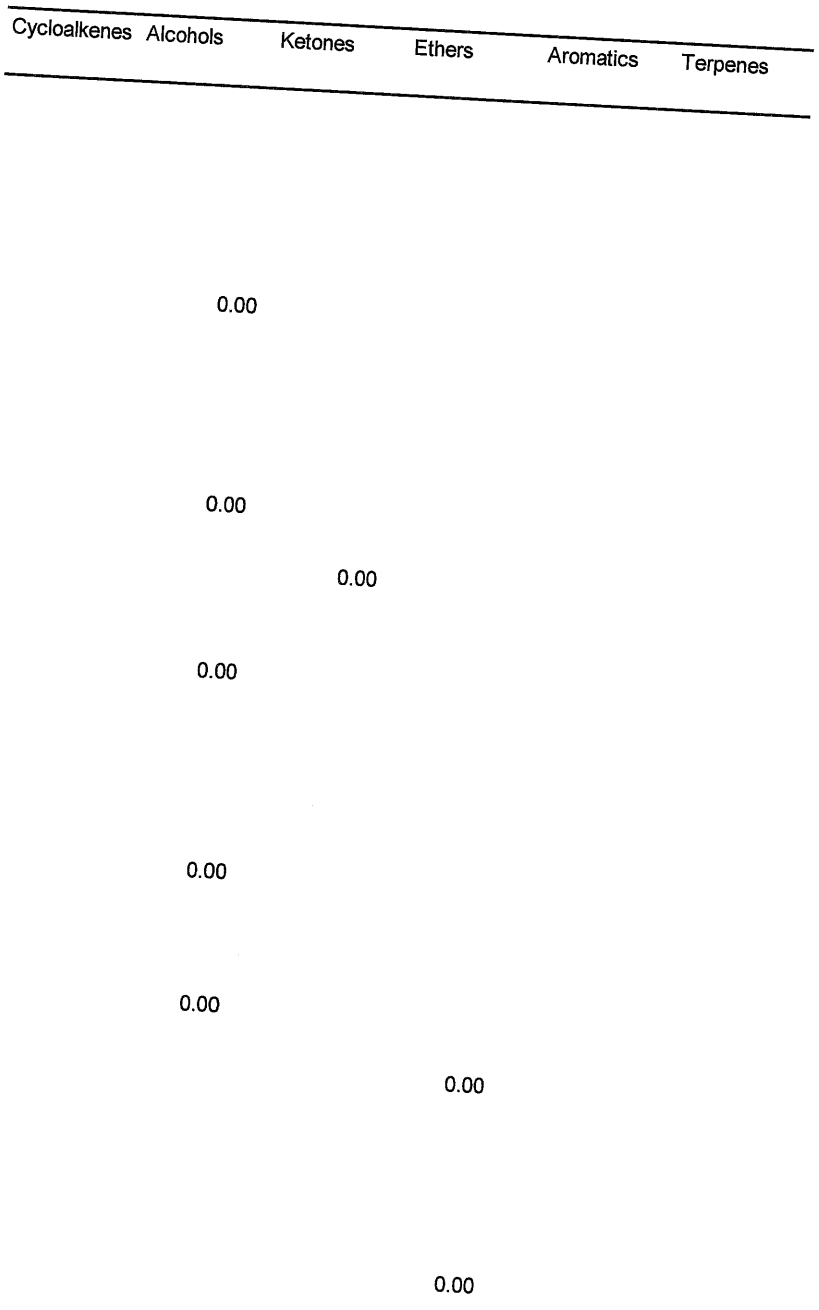
0.0	2.000	0.17	0.21	1.45	2.50	0.62	4.36	7.5	U	ND	Y
%											Y
100.0	45.00	7.5	9.37	33.11	56.23	28.1	99.3	168.7		=	Y
100.0	45.00	45.0	56.23	36.87	56.23	168.7	110.6	168.7		=	Y
100.0	45.00	5.9	7.40	30.32	56.23	22.2	91.0	168.7		=	Y
100.0	45.00	6.4	8.03	31.28	56.23	24.1	93.8	168.7		=	Y
100.0	45.00	3.0	3.75	30.42	56.23	11.2	91.3	168.7		=	Y
100.0	45.00	7.5	9.37	33.11	56.23	28.1	99.3	168.7		=	Y
100.0	45.00	6.4	8.03	30.34	56.23	24.1	91.0	168.7		=	Y
100.0	45.00	45.0	56.23	36.87	56.23	168.7	110.6	168.7		=	Y
100.0	45.00	3.5	4.33	31.38	56.23	13.0	94.1	168.7		=	Y
100.0	45.00	5.6	7.03	33.94	56.23	21.1	101.8	168.7		=	Y
0.0	45.00	7.5	9.37	33.11	56.23	28.1	99.3	168.7	U	ND	Y
0.0	25.000	3.6	4.46	17.38	31.24	13.4	52.1	93.7	U	ND	Y
%											Y
25.9											Y
13.7											Y
34.1											Y
49.2											Y
0.0											Y
4.4											Y
0.0											Y
%											Y
34.2	5.000	2.5	3.12	3.85	6.25	9.4	11.6	18.7	J	=	Y
65.8	5.000	1.7	2.08	3.76	6.25	6.2	11.3	18.7	J	=	Y
0.0	25.000	6.3	7.81	18.60	31.24	23.4	55.8	93.7	U	ND	Y
0.0	25.000	5.0	6.25	18.48	31.24	18.7	55.4	93.7	U	ND	Y
0.0	25.000	4.2	5.21	18.39	31.24	15.6	55.2	93.7	U	ND	Y
0.0	25.000	3.6	4.46	18.33	31.24	13.4	55.0	93.7	U	ND	Y
0.0	25.000	3.1	3.91	18.28	31.24	11.7	54.8	93.7	U	ND	Y
0.0	25.000	2.8	3.47	18.25	31.24	10.4	54.7	93.7	U	ND	Y
0.0	25.000	2.5	3.12	18.22	31.24	9.4	54.7	93.7	U	ND	Y
0.0	25.000	2.3	2.84	18.19	31.24	8.5	54.6	93.7	U	ND	Y
0.0	25.000	2.1	2.60	18.17	31.24	7.8	54.5	93.7	U	ND	Y
0.0	25.000	2.1	2.60	18.17	31.24	7.8	54.5	93.7	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.25	3.70	7.50	3.7	11.1	22.5			Y
1.0	6.0	0.9	1.07	4.40	7.50	3.2	13.2	22.5			Y
0.4	6.0	0.7	0.83	4.38	7.50	2.5	13.1	22.5			Y
0.0	6.0	0.5	0.68	3.99	7.50	2.0	12.0	22.5			Y
0.0	6.0	0.7	0.83	3.90	7.50	2.5	11.7	22.5			Y
0.0	6.0	0.5	0.68	3.98	7.50	2.0	11.9	22.5			Y
0.0	2.0	0.3	0.42	1.47	2.50	1.2	4.4	7.5	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
				1.6			1.63		
				0.0				0.00	
5.2						5.16			
				6.5			6.46		
6.6						6.63			
	0.0					0.00			
					0.0				
				4.1			4.08		
				0.0			0.00		
11.3						11.25			
				0.0			0.00		
				0.0			0.00		
					0.0				
				0.0			0.00		
					0.0				
	29.0					29.00			
				0.0			0.00		
					0.0				
0.0				0.0			0.00		
						0.00			
				0.0			0.00		
				0.0			0.00		
				0.0			0.00		
					0.0				
				0.0			0.00		
	0.0					0.00			
			0.0						0.00
					0.0				
			0.0						0.00
					0.0				
	0.0					0.00			
	4.1					4.05			
	0.0					0.00			
				0.0			0.00		
0.0						0.00			
					0.0				


0.0
0.0
18.9
82.3
0.0
0.0
9.2
14.8
0.0
5.0
0.0
3.0
0.0
7.4
19.8
0.0
7.0
0.0
0.0
0.0
5.7
8.0
17.4
0.0
7.3
3.9
0.0
0.0
0.0

0.0									
37.6	93.4	134.7	0.0	12.2	0.0	0.00	131.0	12.2	0.0	0.0

0.00	4.05		
10.70	60.31		
3.87	0.00		
0.00	0.00		
		3.87	
		0.00	


Cycloalkenes
Alcohols
Ketones
Ethers
Aromatics
Terpenes
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00

0.00

0.00

82.26

0.00

19.79

7.97
17.38
0.00
7.28

0.00
0.00

0.00
0.00
0.00
0.00
0.00

0.00
0.00

0.00
0.00

0.00
0.00
0.00
0.00
0.00
0.00

0.00
0.00
0.00

0.0	0.0	0.0	0.0	134.7	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**11**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.25
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\left|\frac{(Astdni)}{(Cstdni)}\right|_i$

2) ppbC = $\frac{6\ Carbons \times Ansamp \times CDF \times 1000}{(Avg\ RFn) \times SV}$ = **Cn**

3) Amount ppbv = $\frac{Cn}{C\#}$

4) Amount ug/m3 = (amt(ppbv) $\frac{MW}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.02E+04	1025	1.6	0.82	0.94
Acetylene	2	TRG	26.0	2.02E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.02E+04	3239	5.2	2.58	3.18
Propene	3	TRG	4.5	2.02E+04	4	6.5	2.15	3.72
Propane	3	TRG	44.1	2.02E+04	4161	6.6	2.21	3.99
i-Butane	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.02E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.02E+04	2562	4.1	1.02	2.35
n-Butane	4	TRG	54.1	2.02E+04	7065	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.02E+04	0	11.3	2.81	6.70
c-2-Butene	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.02E+04	18205	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.02E+04	0	29.0	5.80	17.16
n-Pentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.02E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.02E+04	2544	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.02E+04	11868	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.02E+04	51636	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.02E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.02E+04	5779	4.1	0.68	2.39
3-Methylhexane	6	TRG	86.2	2.02E+04	9307	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.02E+04	3144	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.02E+04	1869	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.02E+04	4660	0.0	0.00	0.00
Toluene	7	TRG	100.2	2.02E+04	12421	18.9	2.70	11.09
2,3-Dimethylhexane	6	TRG	78.1	2.02E+04	0	82.3	13.71	43.88
2-Methylheptane	6	TRG	84.2	2.02E+04	4374	0.0	0.00	0.00
3-Methylheptane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00
n-Octane	7	TRG	100.2	2.02E+04	3571	9.2	1.32	5.40
Ethylbenzene	7	TRG	100.2	2.02E+04	5003	14.8	2.12	8.70
m,p-xylene	7	TRG	98.2	2.02E+04	10913	0.0	0.00	0.00
Styrene	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00
o-xylene	8	TRG	114.2	2.02E+04	4567	0.0	0.00	0.00
n-Nonane	7	TRG	100.2	2.02E+04	2428	5.0	0.72	2.94
i-Propylbenzene	7	TRG	98.2	2.02E+04	0	0.0	0.00	0.00
n-propylbenzene	8	TRG	114.2	2.02E+04	0	3.0	0.37	1.74
a-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00
3-Ethyltoluene	8	TRG	114.2	2.02E+04	0	7.4	0.93	4.34
4-Ethyltoluene	7	TRG	92.1	2.02E+04	0	19.8	2.83	10.67
1,3,5-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00
2-Ethyltoluene	8	TRG	114.2	2.02E+04	0	7.0	0.87	4.08
b-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00
1,2,4-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00
n-Decane	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00
1,2,3-Trimethylbenzene	8	TRG	112.2	2.02E+04	0	0.0	0.00	0.00
d-Limonene	8	TRG	114.2	2.02E+04	0	5.7	0.71	3.33
1,3-Diethylbenzene	8	TRG	106.2	2.02E+04	0	8.0	1.00	4.34
1,4-Diethylbenzene	8	TRG	106.2	2.02E+04	0	17.4	2.17	9.46
n-Butylbenzene	8	TRG	104.2	2.02E+04	0	0.0	0.00	0.00
Undecane	8	TRG	106.2	2.02E+04	0	7.3	0.91	3.96
Dodecane	9	TRG	126.2	2.02E+04	0	0.0	0.00	0.00
Total Petroleum Hydrocarbons:								
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.02E+04	665093	1059.5	176.58	623.83
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.02E+04	665093	1059.5	1059.49	694.75
Total Volatile Organic Compoun	8	TRG	100.0	2.02E+04	665093	1059.5	139.41	571.34
TPH (gasoline)	7	TRG	95.0	2.02E+04	665093	1059.5	151.36	589.29
TPH (diesel)	15	TRG	198.0	2.02E+04	665093	1059.5	70.63	573.17
TPH (hexane)	6	TRG	86.2	2.02E+04	665093	1059.5	176.58	623.83
TPH (toluene)	7	TRG	92.1	2.02E+04	665093	1059.5	151.36	571.55
TPH (methane)	1	TRG	16.0	2.02E+04	665093	1059.5	1059.49	694.75
TPH (Jet A Fuel)	13	TRG	177.0	2.02E+04	665093	1059.5	81.50	591.20
TPH (Mineral Spirits)	8	TRG	117.8	2.02E+04	665093	1059.5	132.44	639.44
C6+ (hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
Sample: Composition								
Total Identified		TRG	0.0	2.02E+04		273.9		Sum ID
Paraffins	P	TRG	0.0	2.02E+04		37.6		Sum P
Isoparaffins	I	TRG	0.0	2.02E+04		93.4		Sum I
Aromatics	A	TRG	0.0	2.02E+04		134.7		Sum A
Napthlenes	N	TRG	0.0	2.02E+04		0.0		Sum N
Olefins	O	TRG	0.0	2.02E+04		12.2		Sum O
Oxygenates		TRG	0.0	2.02E+04		0.0		Sum Ox
Carbon Ranges:								
C2 (ethane)	2	TRG	30.1	2.02E+04	4264	6.8	3.40	4.19
C3 (propane)	3	TRG	44.1	2.02E+04	8219	13.1	4.36	7.89
C4 (Butane)	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
C5 (Pentane)	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00
C6 (Hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00

C7 (Heptane)	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.02E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.02E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.02E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.02E+04	12483	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 12

File Name: 2510012A
Description: T-112
Canister: 631
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 11:38
Date Analyzed: 03/27/25 **Time:** 16:35
Can Factor: 1.24
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.24	3.71	1.60	1.42	4.27	1.84	J
74-86-2	Acetylene	1.24	3.71	ND	1.32	3.95	ND	ND
74-84-0	Ethane	1.24	3.71	3.04	1.52	4.57	3.75	J
115-07-1	Propene	0.82	2.47	18.54	1.42	4.26	31.99	
74-98-6	Propane	0.82	2.47	5.58	1.49	4.47	10.08	
75-28-5	i-Butane	0.62	1.85	ND	1.47	4.41	ND	ND
106-98-9	1-Butene	0.62	1.85	ND	1.42	4.26	ND	ND
106-97-8	n-Butane	0.62	1.85	ND	1.47	4.41	ND	ND
624-64-6	t-2-Butene	0.62	1.85	ND	1.42	4.26	ND	ND
590-18-1	c-2-Butene	0.62	1.85	ND	1.42	4.26	ND	ND
78-78-4	i-Pentane	0.49	1.48	10.02	1.46	4.39	29.65	
109-67-1	1-Pentene	0.49	1.48	ND	1.42	4.26	ND	ND
109-66-0	n-Pentane	0.49	1.48	22.92	1.46	4.38	67.72	
646-04-8	t-2-Pentene	0.49	1.48	ND	1.42	4.26	ND	ND
627-20-3	c-2-Pentene	0.49	1.48	2.31	1.42	4.26	6.62	
75-83-2	2,2-Dimethylbutane	0.41	1.24	ND	1.45	4.36	ND	ND
142-29-0	Cyclopentene	0.49	1.48	ND	1.38	4.14	ND	ND
287-92-3	Cyclopentane	0.49	1.48	0.55	1.42	4.26	1.58	J
79-29-8	2,3-Dimethylbutane	0.41	1.24	ND	1.45	4.36	ND	ND
107-83-5	2-Methylpentane	0.41	1.24	1.86	1.45	4.36	6.58	
96-14-0	3-Methylpentane	0.41	1.24	1.20	1.45	4.36	4.26	J
592-41-6	1-Hexene	0.41	1.24	ND	1.42	4.26	ND	ND
110-54-3	n-Hexane	0.41	1.24	0.50	1.45	4.36	1.76	J
1120-62-3	3-Methylcyclopentene	0.41	1.24	ND	1.39	4.16	ND	ND
96-37-7	Methylcyclopentane	0.41	1.24	1.21	1.42	4.26	4.19	J
108-08-7	2,4-Dimethylpentane	0.35	1.06	0.78	1.45	4.35	3.19	J
71-43-2	Benzene	0.41	1.24	12.03	1.32	3.95	38.51	
110-82-7	Cyclohexane	0.41	1.24	0.64	1.42	4.26	2.19	J
591-76-4	2-Methylhexane	0.35	1.06	0.60	1.45	4.35	2.48	J
565-59-3	2,3-Dimethylpentane	0.35	1.06	ND	1.45	4.35	ND	ND
589-34-4	3-Methylhexane	0.35	1.06	ND	1.45	4.35	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.31	0.93	ND	1.45	4.34	ND	ND
142-82-5	n-Heptane	0.35	1.06	1.24	1.45	4.35	5.10	
108-87-2	Methylcyclohexane	0.35	1.06	3.46	1.42	4.26	13.91	
592-13-2	2,5-Dimethylhexane	0.31	0.93	1.98	1.45	4.34	9.26	
589-43-5	2,4-Dimethylhexane	0.31	0.93	2.56	1.45	4.34	11.98	
565-75-3	2,3,4-Trimethylpentane	0.31	0.93	ND	1.45	4.34	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.06	2.01	1.33	4.00	7.59	
584-94-1	2,3-Dimethylhexane	0.31	0.93	ND	1.45	4.34	ND	ND
592-27-8	2-Methylheptane	0.31	0.93	ND	1.45	4.34	ND	ND
589-53-7	4-Methylheptane	0.31	0.93	0.84	1.45	4.34	3.91	J
589-81-1	3-Methylheptane	0.31	0.93	ND	1.45	4.34	ND	ND
111-65-9	n-Octane	0.31	0.93	ND	1.45	4.34	ND	ND
100-41-4	Ethylbenzene	0.31	0.93	3.77	1.34	4.03	16.42	
108-38-3	m,p-xylene	0.31	0.93	1.08	1.34	4.03	4.71	
100-42-5	Styrene	0.31	0.93	ND	1.32	3.96	ND	ND
95-47-6	o-xylene	0.31	0.93	1.17	1.34	4.03	5.09	
111-84-2	n-Nonane	0.27	0.82	ND	1.44	4.33	ND	ND
98-82-8	i-Propylbenzene	0.27	0.82	ND	1.35	4.06	ND	ND
103-65-1	n-propylbenzene	0.27	0.82	ND	1.35	4.06	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.82	ND	1.35	4.06	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.82	ND	1.35	4.06	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.82	ND	1.35	4.06	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.82	ND	1.35	4.06	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.82	ND	1.35	4.06	ND	ND
124-18-5	n-Decane	0.27	0.82	ND	1.35	4.06	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.25	0.74	ND	1.44	4.32	ND	ND
141-93-5	1,3-Diethylbenzene	0.27	0.82	ND	1.35	4.06	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.74	ND	1.36	4.08	ND	ND
104-51-8	n-Butylbenzene	0.25	0.74	ND	1.36	4.08	ND	ND
1120-21-4	Undecane	0.25	0.74	ND	1.36	4.08	ND	ND
91-20-3	Naphthalene	0.22	0.67	ND	1.44	4.32	ND	ND
112-40-3	Dodecane	0.25	0.74	ND	1.30	3.89	ND	ND
		0.21	0.62	ND	1.44	4.31	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.26	27.79	250.69	32.73	98.19	885.62	
TNMHC - C1	Total Non-Methane Hydrocarbons	55.59	166.76	1,504.12	36.45	109.35	986.31	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **12**
File Name: **2510012A**
Sample ID: **T-112**
Sampled: **3/19/2025**
Received: **03/21/25**
Analyzed: **03/27/25**
QCBatch: **032725-GCK**
Can: **631**
Can Factor: **1.24**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **11:38** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **16:35** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **364105**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win	C2-C4	C5-C12
RT	**0.3**	**0.1**
RTI	**3**	**3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	3.98	**3.98**	2028	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.02			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.09**	3861	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.07**	35325	I	I	H	290	290
74-98-6	Propane	P	5.20	**5.20**	**5.17**	10628	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.57**						135	351
67-56-1	Methanol		8.30	8.27						135	401
106-98-9	1-Butene	P	7.29	7.26	**7.33**		I	I	H	369	367
106-99-0	1,3-Butadiene		**7.48**	7.45						135	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.32**	1404	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.73	**8.87**		O	O	L	413	410
590-18-1	c-2-Butene	P	9.63	9.61						198	431
64-17-5	Ethanol		10.85	10.80						198	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.00						198	465
67-64-1	Acetone		11.52	11.47						198	476
78-78-4	i-Pentane	P	11.37	11.32	**11.36**	31814	I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.25	**12.11**		O	I	M	492	495
67-63-0	Isopropanol		12.65	12.60						198	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.31						198	497
109-66-0	n-Pentane	P	12.48	**12.43**	**12.43**	72766	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.50						163	503
646-04-8	t-2-Pentene	P	12.79	12.74	**12.74**		I	I	H	508	510
627-20-3	c-2-Pentene	P	13.08	13.03	**13.03**	7321	I	I	H	516	518
75-65-0	Tert butyl alcohol		**13.55**	13.50						280	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.57						280	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.72						163	537
142-29-0	Cyclopentene	15	**14.61**	14.56						163	551
71-23-8	n-Propanol		**14.75**	14.70						163	558
287-92-3	Cyclopentane	P	14.88	14.83	**14.84**	1744	I	I	H	565	567
1634-04-4	Methyl tert butyl ether		**15.00**	14.95						163	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.01	**15.02**		I	I	H	570	570
107-83-5	2-Methylpentane	P	15.08	15.03	**15.02**	7094	I	I	H	570	571
96-14-0	3-Methylpentane	P	15.55	15.50	**15.51**	4590	I	I	H	583	583
592-41-6	1-Hexene	P	**15.80**	15.75						163	590
110-54-3	n-Hexane	P	16.17	**16.12**	**16.12**	1902	I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.25						258	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.40						215	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.75						215	623
96-37-7	Methylcyclopentane		P	16.86	16.81	**16.76**	4629	I	I	H	620	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.00	**17.00**	3453	I	I	H	627	626
71-43-2	Benzene		P	17.87	**17.82**	**17.80**	45841	I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.07	**18.09**	2420	I	I	H	661	658
591-76-4	2-Methylhexane		P	18.38	18.31	**18.34**	2689	I	I	H	669	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.38	**18.41**		I	I	H	671	671
589-34-4	3-Methylhexane		P	18.66	18.59	**18.61**		I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.68						102	687
994-05-8	Tert amyl methyl ether			**18.80**	18.73						102	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.02	**19.02**		I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.34	**19.36**	5516	I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.02	**20.06**	15367	I	I	H	724	722
592-13-2	2,5-Dimethylhexane			20.35	20.28	**20.31**	10056	I	I	H	732	734
589-43-5	2,4-Dimethylhexane			20.43	20.36	**20.39**	13005	I	I	H	735	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.86	**20.83**		I	O	M	750	753
108-88-3	Toluene		P	21.12	**21.05**	**21.09**	8939	I	I	H	759	758
584-94-1	2,3-Dimethylhexane			21.20	21.17	**21.17**		I	I	H	762	763
592-27-8	2-Methylheptane		P	21.33	21.30	**21.30**		I	I	H	766	768
589-53-7	4-Methylheptane	48		**21.48**	21.45	**21.44**	4245	I	O	M	771	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.47						40	772
589-81-1	3-Methylheptane		p	21.55	21.52	**21.56**		I	I	H	775	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.07						40	786
111-65-9	n-Octane		P	22.27	22.24	**22.29**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.72	**23.80**	19168	I	O	M	859	855
108-38-3	m,p-xylene		P	23.95	23.92	**23.97**	5494	I	I	H	865	863
100-42-5	Styrene		P	24.40	24.37						-69	881
95-47-6	o-xylene		P	24.57	24.54	**24.61**	5947	I	O	M	890	886
124-11-8	1-Nonene	64		24.60	24.57						-69	889
111-84-2	n-Nonane		P	24.87	24.84	**24.86**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.33						-155	919
103-65-1	n-propylbenzene		P	25.93	25.90						-155	947
80-56-8	a-Pinene			26.09	26.06						-155	950
620-14-4	3-Ethyltoluene		P	26.17	26.14						-155	957
622-96-8	4-Ethyltoluene		P	26.26	26.23						-155	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.42						-155	964
611-14-3	2-Ethyltoluene		P	26.61	26.58						-155	975
127-91-3	b-Pinene			26.80	26.77						-155	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.05	**26.93**		O	I	M	988	991
124-18-5	n-Decane		P	27.26	27.23	**27.21**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.52						-27	1014
496-11-7	Indan	81		27.55	27.52						-27	1020
5989-27-5	d-Limonene			27.65	27.62	**27.64**		I	I	H	1016	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.07	**28.05**		I	I	H	1032	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.20	**28.17**		I	I	H	1036	1037
104-51-8	n-Butylbenzene			28.45	28.42						-27	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.57						-27	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.72						-27	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.80						-27	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.42						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.47						-48	1124
91-20-3	Naphthalene		32.25	32.22						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					1038310		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					955176		41421			
TNMHC - C1	Total Non-Methane Hydrocarbons					955176		22545			
TVOC	Total Volatile Organic Compounds					955176		19168			
TPH(g)	TPH (gasoline)					955176		0			
TPH(d)	TPH (diesel)					955176		0			
TPH(h)	TPH (hexane)					955176		0			
TPH(t)	TPH (toluene)					955176		0			
TPHC	TPH (methane)					955176		0			
TPH(Jet A)	TPH (Jet A Fuel)					955176		**83134**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					955176					
C6+	**C6+ (hexane)**		16.17	16.12	16.12	**0**		Sum from	16.12	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			5889		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			45953		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**51842**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	032725-GCK
Hexane Std Area:	364105
Hexane Conc.	18.05
Standard Volume:	1.00
Can Dilution Factor:	1.24
Air Volume:	200.00
Combined Factor:	1.24
Gas Constant:	24.4
Decimal Places:	2

Oxygenate Response	0.75
ND Flag:	ND
MDL Factor	1

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	3.19	1.60	1.84	3.19	1.60	1.84	1.84	1.84
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	6.08	3.04	3.75	6.08	3.04	3.75	3.75	3.75
Propene	42.1	3	55.63	18.54	31.99	55.63	18.54	31.99	31.99	31.99
Propane	44.1	3	16.74	5.58	10.08	16.74	5.58	10.08	10.08	10.08
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	2.21	0.55	1.32	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	50.10	10.02	29.65	50.10	10.02	29.65	29.65	29.65
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	114.59	22.92	67.72	114.59	22.92	67.72	67.72	67.72
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	11.53	2.31	6.62	11.53	2.31	6.62	6.62	6.62
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	2.75	0.55	1.58	2.75	0.55	1.58	1.58	1.58
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	11.17	1.86	6.58	11.17	1.86	6.58	6.58	6.58
3-Methylpentane	86.2	6	7.23	1.20	4.26	7.23	1.20	4.26	4.26	4.26
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	3.00	**0.50**	1.76	3.00	0.50	1.76	1.76	1.76
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0		
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0		
Methylcyclopentane	84.2	6	7.29	1.21	4.19	7.29	1.21	4.19	4.19	4.	
2,4-Dimethylpentane	100.2	7	5.44	0.78	3.19	5.44	0.78	3.19	3.19	3.	
Benzene	78.1	6	72.19	12.03	38.51	72.19	12.03	38.51	38.51	38.	
Cyclohexane	84.2	6	3.81	0.64	2.19	3.81	0.64	2.19	2.19	2.	
2-Methylhexane	100.2	7	4.23	0.60	2.48	4.23	0.60	2.48	2.48	2.	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0		
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0		
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0		
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0		
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0		
n-Heptane	100.2	7	8.69	1.24	5.10	8.69	1.24	5.10	5.10	5.1	
Methylcyclohexane	98.2	7	24.20	3.46	13.91	24.20	3.46	13.91	13.91	13.9	
2,5-Dimethylhexane	114.2	8	15.84	1.98	9.26	15.84	1.98	9.26	9.26	9.2	
2,4-Dimethylhexane	114.2	8	20.48	2.56	11.98	20.48	2.56	11.98	11.98	11.9	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0		
Toluene	92.1	7	14.08	2.01	7.59	14.08	2.01	7.59	7.59	7.59	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0		
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0		
4-Methylheptane	114.2	8	6.68	0.84	3.91	6.68	0.84	3.91	3.91	3.91	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0		
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0		
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0		
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0		
Ethylbenzene	106.2	8	30.18	3.77	16.42	30.18	3.77	16.42	16.42	16.42	
m,p-xylene	106.2	8	8.65	1.08	4.71	8.65	1.08	4.71	4.71	4.71	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0		
o-xylene	106.2	8	9.36	1.17	5.09	9.36	1.17	5.09	5.09	5.09	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0		
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0		
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0		
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0		
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0		
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0		
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0		
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0		
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0		
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0		
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0		
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0		
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0		
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0		
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0		
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0		
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0		
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0		
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0		
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0		
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0		
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0		
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0		
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0		
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0		

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	1504.12	250.7	885.6	1,504.12	250.69	885.62	885.62	885.6
Total Non-Methane Hydrocarbons	16	1.0	1504.12	1504.1	986.3	1,504.12	1,504.12	986.31	986.31	986.3
Total Volatile Organic Compounds	100	7.6	1504.12	197.9	811.1	1,504.12	197.91	811.11	811.11	811.1
TPH (gasoline)	95	7.0	1504.12	214.9	836.6	1,504.12	214.87	836.60	836.60	836.6
TPH (diesel)	198	15.0	1504.12	100.3	813.7	1,504.12	100.27	813.70	813.70	813.7
TPH (hexane)	86.2	6.0	1504.12	250.7	885.6	1,504.12	250.69	885.62	885.62	885.62
TPH (toluene)	92.14	7.0	1504.12	214.9	811.4	1,504.12	214.87	811.42	811.42	811.42
TPH (methane)	16	1.0	1504.12	1504.1	986.3	1,504.12	1,504.12	986.31	986.31	986.31
TPH (Jet A Fuel)	177	13.0	1504.12	115.7	839.3	1,504.12	115.70	839.31	839.31	839.31
TPH (Mineral Spirits)	117.81	8.0	1504.12	188.0	907.8	1,504.12	188.02	907.79	907.79	907.79
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			515.3	102.0						
Paraffins			151.3							
Isoparaffins			121.2							
Aromatics			134.5							
Napthlenes			38.0							
Olefins			70.3							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	9.27	4.64	5.72	9.27	4.64	5.72	5.72	5.72
C3 (propane)	44.1	3	72.36	24.12	43.60	72.36	24.12	43.60	43.60	43.60
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			81.6							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	114.6	19.10	56.47					
Aliphatic C6-C8	100.2	7	11.7	1.67	6.85					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)				
C6+	117.81	8		
	117.81	8		
Alkanes				
Alkenes			276.3	
Alkynes			70.3	53.6
Cycloalkanes			0.0	13.7
Cycloalkenes			34.2	0.0
Alcohols			0.0	6.6
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			0.0	0.0
Terpenes			134.5	0.0
			0.0	26.1
				0.0

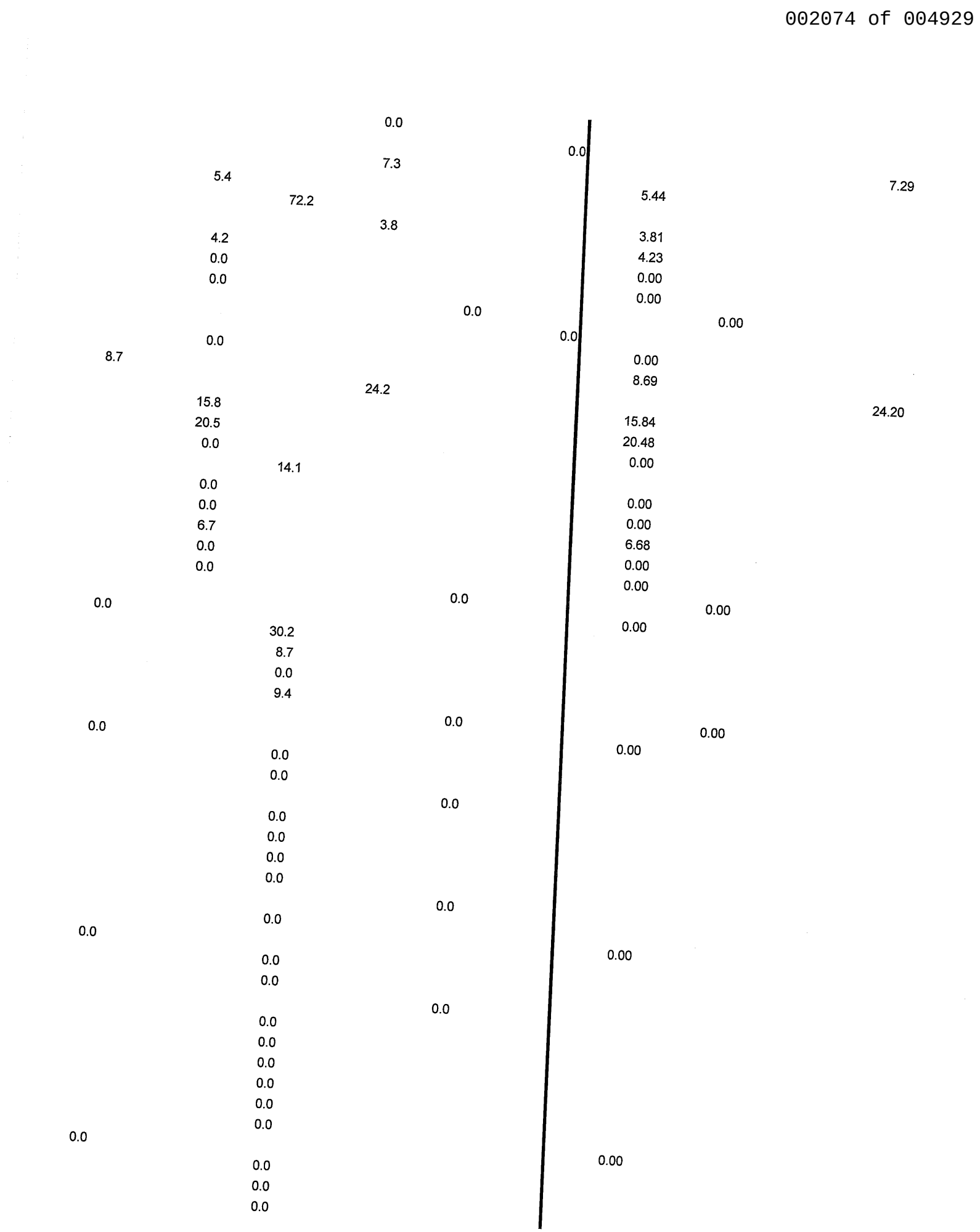
SDG: 225100
Laboratory Number: 12

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
1.6	2.000	1.00	1.24	1.42	2.47	3.71	4.27	7.4	J	=		Y
0.0	2.000	1.00	1.24	1.32	2.47	3.71	3.95	7.4	U	ND		Y
3.0	2.000	1.00	1.24	1.52	2.47	3.71	4.57	7.4	J	=		Y
18.2	2.000	0.67	0.82	1.42	2.47	2.47	4.26	7.4		=		Y
5.5	2.000	0.67	0.82	1.49	2.47	2.47	4.47	7.4		=		Y
0.0	2.000	0.50	0.62	1.47	2.47	1.85	4.41	7.4	U	ND		Y
0.0	2.000	2.00	2.47	3.24	2.47	7.41	9.72	7.4	U	ND		Y
0.0	2.000	0.50	0.62	1.42	2.47	1.85	4.26	7.4	U	ND		Y
0.0	2.000	0.50	0.62	1.37	2.47	1.85	4.11	7.4	U	ND		Y
0.5	2.000	0.50	0.62	1.47	2.47	1.85	4.41	7.4	U	ND		Y
0.0	2.000	0.50	0.62	1.42	2.47	1.85	4.26	7.4	U	ND		Y
0.0	2.000	0.50	0.62	1.42	2.47	1.85	4.26	7.4	U	ND		Y
0.0	2.000	1.00	1.24	2.33	2.47	3.71	7.00	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.42	2.47	1.48	4.26	7.4	U	ND		Y
0.0	2.000	0.67	0.82	1.96	2.47	2.47	5.88	7.4	U	ND		Y
9.8	2.000	0.40	0.49	1.46	2.47	1.48	4.39	7.4		=		Y
0.0	2.000	0.40	0.49	1.42	2.47	1.48	4.26	7.4	U	ND		Y
0.0	2.000	0.67	0.82	2.03	2.47	2.47	6.09	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.42	2.47	1.48	4.26	7.4	U	ND		Y
22.5	2.000	0.40	0.49	1.46	2.47	1.48	4.38	7.4		=		Y
0.0	2.000	0.40	0.49	1.38	2.47	1.48	4.14	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.42	2.47	1.48	4.26	7.4	U	ND		Y
2.3	2.000	0.40	0.49	1.42	2.47	1.48	4.26	7.4		=		Y
0.0	2.000	0.50	0.62	1.88	2.47	1.85	5.63	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.42	2.47	1.48	4.26	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.45	2.47	1.24	4.36	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.38	2.47	1.48	4.14	7.4	U	ND		Y
0.0	2.000	0.67	0.82	2.03	2.47	2.47	6.09	7.4	U	ND		Y
0.5	2.000	0.40	0.49	1.42	2.47	1.48	4.26	7.4	J	=		Y
0.0	2.000	0.40	0.49	1.79	2.47	1.48	5.36	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.45	2.47	1.24	4.36	7.4	U	ND		Y
1.8	2.000	0.33	0.41	1.45	2.47	1.24	4.36	7.4		=		Y
1.2	2.000	0.33	0.41	1.45	2.47	1.24	4.36	7.4	J	=		Y
0.0	2.000	0.33	0.41	1.42	2.47	1.24	4.26	7.4	U	ND		Y
0.5	2.000	0.33	0.41	1.45	2.47	1.24	4.36	7.4	J	=		Y
0.0	2.000	0.33	0.41	1.72	2.47	1.24	5.17	7.4	U	ND		Y

0.0	2.000	0.33	0.41	1.39	2.47	1.24	4.16	7.4	U	ND	Y
0.0	2.000	0.33	0.41	1.72	2.47	1.24	5.17	7.4	U	ND	Y
1.2	2.000	0.33	0.41	1.42	2.47	1.24	4.26	7.4	J	=	Y
0.8	2.000	0.29	0.35	1.45	2.47	1.06	4.35	7.4	J	=	Y
11.8	2.000	0.33	0.41	1.32	2.47	1.24	3.95	7.4		=	Y
0.6	2.000	0.33	0.41	1.42	2.47	1.24	4.26	7.4	J	=	Y
0.6	2.000	0.29	0.35	1.45	2.47	1.06	4.35	7.4	J	=	Y
0.0	2.000	0.29	0.35	1.45	2.47	1.06	4.35	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.45	2.47	1.06	4.35	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.47	1.06	4.26	7.4	U	ND	Y
0.0	2.000	0.33	0.41	1.72	2.47	1.24	5.17	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.45	2.47	0.93	4.34	7.4	U	ND	Y
1.2	2.000	0.29	0.35	1.45	2.47	1.06	4.35	7.4		=	Y
3.4	2.000	0.29	0.35	1.42	2.47	1.06	4.26	7.4		=	Y
1.9	2.000	0.25	0.31	1.45	2.47	0.93	4.34	7.4		=	Y
2.5	2.000	0.25	0.31	1.45	2.47	0.93	4.34	7.4		=	Y
0.0	2.000	0.25	0.31	1.45	2.47	0.93	4.34	7.4		=	Y
2.0	2.000	0.29	0.35	1.33	2.47	1.06	4.00	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.45	2.47	0.93	4.34	7.4		=	Y
0.0	2.000	0.25	0.31	1.45	2.47	0.93	4.34	7.4	U	ND	Y
0.8	2.000	0.25	0.31	1.45	2.47	0.93	4.34	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.45	2.47	0.93	4.34	7.4	J	=	Y
0.0	2.000	0.25	0.31	1.45	2.47	0.93	4.34	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.42	2.47	0.93	4.26	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.45	2.47	0.93	4.34	7.4	U	ND	Y
3.7	2.000	0.25	0.31	1.34	2.47	0.93	4.03	7.4		=	Y
1.1	2.000	0.25	0.31	1.34	2.47	0.93	4.03	7.4		=	Y
0.0	2.000	0.25	0.31	1.32	2.47	0.93	3.96	7.4	U	ND	Y
1.1	2.000	0.25	0.31	1.34	2.47	0.93	4.03	7.4		=	Y
0.0	2.000	0.22	0.27	1.42	2.47	0.82	4.26	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.44	2.47	0.82	4.33	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.06	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.06	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.47	0.74	4.14	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.06	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.06	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.06	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.06	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.47	0.74	4.14	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.06	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.44	2.47	0.74	4.32	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.06	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.47	0.82	3.99	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.47	0.74	4.14	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.08	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.08	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.08	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.08	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.08	7.4	U	ND	Y
0.0	2.000	0.18	0.22	1.44	2.47	0.67	4.32	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.08	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.08	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.30	2.47	0.74	3.89	7.4	U	ND	Y

0.0	2.000	0.17	0.21	1.44	2.47	0.62	4.31	7.4	U	ND	Y
%											Y
100.0	45.00	7.5	9.26	32.73	55.59	27.8	98.2	166.8		=	Y
100.0	45.00	45.0	55.59	36.45	55.59	166.8	109.4	166.8		=	Y
100.0	45.00	5.9	7.31	29.98	55.59	21.9	89.9	166.8		=	Y
100.0	45.00	6.4	7.94	30.92	55.59	23.8	92.8	166.8		=	Y
100.0	45.00	3.0	3.71	30.07	55.59	11.1	90.2	166.8		=	Y
100.0	45.00	7.5	9.26	32.73	55.59	27.8	98.2	166.8		=	Y
100.0	45.00	6.4	7.94	29.99	55.59	23.8	90.0	166.8		=	Y
100.0	45.00	45.0	55.59	36.45	55.59	166.8	109.4	166.8		=	Y
100.0	45.00	3.5	4.28	31.02	55.59	12.8	93.1	166.8		=	Y
100.0	45.00	5.6	6.95	33.55	55.59	20.8	100.6	166.8		=	Y
0.0	45.00	7.5	9.26	32.73	55.59	27.8	98.2	166.8	U	ND	Y
0.0	25.000	3.6	4.41	17.18	30.88	13.2	51.5	92.6	U	ND	Y
%											Y
34.3											Y
29.4											Y
23.5											Y
26.1											Y
7.4											Y
13.7											Y
0.0											Y
%											Y
11.4	5.000	2.5	3.09	3.81	6.18	9.3	11.4	18.5	J	=	Y
88.6	5.000	1.7	2.06	3.72	6.18	6.2	11.2	18.5		=	Y
0.0	25.000	6.3	7.72	18.39	30.88	23.2	55.2	92.6	U	ND	Y
0.0	25.000	5.0	6.18	18.26	30.88	18.5	54.8	92.6	U	ND	Y
0.0	25.000	4.2	5.15	18.18	30.88	15.4	54.6	92.6	U	ND	Y
0.0	25.000	3.6	4.41	18.12	30.88	13.2	54.4	92.6	U	ND	Y
0.0	25.000	3.1	3.86	18.07	30.88	11.6	54.2	92.6	U	ND	Y
0.0	25.000	2.8	3.43	18.04	30.88	10.3	54.1	92.6	U	ND	Y
0.0	25.000	2.5	3.09	18.01	30.88	9.3	54.0	92.6	U	ND	Y
0.0	25.000	2.3	2.81	17.98	30.88	8.4	54.0	92.6	U	ND	Y
0.0	25.000	2.1	2.57	17.96	30.88	7.7	53.9	92.6	U	ND	Y
0.0	25.000	2.1	2.57	17.96	30.88	7.7	53.9	92.6	U	ND	Y
100.0											Y
											Y
7.6	6.0	1.0	1.24	3.65	7.41	3.7	11.0	22.2			Y
0.8	6.0	0.9	1.06	4.35	7.41	3.2	13.0	22.2			Y
0.0	6.0	0.7	0.82	4.33	7.41	2.5	13.0	22.2			Y
0.0	6.0	0.5	0.67	3.94	7.41	2.0	11.8	22.2			Y
0.0	6.0	0.7	0.82	3.85	7.41	2.5	11.6	22.2			Y
0.0	6.0	0.5	0.67	3.93	7.41	2.0	11.8	22.2			Y
0.0	2.0	0.3	0.41	1.45	2.47	1.2	4.4	7.4	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
				3.2			3.19		
6.1				0.0				0.00	
						6.08			
16.7				55.6			55.63		
	0.0					16.74			
						0.00			
					0.0				
				0.0			0.00		
2.2				0.0			0.00		
						2.21			
				0.0			0.00		
				0.0			0.00		
					0.0				
				0.0			0.00		
	50.1				0.0				
						50.10			
				0.0			0.00		
					0.0				
114.6				0.0			0.00		
						114.59			
				0.0			0.00		
				0.0			0.00		
				11.5			11.53		
					0.0				
				0.0			0.00		
	0.0					0.00			
			0.0						0.00
					0.0				
			2.7						2.75
					0.0				
	0.0					0.00			
	11.2					11.17			
	7.2					7.23			
				0.0					
3.0							0.00		
						3.00			
					0.0				


0.0
7.3
5.4
72.2
3.8
4.2
0.0
0.0
0.0
0.0
8.7
24.2
15.8
20.5
0.0
14.1
0.0
0.0
6.7
0.0
0.0
0.0
30.2
8.7
0.0
9.4
0.0
0.0
0.0
0.0

0.0									
151.3	121.2	134.5	38.0	70.3	0.0	0.00	276.3	70.3	0.0	34.2

114.59	18.40		
11.68	52.67		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
0.00					
0.00					
		0.00			
0.00					
0.00					
0.00					
			0.00		
			0.00		

0.00

0.00

72.19

0.00

14.08

30.18
8.65
0.00
9.36

0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00

0.0	0.0	0.0	0.0	134.5	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**12**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.24	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum $\left|\frac{(Astdni)}{(Cstdni)}\right|_i$

2) ppbC = $\frac{6\ Carbons}{(Avg\ RFn)} \frac{Ansamp}{SV} \frac{CDF}{} \frac{1000}{}$ = **Cn**

3) Amount ppbv = $\frac{Cn}{C\#}$

4) Amount ug/m3 = $\frac{(amt(ppbv)\ MW}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.02E+04	2028	3.2	1.60	1.84
Acetylene	2	TRG	26.0	2.02E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.02E+04	3861	6.1	3.04	3.75
Propene	3	TRG	4.5	2.02E+04	4	55.6	18.54	31.99
Propane	3	TRG	44.1	2.02E+04	10628	16.7	5.58	10.08
i-Butane	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.02E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.02E+04	1404	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.02E+04	0	2.2	0.55	1.32
c-2-Butene	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.02E+04	31814	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.02E+04	0	50.1	10.02	29.65
n-Pentane	5	TRG	70.1	2.02E+04	72766	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.02E+04	7321	114.6	22.92	67.72
2,2-Dimethylbutane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.02E+04	1744	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.02E+04	0	11.5	2.31	6.62
2-Methylpentane	4	TRG	74.1	2.02E+04	7094	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.02E+04	4590	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.02E+04	1902	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.02E+04	4629	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.02E+04	3453	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.02E+04	45841	2.7	0.55	1.58
Cyclohexane	5	TRG	88.2	2.02E+04	2420	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.02E+04	2689	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.02E+04	0	11.2	1.86	6.58
3-Methylhexane	6	TRG	86.2	2.02E+04	0	7.2	1.20	4.26
2,2,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.02E+04	5516	3.0	0.50	1.76
Methylcyclohexane	6	TRG	102.2	2.02E+04	15367	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.02E+04	10056	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.02E+04	13005	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	7.3	1.21	4.19	
Toluene	7	TRG	100.2	2.02E+04	8939	5.4	0.78	3.19	
2,3-Dimethylhexane	6	TRG	78.1	2.02E+04	0	72.2	12.03	38.51	
2-Methylheptane	6	TRG	84.2	2.02E+04	0	3.8	0.64	2.19	
3-Methylheptane	7	TRG	100.2	2.02E+04	0	4.2	0.60	2.48	
n-Octane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.02E+04	19168	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.02E+04	5494	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.02E+04	5947	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.02E+04	0	8.7	1.24	5.10	
i-Propylbenzene	7	TRG	98.2	2.02E+04	0	24.2	3.46	13.91	
n-propylbenzene	8	TRG	114.2	2.02E+04	0	15.8	1.98	9.26	
a-Pinene	8	TRG	114.2	2.02E+04	0	20.5	2.56	11.98	
3-Ethyltoluene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.02E+04	0	14.1	2.01	7.59	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.02E+04	0	6.7	0.84	3.91	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.02E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.02E+04	0	30.2	3.77	16.42	
1,4-Diethylbenzene	8	TRG	106.2	2.02E+04	0	8.7	1.08	4.71	
n-Butylbenzene	8	TRG	104.2	2.02E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.02E+04	0	9.4	1.17	5.09	
Dodecane	9	TRG	126.2	2.02E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.02E+04	955176	1504.1	250.69	885.62	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.02E+04	955176	1504.1	1504.12	986.31	
Total Volatile Organic Compoun	8	TRG	100.0	2.02E+04	955176	1504.1	197.91	811.11	
TPH (gasoline)	7	TRG	95.0	2.02E+04	955176	1504.1	214.87	836.60	
TPH (diesel)	15	TRG	198.0	2.02E+04	955176	1504.1	100.27	813.70	
TPH (hexane)	6	TRG	86.2	2.02E+04	955176	1504.1	250.69	885.62	
TPH (toluene)	7	TRG	92.1	2.02E+04	955176	1504.1	214.87	811.42	
TPH (methane)	1	TRG	16.0	2.02E+04	955176	1504.1	1504.12	986.31	
TPH (Jet A Fuel)	13	TRG	177.0	2.02E+04	955176	1504.1	115.70	839.31	
TPH (Mineral Spirits)	8	TRG	117.8	2.02E+04	955176	1504.1	188.02	907.79	
C6+ (hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.02E+04		515.3			Sum ID
Paraffins	P	TRG	0.0	2.02E+04		151.3			Sum P
Isoparaffins	I	TRG	0.0	2.02E+04		121.2			Sum I
Aromatics	A	TRG	0.0	2.02E+04		134.5			Sum A
Napthlenes	N	TRG	0.0	2.02E+04		38.0			Sum N
Olefins	O	TRG	0.0	2.02E+04		70.3			Sum O
Oxygenates		TRG	0.0	2.02E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.02E+04	5889	9.3	4.64	5.72	
C3 (propane)	3	TRG	44.1	2.02E+04	45953	72.4	24.12	43.60	
C4 (Butane)	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.02E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.02E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.02E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.02E+04	51842	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 13

File Name: 2510013A
Description: T-113
Canister: 690
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 13:05
Date Analyzed: 03/27/25 **Time:** 17:33
Can Factor: 1.23
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.23	3.70	ND	1.42	4.26	ND	ND
74-86-2	Acetylene	1.23	3.70	ND	1.31	3.94	ND	ND
74-84-0	Ethane	1.23	3.70	6.59	1.52	4.57	8.13	
115-07-1	Propene	0.82	2.47	1.44	1.42	4.26	2.49	J
74-98-6	Propane	0.82	2.47	3.01	1.49	4.46	5.44	
75-28-5	i-Butane	0.62	1.85	ND	1.47	4.41	ND	ND
106-98-9	1-Butene	0.62	1.85	ND	1.42	4.26	ND	ND
106-97-8	n-Butane	0.62	1.85	1.13	1.47	4.41	2.70	J
624-64-6	t-2-Butene	0.62	1.85	ND	1.42	4.26	ND	ND
590-18-1	c-2-Butene	0.62	1.85	ND	1.42	4.26	ND	ND
78-78-4	i-Pentane	0.49	1.48	ND	1.46	4.38	ND	ND
109-67-1	1-Pentene	0.49	1.48	ND	1.42	4.25	ND	ND
109-66-0	n-Pentane	0.49	1.48	0.61	1.46	4.38	1.80	J
646-04-8	t-2-Pentene	0.49	1.48	ND	1.42	4.25	ND	ND
627-20-3	c-2-Pentene	0.49	1.48	ND	1.42	4.25	ND	ND
75-83-2	2,2-Dimethylbutane	0.41	1.23	ND	1.45	4.36	ND	ND
142-29-0	Cyclopentene	0.49	1.48	ND	1.38	4.13	ND	ND
287-92-3	Cyclopentane	0.49	1.48	ND	1.42	4.25	ND	ND
79-29-8	2,3-Dimethylbutane	0.41	1.23	ND	1.45	4.36	ND	ND
107-83-5	2-Methylpentane	0.41	1.23	ND	1.45	4.36	ND	ND
96-14-0	3-Methylpentane	0.41	1.23	ND	1.45	4.36	ND	ND
592-41-6	1-Hexene	0.41	1.23	ND	1.42	4.26	ND	ND
110-54-3	n-Hexane	0.41	1.23	ND	1.45	4.36	ND	ND
1120-62-3	3-Methylcyclopentene	0.41	1.23	ND	1.38	4.15	ND	ND
96-37-7	Methylcyclopentane	0.41	1.23	0.47	1.42	4.26	1.62	J
108-08-7	2,4-Dimethylpentane	0.35	1.06	ND	1.45	4.34	ND	ND
71-43-2	Benzene	0.41	1.23	5.01	1.32	3.95	16.02	
110-82-7	Cyclohexane	0.41	1.23	ND	1.42	4.26	ND	ND
591-76-4	2-Methylhexane	0.35	1.06	0.77	1.45	4.34	3.15	J
565-59-3	2,3-Dimethylpentane	0.35	1.06	ND	1.45	4.34	ND	ND
589-34-4	3-Methylhexane	0.35	1.06	ND	1.45	4.34	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.31	0.93	ND	1.44	4.33	ND	ND
142-82-5	n-Heptane	0.35	1.06	ND	1.45	4.34	ND	ND
108-87-2	Methylcyclohexane	0.35	1.06	ND	1.42	4.26	ND	ND
592-13-2	2,5-Dimethylhexane	0.31	0.93	1.59	1.44	4.33	7.46	
589-43-5	2,4-Dimethylhexane	0.31	0.93	ND	1.44	4.33	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.31	0.93	ND	1.44	4.33	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.06	0.48	1.33	3.99	1.82	J
584-94-1	2,3-Dimethylhexane	0.31	0.93	ND	1.44	4.33	ND	ND
592-27-8	2-Methylheptane	0.31	0.93	ND	1.44	4.33	ND	ND
589-53-7	4-Methylheptane	0.31	0.93	ND	1.44	4.33	ND	ND
589-81-1	3-Methylheptane	0.31	0.93	ND	1.44	4.33	ND	ND
111-65-9	n-Octane	0.31	0.93	ND	1.44	4.33	ND	ND
100-41-4	Ethylbenzene	0.31	0.93	ND	1.34	4.03	ND	ND
108-38-3	m,p-xylene	0.31	0.93	ND	1.34	4.03	ND	ND
100-42-5	Styrene	0.31	0.93	ND	1.32	3.95	ND	ND
95-47-6	o-xylene	0.31	0.93	ND	1.34	4.03	ND	ND
111-84-2	n-Nonane	0.27	0.82	ND	1.44	4.33	ND	ND
98-82-8	i-Propylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
103-65-1	n-propylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.82	ND	1.35	4.05	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.82	0.30	1.35	4.05	1.46	J
108-67-8	1,3,5-Trimethylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.82	ND	1.35	4.05	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
124-18-5	n-Decane	0.25	0.74	0.33	1.44	4.32	1.90	J
526-73-8	1,2,3-Trimethylbenzene	0.27	0.82	ND	1.35	4.05	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.74	ND	1.36	4.07	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.74	0.36	1.36	4.07	2.00	J
104-51-8	n-Butylbenzene	0.25	0.74	ND	1.36	4.07	ND	ND
1120-21-4	Undecane	0.22	0.67	ND	1.44	4.31	ND	ND
91-20-3	Naphthalene	0.25	0.74	ND	1.30	3.89	ND	ND
112-40-3	Dodecane	0.21	0.62	ND	1.44	4.31	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.26	27.77	13.72	32.70	98.09	48.47	J
TNMHC - C1	Total Non-Methane Hydrocarbons	55.53	166.60	82.32	36.41	109.24	53.98	J

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **13**
File Name: **2510013A**
Sample ID: **T-113**
Sampled: **3/19/2025**
Received: **03/21/25**
Analyzed: **03/27/25**
QCBatch: **032725-GCK**
Can: **690**
Can Factor: **1.23**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID RT Win C2-C5 C5-C12
SF: **2** TO-3 RT **0.3** **0.1**
Instrument: **GCK** EPA 18M RTI **3** **3**
Time: **13:05** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **17:33** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **364105**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.02	**3.98**		NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.06			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.13**	8383	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.14**	2755	I	O	M	293	290
74-98-6	Propane	P	5.20	**5.20**	**5.21**	5739	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.61**						137	351
67-56-1	Methanol		8.30	8.31						137	401
106-98-9	1-Butene	P	7.29	7.30	**7.33**		I	I	H	366	367
106-99-0	1,3-Butadiene		**7.48**	7.49						137	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.40**	2883	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.81	**8.87**		I	I	H	412	410
590-18-1	c-2-Butene	P	9.63	9.69						194	431
64-17-5	Ethanol		10.85	10.84						194	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.04						194	465
67-64-1	Acetone		11.52	11.51						194	476
78-78-4	i-Pentane	P	11.37	11.36	**11.36**		I	I	H	473	473
109-67-1	1-Pentene	P	12.30	12.29	**12.11**		O	O	L	491	495
67-63-0	Isopropanol		12.65	12.64						194	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.35						194	497
109-66-0	n-Pentane	P	12.48	**12.47**	**12.47**	1932	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.54						158	503
646-04-8	t-2-Pentene	P	12.79	12.78	**12.79**		I	I	H	509	510
627-20-3	c-2-Pentene	P	13.08	13.07	**13.03**		I	I	H	515	518
75-65-0	Tert butyl alcohol		**13.55**	13.54						278	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.61						278	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.76						158	537
142-29-0	Cyclopentene	15	**14.61**	14.60						158	551
71-23-8	n-Propanol		**14.75**	14.74						158	558
287-92-3	Cyclopentane	P	14.88	14.87	**14.84**		I	I	H	565	567
1634-04-4	Methyl tert butyl ether		**15.00**	14.99						158	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.05	**15.02**		I	I	H	570	570
107-83-5	2-Methylpentane	P	15.08	15.07	**15.02**		I	I	H	570	571
96-14-0	3-Methylpentane	P	15.55	15.54	**15.51**		I	I	H	583	583
592-41-6	1-Hexene	P	**15.80**	15.79						158	590
110-54-3	n-Hexane	P	16.17	**16.16**	**16.12**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.25						258	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.40						214	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.75						214	623
96-37-7	Methylcyclopentane		P	16.86	16.81	**16.81**	1790	I	I	H	621	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.00	**17.00**		I	I	H	627	626
71-43-2	Benzene		P	17.87	**17.82**	**17.85**	19095	I	I	H	653	651
110-82-7	Cyclohexane		P	18.14	18.12	**18.09**		I	I	H	661	658
591-76-4	2-Methylhexane		P	18.38	18.36	**18.39**	3417	I	I	H	670	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.43	**18.41**		I	I	H	671	671
589-34-4	3-Methylhexane		P	18.66	18.64	**18.65**	1345	I	I	H	678	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.73						102	687
994-05-8	Tert amyl methyl ether			**18.80**	18.78						102	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.07	**19.02**		I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.39	**19.36**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.07	**20.06**		I	I	H	724	722
592-13-2	2,5-Dimethylhexane			20.35	20.33	**20.30**	8101	I	I	H	732	734
589-43-5	2,4-Dimethylhexane			20.43	20.41	**20.39**		I	I	H	735	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.91	**20.83**		I	O	M	750	753
108-88-3	Toluene		P	21.12	**21.10**	**21.12**	2151	I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20	**21.17**		I	I	H	762	763
592-27-8	2-Methylheptane		P	21.33	21.33	**21.30**		I	I	H	766	768
589-53-7	4-Methylheptane	48		**21.48**	21.48	**21.44**		I	O	M	771	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						40	772
589-81-1	3-Methylheptane		p	21.55	21.55	**21.56**		I	I	H	775	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						40	786
111-65-9	n-Octane		P	22.27	22.27	**22.29**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75	**23.80**		I	O	M	859	855
108-38-3	m,p-xylene		P	23.95	23.95	**23.97**		I	I	H	865	863
100-42-5	Styrene		P	24.40	24.40						-69	881
95-47-6	o-xylene		P	24.57	24.57	**24.61**		I	O	M	890	886
124-11-8	1-Nonene	64		24.60	24.60						-69	889
111-84-2	n-Nonane		P	24.87	24.87	**24.86**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36	**25.35**		I	I	H	921	919
103-65-1	n-propylbenzene		P	25.93	25.93	**25.90**	1546	I	I	H	944	947
80-56-8	a-Pinene			26.09	26.09						-148	950
620-14-4	3-Ethyltoluene		P	26.17	26.17	**26.14**		I	O	M	954	957
622-96-8	4-Ethyltoluene		P	26.26	26.26	**26.29**	1700	I	I	H	961	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45	**26.36**		I	I	H	963	964
611-14-3	2-Ethyltoluene		P	26.61	26.61	**26.56**		I	O	M	972	975
127-91-3	b-Pinene			26.80	26.80	**26.78**		I	I	H	981	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08	**26.93**		O	O	L	987	991
124-18-5	n-Decane		P	27.26	27.26	**27.23**	2069	I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-34	1014
496-11-7	Indan	81		27.55	27.55						-34	1020
5989-27-5	d-Limonene			27.65	27.65	**27.64**		I	I	H	1016	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10	**28.05**		I	I	H	1031	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23	**28.23**	2307	I	I	H	1038	1037
104-51-8	n-Butylbenzene			28.45	28.45						-34	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-34	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-34	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-34	1060
1120-21-4	Undecane		P	29.86	29.77	**29.86**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	32.37	**32.46**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					187655		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					52332		28723			
TNMHC - C1	Total Non-Methane Hydrocarbons					52332		106600			
TVOC	Total Volatile Organic Compounds					52332		0			
TPH(g)	TPH (gasoline)					52332		0			
TPH(d)	TPH (diesel)					52332		0			
TPH(h)	TPH (hexane)					52332		0			
TPH(t)	TPH (toluene)					52332		0			
TPHC	TPH (methane)					52332		0			
TPH(Jet A)	TPH (Jet A Fuel)					52332		**135323**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					52332					
C6+	**C6+ (hexane)**		16.17	16.16	16.12	**0**		Sum from	16.16	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			8383		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			8494		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**16877**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	032725-GCK		
Hexane Std Area:	364105		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.23	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.23		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	13.19	6.59	8.13	13.19	6.59	8.13	8.13	8.13
Propene	42.1	3	4.33	1.44	2.49	4.33	1.44	2.49	2.49	2.49
Propane	44.1	3	9.03	3.01	5.44	9.03	3.01	5.44	5.44	5.44
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	4.54	1.13	2.70	4.54	1.13	2.70	2.70	2.70
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	3.04	0.61	1.80	3.04	0.61	1.80	1.80	1.80
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	2.82	0.47	1.62	2.82	0.47	1.62	1.62	1.62
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	30.04	5.01	16.02	30.04	5.01	16.02	16.02	16.02
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	5.38	0.77	3.15	5.38	0.77	3.15	3.15	3.15
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	2.12	0.30	1.24	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	12.74	1.59	7.46	12.74	1.59	7.46	7.46	7.46
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	3.38	0.48	1.82	3.38	0.48	1.82	1.82	1.82
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	2.43	0.27	1.33	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	2.67	0.30	1.46	2.67	0.30	1.46	1.46	1.46
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	3.25	0.33	1.90	3.25	0.33	1.90	1.90	1.90
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	3.63	0.36	2.00	3.63	0.36	2.00	2.00	2.00
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	82.32	13.7	48.5	82.32	13.72	48.47	48.47	48.47
Total Non-Methane Hydrocarbons	16	1.0	82.32	82.3	54.0	82.32	82.32	53.98	53.98	53.98
Total Volatile Organic Compounds	100	7.6	82.32	10.8	44.4	82.32	10.83	44.39	44.39	44.39
TPH (gasoline)	95	7.0	82.32	11.8	45.8	82.32	11.76	45.79	45.79	45.79
TPH (diesel)	198	15.0	82.32	5.5	44.5	82.32	5.49	44.54	44.54	44.54
TPH (hexane)	86.2	6.0	82.32	13.7	48.5	82.32	13.72	48.47	48.47	48.47
TPH (toluene)	92.14	7.0	82.32	11.8	44.4	82.32	11.76	44.41	44.41	44.41
TPH (methane)	16	1.0	82.32	82.3	54.0	82.32	82.32	53.98	53.98	53.98
TPH (Jet A Fuel)	177	13.0	82.32	6.3	45.9	82.32	6.33	45.94	45.94	45.94
TPH (Mineral Spirits)	117.81	8.0	82.32	10.3	49.7	82.32	10.29	49.69	49.69	49.69
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			90.6	22.7						
Paraffins			33.0							
Isoparaffins			20.2							
Aromatics			42.2							
Napthlenes			2.8							
Olefins			4.3							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	13.19	6.59	8.13	13.19	6.59	8.13	8.13	8.13
C3 (propane)	44.1	3	13.36	4.45	8.05	13.36	4.45	8.05	8.05	8.05
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			26.6							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	3.0	0.51	1.50					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	3.3	0.30	1.73					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	53.3	58.8
Alkenes	4.3	4.8
Alkynes	0.0	0.0
Cycloalkanes	2.8	3.1
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	42.2	46.5
Terpenes	0.0	0.0

SDG: **225100**
Laboratory Number: **13**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
0.0	2.000	1.00	1.23	1.42	2.47	3.70	4.26	7.4	U	ND		Y
0.0	2.000	1.00	1.23	1.31	2.47	3.70	3.94	7.4	U	ND		Y
29.1	2.000	1.00	1.23	1.52	2.47	3.70	4.57	7.4		=		Y
6.4	2.000	0.67	0.82	1.42	2.47	2.47	4.26	7.4	J	=		Y
13.3	2.000	0.67	0.82	1.49	2.47	2.47	4.46	7.4		=		Y
0.0	2.000	0.50	0.62	1.47	2.47	1.85	4.41	7.4	U	ND		Y
0.0	2.000	2.00	2.47	3.24	2.47	7.40	9.71	7.4	U	ND		Y
0.0	2.000	0.50	0.62	1.42	2.47	1.85	4.26	7.4	U	ND		Y
0.0	2.000	0.50	0.62	1.37	2.47	1.85	4.10	7.4	U	ND		Y
5.0	2.000	0.50	0.62	1.47	2.47	1.85	4.41	7.4	J	=		Y
0.0	2.000	0.50	0.62	1.42	2.47	1.85	4.26	7.4	U	ND		Y
0.0	2.000	0.50	0.62	1.42	2.47	1.85	4.26	7.4	U	ND		Y
0.0	2.000	1.00	1.23	2.33	2.47	3.70	6.99	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.42	2.47	1.48	4.25	7.4	U	ND		Y
0.0	2.000	0.67	0.82	1.96	2.47	2.47	5.88	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.46	2.47	1.48	4.38	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.42	2.47	1.48	4.25	7.4	U	ND		Y
0.0	2.000	0.67	0.82	2.03	2.47	2.47	6.08	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.42	2.47	1.48	4.25	7.4	U	ND		Y
2.7	2.000	0.40	0.49	1.46	2.47	1.48	4.38	7.4	J	=		Y
0.0	2.000	0.40	0.49	1.38	2.47	1.48	4.13	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.42	2.47	1.48	4.25	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.42	2.47	1.48	4.25	7.4	U	ND		Y
0.0	2.000	0.50	0.62	1.87	2.47	1.85	5.62	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.42	2.47	1.48	4.25	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.45	2.47	1.23	4.36	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.38	2.47	1.48	4.13	7.4	U	ND		Y
0.0	2.000	0.67	0.82	2.03	2.47	2.47	6.08	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.42	2.47	1.48	4.25	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.78	2.47	1.48	5.35	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.45	2.47	1.23	4.36	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.45	2.47	1.23	4.36	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.45	2.47	1.23	4.36	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.42	2.47	1.23	4.26	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.45	2.47	1.23	4.36	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.72	2.47	1.23	5.17	7.4	U	ND		Y

0.0	2.000	0.33	0.41	1.38	2.47	1.23	4.15	7.4	U	ND	Y
0.0	2.000	0.33	0.41	1.72	2.47	1.23	5.17	7.4	U	ND	Y
2.1	2.000	0.33	0.41	1.42	2.47	1.23	4.26	7.4	J	=	Y
0.0	2.000	0.29	0.35	1.45	2.47	1.06	4.34	7.4	U	ND	Y
22.1	2.000	0.33	0.41	1.32	2.47	1.23	3.95	7.4		=	Y
0.0	2.000	0.33	0.41	1.42	2.47	1.23	4.26	7.4	U	ND	Y
3.4	2.000	0.29	0.35	1.45	2.47	1.06	4.34	7.4	J	=	Y
0.0	2.000	0.29	0.35	1.45	2.47	1.06	4.34	7.4	U	ND	Y
1.3	2.000	0.29	0.35	1.45	2.47	1.06	4.34	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.47	1.06	4.26	7.4	U	ND	Y
0.0	2.000	0.33	0.41	1.72	2.47	1.23	5.17	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.45	2.47	1.06	4.34	7.4	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.47	1.06	4.26	7.4	U	ND	Y
7.0	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4		=	Y
0.0	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4	U	ND	Y
2.1	2.000	0.29	0.35	1.33	2.47	1.06	3.99	7.4	J	=	Y
0.0	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.42	2.47	0.93	4.26	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.47	0.93	4.33	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.34	2.47	0.93	4.03	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.34	2.47	0.93	4.03	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.32	2.47	0.93	3.95	7.4	U	ND	Y
0.0	2.000	0.25	0.31	1.34	2.47	0.93	4.03	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.42	2.47	0.82	4.26	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.44	2.47	0.82	4.33	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.05	7.4	U	ND	Y
1.2	2.000	0.22	0.27	1.35	2.47	0.82	4.05	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.47	0.74	4.13	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.05	7.4	U	ND	Y
1.3	2.000	0.22	0.27	1.35	2.47	0.82	4.05	7.4	J	=	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.05	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.05	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.47	0.74	4.13	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.05	7.4	U	ND	Y
1.4	2.000	0.20	0.25	1.44	2.47	0.74	4.32	7.4	J	=	Y
0.0	2.000	0.22	0.27	1.35	2.47	0.82	4.05	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.47	0.82	3.99	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.47	0.74	4.13	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.07	7.4	U	ND	Y
1.6	2.000	0.20	0.25	1.36	2.47	0.74	4.07	7.4	J	=	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.07	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.07	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.07	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.07	7.4	U	ND	Y
0.0	2.000	0.18	0.22	1.44	2.47	0.67	4.31	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.07	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.36	2.47	0.74	4.07	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.30	2.47	0.74	3.89	7.4	U	ND	Y

0.0	2.000	0.17	0.21	1.44	2.47	0.62	4.31	7.4	U	ND	Y
%											Y
100.0	45.00	7.5	9.26	32.70	55.53	27.8	98.1	166.6	J	=	Y
100.0	45.00	45.0	55.53	36.41	55.53	166.6	109.2	166.6	J	=	Y
100.0	45.00	5.9	7.31	29.95	55.53	21.9	89.8	166.6	J	=	Y
100.0	45.00	6.4	7.93	30.89	55.53	23.8	92.7	166.6	J	=	Y
100.0	45.00	3.0	3.70	30.04	55.53	11.1	90.1	166.6	J	=	Y
100.0	45.00	7.5	9.26	32.70	55.53	27.8	98.1	166.6	J	=	Y
100.0	45.00	6.4	7.93	29.96	55.53	23.8	89.9	166.6	J	=	Y
100.0	45.00	45.0	55.53	36.41	55.53	166.6	109.2	166.6	J	=	Y
100.0	45.00	3.5	4.27	30.99	55.53	12.8	93.0	166.6	J	=	Y
100.0	45.00	5.6	6.94	33.52	55.53	20.8	100.5	166.6	J	=	Y
0.0	45.00	7.5	9.26	32.70	55.53	27.8	98.1	166.6	U	ND	Y
0.0	25.000	3.6	4.41	17.16	30.85	13.2	51.5	92.6	U	ND	Y
%											Y
100.0											Y
36.5											Y
22.3											Y
46.5											Y
3.1											Y
4.8											Y
0.0											Y
%											Y
49.7	5.000	2.5	3.09	3.81	6.17	9.3	11.4	18.5	J	=	Y
50.3	5.000	1.7	2.06	3.72	6.17	6.2	11.2	18.5	J	=	Y
0.0	25.000	6.3	7.71	18.37	30.85	23.1	55.1	92.6	U	ND	Y
0.0	25.000	5.0	6.17	18.25	30.85	18.5	54.7	92.6	U	ND	Y
0.0	25.000	4.2	5.14	18.17	30.85	15.4	54.5	92.6	U	ND	Y
0.0	25.000	3.6	4.41	18.10	30.85	13.2	54.3	92.6	U	ND	Y
0.0	25.000	3.1	3.86	18.05	30.85	11.6	54.1	92.6	U	ND	Y
0.0	25.000	2.8	3.43	18.02	30.85	10.3	54.1	92.6	U	ND	Y
0.0	25.000	2.5	3.09	17.99	30.85	9.3	54.0	92.6	U	ND	Y
0.0	25.000	2.3	2.80	17.97	30.85	8.4	53.9	92.6	U	ND	Y
0.0	25.000	2.1	2.57	17.94	30.85	7.7	53.8	92.6	U	ND	Y
0.0	25.000	2.1	2.57	17.94	30.85	7.7	53.8	92.6	U	ND	Y
100.0											Y
											Y
3.7	6.0	1.0	1.23	3.65	7.40	3.7	10.9	22.2			Y
0.0	6.0	0.9	1.06	4.34	7.40	3.2	13.0	22.2			Y
0.0	6.0	0.7	0.82	4.33	7.40	2.5	13.0	22.2			Y
4.0	6.0	0.5	0.67	3.94	7.40	2.0	11.8	22.2			Y
0.0	6.0	0.7	0.82	3.85	7.40	2.5	11.6	22.2			Y
0.0	6.0	0.5	0.67	3.93	7.40	2.0	11.8	22.2			Y
0.0	2.0	0.3	0.41	1.45	2.47	1.2	4.4	7.4	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
13.2						13.19			
					4.3		4.33		
9.0						9.03			
	0.0					0.00			
					0.0		0.00		
					0.0		0.00		
4.5						4.54			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
	0.0					0.00			
					0.0		0.00		
3.0					0.0	3.04	0.00		
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
	0.0					0.00			
			0.0						0.00
					0.0				
			0.0						0.00
					0.0				
	0.0					0.00			
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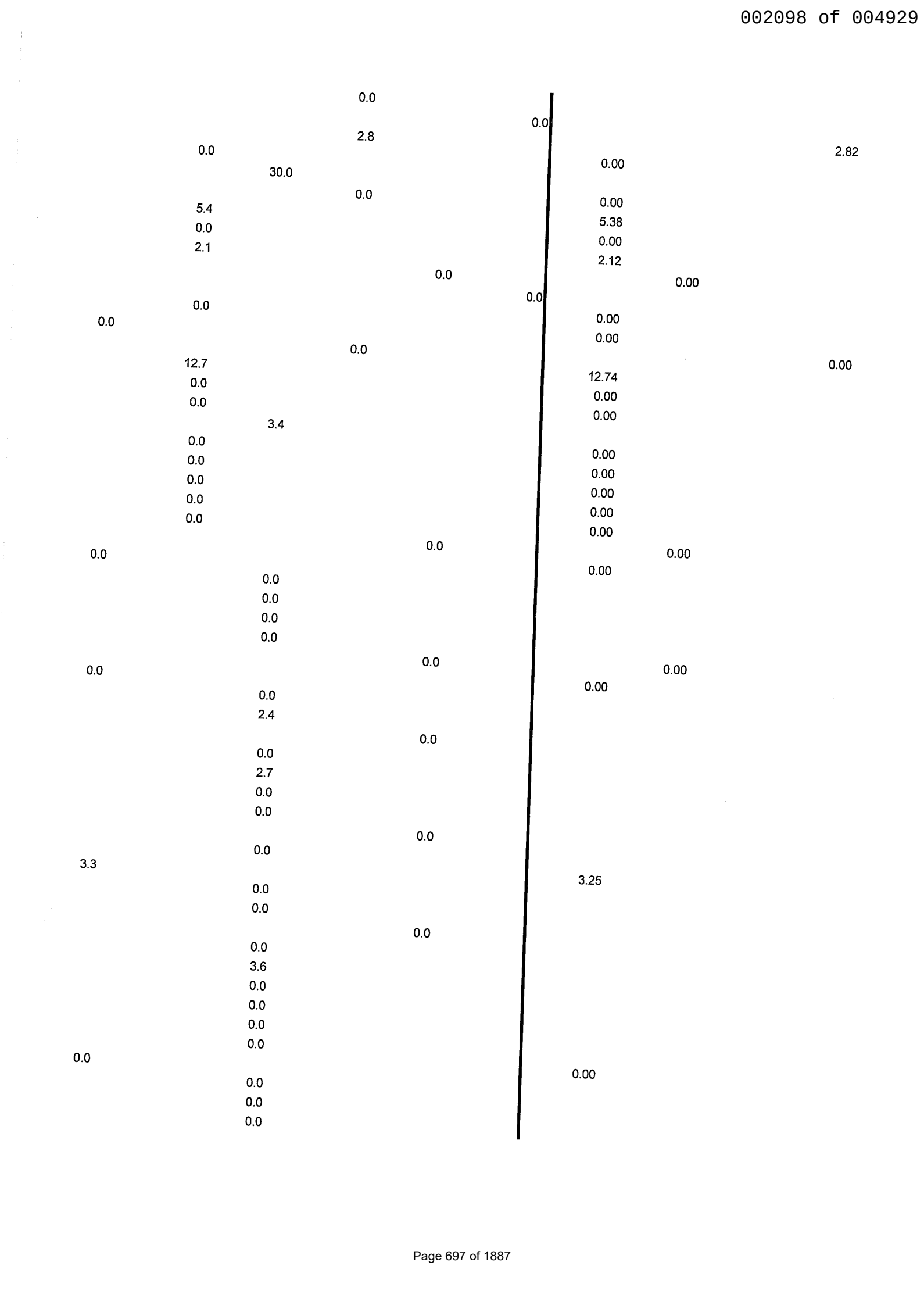
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3.4
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						53.3			

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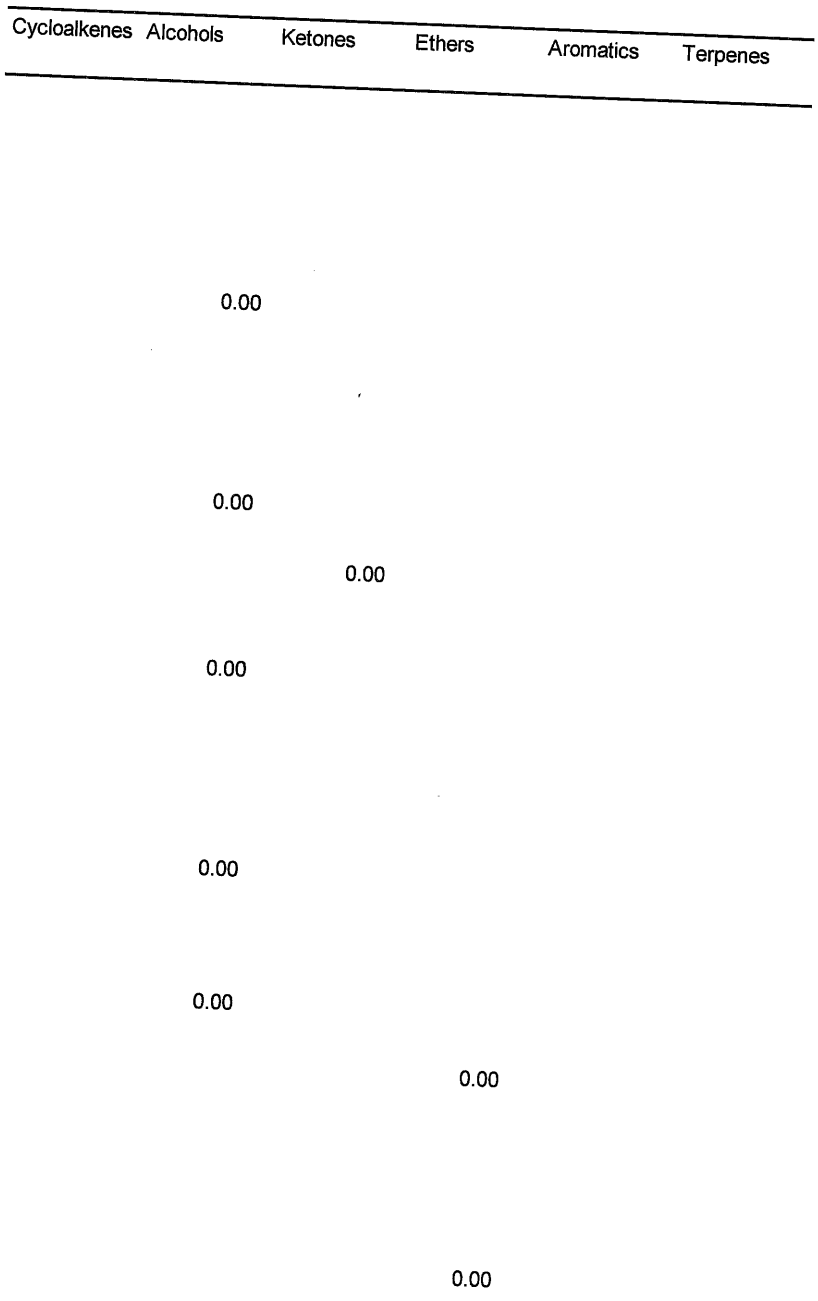
		0.00


Cycloalkenes
Alcohols
Ketones
Ethers
Aromatics
Terpenes
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SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**13**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.23
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = $\text{Sum}\left|\frac{(\text{Astdni})}{(\text{Cstdni})}\right|_i$

2) ppbC = $\frac{6 \text{ Carbons}}{(\text{Avg RFn})} \cdot \frac{\text{Ansamp}}{\text{SV}} \cdot \text{CDF} \cdot 1000 = \textbf{Cn}$

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = (amt(ppbv) $\frac{\text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.02E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.02E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.02E+04	8383	13.2	6.59	8.13
Propene	3	TRG	4.5	2.02E+04	4	4.3	1.44	2.49
Propane	3	TRG	44.1	2.02E+04	5739	9.0	3.01	5.44
i-Butane	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.02E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.02E+04	2883	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.02E+04	0	4.5	1.13	2.70
c-2-Butene	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.02E+04	1932	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.02E+04	0	3.0	0.61	1.80
2,2-Dimethylbutane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.02E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.02E+04	1790	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.02E+04	19095	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.02E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.02E+04	3417	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.02E+04	1345	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.02E+04	8101	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	2.8	0.47	1.62	
Toluene	7	TRG	100.2	2.02E+04	2151	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.02E+04	0	30.0	5.01	16.02	
2-Methylheptane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.02E+04	0	5.4	0.77	3.15	
n-Octane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.02E+04	0	2.1	0.30	1.24	
m,p-xylene	7	TRG	98.2	2.02E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.02E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.02E+04	1546	12.7	1.59	7.46	
a-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.02E+04	1700	3.4	0.48	1.82	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.02E+04	2069	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.02E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.02E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.02E+04	2307	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.02E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.02E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.02E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.02E+04	52332	82.3	13.72	48.47	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.02E+04	52332	82.3	82.32	53.98	
Total Volatile Organic Compoun	8	TRG	100.0	2.02E+04	52332	82.3	10.83	44.39	
TPH (gasoline)	7	TRG	95.0	2.02E+04	52332	82.3	11.76	45.79	
TPH (diesel)	15	TRG	198.0	2.02E+04	52332	82.3	5.49	44.54	
TPH (hexane)	6	TRG	86.2	2.02E+04	52332	82.3	13.72	48.47	
TPH (toluene)	7	TRG	92.1	2.02E+04	52332	82.3	11.76	44.41	
TPH (methane)	1	TRG	16.0	2.02E+04	52332	82.3	82.32	53.98	
TPH (Jet A Fuel)	13	TRG	177.0	2.02E+04	52332	82.3	6.33	45.94	
TPH (Mineral Spirits)	8	TRG	117.8	2.02E+04	52332	82.3	10.29	49.69	
C6+ (hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.02E+04		90.6			Sum ID
Paraffins	P	TRG	0.0	2.02E+04		33.0			Sum P
Isoparaffins	I	TRG	0.0	2.02E+04		20.2			Sum I
Aromatics	A	TRG	0.0	2.02E+04		42.2			Sum A
Napthlenes	N	TRG	0.0	2.02E+04		2.8			Sum N
Olefins	O	TRG	0.0	2.02E+04		4.3			Sum O
Oxygenates		TRG	0.0	2.02E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.02E+04	8383	13.2	6.59	8.13	
C3 (propane)	3	TRG	44.1	2.02E+04	8494	13.4	4.45	8.05	
C4 (Butane)	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.02E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.02E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.02E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.02E+04	16877	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 14

File Name: 2510014A
Description: T-114
Canister: 645
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 13:11
Date Analyzed: 03/27/25 **Time:** 18:30
Can Factor: 1.27
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.27	3.80	ND	1.46	4.38	ND	ND
74-86-2	Acetylene	1.27	3.80	ND	1.35	4.05	ND	ND
74-84-0	Ethane	1.27	3.80	6.67	1.56	4.69	8.23	
115-07-1	Propene	0.84	2.53	ND	1.46	4.37	ND	ND
74-98-6	Propane	0.84	2.53	1.23	1.53	4.58	2.22	J
75-28-5	i-Butane	0.63	1.90	ND	1.51	4.52	ND	ND
106-98-9	1-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
106-97-8	n-Butane	0.63	1.90	ND	1.51	4.52	ND	ND
624-64-6	t-2-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
590-18-1	c-2-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
78-78-4	i-Pentane	0.51	1.52	ND	1.50	4.50	ND	ND
109-67-1	1-Pentene	0.51	1.52	ND	1.46	4.37	ND	ND
109-66-0	n-Pentane	0.51	1.52	0.78	1.50	4.49	2.30	J
646-04-8	t-2-Pentene	0.51	1.52	1.06	1.46	4.37	3.04	J
627-20-3	c-2-Pentene	0.51	1.52	ND	1.46	4.37	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.27	ND	1.49	4.48	ND	ND
142-29-0	Cyclopentene	0.51	1.52	ND	1.41	4.24	ND	ND
287-92-3	Cyclopentane	0.51	1.52	ND	1.46	4.37	ND	ND
79-29-8	2,3-Dimethylbutane	0.42	1.27	ND	1.49	4.48	ND	ND
107-83-5	2-Methylpentane	0.42	1.27	ND	1.49	4.48	ND	ND
96-14-0	3-Methylpentane	0.42	1.27	ND	1.49	4.48	ND	ND
592-41-6	1-Hexene	0.42	1.27	ND	1.46	4.37	ND	ND
110-54-3	n-Hexane	0.42	1.27	ND	1.49	4.48	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.27	ND	1.42	4.26	ND	ND
96-37-7	Methylcyclopentane	0.42	1.27	2.00	1.46	4.37	6.90	
108-08-7	2,4-Dimethylpentane	0.36	1.09	ND	1.49	4.46	ND	ND
71-43-2	Benzene	0.42	1.27	15.46	1.35	4.05	49.48	
110-82-7	Cyclohexane	0.42	1.27	0.44	1.46	4.37	1.52	J
591-76-4	2-Methylhexane	0.36	1.09	ND	1.49	4.46	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.09	ND	1.49	4.46	ND	ND
589-34-4	3-Methylhexane	0.36	1.09	0.47	1.49	4.46	1.95	J
540-84-1	2,2,4-Trimethylpentane	0.32	0.95	ND	1.48	4.45	ND	ND
142-82-5	n-Heptane	0.36	1.09	ND	1.49	4.46	ND	ND
108-87-2	Methylcyclohexane	0.36	1.09	1.42	1.46	4.37	5.71	
592-13-2	2,5-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.95	0.33	1.48	4.45	1.54	J
565-75-3	2,3,4-Trimethylpentane	0.32	0.95	0.58	1.48	4.45	2.74	J

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.09	3.80	1.37	4.10	14.33	
584-94-1	2,3-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
592-27-8	2-Methylheptane	0.32	0.95	0.93	1.48	4.45	4.35	J
589-53-7	4-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
589-81-1	3-Methylheptane	0.32	0.95	1.01	1.48	4.45	4.71	
111-65-9	n-Octane	0.32	0.95	4.40	1.48	4.45	20.60	
100-41-4	Ethylbenzene	0.32	0.95	2.40	1.38	4.14	10.45	
108-38-3	m,p-xylene	0.32	0.95	4.80	1.38	4.14	20.87	
100-42-5	Styrene	0.32	0.95	ND	1.35	4.06	ND	ND
95-47-6	o-xylene	0.32	0.95	2.81	1.38	4.14	12.24	
111-84-2	n-Nonane	0.28	0.84	3.03	1.48	4.44	15.95	
98-82-8	i-Propylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
103-65-1	n-propylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.84	0.89	1.39	4.16	4.41	
611-14-3	2-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
124-18-5	n-Decane	0.25	0.76	ND	1.48	4.43	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
104-51-8	n-Butylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
1120-21-4	Undecane	0.23	0.69	ND	1.48	4.43	ND	ND
91-20-3	Naphthalene	0.25	0.76	ND	1.33	3.99	ND	ND
112-40-3	Dodecane	0.21	0.63	ND	1.47	4.42	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.50	28.50	156.85	33.56	100.69	554.10	
TNMHC - C1	Total Non-Methane Hydrocarbons	57.00	171.01	941.07	37.38	112.14	617.10	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **14**
File Name: **2510014A**
Sample ID: **T-114**
Sampled: **3/19/2025**
Received: **03/21/25**
Analyzed: **03/27/25**
QCBatch: **032725-GCK**
Can: **645**
Can Factor: **1.27**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **13:11** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **18:30** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **364105**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.04	**3.99**	1418	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.08			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.15**	8264	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.14**	898	I	O	M	294	290
74-98-6	Propane	P	5.20	**5.20**	**5.20**	2284	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.60**						138	351
67-56-1	Methanol		8.30	8.30						138	401
106-98-9	1-Butene	P	7.29	7.29	**7.30**	1164	I	I	H	366	367
106-99-0	1,3-Butadiene		**7.48**	7.48						138	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.40**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.81	**8.87**		I	I	H	412	410
590-18-1	c-2-Butene	P	9.63	9.69						194	431
64-17-5	Ethanol		10.85	10.86						194	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.06						194	465
67-64-1	Acetone		11.52	11.53						194	476
78-78-4	i-Pentane	P	11.37	11.38	**11.36**		I	I	H	472	473
109-67-1	1-Pentene	P	12.30	12.31	**12.11**		O	O	L	491	495
67-63-0	Isopropanol		12.65	12.66						194	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.37						194	497
109-66-0	n-Pentane	P	12.48	**12.49**	**12.49**	2411	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.56						157	503
646-04-8	t-2-Pentene	P	12.79	12.80	**12.82**	3279	I	I	H	509	510
627-20-3	c-2-Pentene	P	13.08	13.09	**13.03**		I	O	M	515	518
75-65-0	Tert butyl alcohol		**13.55**	13.56						278	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.63						278	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.78						157	537
142-29-0	Cyclopentene	15	**14.61**	14.62						157	551
71-23-8	n-Propanol		**14.75**	14.76						157	558
287-92-3	Cyclopentane	P	14.88	14.89	**14.84**		I	I	H	565	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.01						157	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.07	**15.02**		I	I	H	570	570
107-83-5	2-Methylpentane	P	15.08	15.09	**15.02**		I	I	H	570	571
96-14-0	3-Methylpentane	P	15.55	15.56	**15.51**		I	I	H	583	583
592-41-6	1-Hexene	P	**15.80**	15.81						157	590
110-54-3	n-Hexane	P	16.17	**16.18**	**16.12**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.25						259	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.40						214	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.75						214	623
96-37-7	Methylcyclopentane		P	16.86	16.81	**16.78**	7425	I	I	H	620	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.00	**17.02**	1353	I	I	H	628	626
71-43-2	Benzene		P	17.87	**17.82**	**17.83**	57440	I	I	H	653	651
110-82-7	Cyclohexane		P	18.14	18.10	**18.11**	1636	I	O	M	661	658
591-76-4	2-Methylhexane		P	18.38	18.34	**18.39**		I	I	H	670	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.41	**18.41**		I	I	H	670	671
589-34-4	3-Methylhexane		P	18.66	18.62	**18.64**	2055	I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.71						104	687
994-05-8	Tert amyl methyl ether			**18.80**	18.76						104	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.05						104	690
142-82-5	n-Heptane		P	19.41	19.37	**19.37**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.05	**20.08**	6149	I	I	H	725	722
592-13-2	2,5-Dimethylhexane			20.35	20.31	**20.30**		I	I	H	732	734
589-43-5	2,4-Dimethylhexane			20.43	20.39	**20.41**	1631	I	I	H	736	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.89	**20.85**	2896	I	I	H	752	753
108-88-3	Toluene		P	21.12	**21.08**	**21.11**	16461	I	I	H	761	758
584-94-1	2,3-Dimethylhexane			21.20	21.19	**21.17**		I	I	H	763	763
592-27-8	2-Methylheptane		P	21.33	21.32	**21.32**	4606	I	I	H	768	768
589-53-7	4-Methylheptane	48		**21.48**	21.47	**21.44**		I	O	M	772	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.49						24	772
589-81-1	3-Methylheptane		p	21.55	21.54	**21.54**	4987	I	I	H	776	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.09						24	786
111-65-9	n-Octane		P	22.27	22.26	**22.24**	21803	I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.74	**23.73**	11898	I	I	H	857	855
108-38-3	m,p-xylene		P	23.95	23.94	**23.96**	23755	I	I	H	866	863
100-42-5	Styrene		P	24.40	24.39						-55	881
95-47-6	o-xylene		P	24.57	24.56	**24.62**	13936	I	O	M	892	886
124-11-8	1-Nonene	64		24.60	24.59						-55	889
111-84-2	n-Nonane		P	24.87	24.86	**24.84**	16908	I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.35						-145	919
103-65-1	n-propylbenzene		P	25.93	25.92						-145	947
80-56-8	a-Pinene			26.09	26.08						-145	950
620-14-4	3-Ethyltoluene		P	26.17	26.16						-145	957
622-96-8	4-Ethyltoluene		P	26.26	26.25						-145	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.44		4985				-145	964
611-14-3	2-Ethyltoluene		P	26.61	26.60						-145	975
127-91-3	b-Pinene			26.80	26.79						-145	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.07						-145	991
124-18-5	n-Decane		P	27.26	27.25	**27.22**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.54						-30	1014
496-11-7	Indan	81		27.55	27.54						-30	1020
5989-27-5	d-Limonene			27.65	27.64						-30	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.09						-30	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.22						-30	1037
104-51-8	n-Butylbenzene			28.45	28.44						-30	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.59						-30	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.74						-30	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.82						-30	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.44						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.49						-48	1124
91-20-3	Naphthalene		32.25	32.24						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					840486		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					582772		112233			
TNMHC - C1	Total Non-Methane Hydrocarbons					582772		31165			
TVOC	Total Volatile Organic Compounds					582772		71565			
TPH(g)	TPH (gasoline)					582772		16244			
TPH(d)	TPH (diesel)					582772		13512			
TPH(h)	TPH (hexane)					582772		12995			
TPH(t)	TPH (toluene)					582772		0			
TPHC	TPH (methane)					582772		0			
TPH(Jet A)	TPH (Jet A Fuel)					582772		**257714**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					582772					
C6+	**C6+ (hexane)**		16.17	16.18	16.12	**0**		Sum from	16.18	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			9682		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			3182		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**12864**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	032725-GCK
Hexane Std Area:	364105
Hexane Conc.	18.05
Standard Volume:	1.00
Can Dilution Factor:	1.27
Air Volume:	200.00
Combined Factor:	1.27
Gas Constant:	24.4
Decimal Places:	2

Oxygenate Response	0.75
ND Flag:	ND
MDL Factor	1

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	2.29	1.14	1.32	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	13.34	6.67	8.23	13.34	6.67	8.23	8.23	8.23
Propene	42.1	3	1.45	0.48	0.83	ND	ND	ND	0	
Propane	44.1	3	3.69	1.23	2.22	3.69	1.23	2.22	2.22	2.22
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	1.88	0.47	1.08	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	3.89	0.78	2.30	3.89	0.78	2.30	2.30	2.30
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	5.29	1.06	3.04	5.29	1.06	3.04	3.04	3.04
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	11.99	2.00	6.90	11.99	2.00	6.90	6.90	6.90
2,4-Dimethylpentane	100.2	7	2.18	0.31	1.28	ND	ND	ND	0	
Benzene	78.1	6	92.76	15.46	49.48	92.76	15.46	49.48	49.48	49.48
Cyclohexane	84.2	6	2.64	0.44	1.52	2.64	0.44	1.52	1.52	1.52
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	3.32	0.47	1.95	3.32	0.47	1.95	1.95	1.95
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	9.93	1.42	5.71	9.93	1.42	5.71	5.71	5.71
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	2.63	0.33	1.54	2.63	0.33	1.54	1.54	1.54
2,3,4-Trimethylpentane	114.2	8	4.68	0.58	2.74	4.68	0.58	2.74	2.74	2.74
Toluene	92.1	7	26.58	3.80	14.33	26.58	3.80	14.33	14.33	14.33
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	7.44	0.93	4.35	7.44	0.93	4.35	4.35	4.35
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	8.05	1.01	4.71	8.05	1.01	4.71	4.71	4.71
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	35.21	4.40	20.60	35.21	4.40	20.60	20.60	20.60
Ethylbenzene	106.2	8	19.21	2.40	10.45	19.21	2.40	10.45	10.45	10.45
m,p-xylene	106.2	8	38.36	4.80	20.87	38.36	4.80	20.87	20.87	20.87
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	22.50	2.81	12.24	22.50	2.81	12.24	12.24	12.24
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	27.30	3.03	15.95	27.30	3.03	15.95	15.95	15.95
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	8.05	0.89	4.41	8.05	0.89	4.41	4.41	4.41
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	941.07	156.8	554.1	941.07	156.85	554.10	554.10	554.1
Total Non-Methane Hydrocarbons	16	1.0	941.07	941.1	617.1	941.07	941.07	617.10	617.10	617.1
Total Volatile Organic Compounds	100	7.6	941.07	123.8	507.5	941.07	123.83	507.48	507.48	507.4
TPH (gasoline)	95	7.0	941.07	134.4	523.4	941.07	134.44	523.43	523.43	523.4
TPH (diesel)	198	15.0	941.07	62.7	509.1	941.07	62.74	509.10	509.10	509.1
TPH (hexane)	86.2	6.0	941.07	156.8	554.1	941.07	156.85	554.10	554.10	554.1
TPH (toluene)	92.14	7.0	941.07	134.4	507.7	941.07	134.44	507.67	507.67	507.6
TPH (methane)	16	1.0	941.07	941.1	617.1	941.07	941.07	617.10	617.10	617.1
TPH (Jet A Fuel)	177	13.0	941.07	72.4	525.1	941.07	72.39	525.13	525.13	525.1
TPH (Mineral Spirits)	117.81	8.0	941.07	117.6	568.0	941.07	117.63	567.97	567.97	567.97
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			319.3	56.9						
Paraffins			83.4							
Isoparaffins			28.3							
Aromatics			207.5							
Napthlenes			24.6							
Olefins			10.9							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	15.63	7.82	9.64	15.63	7.82	9.64	9.64	9.64
C3 (propane)	44.1	3	5.14	1.71	3.10	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			20.8							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	3.9	0.65	1.92					
Aliphatic C6-C8	100.2	7	35.2	5.03	20.65					
Aliphatic C8-C10	128.3	9	27.3	3.03	15.95					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	114.4	35.8
Alkenes	10.9	3.4
Alkynes	0.0	0.0
Cycloalkanes	21.9	6.9
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	207.5	65.0
Terpenes	0.0	0.0

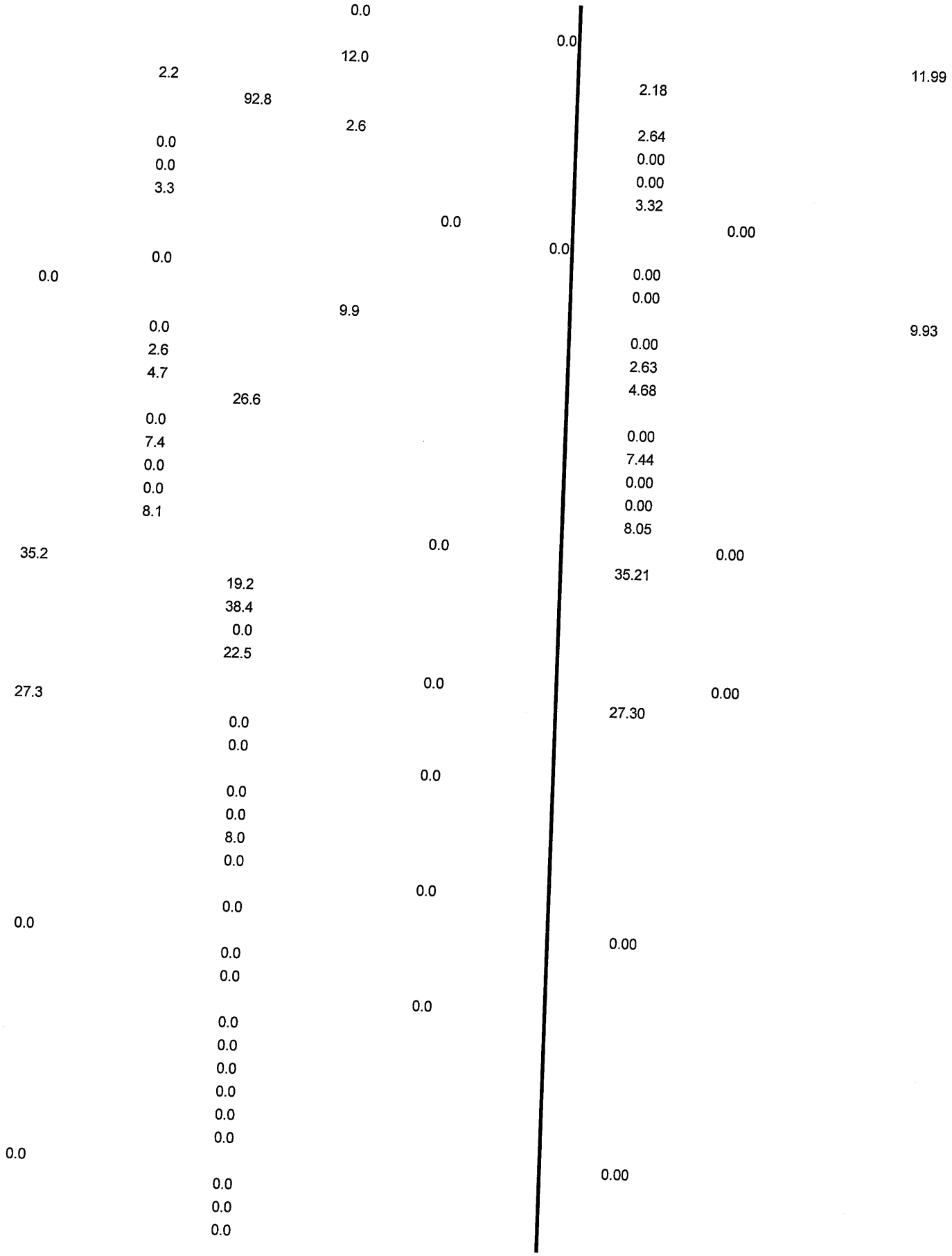
SDG: **225100**
Laboratory Number: **14**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
2.0	2.000	1.00	1.27	1.46	2.53	3.80	4.38	7.6	U	ND		Y
0.0	2.000	1.00	1.27	1.35	2.53	3.80	4.05	7.6	U	ND		Y
11.7	2.000	1.00	1.27	1.56	2.53	3.80	4.69	7.6		=		Y
0.8	2.000	0.67	0.84	1.46	2.53	2.53	4.37	7.6	U	ND		Y
2.2	2.000	0.67	0.84	1.53	2.53	2.53	4.58	7.6	J	=		Y
0.0	2.000	0.50	0.63	1.51	2.53	1.90	4.52	7.6	U	ND		Y
0.0	2.000	2.00	2.53	3.32	2.53	7.60	9.97	7.6	U	ND		Y
0.8	2.000	0.50	0.63	1.46	2.53	1.90	4.37	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.40	2.53	1.90	4.21	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.51	2.53	1.90	4.52	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.46	2.53	1.90	4.37	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.46	2.53	1.90	4.37	7.6	U	ND		Y
0.0	2.000	1.00	1.27	2.39	2.53	3.80	7.18	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6	U	ND		Y
0.0	2.000	0.67	0.84	2.01	2.53	2.53	6.03	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.50	2.53	1.52	4.50	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6	U	ND		Y
0.0	2.000	0.67	0.84	2.08	2.53	2.53	6.24	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6	U	ND		Y
1.4	2.000	0.40	0.51	1.50	2.53	1.52	4.49	7.6	J	=		Y
0.0	2.000	0.40	0.51	1.41	2.53	1.52	4.24	7.6	U	ND		Y
1.9	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6	J	=		Y
0.0	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.92	2.53	1.90	5.77	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.53	1.27	4.48	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.41	2.53	1.52	4.24	7.6	U	ND		Y
0.0	2.000	0.67	0.84	2.08	2.53	2.53	6.24	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.83	2.53	1.52	5.49	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.53	1.27	4.48	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.53	1.27	4.48	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.53	1.27	4.48	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.46	2.53	1.27	4.37	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.53	1.27	4.48	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.77	2.53	1.27	5.31	7.6	U	ND		Y

0.0	2.000	0.33	0.42	1.42	2.53	1.27	4.26	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.77	2.53	1.27	5.31	7.6	U	ND	Y
3.5	2.000	0.33	0.42	1.46	2.53	1.27	4.37	7.6		=	Y
0.5	2.000	0.29	0.36	1.49	2.53	1.09	4.46	7.6	U	ND	Y
27.2	2.000	0.33	0.42	1.35	2.53	1.27	4.05	7.6		=	Y
0.8	2.000	0.33	0.42	1.46	2.53	1.27	4.37	7.6	J	=	Y
0.0	2.000	0.29	0.36	1.49	2.53	1.09	4.46	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.53	1.09	4.46	7.6	U	ND	Y
0.8	2.000	0.29	0.36	1.49	2.53	1.09	4.46	7.6	J	=	Y
0.0	2.000	0.29	0.36	1.46	2.53	1.09	4.37	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.77	2.53	1.27	5.31	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.53	1.09	4.46	7.6	U	ND	Y
2.5	2.000	0.29	0.36	1.46	2.53	1.09	4.37	7.6		=	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
0.6	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	J	=	Y
1.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	J	=	Y
6.7	2.000	0.29	0.36	1.37	2.53	1.09	4.10	7.6		=	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
1.6	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	J	=	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
1.8	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6		=	Y
0.0	2.000	0.25	0.32	1.46	2.53	0.95	4.37	7.6	U	ND	Y
7.7	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6		=	Y
4.2	2.000	0.25	0.32	1.38	2.53	0.95	4.14	7.6		=	Y
8.4	2.000	0.25	0.32	1.38	2.53	0.95	4.14	7.6		=	Y
0.0	2.000	0.25	0.32	1.35	2.53	0.95	4.06	7.6	U	ND	Y
4.9	2.000	0.25	0.32	1.38	2.53	0.95	4.14	7.6		=	Y
0.0	2.000	0.22	0.28	1.46	2.53	0.84	4.37	7.6	U	ND	Y
5.3	2.000	0.22	0.28	1.48	2.53	0.84	4.44	7.6		=	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.41	2.53	0.76	4.24	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
1.6	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6		=	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.41	2.53	0.76	4.24	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.48	2.53	0.76	4.43	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.53	0.84	4.09	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.41	2.53	0.76	4.24	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.18	0.23	1.48	2.53	0.69	4.43	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.33	2.53	0.76	3.99	7.6	U	ND	Y

0.0	2.000	0.17	0.21	1.47	2.53	0.63	4.42	7.6	U	ND		Y
%												Y
100.0	45.00	7.5	9.50	33.56	57.00	28.5	100.7	171.0		=		Y
100.0	45.00	45.0	57.00	37.38	57.00	171.0	112.1	171.0		=		Y
100.0	45.00	5.9	7.50	30.74	57.00	22.5	92.2	171.0		=		Y
100.0	45.00	6.4	8.14	31.71	57.00	24.4	95.1	171.0		=		Y
100.0	45.00	3.0	3.80	30.84	57.00	11.4	92.5	171.0		=		Y
100.0	45.00	7.5	9.50	33.56	57.00	28.5	100.7	171.0		=		Y
100.0	45.00	6.4	8.14	30.75	57.00	24.4	92.3	171.0		=		Y
100.0	45.00	45.0	57.00	37.38	57.00	171.0	112.1	171.0		=		Y
100.0	45.00	3.5	4.38	31.81	57.00	13.2	95.4	171.0		=		Y
100.0	45.00	5.6	7.13	34.40	57.00	21.4	103.2	171.0		=		Y
0.0	45.00	7.5	9.50	33.56	57.00	28.5	100.7	171.0	U	ND		Y
0.0	25.000	3.6	4.52	17.61	31.67	13.6	52.8	95.0	U	ND		Y
%												Y
33.9												Y
26.1												Y
8.9												Y
65.0												Y
7.7												Y
3.4												Y
0.0												Y
%												Y
75.3	5.000	2.5	3.17	3.91	6.33	9.5	11.7	19.0	J	=		Y
24.7	5.000	1.7	2.11	3.82	6.33	6.3	11.4	19.0	U	ND		Y
0.0	25.000	6.3	7.92	18.86	31.67	23.8	56.6	95.0	U	ND		Y
0.0	25.000	5.0	6.33	18.73	31.67	19.0	56.2	95.0	U	ND		Y
0.0	25.000	4.2	5.28	18.65	31.67	15.8	55.9	95.0	U	ND		Y
0.0	25.000	3.6	4.52	18.58	31.67	13.6	55.7	95.0	U	ND		Y
0.0	25.000	3.1	3.96	18.53	31.67	11.9	55.6	95.0	U	ND		Y
0.0	25.000	2.8	3.52	18.50	31.67	10.6	55.5	95.0	U	ND		Y
0.0	25.000	2.5	3.17	18.47	31.67	9.5	55.4	95.0	U	ND		Y
0.0	25.000	2.3	2.88	18.44	31.67	8.6	55.3	95.0	U	ND		Y
0.0	25.000	2.1	2.64	18.42	31.67	7.9	55.3	95.0	U	ND		Y
0.0	25.000	2.1	2.64	18.42	31.67	7.9	55.3	95.0	U	ND		Y
100.0												Y
												Y
0.4	6.0	1.0	1.27	3.75	7.60	3.8	11.2	22.8				Y
3.7	6.0	0.9	1.09	4.46	7.60	3.3	13.4	22.8				Y
2.9	6.0	0.7	0.84	4.44	7.60	2.5	13.3	22.8				Y
0.0	6.0	0.5	0.69	4.04	7.60	2.1	12.1	22.8				Y
0.0	6.0	0.7	0.84	3.95	7.60	2.5	11.9	22.8				Y
0.0	6.0	0.5	0.69	4.03	7.60	2.1	12.1	22.8				Y
0.0	2.0	0.3	0.42	1.49	2.53	1.3	4.5	7.6	U	ND		Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
				2.3			2.29		
13.3				0.0				0.00	
						13.34			
3.7				1.5			1.45		
	0.0					3.69			
						0.00			
					0.0				
				1.9			1.88		
0.0				0.0			0.00		
						0.00			
				0.0			0.00		
				0.0			0.00		
					0.0				
				0.0			0.00		
	0.0				0.0				
						0.00			
				0.0			0.00		
					0.0				
3.9				0.0			0.00		
						3.89			
				0.0			0.00		
				5.3			5.29		
				0.0			0.00		
					0.0				
				0.0			0.00		
	0.0								
						0.00			
			0.0						0.00
					0.0				
			0.0						0.00
					0.0				
	0.0								
	0.0					0.00			
	0.0					0.00			
						0.00			
0.0				0.0			0.00		
						0.00			
					0.0				


0.0
12.0
2.2
92.8
2.6
0.0
0.0
3.3
0.0
0.0
9.9
0.0
2.6
4.7
26.6
0.0
7.4
0.0
0.0
8.1
35.2
19.2
38.4
0.0
22.5
27.3
0.0
0.0
0.0
0.0
8.0
0.0
0.0
0

0.0									
83.4	28.3	207.5	24.6	10.9	0.0	0.00	114.4	10.9	0.0	21.9

3.89	0.00	
35.21	28.30	
27.30	0.00	
0.00	0.00	
		27.30
		0.00

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
		0.00			
	0.00				
	0.00				
	0.00				
			0.00		
			0.00		

0.00

0.00

92.76

0.00

26.58

19.21
38.36
0.00
22.50

0.00
0.00
0.00
0.00
0.00
8.05
0.00
0.00
0.00

0.00
0.00

0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00

0.00
0.00
0.00

0.0	0.0	0.0	0.0	207.5	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**14**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.27
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = $\text{Sum} \left| \frac{(\text{Astdni})}{(\text{Cstdni})} \right|_i$

2) ppbC = $\frac{\text{6 Carbons} \quad \text{Ansamp} \quad \text{CDF} \quad 1000}{\text{(Avg RFn)} \quad \text{SV}}$ = **Cn**

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = $\frac{(\text{amt(ppbv)} \quad \text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.02E+04	1418	2.3	1.14	1.32
Acetylene	2	TRG	26.0	2.02E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.02E+04	8264	13.3	6.67	8.23
Propene	3	TRG	4.5	2.02E+04	4	1.5	0.48	0.83
Propane	3	TRG	44.1	2.02E+04	2284	3.7	1.23	2.22
i-Butane	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.02E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.02E+04	1164	1.9	0.47	1.08
n-Butane	4	TRG	54.1	2.02E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.02E+04	2411	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.02E+04	3279	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.02E+04	0	3.9	0.78	2.30
2,2-Dimethylbutane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.02E+04	0	5.3	1.06	3.04
2,3-Dimethylbutane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.02E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.02E+04	7425	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.02E+04	1353	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.02E+04	57440	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.02E+04	1636	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.02E+04	2055	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.02E+04	6149	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.02E+04	1631	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.02E+04	2896	12.0	2.00	6.90	
Toluene	7	TRG	100.2	2.02E+04	16461	2.2	0.31	1.28	
2,3-Dimethylhexane	6	TRG	78.1	2.02E+04	0	92.8	15.46	49.48	
2-Methylheptane	6	TRG	84.2	2.02E+04	4606	2.6	0.44	1.52	
3-Methylheptane	7	TRG	100.2	2.02E+04	4987	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.02E+04	21803	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.02E+04	11898	3.3	0.47	1.95	
m,p-xylene	7	TRG	98.2	2.02E+04	23755	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.02E+04	13936	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.02E+04	16908	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.02E+04	0	9.9	1.42	5.71	
n-propylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.02E+04	0	2.6	0.33	1.54	
3-Ethyltoluene	8	TRG	114.2	2.02E+04	0	4.7	0.58	2.74	
4-Ethyltoluene	7	TRG	92.1	2.02E+04	0	26.6	3.80	14.33	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.02E+04	4985	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.02E+04	0	7.4	0.93	4.35	
b-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.02E+04	0	8.1	1.01	4.71	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.02E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.02E+04	0	35.2	4.40	20.60	
1,3-Diethylbenzene	8	TRG	106.2	2.02E+04	0	19.2	2.40	10.45	
1,4-Diethylbenzene	8	TRG	106.2	2.02E+04	0	38.4	4.80	20.87	
n-Butylbenzene	8	TRG	104.2	2.02E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.02E+04	0	22.5	2.81	12.24	
Dodecane	9	TRG	126.2	2.02E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.02E+04	582772	941.1	156.85	554.10	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.02E+04	582772	941.1	941.07	617.10	
Total Volatile Organic Compoun	8	TRG	100.0	2.02E+04	582772	941.1	123.83	507.48	
TPH (gasoline)	7	TRG	95.0	2.02E+04	582772	941.1	134.44	523.43	
TPH (diesel)	15	TRG	198.0	2.02E+04	582772	941.1	62.74	509.10	
TPH (hexane)	6	TRG	86.2	2.02E+04	582772	941.1	156.85	554.10	
TPH (toluene)	7	TRG	92.1	2.02E+04	582772	941.1	134.44	507.67	
TPH (methane)	1	TRG	16.0	2.02E+04	582772	941.1	941.07	617.10	
TPH (Jet A Fuel)	13	TRG	177.0	2.02E+04	582772	941.1	72.39	525.13	
TPH (Mineral Spirits)	8	TRG	117.8	2.02E+04	582772	941.1	117.63	567.97	
C6+ (hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.02E+04		319.3			Sum ID
Paraffins	P	TRG	0.0	2.02E+04		83.4			Sum P
Isoparaffins	I	TRG	0.0	2.02E+04		28.3			Sum I
Aromatics	A	TRG	0.0	2.02E+04		207.5			Sum A
Napthlenes	N	TRG	0.0	2.02E+04		24.6			Sum N
Olefins	O	TRG	0.0	2.02E+04		10.9			Sum O
Oxygenates		TRG	0.0	2.02E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.02E+04	9682	15.6	7.82	9.64	
C3 (propane)	3	TRG	44.1	2.02E+04	3182	5.1	1.71	3.10	
C4 (Butane)	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.02E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.02E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.02E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.02E+04	12864	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 15

File Name: 2510015A
Description: T-115
Canister: 654
QC_Batch: 032725-GCK

Date Sampled: 03/19/25 **Time:** 12:53
Date Analyzed: 03/27/25 **Time:** 19:20
Can Factor: 1.27
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.27	3.80	ND	1.46	4.37	ND	ND
74-86-2	Acetylene	1.27	3.80	ND	1.35	4.05	ND	ND
74-84-0	Ethane	1.27	3.80	2.26	1.56	4.68	2.78	J
115-07-1	Propene	0.84	2.53	0.96	1.46	4.37	1.65	J
74-98-6	Propane	0.84	2.53	ND	1.53	4.58	ND	ND
75-28-5	i-Butane	0.63	1.90	ND	1.51	4.52	ND	ND
106-98-9	1-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
106-97-8	n-Butane	0.63	1.90	ND	1.51	4.52	ND	ND
624-64-6	t-2-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
590-18-1	c-2-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
78-78-4	i-Pentane	0.51	1.52	ND	1.50	4.49	ND	ND
109-67-1	1-Pentene	0.51	1.52	ND	1.45	4.36	ND	ND
109-66-0	n-Pentane	0.51	1.52	ND	1.50	4.49	ND	ND
646-04-8	t-2-Pentene	0.51	1.52	ND	1.45	4.36	ND	ND
627-20-3	c-2-Pentene	0.51	1.52	ND	1.45	4.36	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.27	ND	1.49	4.47	ND	ND
142-29-0	Cyclopentene	0.51	1.52	ND	1.41	4.24	ND	ND
287-92-3	Cyclopentane	0.51	1.52	ND	1.45	4.36	ND	ND
79-29-8	2,3-Dimethylbutane	0.42	1.27	ND	1.49	4.47	ND	ND
107-83-5	2-Methylpentane	0.42	1.27	ND	1.49	4.47	ND	ND
96-14-0	3-Methylpentane	0.42	1.27	ND	1.49	4.47	ND	ND
592-41-6	1-Hexene	0.42	1.27	ND	1.46	4.37	ND	ND
110-54-3	n-Hexane	0.42	1.27	ND	1.49	4.47	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.27	ND	1.42	4.26	ND	ND
96-37-7	Methylcyclopentane	0.42	1.27	ND	1.46	4.37	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.08	ND	1.49	4.46	ND	ND
71-43-2	Benzene	0.42	1.27	2.71	1.35	4.05	8.67	
110-82-7	Cyclohexane	0.42	1.27	ND	1.46	4.37	ND	ND
591-76-4	2-Methylhexane	0.36	1.08	ND	1.49	4.46	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.08	ND	1.49	4.46	ND	ND
589-34-4	3-Methylhexane	0.36	1.08	ND	1.49	4.46	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.32	0.95	ND	1.48	4.44	ND	ND
142-82-5	n-Heptane	0.36	1.08	ND	1.49	4.46	ND	ND
108-87-2	Methylcyclohexane	0.36	1.08	ND	1.46	4.37	ND	ND
592-13-2	2,5-Dimethylhexane	0.32	0.95	ND	1.48	4.44	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.95	ND	1.48	4.44	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.32	0.95	ND	1.48	4.44	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.08	ND	1.37	4.10	ND	ND
584-94-1	2,3-Dimethylhexane	0.32	0.95	ND	1.48	4.44	ND	ND
592-27-8	2-Methylheptane	0.32	0.95	ND	1.48	4.44	ND	ND
589-53-7	4-Methylheptane	0.32	0.95	ND	1.48	4.44	ND	ND
589-81-1	3-Methylheptane	0.32	0.95	ND	1.48	4.44	ND	ND
111-65-9	n-Octane	0.32	0.95	0.39	1.48	4.44	1.83	J
100-41-4	Ethylbenzene	0.32	0.95	ND	1.38	4.13	ND	ND
108-38-3	m,p-xylene	0.32	0.95	ND	1.38	4.13	ND	ND
100-42-5	Styrene	0.32	0.95	ND	1.35	4.05	ND	ND
95-47-6	o-xylene	0.32	0.95	ND	1.38	4.13	ND	ND
111-84-2	n-Nonane	0.28	0.84	ND	1.48	4.44	ND	ND
98-82-8	i-Propylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
103-65-1	n-propylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
124-18-5	n-Decane	0.25	0.76	ND	1.48	4.43	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
104-51-8	n-Butylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
1120-21-4	Undecane	0.23	0.69	ND	1.47	4.42	ND	ND
91-20-3	Naphthalene	0.25	0.76	ND	1.33	3.99	ND	ND
112-40-3	Dodecane	0.21	0.63	ND	1.47	4.42	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.49	28.48	15.16	33.54	100.62	53.56	J
TNMHC - C1	Total Non-Methane Hydrocarbons	56.96	170.88	90.96	37.35	112.05	59.65	J

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **15**
File Name: **2510015A**
Sample ID: **T-115**
Sampled: **3/19/2025**
Received: **03/21/25**
Analyzed: **03/27/25**
QCBatch: **032725-GCK**
Can: **654**
Can Factor: **1.27**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **12:53** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **19:20** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **364105**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C5 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene		P	4.06	4.06	**4.02**	1176	NA	NA	NA		
74-86-2	Acetylene		P	4.10	4.10			NA	NA	NA		
74-84-0	Ethane		P	4.17	**4.17**	**4.17**	2798	I	I	H	200	200
115-07-1	Propene		P	5.11	5.11	**5.14**	1782	I	O	M	294	290
74-98-6	Propane		P	5.20	**5.20**	**5.20**		I	I	H	300	300
75-28-5	i-Butane		P	6.60	**6.60**						138	351
67-56-1	Methanol			8.30	8.30						138	401
106-98-9	1-Butene		P	7.29	7.29	**7.31**	1212	I	I	H	366	367
106-99-0	1,3-Butadiene			**7.48**	7.48						138	373
106-97-8	n-Butane		P	8.34	**8.34**	**8.40**		I	I	H	400	400
624-64-6	t-2-Butene		P	8.75	8.81	**8.87**		I	I	H	412	410
590-18-1	c-2-Butene		P	9.63	9.69						194	431
64-17-5	Ethanol			10.85	10.86						194	461
563-45-1	3-Methyl-1-butene	6		**11.05**	11.06						194	465
67-64-1	Acetone			11.52	11.53						194	476
78-78-4	i-Pentane		P	11.37	11.38	**11.36**		I	I	H	472	473
109-67-1	1-Pentene		P	12.30	12.31	**12.11**		O	O	L	491	495
67-63-0	Isopropanol			12.65	12.66						194	504
563-46-2	2-Methyl-1-butene	9		**12.36**	12.37						194	497
109-66-0	n-Pentane		P	12.48	**12.49**	**12.49**		I	I	H	500	500
78-79-5	Isoprene		P	12.55	12.56						157	503
646-04-8	t-2-Pentene		P	12.79	12.80	**12.81**	819	I	I	H	509	510
627-20-3	c-2-Pentene		P	13.08	13.09	**13.03**		I	O	M	515	518
75-65-0	Tert butyl alcohol			**13.55**	13.56						278	526
513-35-9	2-Methyl-2-butene	13		**13.62**	13.63						278	520
75-83-2	2,2-Dimethylbutane		P	13.77	13.78						157	537
142-29-0	Cyclopentene	15		**14.61**	14.62						157	551
71-23-8	n-Propanol			**14.75**	14.76						157	558
287-92-3	Cyclopentane		P	14.88	14.89	**14.84**		I	I	H	565	567
1634-04-4	Methyl tert butyl ether			**15.00**	15.01						157	569
79-29-8	2,3-Dimethylbutane		P	15.06	15.07	**15.02**		I	I	H	570	570
107-83-5	2-Methylpentane		P	15.08	15.09	**15.02**		I	I	H	570	571
96-14-0	3-Methylpentane		P	15.55	15.56	**15.51**		I	I	H	583	583
592-41-6	1-Hexene		P	**15.80**	15.81						157	590
110-54-3	n-Hexane		P	16.17	**16.18**	**16.12**		I	I	H	600	600
108-20-3	Diisopropyl ether			**16.30**	16.25						259	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.40						214	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.75						214	623
96-37-7	Methylcyclopentane		P	16.86	16.81	**16.78**		I	I	H	620	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.00	**17.02**		I	I	H	628	626
71-43-2	Benzene		P	17.87	**17.82**	**17.86**	10076	I	I	H	654	651
110-82-7	Cyclohexane		P	18.14	18.13	**18.11**		I	O	M	661	658
591-76-4	2-Methylhexane		P	18.38	18.37	**18.39**		I	I	H	670	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.44	**18.41**		I	I	H	670	671
589-34-4	3-Methylhexane		P	18.66	18.65	**18.64**		I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.74						104	687
994-05-8	Tert amyl methyl ether			**18.80**	18.79						104	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.08	**19.00**		I	I	H	688	690
142-82-5	n-Heptane		P	19.41	19.40	**19.37**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.08	**20.08**		I	I	H	724	722
592-13-2	2,5-Dimethylhexane			20.35	20.34	**20.30**		I	I	H	732	734
589-43-5	2,4-Dimethylhexane			20.43	20.42	**20.41**		I	I	H	736	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.92	**20.85**		I	I	H	751	753
108-88-3	Toluene		P	21.12	**21.11**	**21.11**		I	I	H	759	758
584-94-1	2,3-Dimethylhexane			21.20	21.19	**21.17**		I	I	H	762	763
592-27-8	2-Methylheptane		P	21.33	21.32	**21.32**		I	I	H	767	768
589-53-7	4-Methylheptane	48		**21.48**	21.47	**21.44**		I	O	M	771	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.49						37	772
589-81-1	3-Methylheptane		p	21.55	21.54	**21.54**		I	I	H	774	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.09						37	786
111-65-9	n-Octane		P	22.27	22.26	**22.29**	1940	I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.74	**23.73**		I	I	H	856	855
108-38-3	m,p-xylene		P	23.95	23.94	**23.96**		I	I	H	866	863
100-42-5	Styrene		P	24.40	24.39						-74	881
95-47-6	o-xylene		P	24.57	24.56	**24.62**		I	O	M	891	886
124-11-8	1-Nonene	64		24.60	24.59						-74	889
111-84-2	n-Nonane		P	24.87	24.86	**24.84**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.35	**25.39**		I	O	M	923	919
103-65-1	n-propylbenzene		P	25.93	25.92	**25.92**		I	I	H	945	947
80-56-8	a-Pinene			26.09	26.08						-145	950
620-14-4	3-Ethyltoluene		P	26.17	26.16	**26.10**	1114	I	O	M	953	957
622-96-8	4-Ethyltoluene		P	26.26	26.25	**26.28**		I	I	H	961	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.44	**26.47**		I	O	M	969	964
611-14-3	2-Ethyltoluene		P	26.61	26.60	**26.58**		I	I	H	973	975
127-91-3	b-Pinene			26.80	26.79	**26.83**		I	O	M	984	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.07						-145	991
124-18-5	n-Decane		P	27.26	27.25	**27.22**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.54						-30	1014
496-11-7	Indan	81		27.55	27.54						-30	1020
5989-27-5	d-Limonene			27.65	27.64	**27.64**		I	I	H	1016	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.09	**28.07**		I	I	H	1032	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.22	**28.29**		I	O	M	1041	1037
104-51-8	n-Butylbenzene			28.45	28.44						-30	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.59						-30	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.74						-30	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.82						-30	1060
1120-21-4	Undecane		P	29.86	29.88	**29.86**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.44						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.49						-48	1124
91-20-3	Naphthalene		32.25	32.24						-48	1193
112-40-3	Dodecane	P	32.46	32.48	**32.46**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					150726		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					56372		73688			
TNMHC - C1	Total Non-Methane Hydrocarbons					56372		14818			
TVOC	Total Volatile Organic Compounds					56372		5848			
TPH(g)	TPH (gasoline)					56372		0			
TPH(d)	TPH (diesel)					56372		0			
TPH(h)	TPH (hexane)					56372		0			
TPH(t)	TPH (toluene)					56372		0			
TPHC	TPH (methane)					56372		0			
TPH(Jet A)	TPH (Jet A Fuel)					56372		**94354**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					56372					
C6+	**C6+ (hexane)**		16.17	16.18	16.12	**0**		Sum from	16.18	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			3974		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			1782		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**5756**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	032725-GCK
Hexane Std Area:	364105
Hexane Conc.	18.05
Standard Volume:	1.00
Can Dilution Factor:	1.27
Air Volume:	200.00
Combined Factor:	1.27
Gas Constant:	24.4
Decimal Places:	2

Oxygenate Response	0.75
ND Flag:	ND
MDL Factor	1

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTC ug/m3
Ethene	28.1	2	1.90	0.95	1.09	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	4.51	2.26	2.78	4.51	2.26	2.78	2.78	2.78
Propene	42.1	3	2.88	0.96	1.65	2.88	0.96	1.65	1.65	1.65
Propane	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	1.96	0.49	1.12	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	1.32	0.26	0.76	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	16.26	2.71	8.67	16.26	2.71	8.67	8.67	8.67
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	3.13	0.39	1.83	3.13	0.39	1.83	1.83	1.83
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	1.80	0.20	0.98	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	90.96	15.2	53.6	90.96	15.16	53.56	53.56	53.56
Total Non-Methane Hydrocarbons	16	1.0	90.96	91.0	59.6	90.96	90.96	59.65	59.65	59.65
Total Volatile Organic Compounds	100	7.6	90.96	12.0	49.1	90.96	11.97	49.05	49.05	49.05
TPH (gasoline)	95	7.0	90.96	13.0	50.6	90.96	12.99	50.59	50.59	50.59
TPH (diesel)	198	15.0	90.96	6.1	49.2	90.96	6.06	49.21	49.21	49.21
TPH (hexane)	86.2	6.0	90.96	15.2	53.6	90.96	15.16	53.56	53.56	53.56
TPH (toluene)	92.14	7.0	90.96	13.0	49.1	90.96	12.99	49.07	49.07	49.07
TPH (methane)	16	1.0	90.96	91.0	59.6	90.96	90.96	59.65	59.65	59.65
TPH (Jet A Fuel)	177	13.0	90.96	7.0	50.8	90.96	7.00	50.76	50.76	50.76
TPH (Mineral Spirits)	117.81	8.0	90.96	11.4	54.9	90.96	11.37	54.90	54.90	54.90
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			32.0	8.2						
Paraffins			7.6							
Isoparaffins			0.0							
Aromatics			18.1							
Napthlenes			0.0							
Olefins			8.1							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	6.41	3.21	3.96	6.41	3.21	3.96	3.96	3.96
C3 (propane)	44.1	3	2.88	0.96	1.73	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			9.3							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	3.1	0.45	1.84					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	7.6	23.9
Alkenes	8.1	25.2
Alkynes	0.0	0.0
Cycloalkanes	0.0	0.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	18.1	56.5
Terpenes	0.0	0.0

SDG: **225100**
Laboratory Number: **15**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
11.5	2.000	1.00	1.27	1.46	2.53	3.80	4.37	7.6	U	ND		Y
0.0	2.000	1.00	1.27	1.35	2.53	3.80	4.05	7.6	U	ND		Y
27.5	2.000	1.00	1.27	1.56	2.53	3.80	4.68	7.6	J	=		Y
11.7	2.000	0.67	0.84	1.46	2.53	2.53	4.37	7.6	J	=		Y
0.0	2.000	0.67	0.84	1.53	2.53	2.53	4.58	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.51	2.53	1.90	4.52	7.6	U	ND		Y
0.0	2.000	2.00	2.53	3.32	2.53	7.59	9.96	7.6	U	ND		Y
5.9	2.000	0.50	0.63	1.46	2.53	1.90	4.37	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.40	2.53	1.90	4.21	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.51	2.53	1.90	4.52	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.46	2.53	1.90	4.37	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.46	2.53	1.90	4.37	7.6	U	ND		Y
0.0	2.000	1.00	1.27	2.39	2.53	3.80	7.17	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.45	2.53	1.52	4.36	7.6	U	ND		Y
0.0	2.000	0.67	0.84	2.01	2.53	2.53	6.03	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.50	2.53	1.52	4.49	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.45	2.53	1.52	4.36	7.6	U	ND		Y
0.0	2.000	0.67	0.84	2.08	2.53	2.53	6.24	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.45	2.53	1.52	4.36	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.50	2.53	1.52	4.49	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.41	2.53	1.52	4.24	7.6	U	ND		Y
3.2	2.000	0.40	0.51	1.45	2.53	1.52	4.36	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.45	2.53	1.52	4.36	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.92	2.53	1.90	5.77	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.45	2.53	1.52	4.36	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.53	1.27	4.47	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.41	2.53	1.52	4.24	7.6	U	ND		Y
0.0	2.000	0.67	0.84	2.08	2.53	2.53	6.24	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.45	2.53	1.52	4.36	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.83	2.53	1.52	5.49	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.53	1.27	4.47	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.53	1.27	4.47	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.53	1.27	4.47	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.46	2.53	1.27	4.37	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.53	1.27	4.47	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.77	2.53	1.27	5.30	7.6	U	ND		Y

0.0	2.000	0.33	0.42	1.42	2.53	1.27	4.26	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.77	2.53	1.27	5.30	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.46	2.53	1.27	4.37	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.53	1.08	4.46	7.6	U	ND	Y
33.0	2.000	0.33	0.42	1.35	2.53	1.27	4.05	7.6		=	Y
0.0	2.000	0.33	0.42	1.46	2.53	1.27	4.37	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.53	1.08	4.46	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.53	1.08	4.46	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.53	1.08	4.46	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.46	2.53	1.08	4.37	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.77	2.53	1.27	5.30	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.44	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.53	1.08	4.46	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.46	2.53	1.08	4.37	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.44	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.44	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.44	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.37	2.53	1.08	4.10	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.44	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.44	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.44	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.44	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.44	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.46	2.53	0.95	4.37	7.6	U	ND	Y
4.8	2.000	0.25	0.32	1.48	2.53	0.95	4.44	7.6	J	=	Y
0.0	2.000	0.25	0.32	1.38	2.53	0.95	4.13	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.38	2.53	0.95	4.13	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.35	2.53	0.95	4.05	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.38	2.53	0.95	4.13	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.45	2.53	0.84	4.36	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.48	2.53	0.84	4.44	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.41	2.53	0.76	4.24	7.6	U	ND	Y
2.4	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.41	2.53	0.76	4.24	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.48	2.53	0.76	4.43	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.53	0.84	4.09	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.41	2.53	0.76	4.24	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.18	0.23	1.47	2.53	0.69	4.42	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.33	2.53	0.76	3.99	7.6	U	ND	Y

0.0	2.000	0.17	0.21	1.47	2.53	0.63	4.42	7.6	U	ND	Y
%											Y
100.0	45.00	7.5	9.49	33.54	56.96	28.5	100.6	170.9	J	=	Y
100.0	45.00	45.0	56.96	37.35	56.96	170.9	112.1	170.9	J	=	Y
100.0	45.00	5.9	7.49	30.72	56.96	22.5	92.2	170.9	J	=	Y
100.0	45.00	6.4	8.14	31.68	56.96	24.4	95.0	170.9	J	=	Y
100.0	45.00	3.0	3.80	30.82	56.96	11.4	92.4	170.9	J	=	Y
100.0	45.00	7.5	9.49	33.54	56.96	28.5	100.6	170.9	J	=	Y
100.0	45.00	6.4	8.14	30.73	56.96	24.4	92.2	170.9	J	=	Y
100.0	45.00	45.0	56.96	37.35	56.96	170.9	112.1	170.9	J	=	Y
100.0	45.00	3.5	4.38	31.78	56.96	13.1	95.4	170.9	J	=	Y
100.0	45.00	5.6	7.12	34.38	56.96	21.4	103.1	170.9	J	=	Y
0.0	45.00	7.5	9.49	33.54	56.96	28.5	100.6	170.9	U	ND	Y
0.0	25.000	3.6	4.52	17.60	31.65	13.6	52.8	94.9	U	ND	Y
%											Y
35.1											Y
23.9											Y
0.0											Y
56.5											Y
0.0											Y
25.2											Y
0.0											Y
%											Y
69.0	5.000	2.5	3.16	3.90	6.33	9.5	11.7	19.0	J	=	Y
31.0	5.000	1.7	2.11	3.81	6.33	6.3	11.4	19.0	U	ND	Y
0.0	25.000	6.3	7.91	18.84	31.65	23.7	56.5	94.9	U	ND	Y
0.0	25.000	5.0	6.33	18.71	31.65	19.0	56.1	94.9	U	ND	Y
0.0	25.000	4.2	5.27	18.63	31.65	15.8	55.9	94.9	U	ND	Y
0.0	25.000	3.6	4.52	18.56	31.65	13.6	55.7	94.9	U	ND	Y
0.0	25.000	3.1	3.96	18.51	31.65	11.9	55.5	94.9	U	ND	Y
0.0	25.000	2.8	3.52	18.48	31.65	10.5	55.4	94.9	U	ND	Y
0.0	25.000	2.5	3.16	18.46	31.65	9.5	55.4	94.9	U	ND	Y
0.0	25.000	2.3	2.88	18.43	31.65	8.6	55.3	94.9	U	ND	Y
0.0	25.000	2.1	2.64	18.41	31.65	7.9	55.2	94.9	U	ND	Y
0.0	25.000	2.1	2.64	18.41	31.65	7.9	55.2	94.9	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.27	3.74	7.59	3.8	11.2	22.8			Y
3.4	6.0	0.9	1.08	4.46	7.59	3.3	13.4	22.8			Y
0.0	6.0	0.7	0.84	4.44	7.59	2.5	13.3	22.8			Y
0.0	6.0	0.5	0.69	4.04	7.59	2.1	12.1	22.8			Y
0.0	6.0	0.7	0.84	3.95	7.59	2.5	11.8	22.8			Y
0.0	6.0	0.5	0.69	4.03	7.59	2.1	12.1	22.8			Y
0.0	2.0	0.3	0.42	1.49	2.53	1.3	4.5	7.6	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					1.9		1.90		
					0.0			0.00	
4.5						4.51			
					2.9		2.88		
0.0						0.00			
	0.0					0.00			
						0.0			
					2.0		1.96		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
						0.0			
	0.0					0.00			
					0.0		0.00		
						0.0			
0.0					0.0		0.00		
						0.00			
					0.0		0.00		
					1.3		1.32		
					0.0		0.00		
						0.0			
					0.0		0.00		
	0.0					0.00			
			0.0						0.00
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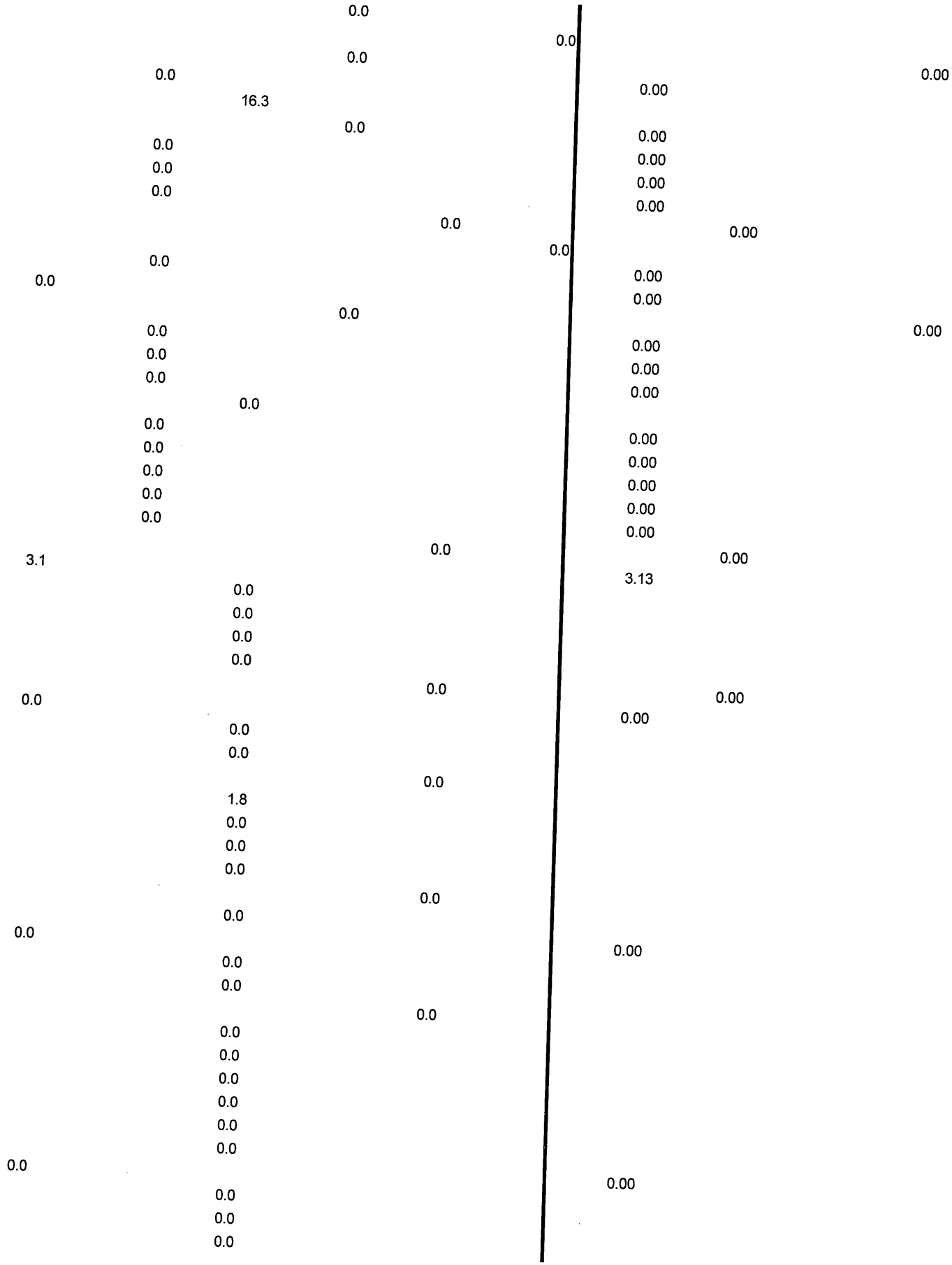
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Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
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	0.00				
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		0.00			

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SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**15**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.27	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum |(Astdni) / (Cstdni)|$_i$

2) ppbC = (6 Carbons × Ansamp × CDF × 1000) / (Avg RFn × SV) = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.02E+04	1176	1.9	0.95	1.09
Acetylene	2	TRG	26.0	2.02E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.02E+04	2798	4.5	2.26	2.78
Propene	3	TRG	4.5	2.02E+04	4	2.9	0.96	1.65
Propane	3	TRG	44.1	2.02E+04	0	0.0	0.00	0.00
i-Butane	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.02E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.02E+04	1212	2.0	0.49	1.12
n-Butane	4	TRG	54.1	2.02E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.02E+04	819	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.02E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.02E+04	0	1.3	0.26	0.76
2,3-Dimethylbutane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.02E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.02E+04	10076	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.02E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.02E+04	0	16.3	2.71	8.67	
2-Methylheptane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.02E+04	1940	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.02E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.02E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.02E+04	1114	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.02E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.02E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.02E+04	0	3.1	0.39	1.83	
1,3-Diethylbenzene	8	TRG	106.2	2.02E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.02E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.02E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.02E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.02E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.02E+04	56372	91.0	15.16	53.56	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.02E+04	56372	91.0	90.96	59.65	
Total Volatile Organic Compoun	8	TRG	100.0	2.02E+04	56372	91.0	11.97	49.05	
TPH (gasoline)	7	TRG	95.0	2.02E+04	56372	91.0	12.99	50.59	
TPH (diesel)	15	TRG	198.0	2.02E+04	56372	91.0	6.06	49.21	
TPH (hexane)	6	TRG	86.2	2.02E+04	56372	91.0	15.16	53.56	
TPH (toluene)	7	TRG	92.1	2.02E+04	56372	91.0	12.99	49.07	
TPH (methane)	1	TRG	16.0	2.02E+04	56372	91.0	90.96	59.65	
TPH (Jet A Fuel)	13	TRG	177.0	2.02E+04	56372	91.0	7.00	50.76	
TPH (Mineral Spirits)	8	TRG	117.8	2.02E+04	56372	91.0	11.37	54.90	
C6+ (hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.02E+04		32.0			Sum ID
Paraffins	P	TRG	0.0	2.02E+04		7.6			Sum P
Isoparaffins	I	TRG	0.0	2.02E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.02E+04		18.1			Sum A
Napthlenes	N	TRG	0.0	2.02E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.02E+04		8.1			Sum O
Oxygenates		TRG	0.0	2.02E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.02E+04	3974	6.4	3.21	3.96	
C3 (propane)	3	TRG	44.1	2.02E+04	1782	2.9	0.96	1.73	
C4 (Butane)	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.02E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.02E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.02E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.02E+04	5756	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 16

File Name: 2510016A
Description: T-116
Canister: 782
QC_Batch: 033125-GCK

Date Sampled: 03/19/25 **Time:** 13:03
Date Analyzed: 03/31/25 **Time:** 15:17
Can Factor: 1.48
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.48	4.44	ND	1.70	5.11	ND	ND
74-86-2	Acetylene	1.48	4.44	ND	1.58	4.73	ND	ND
74-84-0	Ethane	1.48	4.44	4.88	1.82	5.47	6.02	
115-07-1	Propene	0.99	2.96	ND	1.70	5.10	ND	ND
74-98-6	Propane	0.99	2.96	1.18	1.78	5.35	2.13	J
75-28-5	i-Butane	0.74	2.22	ND	1.76	5.28	ND	ND
106-98-9	1-Butene	0.74	2.22	ND	1.70	5.10	ND	ND
106-97-8	n-Butane	0.74	2.22	ND	1.76	5.28	ND	ND
624-64-6	t-2-Butene	0.74	2.22	ND	1.70	5.10	ND	ND
590-18-1	c-2-Butene	0.74	2.22	ND	1.70	5.10	ND	ND
78-78-4	i-Pentane	0.59	1.77	ND	1.75	5.25	ND	ND
109-67-1	1-Pentene	0.59	1.77	ND	1.70	5.10	ND	ND
109-66-0	n-Pentane	0.59	1.77	ND	1.75	5.24	ND	ND
646-04-8	t-2-Pentene	0.59	1.77	ND	1.70	5.10	ND	ND
627-20-3	c-2-Pentene	0.59	1.77	ND	1.70	5.10	ND	ND
75-83-2	2,2-Dimethylbutane	0.49	1.48	ND	1.74	5.23	ND	ND
142-29-0	Cyclopentene	0.59	1.77	ND	1.65	4.95	ND	ND
287-92-3	Cyclopentane	0.59	1.77	ND	1.70	5.10	ND	ND
79-29-8	2,3-Dimethylbutane	0.49	1.48	ND	1.74	5.23	ND	ND
107-83-5	2-Methylpentane	0.49	1.48	ND	1.74	5.23	ND	ND
96-14-0	3-Methylpentane	0.49	1.48	ND	1.74	5.23	ND	ND
592-41-6	1-Hexene	0.49	1.48	ND	1.70	5.10	ND	ND
110-54-3	n-Hexane	0.49	1.48	ND	1.74	5.23	ND	ND
1120-62-3	3-Methylcyclopentene	0.49	1.48	ND	1.66	4.98	ND	ND
96-37-7	Methylcyclopentane	0.49	1.48	ND	1.70	5.10	ND	ND
108-08-7	2,4-Dimethylpentane	0.42	1.27	ND	1.74	5.21	ND	ND
71-43-2	Benzene	0.49	1.48	0.63	1.58	4.73	2.01	J
110-82-7	Cyclohexane	0.49	1.48	ND	1.70	5.10	ND	ND
591-76-4	2-Methylhexane	0.42	1.27	ND	1.74	5.21	ND	ND
565-59-3	2,3-Dimethylpentane	0.42	1.27	ND	1.74	5.21	ND	ND
589-34-4	3-Methylhexane	0.42	1.27	ND	1.74	5.21	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.37	1.11	ND	1.73	5.19	ND	ND
142-82-5	n-Heptane	0.42	1.27	ND	1.74	5.21	ND	ND
108-87-2	Methylcyclohexane	0.42	1.27	ND	1.70	5.10	ND	ND
592-13-2	2,5-Dimethylhexane	0.37	1.11	ND	1.73	5.19	ND	ND
589-43-5	2,4-Dimethylhexane	0.37	1.11	ND	1.73	5.19	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.37	1.11	ND	1.73	5.19	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.42	1.27	ND	1.60	4.79	ND	ND
584-94-1	2,3-Dimethylhexane	0.37	1.11	ND	1.73	5.19	ND	ND
592-27-8	2-Methylheptane	0.37	1.11	ND	1.73	5.19	ND	ND
589-53-7	4-Methylheptane	0.37	1.11	ND	1.73	5.19	ND	ND
589-81-1	3-Methylheptane	0.37	1.11	ND	1.73	5.19	ND	ND
111-65-9	n-Octane	0.37	1.11	ND	1.73	5.19	ND	ND
100-41-4	Ethylbenzene	0.37	1.11	ND	1.61	4.83	ND	ND
108-38-3	m,p-xylene	0.37	1.11	ND	1.61	4.83	ND	ND
100-42-5	Styrene	0.37	1.11	ND	1.58	4.74	ND	ND
95-47-6	o-xylene	0.37	1.11	ND	1.61	4.83	ND	ND
111-84-2	n-Nonane	0.33	0.99	ND	1.73	5.18	ND	ND
98-82-8	i-Propylbenzene	0.33	0.99	ND	1.62	4.86	ND	ND
103-65-1	n-propylbenzene	0.33	0.99	ND	1.62	4.86	ND	ND
620-14-4	3-Ethyltoluene	0.33	0.99	ND	1.62	4.86	ND	ND
622-96-8	4-Ethyltoluene	0.33	0.99	ND	1.62	4.86	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.33	0.99	ND	1.62	4.86	ND	ND
611-14-3	2-Ethyltoluene	0.33	0.99	ND	1.62	4.86	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.33	0.99	ND	1.62	4.86	ND	ND
124-18-5	n-Decane	0.30	0.89	ND	1.73	5.18	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.33	0.99	ND	1.62	4.86	ND	ND
141-93-5	1,3-Diethylbenzene	0.30	0.89	ND	1.63	4.88	ND	ND
105-05-5	1,4-Diethylbenzene	0.30	0.89	ND	1.63	4.88	ND	ND
104-51-8	n-Butylbenzene	0.30	0.89	ND	1.63	4.88	ND	ND
1120-21-4	Undecane	0.27	0.81	ND	1.72	5.17	ND	ND
91-20-3	Naphthalene	0.30	0.89	ND	1.55	4.66	ND	ND
112-40-3	Dodecane	0.25	0.74	ND	1.72	5.16	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	11.09	33.28	11.28	39.19	117.57	39.87	J
TNMHC - C1	Total Non-Methane Hydrocarbons	66.56	199.68	67.71	43.65	130.94	44.40	J

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **16**
File Name: **2510016A**
Sample ID: **T-116**
Sampled: **3/19/2025**
Received: **03/21/25**
Analyzed: **03/31/25**
QCBatch: **033125-GCK**
Can: **782**
Can Factor: **1.48**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **13:03** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **15:17** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **377602**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win	C2-C	C5-C12
RT	**0.3**	**0.1**
RTI	**3**	**3**

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene		P	4.06	4.11	**4.07**	0	NA	NA	NA		
74-86-2	Acetylene		P	4.10	4.15			NA	NA	NA		
74-84-0	Ethane		P	4.17	**4.17**	**4.22**	5177	I	I	H	200	200
115-07-1	Propene		P	5.11	5.11						-198	290
74-98-6	Propane		P	5.20	**5.20**	**5.28**	1876	I	I	H	300	300
75-28-5	i-Butane		P	6.60	**6.68**						127	351
67-56-1	Methanol			8.30	8.38						127	401
106-98-9	1-Butene		P	7.29	7.37	**7.32**	0	I	I	H	367	367
106-99-0	1,3-Butadiene			**7.48**	7.56						127	373
106-97-8	n-Butane		P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene		P	8.75	8.75	**8.69**		I	I	H	408	410
590-18-1	c-2-Butene		P	9.63	9.63						198	431
64-17-5	Ethanol			10.85	10.85						198	461
563-45-1	3-Methyl-1-butene	6		**11.05**	11.05						198	465
67-64-1	Acetone			11.52	11.52						198	476
78-78-4	i-Pentane		P	11.37	11.37						198	473
109-67-1	1-Pentene		P	12.30	12.30	**12.32**		I	I	H	496	495
67-63-0	Isopropanol			12.65	12.65						198	504
563-46-2	2-Methyl-1-butene	9		**12.36**	12.36						198	497
109-66-0	n-Pentane		P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene		P	12.55	12.55						162	503
646-04-8	t-2-Pentene		P	12.79	12.79						162	510
627-20-3	c-2-Pentene		P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol			**13.55**	13.55						600	526
513-35-9	2-Methyl-2-butene	13		**13.62**	13.62						600	520
75-83-2	2,2-Dimethylbutane		P	13.77	13.77						162	537
142-29-0	Cyclopentene	15		**14.61**	14.61						162	551
71-23-8	n-Propanol			**14.75**	14.75						162	558
287-92-3	Cyclopentane		P	14.88	14.88						162	567
1634-04-4	Methyl tert butyl ether			**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane		P	15.06	15.06						162	570
107-83-5	2-Methylpentane		P	15.08	15.08						162	571
96-14-0	3-Methylpentane		P	15.55	15.55	**15.61**	1366	I	I	H	585	583
592-41-6	1-Hexene		P	**15.80**	15.80						162	590
110-54-3	n-Hexane		P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether			**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						113	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						113	626
71-43-2	Benzene		P	17.87	**17.87**	**17.95**	1998	I	I	H	654	651
110-82-7	Cyclohexane		P	18.14	18.22						113	658
591-76-4	2-Methylhexane		P	18.38	18.46						113	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.53						113	671
589-34-4	3-Methylhexane		P	18.66	18.74						113	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.83						113	687
994-05-8	Tert amyl methyl ether			**18.80**	18.88						113	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.17						113	690
142-82-5	n-Heptane		P	19.41	19.49	**19.49**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.17						19	722
592-13-2	2,5-Dimethylhexane			20.35	20.43						19	734
589-43-5	2,4-Dimethylhexane			20.43	20.51						19	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	21.01						19	753
108-88-3	Toluene		P	21.12	**21.20**	**21.20**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.28						19	763
592-27-8	2-Methylheptane		P	21.33	21.41						19	768
589-53-7	4-Methylheptane	48		**21.48**	21.56						19	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.58						19	772
589-81-1	3-Methylheptane		p	21.55	21.63						19	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.18						19	786
111-65-9	n-Octane		P	22.27	22.35	**22.35**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.83						-60	855
108-38-3	m,p-xylene		P	23.95	24.03						-60	863
100-42-5	Styrene		P	24.40	24.48						-60	881
95-47-6	o-xylene		P	24.57	24.65						-60	886
124-11-8	1-Nonene	64		24.60	24.68						-60	889
111-84-2	n-Nonane		P	24.87	24.95	**24.95**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.44						-180	919
103-65-1	n-propylbenzene		P	25.93	26.01	**26.00**		I	I	H	945	947
80-56-8	a-Pinene			26.09	26.17						-180	950
620-14-4	3-Ethyltoluene		P	26.17	26.25						-180	957
622-96-8	4-Ethyltoluene		P	26.26	26.34						-180	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.53						-180	964
611-14-3	2-Ethyltoluene		P	26.61	26.69						-180	975
127-91-3	b-Pinene			26.80	26.88						-180	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.16						-180	991
124-18-5	n-Decane		P	27.26	27.34	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.63						-48	1014
496-11-7	Indan	81		27.55	27.63						-48	1020
5989-27-5	d-Limonene			27.65	27.73						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.18						-48	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.31						-48	1037
104-51-8	n-Butylbenzene			28.45	28.53						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.68						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.83						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.91						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.53						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.58						-48	1124
91-20-3	Naphthalene		32.25	32.33						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					51892		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					35910		8411			
TNMHC - C1	Total Non-Methane Hydrocarbons					35910		7571			
TVOC	Total Volatile Organic Compounds					35910		0			
TPH(g)	TPH (gasoline)					35910		0			
TPH(d)	TPH (diesel)					35910		0			
TPH(h)	TPH (hexane)					35910		0			
TPH(t)	TPH (toluene)					35910		0			
TPHC	TPH (methane)					35910		0			
TPH(Jet A)	TPH (Jet A Fuel)					35910		**15982**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					35910					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			5177		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			1876		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**7053**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	033125-GCK		
Hexane Std Area:	377602		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.48	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.48		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	9.76	4.88	6.02	9.76	4.88	6.02	6.02	6.02
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	3.54	1.18	2.13	3.54	1.18	2.13	2.13	2.13
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	2.58	0.43	1.52	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	3.77	0.63	2.01	3.77	0.63	2.01	2.01	2.01
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	67.71	11.3	39.9	67.71	11.28	39.87	39.87	39.87
Total Non-Methane Hydrocarbons	16	1.0	67.71	67.7	44.4	67.71	67.71	44.40	44.40	44.40
Total Volatile Organic Compounds	100	7.6	67.71	8.9	36.5	67.71	8.91	36.51	36.51	36.51
TPH (gasoline)	95	7.0	67.71	9.7	37.7	67.71	9.67	37.66	37.66	37.66
TPH (diesel)	198	15.0	67.71	4.5	36.6	67.71	4.51	36.63	36.63	36.63
TPH (hexane)	86.2	6.0	67.71	11.3	39.9	67.71	11.28	39.87	39.87	39.87
TPH (toluene)	92.14	7.0	67.71	9.7	36.5	67.71	9.67	36.53	36.53	36.53
TPH (methane)	16	1.0	67.71	67.7	44.4	67.71	67.71	44.40	44.40	44.40
TPH (Jet A Fuel)	177	13.0	67.71	5.2	37.8	67.71	5.21	37.78	37.78	37.78
TPH (Mineral Spirits)	117.81	8.0	67.71	8.5	40.9	67.71	8.46	40.86	40.86	40.86
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			19.6	7.1						
Paraffins			13.3							
Isoparaffins			2.6							
Aromatics			3.8							
Napthlenes			0.0							
Olefins			0.0							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	9.76	4.88	6.02	9.76	4.88	6.02	6.02	6.02
C3 (propane)	44.1	3	3.54	1.18	2.13	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			13.3							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	15.9	80.8
Alkenes	0.0	0.0
Alkynes	0.0	0.0
Cycloalkanes	0.0	0.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	3.8	19.2
Terpenes	0.0	0.0

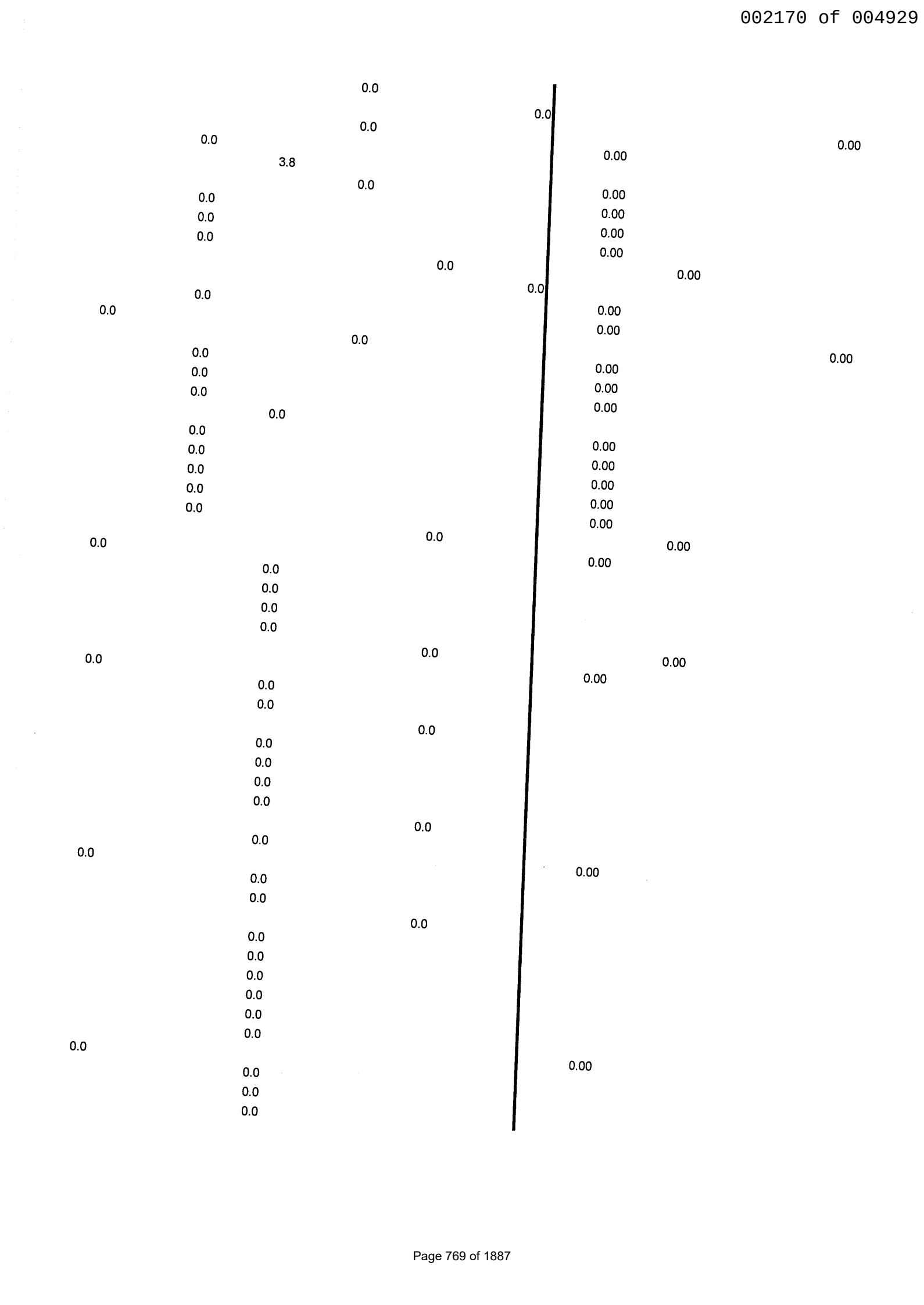
SDG: **225100**
Laboratory Number: **16**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
0.0	2.000	1.00	1.48	1.70	2.96	4.44	5.11	8.9	U	ND		Y
0.0	2.000	1.00	1.48	1.58	2.96	4.44	4.73	8.9	U	ND		Y
68.6	2.000	1.00	1.48	1.82	2.96	4.44	5.47	8.9		=		Y
0.0	2.000	0.67	0.99	1.70	2.96	2.96	5.10	8.9	U	ND		Y
16.6	2.000	0.67	0.99	1.78	2.96	2.96	5.35	8.9	J	=		Y
0.0	2.000	0.50	0.74	1.76	2.96	2.22	5.28	8.9	U	ND		Y
0.0	2.000	2.00	2.96	3.88	2.96	8.87	11.64	8.9	U	ND		Y
0.0	2.000	0.50	0.74	1.70	2.96	2.22	5.10	8.9	U	ND		Y
0.0	2.000	0.50	0.74	1.64	2.96	2.22	4.92	8.9	U	ND		Y
0.0	2.000	0.50	0.74	1.76	2.96	2.22	5.28	8.9	U	ND		Y
0.0	2.000	0.50	0.74	1.70	2.96	2.22	5.10	8.9	U	ND		Y
0.0	2.000	0.50	0.74	1.70	2.96	2.22	5.10	8.9	U	ND		Y
0.0	2.000	1.00	1.48	2.79	2.96	4.44	8.38	8.9	U	ND		Y
0.0	2.000	0.40	0.59	1.70	2.96	1.77	5.10	8.9	U	ND		Y
0.0	2.000	0.67	0.99	2.35	2.96	2.96	7.04	8.9	U	ND		Y
0.0	2.000	0.40	0.59	1.75	2.96	1.77	5.25	8.9	U	ND		Y
0.0	2.000	0.40	0.59	1.70	2.96	1.77	5.10	8.9	U	ND		Y
0.0	2.000	0.67	0.99	2.43	2.96	2.96	7.29	8.9	U	ND		Y
0.0	2.000	0.40	0.59	1.70	2.96	1.77	5.10	8.9	U	ND		Y
0.0	2.000	0.40	0.59	1.75	2.96	1.77	5.24	8.9	U	ND		Y
0.0	2.000	0.40	0.59	1.65	2.96	1.77	4.95	8.9	U	ND		Y
0.0	2.000	0.40	0.59	1.70	2.96	1.77	5.10	8.9	U	ND		Y
0.0	2.000	0.40	0.59	1.70	2.96	1.77	5.10	8.9	U	ND		Y
0.0	2.000	0.50	0.74	2.25	2.96	2.22	6.74	8.9	U	ND		Y
0.0	2.000	0.40	0.59	1.70	2.96	1.77	5.10	8.9	U	ND		Y
0.0	2.000	0.33	0.49	1.74	2.96	1.48	5.23	8.9	U	ND		Y
0.0	2.000	0.40	0.59	1.65	2.96	1.77	4.95	8.9	U	ND		Y
0.0	2.000	0.67	0.99	2.43	2.96	2.96	7.29	8.9	U	ND		Y
0.0	2.000	0.40	0.59	1.70	2.96	1.77	5.10	8.9	U	ND		Y
0.0	2.000	0.40	0.59	2.14	2.96	1.77	6.42	8.9	U	ND		Y
0.0	2.000	0.33	0.49	1.74	2.96	1.48	5.23	8.9	U	ND		Y
0.0	2.000	0.33	0.49	1.74	2.96	1.48	5.23	8.9	U	ND		Y
6.0	2.000	0.33	0.49	1.74	2.96	1.48	5.23	8.9	U	ND		Y
0.0	2.000	0.33	0.49	1.70	2.96	1.48	5.10	8.9	U	ND		Y
0.0	2.000	0.33	0.49	1.74	2.96	1.48	5.23	8.9	U	ND		Y
0.0	2.000	0.33	0.49	2.07	2.96	1.48	6.20	8.9	U	ND		Y

0.0	2.000	0.33	0.49	1.66	2.96	1.48	4.98	8.9	U	ND	Y
0.0	2.000	0.33	0.49	2.07	2.96	1.48	6.20	8.9	U	ND	Y
0.0	2.000	0.33	0.49	1.70	2.96	1.48	5.10	8.9	U	ND	Y
0.0	2.000	0.29	0.42	1.74	2.96	1.27	5.21	8.9	U	ND	Y
8.8	2.000	0.33	0.49	1.58	2.96	1.48	4.73	8.9	J	=	Y
0.0	2.000	0.33	0.49	1.70	2.96	1.48	5.10	8.9	U	ND	Y
0.0	2.000	0.29	0.42	1.74	2.96	1.27	5.21	8.9	U	ND	Y
0.0	2.000	0.29	0.42	1.74	2.96	1.27	5.21	8.9	U	ND	Y
0.0	2.000	0.29	0.42	1.74	2.96	1.27	5.21	8.9	U	ND	Y
0.0	2.000	0.29	0.42	1.70	2.96	1.27	5.10	8.9	U	ND	Y
0.0	2.000	0.33	0.49	2.07	2.96	1.48	6.20	8.9	U	ND	Y
0.0	2.000	0.25	0.37	1.73	2.96	1.11	5.19	8.9	U	ND	Y
0.0	2.000	0.29	0.42	1.74	2.96	1.27	5.21	8.9	U	ND	Y
0.0	2.000	0.29	0.42	1.70	2.96	1.27	5.10	8.9	U	ND	Y
0.0	2.000	0.25	0.37	1.73	2.96	1.11	5.19	8.9	U	ND	Y
0.0	2.000	0.25	0.37	1.73	2.96	1.11	5.19	8.9	U	ND	Y
0.0	2.000	0.25	0.37	1.73	2.96	1.11	5.19	8.9	U	ND	Y
0.0	2.000	0.29	0.42	1.60	2.96	1.27	4.79	8.9	U	ND	Y
0.0	2.000	0.25	0.37	1.73	2.96	1.11	5.19	8.9	U	ND	Y
0.0	2.000	0.25	0.37	1.73	2.96	1.11	5.19	8.9	U	ND	Y
0.0	2.000	0.25	0.37	1.73	2.96	1.11	5.19	8.9	U	ND	Y
0.0	2.000	0.25	0.37	1.73	2.96	1.11	5.19	8.9	U	ND	Y
0.0	2.000	0.25	0.37	1.73	2.96	1.11	5.19	8.9	U	ND	Y
0.0	2.000	0.25	0.37	1.70	2.96	1.11	5.10	8.9	U	ND	Y
0.0	2.000	0.25	0.37	1.73	2.96	1.11	5.19	8.9	U	ND	Y
0.0	2.000	0.25	0.37	1.61	2.96	1.11	4.83	8.9	U	ND	Y
0.0	2.000	0.25	0.37	1.61	2.96	1.11	4.83	8.9	U	ND	Y
0.0	2.000	0.25	0.37	1.58	2.96	1.11	4.74	8.9	U	ND	Y
0.0	2.000	0.25	0.37	1.61	2.96	1.11	4.83	8.9	U	ND	Y
0.0	2.000	0.22	0.33	1.70	2.96	0.99	5.10	8.9	U	ND	Y
0.0	2.000	0.22	0.33	1.73	2.96	0.99	5.18	8.9	U	ND	Y
0.0	2.000	0.22	0.33	1.62	2.96	0.99	4.86	8.9	U	ND	Y
0.0	2.000	0.22	0.33	1.62	2.96	0.99	4.86	8.9	U	ND	Y
0.0	2.000	0.20	0.30	1.65	2.96	0.89	4.95	8.9	U	ND	Y
0.0	2.000	0.22	0.33	1.62	2.96	0.99	4.86	8.9	U	ND	Y
0.0	2.000	0.22	0.33	1.62	2.96	0.99	4.86	8.9	U	ND	Y
0.0	2.000	0.22	0.33	1.62	2.96	0.99	4.86	8.9	U	ND	Y
0.0	2.000	0.22	0.33	1.62	2.96	0.99	4.86	8.9	U	ND	Y
0.0	2.000	0.20	0.30	1.65	2.96	0.89	4.95	8.9	U	ND	Y
0.0	2.000	0.22	0.33	1.62	2.96	0.99	4.86	8.9	U	ND	Y
0.0	2.000	0.20	0.30	1.73	2.96	0.89	5.18	8.9	U	ND	Y
0.0	2.000	0.22	0.33	1.62	2.96	0.99	4.86	8.9	U	ND	Y
0.0	2.000	0.22	0.33	1.59	2.96	0.99	4.78	8.9	U	ND	Y
0.0	2.000	0.20	0.30	1.65	2.96	0.89	4.95	8.9	U	ND	Y
0.0	2.000	0.20	0.30	1.63	2.96	0.89	4.88	8.9	U	ND	Y
0.0	2.000	0.20	0.30	1.63	2.96	0.89	4.88	8.9	U	ND	Y
0.0	2.000	0.20	0.30	1.63	2.96	0.89	4.88	8.9	U	ND	Y
0.0	2.000	0.20	0.30	1.63	2.96	0.89	4.88	8.9	U	ND	Y
0.0	2.000	0.20	0.30	1.63	2.96	0.89	4.88	8.9	U	ND	Y
0.0	2.000	0.20	0.30	1.63	2.96	0.89	4.88	8.9	U	ND	Y
0.0	2.000	0.18	0.27	1.72	2.96	0.81	5.17	8.9	U	ND	Y
0.0	2.000	0.20	0.30	1.63	2.96	0.89	4.88	8.9	U	ND	Y
0.0	2.000	0.20	0.30	1.63	2.96	0.89	4.88	8.9	U	ND	Y
0.0	2.000	0.20	0.30	1.55	2.96	0.89	4.66	8.9	U	ND	Y

0.0	2.000	0.17	0.25	1.72	2.96	0.74	5.16	8.9	U	ND	Y
%											Y
100.0	45.00	7.5	11.09	39.19	66.56	33.3	117.6	199.7	J	=	Y
100.0	45.00	45.0	66.56	43.65	66.56	199.7	130.9	199.7	J	=	Y
100.0	45.00	5.9	8.76	35.89	66.56	26.3	107.7	199.7	J	=	Y
100.0	45.00	6.4	9.51	37.02	66.56	28.5	111.1	199.7	J	=	Y
100.0	45.00	3.0	4.44	36.01	66.56	13.3	108.0	199.7	J	=	Y
100.0	45.00	7.5	11.09	39.19	66.56	33.3	117.6	199.7	J	=	Y
100.0	45.00	6.4	9.51	35.91	66.56	28.5	107.7	199.7	J	=	Y
100.0	45.00	45.0	66.56	43.65	66.56	199.7	130.9	199.7	J	=	Y
100.0	45.00	3.5	5.12	37.14	66.56	15.4	111.4	199.7	J	=	Y
100.0	45.00	5.6	8.32	40.17	66.56	25.0	120.5	199.7	J	=	Y
0.0	45.00	7.5	11.09	39.19	66.56	33.3	117.6	199.7	U	ND	Y
0.0	25.000	3.6	5.28	20.57	36.98	15.8	61.7	110.9	U	ND	Y
%											Y
29.0											Y
67.7											Y
13.1											Y
19.2											Y
0.0											Y
0.0											Y
0.0											Y
%											Y
73.4	5.000	2.5	3.70	4.56	7.40	11.1	13.7	22.2	J	=	Y
26.6	5.000	1.7	2.47	4.46	7.40	7.4	13.4	22.2	U	ND	Y
0.0	25.000	6.3	9.24	22.02	36.98	27.7	66.1	110.9	U	ND	Y
0.0	25.000	5.0	7.40	21.87	36.98	22.2	65.6	110.9	U	ND	Y
0.0	25.000	4.2	6.16	21.77	36.98	18.5	65.3	110.9	U	ND	Y
0.0	25.000	3.6	5.28	21.69	36.98	15.8	65.1	110.9	U	ND	Y
0.0	25.000	3.1	4.62	21.63	36.98	13.9	64.9	110.9	U	ND	Y
0.0	25.000	2.8	4.11	21.60	36.98	12.3	64.8	110.9	U	ND	Y
0.0	25.000	2.5	3.70	21.56	36.98	11.1	64.7	110.9	U	ND	Y
0.0	25.000	2.3	3.36	21.53	36.98	10.1	64.6	110.9	U	ND	Y
0.0	25.000	2.1	3.08	21.51	36.98	9.2	64.5	110.9	U	ND	Y
0.0	25.000	2.1	3.08	21.51	36.98	9.2	64.5	110.9	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.48	4.37	8.87	4.4	13.1	26.6			Y
0.0	6.0	0.9	1.27	5.21	8.87	3.8	15.6	26.6			Y
0.0	6.0	0.7	0.99	5.18	8.87	3.0	15.6	26.6			Y
0.0	6.0	0.5	0.81	4.72	8.87	2.4	14.2	26.6			Y
0.0	6.0	0.7	0.99	4.62	8.87	3.0	13.8	26.6			Y
0.0	6.0	0.5	0.81	4.71	8.87	2.4	14.1	26.6			Y
0.0	2.0	0.3	0.49	1.74	2.96	1.5	5.2	8.9	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
9.8						9.76			
					0.0		0.00		
3.5						3.54			
		0.0				0.00			
					0.0				
					0.0		0.00		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		0.0				0.00			
					0.0		0.00		
					0.0				
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
					0.0				
			0.0						0.00
					0.0				
		0.0				0.00			
		0.0				0.00			
		2.6				2.58			
					0.0		0.00		
0.0						0.00			
					0.0				


0.0
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3.8
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0.0									
13.3	2.6	3.8	0.0	0.0	0.0	0.00	0.0	0.0	0.0
						15.9			

0.00	2.58	
0.00	0.00	
0.00	0.00	
0.00	0.00	
		0.00
		0.00

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
0.00					
0.00					
		0.00			
0.00					
0.00					
0.00					
			0.00		
			0.00		

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0.0	0.0	0.0	0.0	3.8	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**16**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.48
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\left|\frac{(Astdni)}{(Cstdni)}\right|_i$

2) ppbC = $\frac{6 \text{ Carbons} \quad Ansamp \quad CDF \quad 1000}{(Avg\ RFn) \quad SV}$ = **Cn**

3) Amount ppbv = $\frac{Cn}{C\#}$

4) Amount ug/m3 = $\frac{(amt(ppbv) \quad MW}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.09E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.09E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.09E+04	5177	9.8	4.88	6.02
Propene	3	TRG	4.5	2.09E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.09E+04	1876	3.5	1.18	2.13
i-Butane	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.09E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.09E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.09E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.09E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.09E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.09E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.09E+04	1366	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.09E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.09E+04	1998	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.09E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.09E+04	0	2.6	0.43	1.52
2,2,4-Trimethylpentane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.09E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.09E+04	0	3.8	0.63	2.01	
2-Methylheptane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.09E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.09E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.09E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.09E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.09E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.09E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.09E+04	35910	67.7	11.28	39.87	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.09E+04	35910	67.7	67.71	44.40	
Total Volatile Organic Compoun	8	TRG	100.0	2.09E+04	35910	67.7	8.91	36.51	
TPH (gasoline)	7	TRG	95.0	2.09E+04	35910	67.7	9.67	37.66	
TPH (diesel)	15	TRG	198.0	2.09E+04	35910	67.7	4.51	36.63	
TPH (hexane)	6	TRG	86.2	2.09E+04	35910	67.7	11.28	39.87	
TPH (toluene)	7	TRG	92.1	2.09E+04	35910	67.7	9.67	36.53	
TPH (methane)	1	TRG	16.0	2.09E+04	35910	67.7	67.71	44.40	
TPH (Jet A Fuel)	13	TRG	177.0	2.09E+04	35910	67.7	5.21	37.78	
TPH (Mineral Spirits)	8	TRG	117.8	2.09E+04	35910	67.7	8.46	40.86	
C6+ (hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.09E+04		19.6			Sum ID
Paraffins	P	TRG	0.0	2.09E+04		13.3			Sum P
Isoparaffins	I	TRG	0.0	2.09E+04		2.6			Sum I
Aromatics	A	TRG	0.0	2.09E+04		3.8			Sum A
Napthlenes	N	TRG	0.0	2.09E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.09E+04		0.0			Sum O
Oxygenates		TRG	0.0	2.09E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.09E+04	5177	9.8	4.88	6.02	
C3 (propane)	3	TRG	44.1	2.09E+04	1876	3.5	1.18	2.13	
C4 (Butane)	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.09E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.09E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.09E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.09E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.09E+04	7053	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 17

File Name: 2510017A
Description: T-117
Canister: 643
QC_Batch: 033125-GCK

Date Sampled: 03/19/25 **Time:** 13:03
Date Analyzed: 03/31/25 **Time:** 16:05
Can Factor: 1.25
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.25	3.74	ND	1.43	4.30	ND	ND
74-86-2	Acetylene	1.25	3.74	ND	1.33	3.98	ND	ND
74-84-0	Ethane	1.25	3.74	2.36	1.54	4.61	2.91	J
115-07-1	Propene	0.83	2.49	ND	1.43	4.30	ND	ND
74-98-6	Propane	0.83	2.49	ND	1.50	4.50	ND	ND
75-28-5	i-Butane	0.62	1.87	ND	1.48	4.45	ND	ND
106-98-9	1-Butene	0.62	1.87	ND	1.43	4.30	ND	ND
106-97-8	n-Butane	0.62	1.87	ND	1.48	4.45	ND	ND
624-64-6	t-2-Butene	0.62	1.87	ND	1.43	4.30	ND	ND
590-18-1	c-2-Butene	0.62	1.87	ND	1.43	4.30	ND	ND
78-78-4	i-Pentane	0.50	1.49	ND	1.47	4.42	ND	ND
109-67-1	1-Pentene	0.50	1.49	ND	1.43	4.29	ND	ND
109-66-0	n-Pentane	0.50	1.49	ND	1.47	4.42	ND	ND
646-04-8	t-2-Pentene	0.50	1.49	ND	1.43	4.29	ND	ND
627-20-3	c-2-Pentene	0.50	1.49	ND	1.43	4.29	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.25	ND	1.47	4.40	ND	ND
142-29-0	Cyclopentene	0.50	1.49	ND	1.39	4.17	ND	ND
287-92-3	Cyclopentane	0.50	1.49	ND	1.43	4.29	ND	ND
79-29-8	2,3-Dimethylbutane	0.42	1.25	ND	1.47	4.40	ND	ND
107-83-5	2-Methylpentane	0.42	1.25	ND	1.47	4.40	ND	ND
96-14-0	3-Methylpentane	0.42	1.25	ND	1.47	4.40	ND	ND
592-41-6	1-Hexene	0.42	1.25	ND	1.43	4.30	ND	ND
110-54-3	n-Hexane	0.42	1.25	ND	1.47	4.40	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.25	ND	1.40	4.19	ND	ND
96-37-7	Methylcyclopentane	0.42	1.25	ND	1.43	4.30	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.07	ND	1.46	4.38	ND	ND
71-43-2	Benzene	0.42	1.25	ND	1.33	3.99	ND	ND
110-82-7	Cyclohexane	0.42	1.25	ND	1.43	4.30	ND	ND
591-76-4	2-Methylhexane	0.36	1.07	ND	1.46	4.38	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.07	ND	1.46	4.38	ND	ND
589-34-4	3-Methylhexane	0.36	1.07	ND	1.46	4.38	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.31	0.93	ND	1.46	4.37	ND	ND
142-82-5	n-Heptane	0.36	1.07	ND	1.46	4.38	ND	ND
108-87-2	Methylcyclohexane	0.36	1.07	ND	1.43	4.30	ND	ND
592-13-2	2,5-Dimethylhexane	0.31	0.93	ND	1.46	4.37	ND	ND
589-43-5	2,4-Dimethylhexane	0.31	0.93	ND	1.46	4.37	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.31	0.93	ND	1.46	4.37	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.07	ND	1.34	4.03	ND	ND
584-94-1	2,3-Dimethylhexane	0.31	0.93	ND	1.46	4.37	ND	ND
592-27-8	2-Methylheptane	0.31	0.93	ND	1.46	4.37	ND	ND
589-53-7	4-Methylheptane	0.31	0.93	ND	1.46	4.37	ND	ND
589-81-1	3-Methylheptane	0.31	0.93	ND	1.46	4.37	ND	ND
111-65-9	n-Octane	0.31	0.93	ND	1.46	4.37	ND	ND
100-41-4	Ethylbenzene	0.31	0.93	ND	1.36	4.07	ND	ND
108-38-3	m,p-xylene	0.31	0.93	ND	1.36	4.07	ND	ND
100-42-5	Styrene	0.31	0.93	ND	1.33	3.99	ND	ND
95-47-6	o-xylene	0.31	0.93	ND	1.36	4.07	ND	ND
111-84-2	n-Nonane	0.28	0.83	ND	1.46	4.37	ND	ND
98-82-8	i-Propylbenzene	0.28	0.83	ND	1.36	4.09	ND	ND
103-65-1	n-propylbenzene	0.28	0.83	ND	1.36	4.09	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.83	ND	1.36	4.09	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.83	ND	1.36	4.09	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.83	ND	1.36	4.09	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.83	ND	1.36	4.09	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.83	ND	1.36	4.09	ND	ND
124-18-5	n-Decane	0.25	0.75	ND	1.45	4.36	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.83	ND	1.36	4.09	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.75	ND	1.37	4.11	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.75	ND	1.37	4.11	ND	ND
104-51-8	n-Butylbenzene	0.25	0.75	ND	1.37	4.11	ND	ND
1120-21-4	Undecane	0.23	0.68	ND	1.45	4.35	ND	ND
91-20-3	Naphthalene	0.25	0.75	ND	1.31	3.93	ND	ND
112-40-3	Dodecane	0.21	0.62	ND	1.45	4.35	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.34	28.02	ND	33.00	99.00	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	56.04	168.13	ND	36.75	110.25	ND	ND

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **17**
File Name: **2510017A**
Sample ID: **T-117**
Sampled: **3/19/2025**
Received: **03/21/25**
Analyzed: **03/31/25**
QCBatch: **033125-GCK**
Can: **643**
Can Factor: **1.25**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **13:03** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **16:05** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **377602**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C4 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.14	**4.12**	1101	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.18			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.25**	2975	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11						-201	290
74-98-6	Propane	P	5.20	**5.20**	**5.31**	886	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.71**						125	351
67-56-1	Methanol		8.30	8.41						125	401
106-98-9	1-Butene	P	7.29	7.40	**7.34**	881	I	I	H	367	367
106-99-0	1,3-Butadiene		**7.48**	7.59						125	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75	**8.72**		I	I	H	409	410
590-18-1	c-2-Butene	P	9.63	9.63						198	431
64-17-5	Ethanol		10.85	10.85						198	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.05						198	465
67-64-1	Acetone		11.52	11.52						198	476
78-78-4	i-Pentane	P	11.37	11.37						198	473
109-67-1	1-Pentene	P	12.30	12.30	**12.29**	1018	I	I	H	495	495
67-63-0	Isopropanol		12.65	12.65						198	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.36						198	497
109-66-0	n-Pentane	P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.55						162	503
646-04-8	t-2-Pentene	P	12.79	12.79						162	510
627-20-3	c-2-Pentene	P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.55						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.62						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.77						162	537
142-29-0	Cyclopentene	15	**14.61**	14.61						162	551
71-23-8	n-Propanol		**14.75**	14.75						162	558
287-92-3	Cyclopentane	P	14.88	14.88						162	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.06						162	570
107-83-5	2-Methylpentane	P	15.08	15.08						162	571
96-14-0	3-Methylpentane	P	15.55	15.55	**15.61**		I	I	H	585	583
592-41-6	1-Hexene	P	**15.80**	15.80						162	590
110-54-3	n-Hexane	P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						113	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						113	626
71-43-2	Benzene		P	17.87	**17.87**	**17.95**		I	I	H	654	651
110-82-7	Cyclohexane		P	18.14	18.22						113	658
591-76-4	2-Methylhexane		P	18.38	18.46						113	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.53						113	671
589-34-4	3-Methylhexane		P	18.66	18.74						113	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.83						113	687
994-05-8	Tert amyl methyl ether			**18.80**	18.88						113	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.17						113	690
142-82-5	n-Heptane		P	19.41	19.49	**19.49**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.17						19	722
592-13-2	2,5-Dimethylhexane			20.35	20.43						19	734
589-43-5	2,4-Dimethylhexane			20.43	20.51						19	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	21.01						19	753
108-88-3	Toluene		P	21.12	**21.20**	**21.20**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.28						19	763
592-27-8	2-Methylheptane		P	21.33	21.41						19	768
589-53-7	4-Methylheptane	48		**21.48**	21.56						19	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.58						19	772
589-81-1	3-Methylheptane		p	21.55	21.63						19	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.18						19	786
111-65-9	n-Octane		P	22.27	22.35	**22.35**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.83						-60	855
108-38-3	m,p-xylene		P	23.95	24.03						-60	863
100-42-5	Styrene		P	24.40	24.48						-60	881
95-47-6	o-xylene		P	24.57	24.65						-60	886
124-11-8	1-Nonene	64		24.60	24.68						-60	889
111-84-2	n-Nonane		P	24.87	24.95	**24.95**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.44						-180	919
103-65-1	n-propylbenzene		P	25.93	26.01	**26.00**		I	I	H	945	947
80-56-8	a-Pinene			26.09	26.17						-180	950
620-14-4	3-Ethyltoluene		P	26.17	26.25						-180	957
622-96-8	4-Ethyltoluene		P	26.26	26.34						-180	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.53						-180	964
611-14-3	2-Ethyltoluene		P	26.61	26.69						-180	975
127-91-3	b-Pinene			26.80	26.88						-180	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.16						-180	991
124-18-5	n-Decane		P	27.26	27.34	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.63						-48	1014
496-11-7	Indan	81		27.55	27.63						-48	1020
5989-27-5	d-Limonene			27.65	27.73						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.18						-48	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.31						-48	1037
104-51-8	n-Butylbenzene			28.45	28.53						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.68						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.83						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.91						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.53						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.58						-48	1124
91-20-3	Naphthalene		32.25	32.33						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					0		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					28189		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					28189		0			
TVOC	Total Volatile Organic Compounds					0		0			
TPH(g)	TPH (gasoline)					0		0			
TPH(d)	TPH (diesel)					0		0			
TPH(h)	TPH (hexane)					0		0			
TPH(t)	TPH (toluene)					0		0			
TPHC	TPH (methane)					0		0			
TPH(Jet A)	TPH (Jet A Fuel)					0		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					0					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			4076		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			886		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**4962**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	033125-GCK		
Hexane Std Area:	377602		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.25	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.25		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	1.75	0.87	1.01	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	4.72	2.36	2.91	4.72	2.36	2.91	2.91	2.91
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	1.41	0.47	0.85	ND	ND	ND	0	
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	1.40	0.35	0.80	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	1.62	0.32	0.93	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	44.75	7.5	26.4	ND	ND	ND	0	
Total Non-Methane Hydrocarbons	16	1.0	44.75	44.8	29.3	ND	ND	ND	0	
Total Volatile Organic Compounds	100	7.6	0.00	0.0	0.0	ND	ND	ND	0	
TPH (gasoline)	95	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (diesel)	198	15.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (toluene)	92.14	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (methane)	16	1.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Jet A Fuel)	177	13.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Mineral Spirits)	117.81	8.0	0.00	0.0	0.0	ND	ND	ND	0	
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			10.9	4.4						
Paraffins			6.1							
Isoparaffins			0.0							
Aromatics			0.0							
Napthlenes			0.0							
Olefins			4.8							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	6.47	3.24	3.99	6.47	3.24	3.99	3.99	3.99
C3 (propane)	44.1	3	1.41	0.47	0.85	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			7.9							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	6.1	56.3
Alkenes	4.8	43.7
Alkynes	0.0	0.0
Cycloalkanes	0.0	0.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	0.0	0.0
Terpenes	0.0	0.0

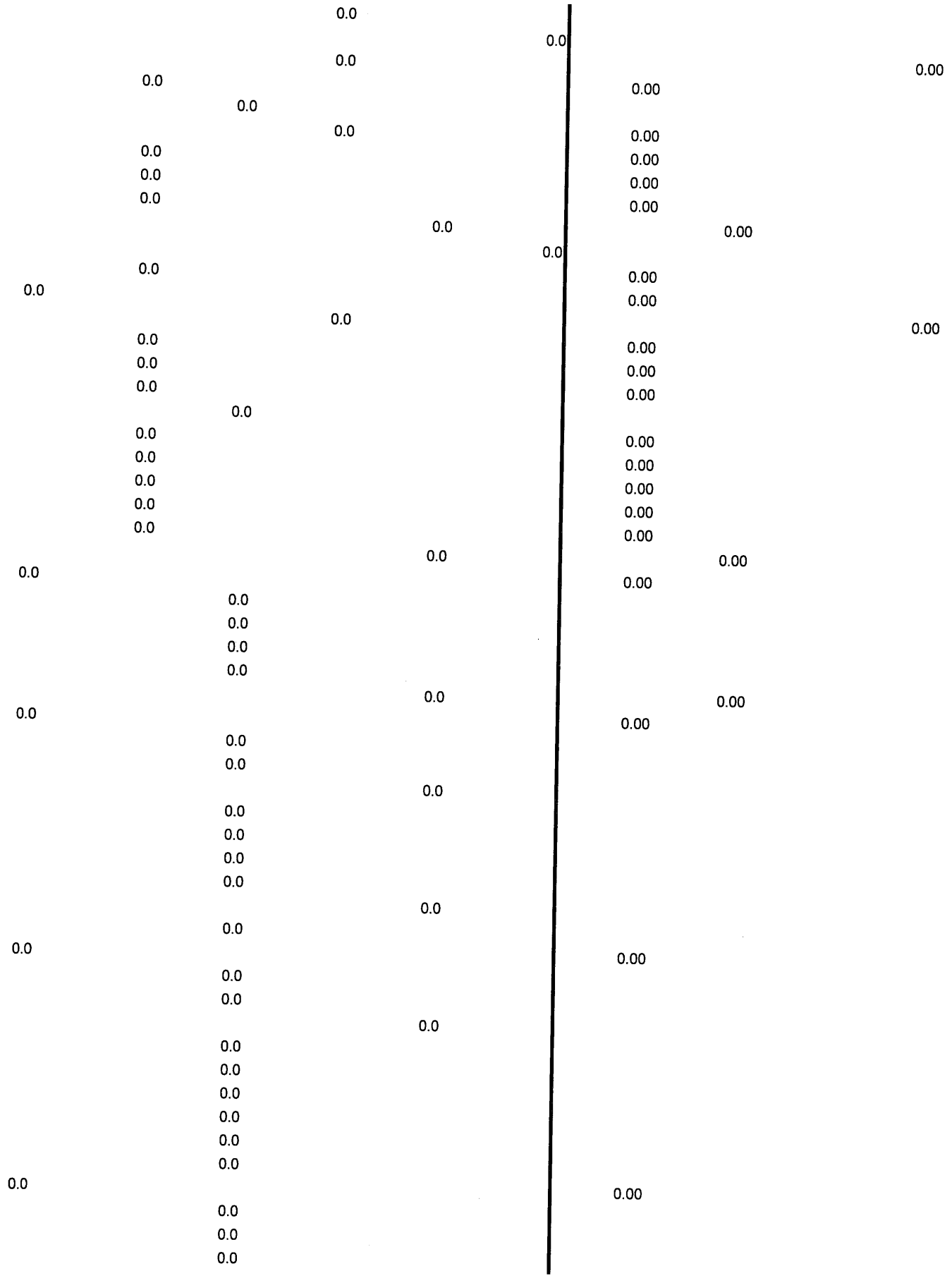
SDG: **225100**
Laboratory Number: **17**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
20.0	2.000	1.00	1.25	1.43	2.49	3.74	4.30	7.5	U	ND		Y
0.0	2.000	1.00	1.25	1.33	2.49	3.74	3.98	7.5	U	ND		Y
53.9	2.000	1.00	1.25	1.54	2.49	3.74	4.61	7.5	J	=		Y
0.0	2.000	0.67	0.83	1.43	2.49	2.49	4.30	7.5	U	ND		Y
10.7	2.000	0.67	0.83	1.50	2.49	2.49	4.50	7.5	U	ND		Y
0.0	2.000	0.50	0.62	1.48	2.49	1.87	4.45	7.5	U	ND		Y
0.0	2.000	2.00	2.49	3.27	2.49	7.47	9.80	7.5	U	ND		Y
8.0	2.000	0.50	0.62	1.43	2.49	1.87	4.30	7.5	U	ND		Y
0.0	2.000	0.50	0.62	1.38	2.49	1.87	4.14	7.5	U	ND		Y
0.0	2.000	0.50	0.62	1.48	2.49	1.87	4.45	7.5	U	ND		Y
0.0	2.000	0.50	0.62	1.43	2.49	1.87	4.30	7.5	U	ND		Y
0.0	2.000	0.50	0.62	1.43	2.49	1.87	4.30	7.5	U	ND		Y
0.0	2.000	1.00	1.25	2.35	2.49	3.74	7.06	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5	U	ND		Y
0.0	2.000	0.67	0.83	1.98	2.49	2.49	5.93	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.47	2.49	1.49	4.42	7.5	U	ND		Y
7.4	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5	U	ND		Y
0.0	2.000	0.67	0.83	2.05	2.49	2.49	6.14	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.47	2.49	1.49	4.42	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.39	2.49	1.49	4.17	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5	U	ND		Y
0.0	2.000	0.50	0.62	1.89	2.49	1.87	5.67	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.47	2.49	1.25	4.40	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.39	2.49	1.49	4.17	7.5	U	ND		Y
0.0	2.000	0.67	0.83	2.05	2.49	2.49	6.14	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.80	2.49	1.49	5.40	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.47	2.49	1.25	4.40	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.47	2.49	1.25	4.40	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.47	2.49	1.25	4.40	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.43	2.49	1.25	4.30	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.47	2.49	1.25	4.40	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.74	2.49	1.25	5.22	7.5	U	ND		Y

0.0	2.000	0.33	0.42	1.40	2.49	1.25	4.19	7.5	U	ND	Y
0.0	2.000	0.33	0.42	1.74	2.49	1.25	5.22	7.5	U	ND	Y
0.0	2.000	0.33	0.42	1.43	2.49	1.25	4.30	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.46	2.49	1.07	4.38	7.5	U	ND	Y
0.0	2.000	0.33	0.42	1.33	2.49	1.25	3.99	7.5	U	ND	Y
0.0	2.000	0.33	0.42	1.43	2.49	1.25	4.30	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.46	2.49	1.07	4.38	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.46	2.49	1.07	4.38	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.46	2.49	1.07	4.38	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.43	2.49	1.07	4.30	7.5	U	ND	Y
0.0	2.000	0.33	0.42	1.74	2.49	1.25	5.22	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.46	2.49	1.07	4.38	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.43	2.49	1.07	4.30	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.34	2.49	1.07	4.03	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.49	0.93	4.30	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.36	2.49	0.93	4.07	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.36	2.49	0.93	4.07	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.33	2.49	0.93	3.99	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.36	2.49	0.93	4.07	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.43	2.49	0.83	4.29	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.46	2.49	0.83	4.37	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.09	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.09	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.49	0.75	4.17	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.09	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.09	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.09	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.09	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.49	0.75	4.17	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.09	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.45	2.49	0.75	4.36	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.09	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.34	2.49	0.83	4.02	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.49	0.75	4.17	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.11	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.11	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.11	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.11	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.11	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.11	7.5	U	ND	Y
0.0	2.000	0.18	0.23	1.45	2.49	0.68	4.35	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.11	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.11	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.31	2.49	0.75	3.93	7.5	U	ND	Y

0.0	2.000	0.17	0.21	1.45	2.49	0.62	4.35	7.5	U	ND	Y
%											Y
100.0	45.00	7.5	9.34	33.00	56.04	28.0	99.0	168.1	U	ND	Y
100.0	45.00	45.0	56.04	36.75	56.04	168.1	110.2	168.1	U	ND	Y
0.0	45.00	5.9	7.37	30.22	56.04	22.1	90.7	168.1	U	ND	Y
0.0	45.00	6.4	8.01	31.17	56.04	24.0	93.5	168.1	U	ND	Y
0.0	45.00	3.0	3.74	30.32	56.04	11.2	91.0	168.1	U	ND	Y
0.0	45.00	7.5	9.34	33.00	56.04	28.0	99.0	168.1	U	ND	Y
0.0	45.00	6.4	8.01	30.23	56.04	24.0	90.7	168.1	U	ND	Y
0.0	45.00	45.0	56.04	36.75	56.04	168.1	110.2	168.1	U	ND	Y
0.0	45.00	3.5	4.31	31.27	56.04	12.9	93.8	168.1	U	ND	Y
0.0	45.00	5.6	7.01	33.82	56.04	21.0	101.5	168.1	U	ND	Y
0.0	45.00	7.5	9.34	33.00	56.04	28.0	99.0	168.1	U	ND	Y
0.0	25.000	3.6	4.45	17.32	31.14	13.3	52.0	93.4	U	ND	Y
%											Y
24.3											Y
56.3											Y
0.0											Y
0.0											Y
0.0											Y
43.7											Y
0.0											Y
%											Y
82.1	5.000	2.5	3.11	3.84	6.23	9.3	11.5	18.7	J	=	Y
17.9	5.000	1.7	2.08	3.75	6.23	6.2	11.3	18.7	U	ND	Y
0.0	25.000	6.3	7.78	18.54	31.14	23.4	55.6	93.4	U	ND	Y
0.0	25.000	5.0	6.23	18.41	31.14	18.7	55.2	93.4	U	ND	Y
0.0	25.000	4.2	5.19	18.33	31.14	15.6	55.0	93.4	U	ND	Y
0.0	25.000	3.6	4.45	18.27	31.14	13.3	54.8	93.4	U	ND	Y
0.0	25.000	3.1	3.89	18.22	31.14	11.7	54.6	93.4	U	ND	Y
0.0	25.000	2.8	3.46	18.19	31.14	10.4	54.6	93.4	U	ND	Y
0.0	25.000	2.5	3.11	18.16	31.14	9.3	54.5	93.4	U	ND	Y
0.0	25.000	2.3	2.83	18.13	31.14	8.5	54.4	93.4	U	ND	Y
0.0	25.000	2.1	2.59	18.11	31.14	7.8	54.3	93.4	U	ND	Y
0.0	25.000	2.1	2.59	18.11	31.14	7.8	54.3	93.4	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.25	3.68	7.47	3.7	11.0	22.4			Y
0.0	6.0	0.9	1.07	4.38	7.47	3.2	13.2	22.4			Y
0.0	6.0	0.7	0.83	4.37	7.47	2.5	13.1	22.4			Y
0.0	6.0	0.5	0.68	3.98	7.47	2.0	11.9	22.4			Y
0.0	6.0	0.7	0.83	3.89	7.47	2.5	11.7	22.4			Y
0.0	6.0	0.5	0.68	3.96	7.47	2.0	11.9	22.4			Y
0.0	2.0	0.3	0.42	1.47	2.49	1.2	4.4	7.5	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					1.7		1.75		
					0.0			0.00	
4.7						4.72			
					0.0		0.00		
1.4						1.41			
		0.0				0.00			
					0.0				
					1.4		1.40		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		0.0				0.00			
					1.6		1.62		
					0.0				
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
					0.0				
			0.0						0.00
					0.0				
		0.0				0.00			
		0.0				0.00			
		0.0				0.00			
					0.0		0.00		
0.0						0.00			
					0.0				


0.0
0.0
0.0

0.0						0.00			
6.1	0.0	0.0	0.0	4.8	0.0	6.1	4.8	0.0	0.0

0.00	0.00		
0.00	0.00		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
0.00	0.00	0.00	0.00	0.00	0.00

0.00

0.00

0.00

0.00

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SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**17**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.25	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.09E+04	1101	1.7	0.87	1.01
Acetylene	2	TRG	26.0	2.09E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.09E+04	2975	4.7	2.36	2.91
Propene	3	TRG	4.5	2.09E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.09E+04	886	1.4	0.47	0.85
i-Butane	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.09E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.09E+04	881	1.4	0.35	0.80
n-Butane	4	TRG	54.1	2.09E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.09E+04	1018	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.09E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.09E+04	0	1.6	0.32	0.93
Isoprene	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.09E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.09E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.09E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.09E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.09E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.09E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.09E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.09E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.09E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.09E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.09E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.09E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.09E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.09E+04	28189	44.8	7.46	26.35	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.09E+04	28189	44.8	44.75	29.35	
Total Volatile Organic Compoun	8	TRG	100.0	2.09E+04	0	0.0	0.00	0.00	
TPH (gasoline)	7	TRG	95.0	2.09E+04	0	0.0	0.00	0.00	
TPH (diesel)	15	TRG	198.0	2.09E+04	0	0.0	0.00	0.00	
TPH (hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	
TPH (toluene)	7	TRG	92.1	2.09E+04	0	0.0	0.00	0.00	
TPH (methane)	1	TRG	16.0	2.09E+04	0	0.0	0.00	0.00	
TPH (Jet A Fuel)	13	TRG	177.0	2.09E+04	0	0.0	0.00	0.00	
TPH (Mineral Spirits)	8	TRG	117.8	2.09E+04	0	0.0	0.00	0.00	
C6+ (hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.09E+04		10.9			Sum ID
Paraffins	P	TRG	0.0	2.09E+04		6.1			Sum P
Isoparaffins	I	TRG	0.0	2.09E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.09E+04		0.0			Sum A
Napthlenes	N	TRG	0.0	2.09E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.09E+04		4.8			Sum O
Oxygenates		TRG	0.0	2.09E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.09E+04	4076	6.5	3.24	3.99	
C3 (propane)	3	TRG	44.1	2.09E+04	886	1.4	0.47	0.85	
C4 (Butane)	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.09E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.09E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.09E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.09E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.09E+04	4962	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

SDG: 225100
Analytical Method: TO-14FID
Laboratory Number: 18

File Name: 2510018A
Description: T-118
Canister: 553
QC_Batch: 033125-GCK

Date Sampled: 03/19/25 **Time:** 13:25
Date Analyzed: 03/31/25 **Time:** 11:38
Can Factor: 1.14
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.14	3.41	ND	1.31	3.93	ND	ND
74-86-2	Acetylene	1.14	3.41	ND	1.21	3.64	ND	ND
74-84-0	Ethane	1.14	3.41	ND	1.40	4.21	ND	ND
115-07-1	Propene	0.76	2.28	ND	1.31	3.93	ND	ND
74-98-6	Propane	0.76	2.28	ND	1.37	4.11	ND	ND
75-28-5	i-Butane	0.57	1.71	ND	1.35	4.06	ND	ND
106-98-9	1-Butene	0.57	1.71	ND	1.31	3.92	ND	ND
106-97-8	n-Butane	0.57	1.71	ND	1.35	4.06	ND	ND
624-64-6	t-2-Butene	0.57	1.71	ND	1.31	3.92	ND	ND
590-18-1	c-2-Butene	0.57	1.71	ND	1.31	3.92	ND	ND
78-78-4	i-Pentane	0.46	1.37	ND	1.35	4.04	ND	ND
109-67-1	1-Pentene	0.46	1.37	ND	1.31	3.92	ND	ND
109-66-0	n-Pentane	0.46	1.37	ND	1.34	4.03	ND	ND
646-04-8	t-2-Pentene	0.46	1.37	ND	1.31	3.92	ND	ND
627-20-3	c-2-Pentene	0.46	1.37	ND	1.31	3.92	ND	ND
75-83-2	2,2-Dimethylbutane	0.38	1.14	ND	1.34	4.02	ND	ND
142-29-0	Cyclopentene	0.46	1.37	ND	1.27	3.81	ND	ND
287-92-3	Cyclopentane	0.46	1.37	ND	1.31	3.92	ND	ND
79-29-8	2,3-Dimethylbutane	0.38	1.14	ND	1.34	4.02	ND	ND
107-83-5	2-Methylpentane	0.38	1.14	ND	1.34	4.02	ND	ND
96-14-0	3-Methylpentane	0.38	1.14	ND	1.34	4.02	ND	ND
592-41-6	1-Hexene	0.38	1.14	ND	1.31	3.93	ND	ND
110-54-3	n-Hexane	0.38	1.14	ND	1.34	4.02	ND	ND
1120-62-3	3-Methylcyclopentene	0.38	1.14	ND	1.28	3.83	ND	ND
96-37-7	Methylcyclopentane	0.38	1.14	ND	1.31	3.93	ND	ND
108-08-7	2,4-Dimethylpentane	0.33	0.98	ND	1.34	4.01	ND	ND
71-43-2	Benzene	0.38	1.14	ND	1.21	3.64	ND	ND
110-82-7	Cyclohexane	0.38	1.14	ND	1.31	3.93	ND	ND
591-76-4	2-Methylhexane	0.33	0.98	ND	1.34	4.01	ND	ND
565-59-3	2,3-Dimethylpentane	0.33	0.98	ND	1.34	4.01	ND	ND
589-34-4	3-Methylhexane	0.33	0.98	ND	1.34	4.01	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.28	0.85	ND	1.33	3.99	ND	ND
142-82-5	n-Heptane	0.33	0.98	ND	1.34	4.01	ND	ND
108-87-2	Methylcyclohexane	0.33	0.98	ND	1.31	3.93	ND	ND
592-13-2	2,5-Dimethylhexane	0.28	0.85	ND	1.33	3.99	ND	ND
589-43-5	2,4-Dimethylhexane	0.28	0.85	ND	1.33	3.99	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.28	0.85	ND	1.33	3.99	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.33	0.98	ND	1.23	3.68	ND	ND
584-94-1	2,3-Dimethylhexane	0.28	0.85	ND	1.33	3.99	ND	ND
592-27-8	2-Methylheptane	0.28	0.85	ND	1.33	3.99	ND	ND
589-53-7	4-Methylheptane	0.28	0.85	ND	1.33	3.99	ND	ND
589-81-1	3-Methylheptane	0.28	0.85	ND	1.33	3.99	ND	ND
111-65-9	n-Octane	0.28	0.85	ND	1.33	3.99	ND	ND
100-41-4	Ethylbenzene	0.28	0.85	ND	1.24	3.71	ND	ND
108-38-3	m,p-xylene	0.28	0.85	ND	1.24	3.71	ND	ND
100-42-5	Styrene	0.28	0.85	ND	1.21	3.64	ND	ND
95-47-6	o-xylene	0.28	0.85	ND	1.24	3.71	ND	ND
111-84-2	n-Nonane	0.25	0.76	ND	1.33	3.99	ND	ND
98-82-8	i-Propylbenzene	0.25	0.76	ND	1.25	3.74	ND	ND
103-65-1	n-propylbenzene	0.25	0.76	ND	1.25	3.74	ND	ND
620-14-4	3-Ethyltoluene	0.25	0.76	ND	1.25	3.74	ND	ND
622-96-8	4-Ethyltoluene	0.25	0.76	ND	1.25	3.74	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.25	0.76	ND	1.25	3.74	ND	ND
611-14-3	2-Ethyltoluene	0.25	0.76	ND	1.25	3.74	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.25	0.76	ND	1.25	3.74	ND	ND
124-18-5	n-Decane	0.23	0.68	ND	1.33	3.98	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.25	0.76	ND	1.25	3.74	ND	ND
141-93-5	1,3-Diethylbenzene	0.23	0.68	ND	1.25	3.76	ND	ND
105-05-5	1,4-Diethylbenzene	0.23	0.68	ND	1.25	3.76	ND	ND
104-51-8	n-Butylbenzene	0.23	0.68	ND	1.25	3.76	ND	ND
1120-21-4	Undecane	0.21	0.62	ND	1.33	3.98	ND	ND
91-20-3	Naphthalene	0.23	0.68	ND	1.20	3.59	ND	ND
112-40-3	Dodecane	0.19	0.57	ND	1.32	3.97	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	8.53	25.60	ND	30.15	90.45	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	51.21	153.62	ND	33.58	100.73	ND	ND

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **18**
File Name: **2510018A**
Sample ID: **T-118**
Sampled: **3/19/2025**
Received: **03/21/25**
Analyzed: **03/31/25**
QCBatch: **033125-GCK**
Can: **553**
Can Factor: **1.14**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **13:25** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **11:38** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **377602**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.06			NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.10			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.17**		I	I	H	200	200
115-07-1	Propene	P	5.11	5.11						-204	290
74-98-6	Propane	P	5.20	**5.20**	**5.20**		I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.60**						134	351
67-56-1	Methanol		8.30	8.30						134	401
106-98-9	1-Butene	P	7.29	7.29	**7.28**		I	I	H	366	367
106-99-0	1,3-Butadiene		**7.48**	7.48						134	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75						198	410
590-18-1	c-2-Butene	P	9.63	9.63						198	431
64-17-5	Ethanol		10.85	10.85						198	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.05						198	465
67-64-1	Acetone		11.52	11.52						198	476
78-78-4	i-Pentane	P	11.37	11.37						198	473
109-67-1	1-Pentene	P	12.30	12.30						198	495
67-63-0	Isopropanol		12.65	12.65						198	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.36						198	497
109-66-0	n-Pentane	P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.55						162	503
646-04-8	t-2-Pentene	P	12.79	12.79						162	510
627-20-3	c-2-Pentene	P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.55						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.62						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.77						162	537
142-29-0	Cyclopentene	15	**14.61**	14.61						162	551
71-23-8	n-Propanol		**14.75**	14.75						162	558
287-92-3	Cyclopentane	P	14.88	14.88						162	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.06						162	570
107-83-5	2-Methylpentane	P	15.08	15.08						162	571
96-14-0	3-Methylpentane	P	15.55	15.55						162	583
592-41-6	1-Hexene	P	**15.80**	15.80						162	590
110-54-3	n-Hexane	P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						101	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						101	626
71-43-2	Benzene		P	17.87	**17.87**	**17.87**		I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.14						101	658
591-76-4	2-Methylhexane		P	18.38	18.38						101	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.45						101	671
589-34-4	3-Methylhexane		P	18.66	18.66						101	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.75						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.80						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.09						101	690
142-82-5	n-Heptane		P	19.41	19.41	**19.41**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.09						21	722
592-13-2	2,5-Dimethylhexane			20.35	20.35						21	734
589-43-5	2,4-Dimethylhexane			20.43	20.43						21	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.93						21	753
108-88-3	Toluene		P	21.12	**21.12**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						21	763
592-27-8	2-Methylheptane		P	21.33	21.33						21	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						21	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						21	772
589-81-1	3-Methylheptane		p	21.55	21.55						21	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						21	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75						-57	855
108-38-3	m,p-xylene		P	23.95	23.95						-57	863
100-42-5	Styrene		P	24.40	24.40						-57	881
95-47-6	o-xylene		P	24.57	24.57						-57	886
124-11-8	1-Nonene	64		24.60	24.60						-57	889
111-84-2	n-Nonane		P	24.87	24.87	**24.87**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36						-141	919
103-65-1	n-propylbenzene		P	25.93	25.93						-141	947
80-56-8	a-Pinene			26.09	26.09						-141	950
620-14-4	3-Ethyltoluene		P	26.17	26.17						-141	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-141	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45						-141	964
611-14-3	2-Ethyltoluene		P	26.61	26.61						-141	975
127-91-3	b-Pinene			26.80	26.80						-141	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08						-141	991
124-18-5	n-Decane		P	27.26	27.26	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-48	1014
496-11-7	Indan	81		27.55	27.55						-48	1020
5989-27-5	d-Limonene			27.65	27.65						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10						-48	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-48	1037
104-51-8	n-Butylbenzene			28.45	28.45						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					0		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					14110		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					14110		0			
TVOC	Total Volatile Organic Compounds					0		0			
TPH(g)	TPH (gasoline)					0		0			
TPH(d)	TPH (diesel)					0		0			
TPH(h)	TPH (hexane)					0		0			
TPH(t)	TPH (toluene)					0		0			
TPHC	TPH (methane)					0		0			
TPH(Jet A)	TPH (Jet A Fuel)					0		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					0					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			0		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			0		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**0**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	033125-GCK		
Hexane Std Area:	377602		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.14	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.14		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3
Total Non-Methane Hydrocarbons	86.2	6.0	20.47	3.4	12.1	ND	ND	ND	0
Total Non-Methane Hydrocarbons	16	1.0	20.47	20.5	13.4	ND	ND	ND	0
Total Volatile Organic Compounds	100	7.6	0.00	0.0	0.0	ND	ND	ND	0
TPH (gasoline)	95	7.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (diesel)	198	15.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (toluene)	92.14	7.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (methane)	16	1.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (Jet A Fuel)	177	13.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (Mineral Spirits)	117.81	8.0	0.00	0.0	0.0	ND	ND	ND	0
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3
Total Identified			0.0	0.0					
Paraffins			0.0						
Isoparaffins			0.0						
Aromatics			0.0						
Napthlenes			0.0						
Olefins			0.0						
Oxygenates			0.0						
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
C3 (propane)	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			0.0						
Totals from Identified:									
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00				
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00				
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00				
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00				
Aromatic C8-C10	114.2	9	0.0	0.00	0.00				
Aromatic C10-12	142.3	11	0.0	0.00	0.00				
n-Hexane	86.18	6.0	0.0	0.00	0.00				
TNMHC - C6	86.2	6							
TNMHC - C1	16	1							
TVOC	86.2	6							
TPH(g)	95	7							
TPH(d)	198	15							
TPH(h)	86.2	6							
TPH(t)	92.14	7							
TPHC	16	1							
TPH(Jet A)	177	13							

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	0.0	0.0
Alkenes	0.0	0.0
Alkynes	0.0	0.0
Cycloalkanes	0.0	0.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	0.0	0.0
Terpenes	0.0	0.0

SDG: **225100**
Laboratory Number: **18**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
0.0	2.000	1.00	1.14	1.31	2.28	3.41	3.93	6.8	U	ND		Y
0.0	2.000	1.00	1.14	1.21	2.28	3.41	3.64	6.8	U	ND		Y
0.0	2.000	1.00	1.14	1.40	2.28	3.41	4.21	6.8	U	ND		Y
0.0	2.000	0.67	0.76	1.31	2.28	2.28	3.93	6.8	U	ND		Y
0.0	2.000	0.67	0.76	1.37	2.28	2.28	4.11	6.8	U	ND		Y
0.0	2.000	0.50	0.57	1.35	2.28	1.71	4.06	6.8	U	ND		Y
0.0	2.000	2.00	2.28	2.98	2.28	6.83	8.95	6.8	U	ND		Y
0.0	2.000	0.50	0.57	1.31	2.28	1.71	3.92	6.8	U	ND		Y
0.0	2.000	0.50	0.57	1.26	2.28	1.71	3.78	6.8	U	ND		Y
0.0	2.000	0.50	0.57	1.35	2.28	1.71	4.06	6.8	U	ND		Y
0.0	2.000	0.50	0.57	1.31	2.28	1.71	3.92	6.8	U	ND		Y
0.0	2.000	0.50	0.57	1.31	2.28	1.71	3.92	6.8	U	ND		Y
0.0	2.000	1.00	1.14	2.15	2.28	3.41	6.45	6.8	U	ND		Y
0.0	2.000	0.40	0.46	1.31	2.28	1.37	3.92	6.8	U	ND		Y
0.0	2.000	0.67	0.76	1.81	2.28	2.28	5.42	6.8	U	ND		Y
0.0	2.000	0.40	0.46	1.35	2.28	1.37	4.04	6.8	U	ND		Y
0.0	2.000	0.40	0.46	1.31	2.28	1.37	3.92	6.8	U	ND		Y
0.0	2.000	0.67	0.76	1.87	2.28	2.28	5.61	6.8	U	ND		Y
0.0	2.000	0.40	0.46	1.31	2.28	1.37	3.92	6.8	U	ND		Y
0.0	2.000	0.40	0.46	1.34	2.28	1.37	4.03	6.8	U	ND		Y
0.0	2.000	0.40	0.46	1.27	2.28	1.37	3.81	6.8	U	ND		Y
0.0	2.000	0.40	0.46	1.31	2.28	1.37	3.92	6.8	U	ND		Y
0.0	2.000	0.40	0.46	1.31	2.28	1.37	3.92	6.8	U	ND		Y
0.0	2.000	0.50	0.57	1.73	2.28	1.71	5.18	6.8	U	ND		Y
0.0	2.000	0.40	0.46	1.31	2.28	1.37	3.92	6.8	U	ND		Y
0.0	2.000	0.33	0.38	1.34	2.28	1.14	4.02	6.8	U	ND		Y
0.0	2.000	0.40	0.46	1.27	2.28	1.37	3.81	6.8	U	ND		Y
0.0	2.000	0.67	0.76	1.87	2.28	2.28	5.61	6.8	U	ND		Y
0.0	2.000	0.40	0.46	1.31	2.28	1.37	3.92	6.8	U	ND		Y
0.0	2.000	0.40	0.46	1.65	2.28	1.37	4.94	6.8	U	ND		Y
0.0	2.000	0.33	0.38	1.34	2.28	1.14	4.02	6.8	U	ND		Y
0.0	2.000	0.33	0.38	1.34	2.28	1.14	4.02	6.8	U	ND		Y
0.0	2.000	0.33	0.38	1.34	2.28	1.14	4.02	6.8	U	ND		Y
0.0	2.000	0.33	0.38	1.31	2.28	1.14	3.93	6.8	U	ND		Y
0.0	2.000	0.33	0.38	1.34	2.28	1.14	4.02	6.8	U	ND		Y
0.0	2.000	0.33	0.38	1.59	2.28	1.14	4.77	6.8	U	ND		Y

0.0	2.000	0.33	0.38	1.28	2.28	1.14	3.83	6.8	U	ND	Y
0.0	2.000	0.33	0.38	1.59	2.28	1.14	4.77	6.8	U	ND	Y
0.0	2.000	0.33	0.38	1.31	2.28	1.14	3.93	6.8	U	ND	Y
0.0	2.000	0.29	0.33	1.34	2.28	0.98	4.01	6.8	U	ND	Y
0.0	2.000	0.33	0.38	1.21	2.28	1.14	3.64	6.8	U	ND	Y
0.0	2.000	0.33	0.38	1.31	2.28	1.14	3.93	6.8	U	ND	Y
0.0	2.000	0.29	0.33	1.34	2.28	0.98	4.01	6.8	U	ND	Y
0.0	2.000	0.29	0.33	1.34	2.28	0.98	4.01	6.8	U	ND	Y
0.0	2.000	0.29	0.33	1.34	2.28	0.98	4.01	6.8	U	ND	Y
0.0	2.000	0.29	0.33	1.31	2.28	0.98	3.93	6.8	U	ND	Y
0.0	2.000	0.33	0.38	1.59	2.28	1.14	4.77	6.8	U	ND	Y
0.0	2.000	0.25	0.28	1.33	2.28	0.85	3.99	6.8	U	ND	Y
0.0	2.000	0.29	0.33	1.34	2.28	0.98	4.01	6.8	U	ND	Y
0.0	2.000	0.29	0.33	1.31	2.28	0.98	3.93	6.8	U	ND	Y
0.0	2.000	0.25	0.28	1.33	2.28	0.85	3.99	6.8	U	ND	Y
0.0	2.000	0.25	0.28	1.33	2.28	0.85	3.99	6.8	U	ND	Y
0.0	2.000	0.25	0.28	1.33	2.28	0.85	3.99	6.8	U	ND	Y
0.0	2.000	0.29	0.33	1.23	2.28	0.98	3.68	6.8	U	ND	Y
0.0	2.000	0.25	0.28	1.33	2.28	0.85	3.99	6.8	U	ND	Y
0.0	2.000	0.25	0.28	1.33	2.28	0.85	3.99	6.8	U	ND	Y
0.0	2.000	0.25	0.28	1.33	2.28	0.85	3.99	6.8	U	ND	Y
0.0	2.000	0.25	0.28	1.33	2.28	0.85	3.99	6.8	U	ND	Y
0.0	2.000	0.25	0.28	1.33	2.28	0.85	3.99	6.8	U	ND	Y
0.0	2.000	0.25	0.28	1.31	2.28	0.85	3.92	6.8	U	ND	Y
0.0	2.000	0.25	0.28	1.33	2.28	0.85	3.99	6.8	U	ND	Y
0.0	2.000	0.25	0.28	1.24	2.28	0.85	3.71	6.8	U	ND	Y
0.0	2.000	0.25	0.28	1.24	2.28	0.85	3.71	6.8	U	ND	Y
0.0	2.000	0.25	0.28	1.21	2.28	0.85	3.64	6.8	U	ND	Y
0.0	2.000	0.25	0.28	1.24	2.28	0.85	3.71	6.8	U	ND	Y
0.0	2.000	0.22	0.25	1.31	2.28	0.76	3.92	6.8	U	ND	Y
0.0	2.000	0.22	0.25	1.33	2.28	0.76	3.99	6.8	U	ND	Y
0.0	2.000	0.22	0.25	1.25	2.28	0.76	3.74	6.8	U	ND	Y
0.0	2.000	0.22	0.25	1.25	2.28	0.76	3.74	6.8	U	ND	Y
0.0	2.000	0.20	0.23	1.27	2.28	0.68	3.81	6.8	U	ND	Y
0.0	2.000	0.22	0.25	1.25	2.28	0.76	3.74	6.8	U	ND	Y
0.0	2.000	0.22	0.25	1.25	2.28	0.76	3.74	6.8	U	ND	Y
0.0	2.000	0.22	0.25	1.25	2.28	0.76	3.74	6.8	U	ND	Y
0.0	2.000	0.22	0.25	1.25	2.28	0.76	3.74	6.8	U	ND	Y
0.0	2.000	0.20	0.23	1.27	2.28	0.68	3.81	6.8	U	ND	Y
0.0	2.000	0.22	0.25	1.25	2.28	0.76	3.74	6.8	U	ND	Y
0.0	2.000	0.20	0.23	1.33	2.28	0.68	3.98	6.8	U	ND	Y
0.0	2.000	0.22	0.25	1.25	2.28	0.76	3.74	6.8	U	ND	Y
0.0	2.000	0.22	0.25	1.22	2.28	0.76	3.67	6.8	U	ND	Y
0.0	2.000	0.20	0.23	1.27	2.28	0.68	3.81	6.8	U	ND	Y
0.0	2.000	0.20	0.23	1.25	2.28	0.68	3.76	6.8	U	ND	Y
0.0	2.000	0.20	0.23	1.25	2.28	0.68	3.76	6.8	U	ND	Y
0.0	2.000	0.20	0.23	1.25	2.28	0.68	3.76	6.8	U	ND	Y
0.0	2.000	0.20	0.23	1.25	2.28	0.68	3.76	6.8	U	ND	Y
0.0	2.000	0.20	0.23	1.25	2.28	0.68	3.76	6.8	U	ND	Y
0.0	2.000	0.20	0.23	1.25	2.28	0.68	3.76	6.8	U	ND	Y
0.0	2.000	0.18	0.21	1.33	2.28	0.62	3.98	6.8	U	ND	Y
0.0	2.000	0.20	0.23	1.25	2.28	0.68	3.76	6.8	U	ND	Y
0.0	2.000	0.20	0.23	1.25	2.28	0.68	3.76	6.8	U	ND	Y
0.0	2.000	0.20	0.23	1.20	2.28	0.68	3.59	6.8	U	ND	Y

0.0	2.000	0.17	0.19	1.32	2.28	0.57	3.97	6.8	U	ND	Y
%											Y
100.0	45.00	7.5	8.53	30.15	51.21	25.6	90.5	153.6	U	ND	Y
100.0	45.00	45.0	51.21	33.58	51.21	153.6	100.7	153.6	U	ND	Y
0.0	45.00	5.9	6.74	27.61	51.21	20.2	82.8	153.6	U	ND	Y
0.0	45.00	6.4	7.32	28.48	51.21	21.9	85.4	153.6	U	ND	Y
0.0	45.00	3.0	3.41	27.70	51.21	10.2	83.1	153.6	U	ND	Y
0.0	45.00	7.5	8.53	30.15	51.21	25.6	90.5	153.6	U	ND	Y
0.0	45.00	6.4	7.32	27.62	51.21	21.9	82.9	153.6	U	ND	Y
0.0	45.00	45.0	51.21	33.58	51.21	153.6	100.7	153.6	U	ND	Y
0.0	45.00	3.5	3.94	28.57	51.21	11.8	85.7	153.6	U	ND	Y
0.0	45.00	5.6	6.40	30.91	51.21	19.2	92.7	153.6	U	ND	Y
0.0	45.00	7.5	8.53	30.15	51.21	25.6	90.5	153.6	U	ND	Y
0.0	25.000	3.6	4.06	15.82	28.45	12.2	47.5	85.3	U	ND	Y
%											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
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%											Y
0.0	5.000	2.5	2.84	3.51	5.69	8.5	10.5	17.1	U	ND	Y
0.0	5.000	1.7	1.90	3.43	5.69	5.7	10.3	17.1	U	ND	Y
0.0	25.000	6.3	7.11	16.94	28.45	21.3	50.8	85.3	U	ND	Y
0.0	25.000	5.0	5.69	16.82	28.45	17.1	50.5	85.3	U	ND	Y
0.0	25.000	4.2	4.74	16.75	28.45	14.2	50.3	85.3	U	ND	Y
0.0	25.000	3.6	4.06	16.69	28.45	12.2	50.1	85.3	U	ND	Y
0.0	25.000	3.1	3.56	16.64	28.45	10.7	49.9	85.3	U	ND	Y
0.0	25.000	2.8	3.16	16.62	28.45	9.5	49.8	85.3	U	ND	Y
0.0	25.000	2.5	2.84	16.59	28.45	8.5	49.8	85.3	U	ND	Y
0.0	25.000	2.3	2.59	16.57	28.45	7.8	49.7	85.3	U	ND	Y
0.0	25.000	2.1	2.37	16.55	28.45	7.1	49.6	85.3	U	ND	Y
0.0	25.000	2.1	2.37	16.55	28.45	7.1	49.6	85.3	U	ND	Y
0.0											Y
											Y
0.0	6.0	1.0	1.14	3.36	6.83	3.4	10.1	20.5			Y
0.0	6.0	0.9	0.98	4.01	6.83	2.9	12.0	20.5			Y
0.0	6.0	0.7	0.76	3.99	6.83	2.3	12.0	20.5			Y
0.0	6.0	0.5	0.62	3.63	6.83	1.9	10.9	20.5			Y
0.0	6.0	0.7	0.76	3.55	6.83	2.3	10.7	20.5			Y
0.0	6.0	0.5	0.62	3.62	6.83	1.9	10.9	20.5			Y
0.0	2.0	0.3	0.38	1.34	2.28	1.1	4.0	6.8	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
0.0						0.00			
					0.0		0.00		
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		0.0				0.00			
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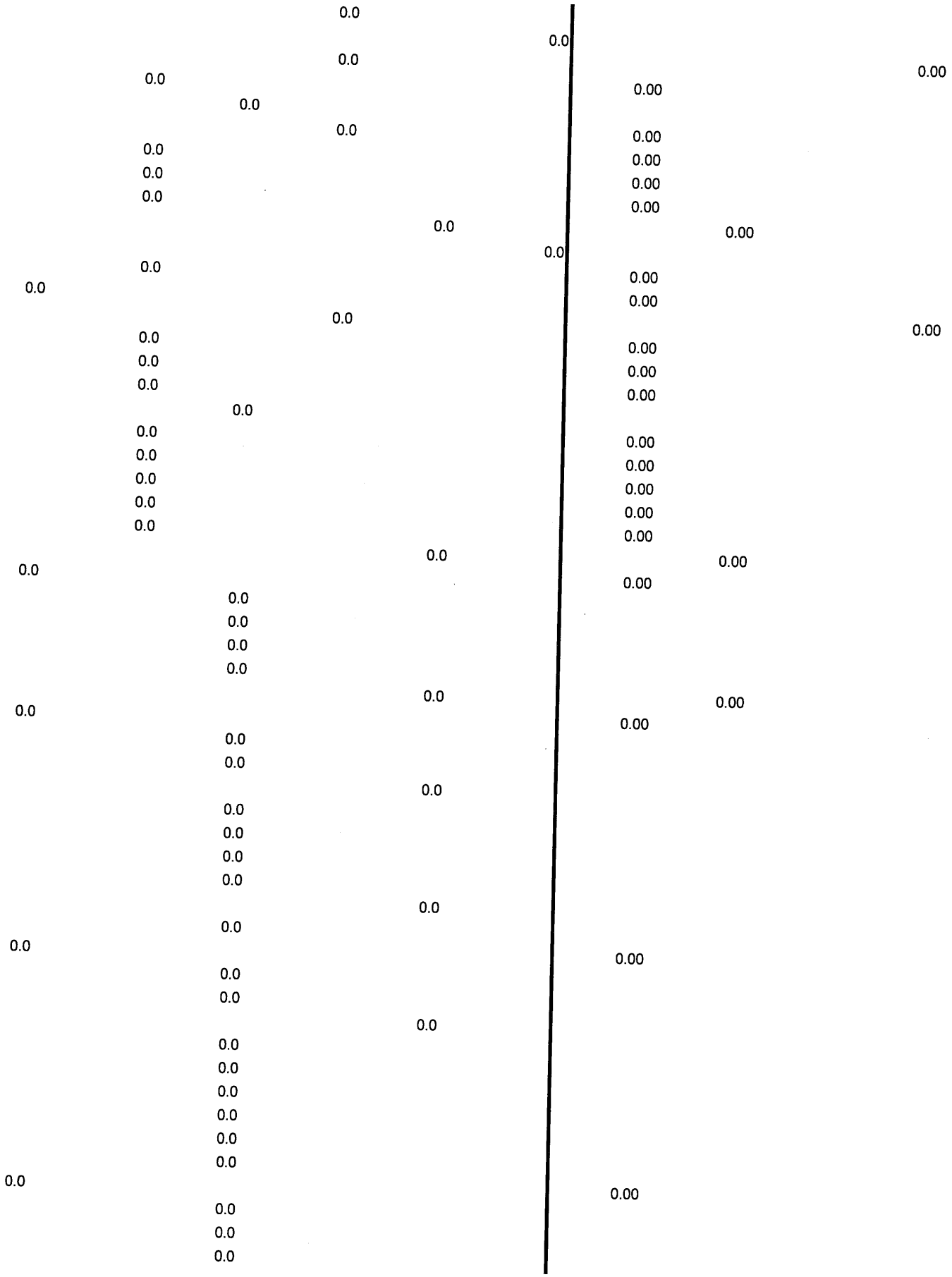
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Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
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SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**18**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.14
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.09E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.09E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.09E+04	0	0.0	0.00	0.00
Propene	3	TRG	4.5	2.09E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.09E+04	0	0.0	0.00	0.00
i-Butane	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.09E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.09E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.09E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.09E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.09E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.09E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.09E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.09E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.09E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.09E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.09E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.09E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.09E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.09E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.09E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.09E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.09E+04	14110	20.5	3.41	12.05	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.09E+04	14110	20.5	20.47	13.42	
Total Volatile Organic Compoun	8	TRG	100.0	2.09E+04	0	0.0	0.00	0.00	
TPH (gasoline)	7	TRG	95.0	2.09E+04	0	0.0	0.00	0.00	
TPH (diesel)	15	TRG	198.0	2.09E+04	0	0.0	0.00	0.00	
TPH (hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	
TPH (toluene)	7	TRG	92.1	2.09E+04	0	0.0	0.00	0.00	
TPH (methane)	1	TRG	16.0	2.09E+04	0	0.0	0.00	0.00	
TPH (Jet A Fuel)	13	TRG	177.0	2.09E+04	0	0.0	0.00	0.00	
TPH (Mineral Spirits)	8	TRG	117.8	2.09E+04	0	0.0	0.00	0.00	
C6+ (hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.09E+04		0.0			Sum ID
Paraffins	P	TRG	0.0	2.09E+04		0.0			Sum P
Isoparaffins	I	TRG	0.0	2.09E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.09E+04		0.0			Sum A
Napthlenes	N	TRG	0.0	2.09E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.09E+04		0.0			Sum O
Oxygenates		TRG	0.0	2.09E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.09E+04	0	0.0	0.00	0.00	
C3 (propane)	3	TRG	44.1	2.09E+04	0	0.0	0.00	0.00	
C4 (Butane)	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.09E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.09E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.09E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.09E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.09E+04	0	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 19

File Name: 2510019A
Description: T-201
Canister: 726
QC_Batch: 033125-GCK

Date Sampled: 03/20/25 **Time:** 8:23
Date Analyzed: 03/31/25 **Time:** 16:51
Can Factor: 1.21
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.21	3.64	ND	1.40	4.19	ND	ND
74-86-2	Acetylene	1.21	3.64	ND	1.29	3.88	ND	ND
74-84-0	Ethane	1.21	3.64	6.57	1.50	4.49	8.10	
115-07-1	Propene	0.81	2.43	ND	1.39	4.18	ND	ND
74-98-6	Propane	0.81	2.43	4.25	1.46	4.38	7.69	
75-28-5	i-Butane	0.61	1.82	ND	1.44	4.33	ND	ND
106-98-9	1-Butene	0.61	1.82	ND	1.39	4.18	ND	ND
106-97-8	n-Butane	0.61	1.82	ND	1.44	4.33	ND	ND
624-64-6	t-2-Butene	0.61	1.82	ND	1.39	4.18	ND	ND
590-18-1	c-2-Butene	0.61	1.82	ND	1.39	4.18	ND	ND
78-78-4	i-Pentane	0.49	1.46	0.85	1.44	4.31	2.50	J
109-67-1	1-Pentene	0.49	1.46	1.34	1.39	4.18	3.86	J
109-66-0	n-Pentane	0.49	1.46	0.59	1.43	4.30	1.73	J
646-04-8	t-2-Pentene	0.49	1.46	ND	1.39	4.18	ND	ND
627-20-3	c-2-Pentene	0.49	1.46	ND	1.39	4.18	ND	ND
75-83-2	2,2-Dimethylbutane	0.40	1.21	ND	1.43	4.28	ND	ND
142-29-0	Cyclopentene	0.49	1.46	ND	1.35	4.06	ND	ND
287-92-3	Cyclopentane	0.49	1.46	ND	1.39	4.18	ND	ND
79-29-8	2,3-Dimethylbutane	0.40	1.21	ND	1.43	4.28	ND	ND
107-83-5	2-Methylpentane	0.40	1.21	ND	1.43	4.28	ND	ND
96-14-0	3-Methylpentane	0.40	1.21	ND	1.43	4.28	ND	ND
592-41-6	1-Hexene	0.40	1.21	ND	1.39	4.18	ND	ND
110-54-3	n-Hexane	0.40	1.21	ND	1.43	4.28	ND	ND
1120-62-3	3-Methylcyclopentene	0.40	1.21	ND	1.36	4.08	ND	ND
96-37-7	Methylcyclopentane	0.40	1.21	ND	1.39	4.18	ND	ND
108-08-7	2,4-Dimethylpentane	0.35	1.04	ND	1.42	4.27	ND	ND
71-43-2	Benzene	0.40	1.21	0.68	1.29	3.88	2.16	J
110-82-7	Cyclohexane	0.40	1.21	ND	1.39	4.18	ND	ND
591-76-4	2-Methylhexane	0.35	1.04	ND	1.42	4.27	ND	ND
565-59-3	2,3-Dimethylpentane	0.35	1.04	ND	1.42	4.27	ND	ND
589-34-4	3-Methylhexane	0.35	1.04	ND	1.42	4.27	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.91	ND	1.42	4.26	ND	ND
142-82-5	n-Heptane	0.35	1.04	ND	1.42	4.27	ND	ND
108-87-2	Methylcyclohexane	0.35	1.04	ND	1.39	4.18	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.91	ND	1.42	4.26	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.91	ND	1.42	4.26	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.91	ND	1.42	4.26	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.04	ND	1.31	3.92	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.91	ND	1.42	4.26	ND	ND
592-27-8	2-Methylheptane	0.30	0.91	ND	1.42	4.26	ND	ND
589-53-7	4-Methylheptane	0.30	0.91	ND	1.42	4.26	ND	ND
589-81-1	3-Methylheptane	0.30	0.91	ND	1.42	4.26	ND	ND
111-65-9	n-Octane	0.30	0.91	ND	1.42	4.26	ND	ND
100-41-4	Ethylbenzene	0.30	0.91	ND	1.32	3.96	ND	ND
108-38-3	m,p-xylene	0.30	0.91	ND	1.32	3.96	ND	ND
100-42-5	Styrene	0.30	0.91	ND	1.29	3.88	ND	ND
95-47-6	o-xylene	0.30	0.91	ND	1.32	3.96	ND	ND
111-84-2	n-Nonane	0.27	0.81	ND	1.42	4.25	ND	ND
98-82-8	i-Propylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
103-65-1	n-propylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.81	ND	1.33	3.98	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.81	ND	1.33	3.98	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.81	ND	1.33	3.98	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
124-18-5	n-Decane	0.24	0.73	ND	1.41	4.24	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.73	ND	1.33	4.00	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.73	ND	1.33	4.00	ND	ND
104-51-8	n-Butylbenzene	0.24	0.73	ND	1.33	4.00	ND	ND
1120-21-4	Undecane	0.22	0.66	ND	1.41	4.24	ND	ND
91-20-3	Naphthalene	0.24	0.73	ND	1.27	3.82	ND	ND
112-40-3	Dodecane	0.20	0.61	ND	1.41	4.23	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.10	27.29	18.43	32.13	96.40	65.10	J
TNMHC - C1	Total Non-Methane Hydrocarbons	54.57	163.72	110.56	35.79	107.36	72.50	J

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **19**
File Name: **2510019A**
Sample ID: **T-201**
Sampled: **3/20/2025**
Received: **03/21/25**
Analyzed: **03/31/25**
QCBatch: **033125-GCK**
Can: **726**
Can Factor: **1.21**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **8:23** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **16:51** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **377602**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C5 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.07			NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.11			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.18**	8494	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11		928				-188	290
74-98-6	Propane	P	5.20	**5.20**	**5.26**	8255	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.66**						130	351
67-56-1	Methanol		8.30	8.36						130	401
106-98-9	1-Butene	P	7.29	7.35	**7.29**		I	I	H	366	367
106-99-0	1,3-Butadiene		**7.48**	7.54						130	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75	**8.70**		I	I	H	409	410
590-18-1	c-2-Butene	P	9.63	9.63						200	431
64-17-5	Ethanol		10.85	10.89						200	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.09						200	465
67-64-1	Acetone		11.52	11.56						200	476
78-78-4	i-Pentane	P	11.37	11.41	**11.46**	2734	I	I	H	475	473
109-67-1	1-Pentene	P	12.30	12.34	**12.37**	4342	I	I	H	497	495
67-63-0	Isopropanol		12.65	12.69						200	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.40						200	497
109-66-0	n-Pentane	P	12.48	**12.52**	**12.52**	1897	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.59						158	503
646-04-8	t-2-Pentene	P	12.79	12.83						158	510
627-20-3	c-2-Pentene	P	13.08	13.12						158	518
75-65-0	Tert butyl alcohol		**13.55**	13.59						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.66						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.81	**13.83**	1212	I	I	H	536	537
142-29-0	Cyclopentene	15	**14.61**	14.65						158	551
71-23-8	n-Propanol		**14.75**	14.79						158	558
287-92-3	Cyclopentane	P	14.88	14.92						158	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.04						158	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.10						158	570
107-83-5	2-Methylpentane	P	15.08	15.12						158	571
96-14-0	3-Methylpentane	P	15.55	15.59	**15.62**	972	I	I	H	585	583
592-41-6	1-Hexene	P	**15.80**	15.84						158	590
110-54-3	n-Hexane	P	16.17	**16.21**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						113	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						113	626
71-43-2	Benzene		P	17.87	**17.87**	**17.92**	2620	I	I	H	653	651
110-82-7	Cyclohexane		P	18.14	18.19						113	658
591-76-4	2-Methylhexane		P	18.38	18.43						113	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.50						113	671
589-34-4	3-Methylhexane		P	18.66	18.71						113	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.80						113	687
994-05-8	Tert amyl methyl ether			**18.80**	18.85						113	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.14						113	690
142-82-5	n-Heptane		P	19.41	19.46	**19.49**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.14						19	722
592-13-2	2,5-Dimethylhexane			20.35	20.40						19	734
589-43-5	2,4-Dimethylhexane			20.43	20.48						19	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.98						19	753
108-88-3	Toluene		P	21.12	**21.17**	**21.20**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.28						19	763
592-27-8	2-Methylheptane		P	21.33	21.41						19	768
589-53-7	4-Methylheptane	48		**21.48**	21.56						19	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.58						19	772
589-81-1	3-Methylheptane		p	21.55	21.63						19	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.18						19	786
111-65-9	n-Octane		P	22.27	22.35	**22.35**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.83						-60	855
108-38-3	m,p-xylene		P	23.95	24.03						-60	863
100-42-5	Styrene		P	24.40	24.48						-60	881
95-47-6	o-xylene		P	24.57	24.65						-60	886
124-11-8	1-Nonene	64		24.60	24.68						-60	889
111-84-2	n-Nonane		P	24.87	24.95	**24.95**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.44						-180	919
103-65-1	n-propylbenzene		P	25.93	26.01	**26.00**		I	I	H	945	947
80-56-8	a-Pinene			26.09	26.17						-180	950
620-14-4	3-Ethyltoluene		P	26.17	26.25						-180	957
622-96-8	4-Ethyltoluene		P	26.26	26.34						-180	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.53						-180	964
611-14-3	2-Ethyltoluene		P	26.61	26.69						-180	975
127-91-3	b-Pinene			26.80	26.88						-180	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.16						-180	991
124-18-5	n-Decane		P	27.26	27.34	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.63						-48	1014
496-11-7	Indan	81		27.55	27.63						-48	1020
5989-27-5	d-Limonene			27.65	27.73						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.18	**28.11**		I	I	H	1033	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.31						-48	1037
104-51-8	n-Butylbenzene			28.45	28.53						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.68						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.83						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.91						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.53						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.58						-48	1124
91-20-3	Naphthalene		32.25	32.33						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					0		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					71516		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					71516		0			
TVOC	Total Volatile Organic Compounds					0		0			
TPH(g)	TPH (gasoline)					0		0			
TPH(d)	TPH (diesel)					0		0			
TPH(h)	TPH (hexane)					0		0			
TPH(t)	TPH (toluene)					0		0			
TPHC	TPH (methane)					0		0			
TPH(Jet A)	TPH (Jet A Fuel)					0		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					0					
C6+	**C6+ (hexane)**		16.17	16.21	16.17	**0**		Sum from	16.21	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			8494		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			9183		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**17677**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	033125-GCK		
Hexane Std Area:	377602		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.21	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.21		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	13.13	6.57	8.10	13.13	6.57	8.10	8.10	8.10
Propene	42.1	3	1.43	0.48	0.83	ND	ND	ND	0	
Propane	44.1	3	12.76	4.25	7.69	12.76	4.25	7.69	7.69	7.69
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	4.23	0.85	2.50	4.23	0.85	2.50	2.50	2.50
1-Pentene	70.1	5	6.71	1.34	3.86	6.71	1.34	3.86	3.86	3.86
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	2.93	0.59	1.73	2.93	0.59	1.73	1.73	1.73
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	1.87	0.31	1.10	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	1.50	0.25	0.88	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	4.05	0.68	2.16	4.05	0.68	2.16	2.16	2.16
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	110.56	18.4	65.1	110.56	18.43	65.10	65.10	65.10
Total Non-Methane Hydrocarbons	16	1.0	110.56	110.6	72.5	110.56	110.56	72.50	72.50	72.50
Total Volatile Organic Compounds	100	7.6	0.00	0.0	0.0	ND	ND	ND	0	
TPH (gasoline)	95	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (diesel)	198	15.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (toluene)	92.14	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (methane)	16	1.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Jet A Fuel)	177	13.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Mineral Spirits)	117.81	8.0	0.00	0.0	0.0	ND	ND	ND	0	
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			48.6	15.3						
Paraffins			28.8							
Isoparaffins			7.6							
Aromatics			4.1							
Napthlenes			0.0							
Olefins			8.1							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	13.13	6.57	8.10	13.13	6.57	8.10	8.10	8.10
C3 (propane)	44.1	3	14.20	4.73	8.55	14.20	4.73	8.55	8.55	8.55
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			27.3							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	2.9	0.49	1.45					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	1.9	0.31	1.10					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	36.4	74.9
Alkenes	8.1	16.8
Alkynes	0.0	0.0
Cycloalkanes	0.0	0.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	4.1	8.3
Terpenes	0.0	0.0

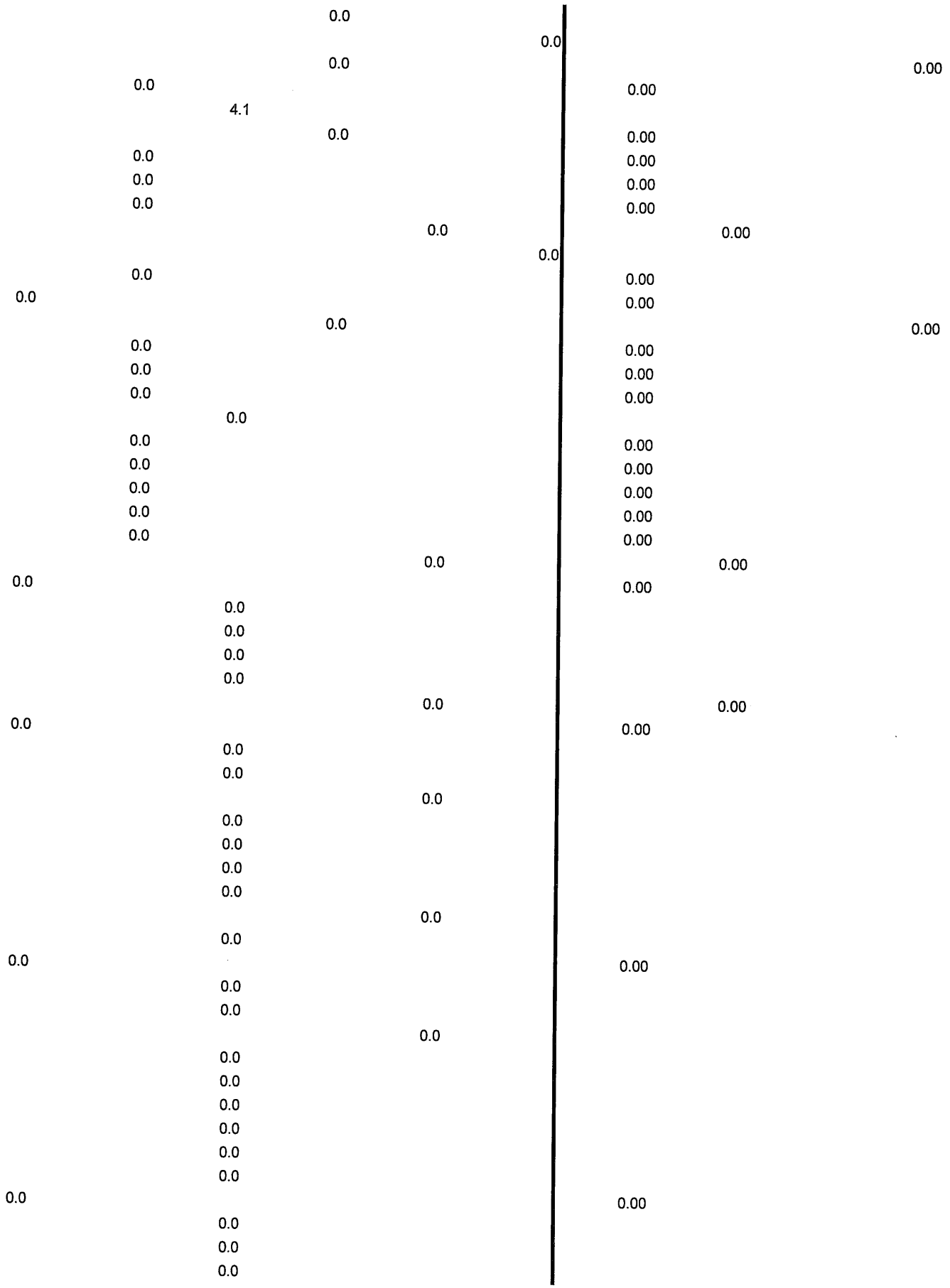
SDG: **225100**
Laboratory Number: **19**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
0.0	2.000	1.00	1.21	1.40	2.43	3.64	4.19	7.3	U	ND		Y
0.0	2.000	1.00	1.21	1.29	2.43	3.64	3.88	7.3	U	ND		Y
42.9	2.000	1.00	1.21	1.50	2.43	3.64	4.49	7.3		=		Y
3.1	2.000	0.67	0.81	1.39	2.43	2.43	4.18	7.3	U	ND		Y
27.8	2.000	0.67	0.81	1.46	2.43	2.43	4.38	7.3		=		Y
0.0	2.000	0.50	0.61	1.44	2.43	1.82	4.33	7.3	U	ND		Y
0.0	2.000	2.00	2.43	3.18	2.43	7.28	9.54	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.39	2.43	1.82	4.18	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.34	2.43	1.82	4.03	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.44	2.43	1.82	4.33	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.39	2.43	1.82	4.18	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.39	2.43	1.82	4.18	7.3	U	ND		Y
0.0	2.000	1.00	1.21	2.29	2.43	3.64	6.87	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.39	2.43	1.46	4.18	7.3	U	ND		Y
0.0	2.000	0.67	0.81	1.93	2.43	2.43	5.78	7.3	U	ND		Y
5.5	2.000	0.40	0.49	1.44	2.43	1.46	4.31	7.3	J	=		Y
8.8	2.000	0.40	0.49	1.39	2.43	1.46	4.18	7.3	J	=		Y
0.0	2.000	0.67	0.81	1.99	2.43	2.43	5.97	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.39	2.43	1.46	4.18	7.3	U	ND		Y
3.8	2.000	0.40	0.49	1.43	2.43	1.46	4.30	7.3	J	=		Y
0.0	2.000	0.40	0.49	1.35	2.43	1.46	4.06	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.39	2.43	1.46	4.18	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.39	2.43	1.46	4.18	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.84	2.43	1.82	5.52	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.39	2.43	1.46	4.18	7.3	U	ND		Y
2.0	2.000	0.33	0.40	1.43	2.43	1.21	4.28	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.35	2.43	1.46	4.06	7.3	U	ND		Y
0.0	2.000	0.67	0.81	1.99	2.43	2.43	5.97	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.39	2.43	1.46	4.18	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.75	2.43	1.46	5.26	7.3	U	ND		Y
0.0	2.000	0.33	0.40	1.43	2.43	1.21	4.28	7.3	U	ND		Y
0.0	2.000	0.33	0.40	1.43	2.43	1.21	4.28	7.3	U	ND		Y
1.6	2.000	0.33	0.40	1.43	2.43	1.21	4.28	7.3	U	ND		Y
0.0	2.000	0.33	0.40	1.39	2.43	1.21	4.18	7.3	U	ND		Y
0.0	2.000	0.33	0.40	1.43	2.43	1.21	4.28	7.3	U	ND		Y
0.0	2.000	0.33	0.40	1.69	2.43	1.21	5.08	7.3	U	ND		Y

0.0	2.000	0.33	0.40	1.36	2.43	1.21	4.08	7.3	U	ND	Y
0.0	2.000	0.33	0.40	1.69	2.43	1.21	5.08	7.3	U	ND	Y
0.0	2.000	0.33	0.40	1.39	2.43	1.21	4.18	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.43	1.04	4.27	7.3	U	ND	Y
4.4	2.000	0.33	0.40	1.29	2.43	1.21	3.88	7.3	J	=	Y
0.0	2.000	0.33	0.40	1.39	2.43	1.21	4.18	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.43	1.04	4.27	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.43	1.04	4.27	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.43	1.04	4.27	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.39	2.43	1.04	4.18	7.3	U	ND	Y
0.0	2.000	0.33	0.40	1.69	2.43	1.21	5.08	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.43	0.91	4.26	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.43	1.04	4.27	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.39	2.43	1.04	4.18	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.43	0.91	4.26	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.43	0.91	4.26	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.43	0.91	4.26	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.31	2.43	1.04	3.92	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.43	0.91	4.26	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.43	0.91	4.26	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.43	0.91	4.26	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.43	0.91	4.26	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.43	0.91	4.26	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.43	0.91	4.18	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.43	0.91	4.26	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.32	2.43	0.91	3.96	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.32	2.43	0.91	3.96	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.29	2.43	0.91	3.88	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.32	2.43	0.91	3.96	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.39	2.43	0.81	4.18	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.42	2.43	0.81	4.25	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.43	0.81	3.98	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.43	0.81	3.98	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.35	2.43	0.73	4.06	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.43	0.81	3.98	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.43	0.81	3.98	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.43	0.81	3.98	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.43	0.81	3.98	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.35	2.43	0.73	4.06	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.43	0.81	3.98	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.41	2.43	0.73	4.24	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.43	0.81	3.98	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.31	2.43	0.81	3.92	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.35	2.43	0.73	4.06	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.43	0.73	4.00	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.43	0.73	4.00	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.43	0.73	4.00	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.43	0.73	4.00	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.43	0.73	4.00	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.43	0.73	4.00	7.3	U	ND	Y
0.0	2.000	0.18	0.22	1.41	2.43	0.66	4.24	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.43	0.73	4.00	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.43	0.73	4.00	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.27	2.43	0.73	3.82	7.3	U	ND	Y

0.0	2.000	0.17	0.20	1.41	2.43	0.61	4.23	7.3	U	ND	Y
%											Y
100.0	45.00	7.5	9.10	32.13	54.57	27.3	96.4	163.7	J	=	Y
100.0	45.00	45.0	54.57	35.79	54.57	163.7	107.4	163.7	J	=	Y
0.0	45.00	5.9	7.18	29.43	54.57	21.5	88.3	163.7	U	ND	Y
0.0	45.00	6.4	7.80	30.35	54.57	23.4	91.1	163.7	U	ND	Y
0.0	45.00	3.0	3.64	29.52	54.57	10.9	88.6	163.7	U	ND	Y
0.0	45.00	7.5	9.10	32.13	54.57	27.3	96.4	163.7	U	ND	Y
0.0	45.00	6.4	7.80	29.44	54.57	23.4	88.3	163.7	U	ND	Y
0.0	45.00	45.0	54.57	35.79	54.57	163.7	107.4	163.7	U	ND	Y
0.0	45.00	3.5	4.20	30.45	54.57	12.6	91.4	163.7	U	ND	Y
0.0	45.00	5.6	6.82	32.94	54.57	20.5	98.8	163.7	U	ND	Y
0.0	45.00	7.5	9.10	32.13	54.57	27.3	96.4	163.7	U	ND	Y
0.0	25.000	3.6	4.33	16.86	30.32	13.0	50.6	91.0	U	ND	Y
%											Y
44.0											Y
59.3											Y
15.6											Y
8.3											Y
0.0											Y
16.8											Y
0.0											Y
%											Y
48.0	5.000	2.5	3.03	3.74	6.06	9.1	11.2	18.2	J	=	Y
51.9	5.000	1.7	2.02	3.65	6.06	6.1	11.0	18.2	J	=	Y
0.0	25.000	6.3	7.58	18.05	30.32	22.7	54.2	91.0	U	ND	Y
0.0	25.000	5.0	6.06	17.93	30.32	18.2	53.8	91.0	U	ND	Y
0.0	25.000	4.2	5.05	17.85	30.32	15.2	53.6	91.0	U	ND	Y
0.0	25.000	3.6	4.33	17.79	30.32	13.0	53.4	91.0	U	ND	Y
0.0	25.000	3.1	3.79	17.74	30.32	11.4	53.2	91.0	U	ND	Y
0.0	25.000	2.8	3.37	17.71	30.32	10.1	53.1	91.0	U	ND	Y
0.0	25.000	2.5	3.03	17.68	30.32	9.1	53.0	91.0	U	ND	Y
0.0	25.000	2.3	2.76	17.66	30.32	8.3	53.0	91.0	U	ND	Y
0.0	25.000	2.1	2.53	17.63	30.32	7.6	52.9	91.0	U	ND	Y
0.0	25.000	2.1	2.53	17.63	30.32	7.6	52.9	91.0	U	ND	Y
100.0											Y
											Y
2.7	6.0	1.0	1.21	3.59	7.28	3.6	10.8	21.8			Y
0.0	6.0	0.9	1.04	4.27	7.28	3.1	12.8	21.8			Y
0.0	6.0	0.7	0.81	4.25	7.28	2.4	12.8	21.8			Y
0.0	6.0	0.5	0.66	3.87	7.28	2.0	11.6	21.8			Y
0.0	6.0	0.7	0.81	3.78	7.28	2.4	11.4	21.8			Y
0.0	6.0	0.5	0.66	3.86	7.28	2.0	11.6	21.8			Y
2.0	2.0	0.3	0.40	1.43	2.43	1.2	4.3	7.3	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
13.1						13.13			
					1.4		1.43		
12.8						12.76			
		0.0				0.00			
					0.0				
					0.0		0.00		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		4.2				4.23			
					6.7		6.71		
					0.0				
					0.0		0.00		
2.9						2.93			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		1.9				1.87			
			0.0						0.00
					0.0				
			0.0						0.00
					0.0				
		0.0				0.00			
		0.0				0.00			
		1.5				1.50			
					0.0		0.00		
0.0						0.00			
					0.0				


0.0
0.0
0.0
4.1
0.0
0.0
0.0

0.0						0.00			
28.8	7.6	4.1	0.0	8.1	0.0	36.4	8.1	0.0	0.0

2.93	3.38		
0.00	0.00		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
0.00					
0.00					
		0.00			
0.00					
0.00					
0.00					
			0.00		
			0.00		

0.00

0.00

4.05

0.00

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0.00
0.00
0.00

0.0	0.0	0.0	0.0	4.1	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**19**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.21
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\left|\frac{\text{(Astdni)}}{\text{(Cstdni)}}\right|_i$

2) ppbC = $\frac{\text{6 Carbons} \times \text{Ansamp} \times \text{CDF} \times 1000}{\text{(Avg RFn)} \times \text{SV}}$ = **Cn**

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = $\frac{\text{(amt(ppbv)} \times \text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.09E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.09E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.09E+04	8494	13.1	6.57	8.10
Propene	3	TRG	4.5	2.09E+04	4	1.4	0.48	0.83
Propane	3	TRG	44.1	2.09E+04	8255	12.8	4.25	7.69
i-Butane	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.09E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.09E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.09E+04	2734	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.09E+04	4342	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.09E+04	0	4.2	0.85	2.50
n-Pentane	5	TRG	70.1	2.09E+04	1897	6.7	1.34	3.86
Isoprene	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.09E+04	0	2.9	0.59	1.73
2,2-Dimethylbutane	5	TRG	68.1	2.09E+04	1212	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.09E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.09E+04	972	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.09E+04	0	1.9	0.31	1.10
Methylcyclopentane	5	TRG	68.1	2.09E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.09E+04	2620	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.09E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.09E+04	0	1.5	0.25	0.88
2,2,4-Trimethylpentane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.09E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.09E+04	0	4.1	0.68	2.16	
2-Methylheptane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.09E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.09E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.09E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.09E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.09E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.09E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.09E+04	71516	110.6	18.43	65.10	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.09E+04	71516	110.6	110.56	72.50	
Total Volatile Organic Compoun	8	TRG	100.0	2.09E+04	0	0.0	0.00	0.00	
TPH (gasoline)	7	TRG	95.0	2.09E+04	0	0.0	0.00	0.00	
TPH (diesel)	15	TRG	198.0	2.09E+04	0	0.0	0.00	0.00	
TPH (hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	
TPH (toluene)	7	TRG	92.1	2.09E+04	0	0.0	0.00	0.00	
TPH (methane)	1	TRG	16.0	2.09E+04	0	0.0	0.00	0.00	
TPH (Jet A Fuel)	13	TRG	177.0	2.09E+04	0	0.0	0.00	0.00	
TPH (Mineral Spirits)	8	TRG	117.8	2.09E+04	0	0.0	0.00	0.00	
C6+ (hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.09E+04		48.6			Sum ID
Paraffins	P	TRG	0.0	2.09E+04		28.8			Sum P
Isoparaffins	I	TRG	0.0	2.09E+04		7.6			Sum I
Aromatics	A	TRG	0.0	2.09E+04		4.1			Sum A
Napthlenes	N	TRG	0.0	2.09E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.09E+04		8.1			Sum O
Oxygenates		TRG	0.0	2.09E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.09E+04	8494	13.1	6.57	8.10	
C3 (propane)	3	TRG	44.1	2.09E+04	9183	14.2	4.73	8.55	
C4 (Butane)	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.09E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.09E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.09E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.09E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.09E+04	17677	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 20

File Name: 2510020A
Description: T-202
Canister: 883
QC_Batch: 033125-GCK

Date Sampled: 03/20/25 **Time:** 8:38
Date Analyzed: 03/31/25 **Time:** 17:38
Can Factor: 1.18
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.18	3.54	1.47	1.36	4.08	1.69	J
74-86-2	Acetylene	1.18	3.54	ND	1.26	3.78	ND	ND
74-84-0	Ethane	1.18	3.54	8.77	1.46	4.37	10.81	
115-07-1	Propene	0.79	2.36	1.91	1.36	4.08	3.29	J
74-98-6	Propane	0.79	2.36	8.21	1.42	4.27	14.85	
75-28-5	i-Butane	0.59	1.77	ND	1.41	4.22	ND	ND
106-98-9	1-Butene	0.59	1.77	ND	1.36	4.07	ND	ND
106-97-8	n-Butane	0.59	1.77	3.60	1.41	4.22	8.57	
624-64-6	t-2-Butene	0.59	1.77	ND	1.36	4.07	ND	ND
590-18-1	c-2-Butene	0.59	1.77	ND	1.36	4.07	ND	ND
78-78-4	i-Pentane	0.47	1.42	0.72	1.40	4.19	2.13	J
109-67-1	1-Pentene	0.47	1.42	ND	1.36	4.07	ND	ND
109-66-0	n-Pentane	0.47	1.42	0.63	1.40	4.19	1.85	J
646-04-8	t-2-Pentene	0.47	1.42	ND	1.36	4.07	ND	ND
627-20-3	c-2-Pentene	0.47	1.42	ND	1.36	4.07	ND	ND
75-83-2	2,2-Dimethylbutane	0.39	1.18	ND	1.39	4.17	ND	ND
142-29-0	Cyclopentene	0.47	1.42	ND	1.32	3.96	ND	ND
287-92-3	Cyclopentane	0.47	1.42	ND	1.36	4.07	ND	ND
79-29-8	2,3-Dimethylbutane	0.39	1.18	ND	1.39	4.17	ND	ND
107-83-5	2-Methylpentane	0.39	1.18	ND	1.39	4.17	ND	ND
96-14-0	3-Methylpentane	0.39	1.18	ND	1.39	4.17	ND	ND
592-41-6	1-Hexene	0.39	1.18	ND	1.36	4.08	ND	ND
110-54-3	n-Hexane	0.39	1.18	ND	1.39	4.17	ND	ND
1120-62-3	3-Methylcyclopentene	0.39	1.18	ND	1.32	3.97	ND	ND
96-37-7	Methylcyclopentane	0.39	1.18	ND	1.36	4.08	ND	ND
108-08-7	2,4-Dimethylpentane	0.34	1.01	ND	1.39	4.16	ND	ND
71-43-2	Benzene	0.39	1.18	0.48	1.26	3.78	1.54	J
110-82-7	Cyclohexane	0.39	1.18	ND	1.36	4.08	ND	ND
591-76-4	2-Methylhexane	0.34	1.01	ND	1.39	4.16	ND	ND
565-59-3	2,3-Dimethylpentane	0.34	1.01	ND	1.39	4.16	ND	ND
589-34-4	3-Methylhexane	0.34	1.01	ND	1.39	4.16	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.89	ND	1.38	4.15	ND	ND
142-82-5	n-Heptane	0.34	1.01	ND	1.39	4.16	ND	ND
108-87-2	Methylcyclohexane	0.34	1.01	ND	1.36	4.08	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.89	ND	1.38	4.15	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.89	ND	1.38	4.15	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.89	ND	1.38	4.15	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.34	1.01	ND	1.27	3.82	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.89	ND	1.38	4.15	ND	ND
592-27-8	2-Methylheptane	0.30	0.89	ND	1.38	4.15	ND	ND
589-53-7	4-Methylheptane	0.30	0.89	ND	1.38	4.15	ND	ND
589-81-1	3-Methylheptane	0.30	0.89	ND	1.38	4.15	ND	ND
111-65-9	n-Octane	0.30	0.89	ND	1.38	4.15	ND	ND
100-41-4	Ethylbenzene	0.30	0.89	ND	1.29	3.86	ND	ND
108-38-3	m,p-xylene	0.30	0.89	ND	1.29	3.86	ND	ND
100-42-5	Styrene	0.30	0.89	ND	1.26	3.78	ND	ND
95-47-6	o-xylene	0.30	0.89	ND	1.29	3.86	ND	ND
111-84-2	n-Nonane	0.26	0.79	ND	1.38	4.14	ND	ND
98-82-8	i-Propylbenzene	0.26	0.79	ND	1.29	3.88	ND	ND
103-65-1	n-propylbenzene	0.26	0.79	ND	1.29	3.88	ND	ND
620-14-4	3-Ethyltoluene	0.26	0.79	ND	1.29	3.88	ND	ND
622-96-8	4-Ethyltoluene	0.26	0.79	ND	1.29	3.88	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.26	0.79	ND	1.29	3.88	ND	ND
611-14-3	2-Ethyltoluene	0.26	0.79	ND	1.29	3.88	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.26	0.79	ND	1.29	3.88	ND	ND
124-18-5	n-Decane	0.24	0.71	ND	1.38	4.13	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.26	0.79	ND	1.29	3.88	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.71	ND	1.30	3.90	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.71	ND	1.30	3.90	ND	ND
104-51-8	n-Butylbenzene	0.24	0.71	ND	1.30	3.90	ND	ND
1120-21-4	Undecane	0.21	0.64	ND	1.38	4.13	ND	ND
91-20-3	Naphthalene	0.24	0.71	ND	1.24	3.72	ND	ND
112-40-3	Dodecane	0.20	0.59	ND	1.37	4.12	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	8.86	26.58	22.35	31.30	93.90	78.95	J
TNMHC - C1	Total Non-Methane Hydrocarbons	53.16	159.48	134.08	34.86	104.58	87.92	J

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **20**
File Name: **2510020A**
Sample ID: **T-202**
Sampled: **3/20/2025**
Received: **03/21/25**
Analyzed: **03/31/25**
QCBatch: **033125-GCK**
Can: **883**
Can Factor: **1.18**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **8:38** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **17:38** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **377602**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C4 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.06	**4.04**	1948	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.10			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.17**	11642	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.15**	3796	I	I	H	293	290
74-98-6	Propane	P	5.20	**5.20**	**5.23**	16365	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.63**						135	351
67-56-1	Methanol		8.30	8.33						135	401
106-98-9	1-Butene	P	7.29	7.32	**7.29**		I	I	H	365	367
106-99-0	1,3-Butadiene		**7.48**	7.51						135	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.40**	9557	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.81	**8.71**		I	I	H	408	410
590-18-1	c-2-Butene	P	9.63	9.69						198	431
64-17-5	Ethanol		10.85	10.92						198	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.12						198	465
67-64-1	Acetone		11.52	11.59						198	476
78-78-4	i-Pentane	P	11.37	11.44	**11.47**	2386	I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.37	**12.42**		I	I	H	497	495
67-63-0	Isopropanol		12.65	12.72						198	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.43						198	497
109-66-0	n-Pentane	P	12.48	**12.55**	**12.55**	2078	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.62						153	503
646-04-8	t-2-Pentene	P	12.79	12.86						153	510
627-20-3	c-2-Pentene	P	13.08	13.15						153	518
75-65-0	Tert butyl alcohol		**13.55**	13.62						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.69						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.84	**13.83**		I	I	H	535	537
142-29-0	Cyclopentene	15	**14.61**	14.68						153	551
71-23-8	n-Propanol		**14.75**	14.82						153	558
287-92-3	Cyclopentane	P	14.88	14.95						153	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.07						153	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.13						153	570
107-83-5	2-Methylpentane	P	15.08	15.15						153	571
96-14-0	3-Methylpentane	P	15.55	15.62	**15.62**		I	I	H	585	583
592-41-6	1-Hexene	P	**15.80**	15.87						153	590
110-54-3	n-Hexane	P	16.17	**16.24**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						113	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						113	626
71-43-2	Benzene		P	17.87	**17.87**	**17.95**	1912	I	I	H	654	651
110-82-7	Cyclohexane		P	18.14	18.22						113	658
591-76-4	2-Methylhexane		P	18.38	18.46						113	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.53						113	671
589-34-4	3-Methylhexane		P	18.66	18.74						113	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.83						113	687
994-05-8	Tert amyl methyl ether			**18.80**	18.88						113	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.17						113	690
142-82-5	n-Heptane		P	19.41	19.49	**19.49**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.17						19	722
592-13-2	2,5-Dimethylhexane			20.35	20.43						19	734
589-43-5	2,4-Dimethylhexane			20.43	20.51						19	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	21.01						19	753
108-88-3	Toluene		P	21.12	**21.20**	**21.20**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.28						19	763
592-27-8	2-Methylheptane		P	21.33	21.41						19	768
589-53-7	4-Methylheptane	48		**21.48**	21.56						19	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.58						19	772
589-81-1	3-Methylheptane		p	21.55	21.63						19	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.18						19	786
111-65-9	n-Octane		P	22.27	22.35	**22.35**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.83						-60	855
108-38-3	m,p-xylene		P	23.95	24.03						-60	863
100-42-5	Styrene		P	24.40	24.48						-60	881
95-47-6	o-xylene		P	24.57	24.65						-60	886
124-11-8	1-Nonene	64		24.60	24.68						-60	889
111-84-2	n-Nonane		P	24.87	24.95	**24.95**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.44						-180	919
103-65-1	n-propylbenzene		P	25.93	26.01	**25.98**		I	I	H	945	947
80-56-8	a-Pinene			26.09	26.17						-180	950
620-14-4	3-Ethyltoluene		P	26.17	26.25						-180	957
622-96-8	4-Ethyltoluene		P	26.26	26.34						-180	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.53						-180	964
611-14-3	2-Ethyltoluene		P	26.61	26.69						-180	975
127-91-3	b-Pinene			26.80	26.88						-180	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.16						-180	991
124-18-5	n-Decane		P	27.26	27.34	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.63						-48	1014
496-11-7	Indan	81		27.55	27.63						-48	1020
5989-27-5	d-Limonene			27.65	27.73						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.18	**28.11**		I	I	H	1033	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.31						-48	1037
104-51-8	n-Butylbenzene			28.45	28.53						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.68						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.83						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.91						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.53						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.58						-48	1124
91-20-3	Naphthalene		32.25	32.33						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					0		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					89038		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					89038		0			
TVOC	Total Volatile Organic Compounds					0		0			
TPH(g)	TPH (gasoline)					0		0			
TPH(d)	TPH (diesel)					0		0			
TPH(h)	TPH (hexane)					0		0			
TPH(t)	TPH (toluene)					0		0			
TPHC	TPH (methane)					0		0			
TPH(Jet A)	TPH (Jet A Fuel)					0		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					0					
C6+	**C6+ (hexane)**		16.17	16.24	16.17	**0**		Sum from	16.24	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			13590		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			20161		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**33751**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	033125-GCK		
Hexane Std Area:	377602		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.18	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.18		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	2.93	1.47	1.69	2.93	1.47	1.69	1.69	1.69
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	17.53	8.77	10.81	17.53	8.77	10.81	10.81	10.81
Propene	42.1	3	5.72	1.91	3.29	5.72	1.91	3.29	3.29	3.29
Propane	44.1	3	24.64	8.21	14.85	24.64	8.21	14.85	14.85	14.85
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	14.39	3.60	8.57	14.39	3.60	8.57	8.57	8.57
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	3.59	0.72	2.13	3.59	0.72	2.13	2.13	2.13
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	3.13	0.63	1.85	3.13	0.63	1.85	1.85	1.85
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	2.88	0.48	1.54	2.88	0.48	1.54	1.54	1.54
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	134.08	22.3	78.9	134.08	22.35	78.95	78.95	78.95
Total Non-Methane Hydrocarbons	16	1.0	134.08	134.1	87.9	134.08	134.08	87.92	87.92	87.92
Total Volatile Organic Compounds	100	7.6	0.00	0.0	0.0	ND	ND	ND	0	
TPH (gasoline)	95	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (diesel)	198	15.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (toluene)	92.14	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (methane)	16	1.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Jet A Fuel)	177	13.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Mineral Spirits)	117.81	8.0	0.00	0.0	0.0	ND	ND	ND	0	
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			74.8	25.8						
Paraffins			59.7							
Isoparaffins			3.6							
Aromatics			2.9							
Napthlenes			0.0							
Olefins			8.6							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	20.47	10.23	12.62	20.47	10.23	12.62	12.62	12.62
C3 (propane)	44.1	3	30.36	10.12	18.29	30.36	10.12	18.29	18.29	18.29
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			50.8							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	3.1	0.52	1.54					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	63.3	84.6
Alkenes	8.6	11.6
Alkynes	0.0	0.0
Cycloalkanes	0.0	0.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	2.9	3.8
Terpenes	0.0	0.0

SDG: **225100**
Laboratory Number: **20**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
5.7	2.000	1.00	1.18	1.36	2.36	3.54	4.08	7.1	J	=		Y
0.0	2.000	1.00	1.18	1.26	2.36	3.54	3.78	7.1	U	ND		Y
34.0	2.000	1.00	1.18	1.46	2.36	3.54	4.37	7.1		=		Y
7.4	2.000	0.67	0.79	1.36	2.36	2.36	4.08	7.1	J	=		Y
31.9	2.000	0.67	0.79	1.42	2.36	2.36	4.27	7.1		=		Y
0.0	2.000	0.50	0.59	1.41	2.36	1.77	4.22	7.1	U	ND		Y
0.0	2.000	2.00	2.36	3.10	2.36	7.09	9.30	7.1	U	ND		Y
0.0	2.000	0.50	0.59	1.36	2.36	1.77	4.07	7.1	U	ND		Y
0.0	2.000	0.50	0.59	1.31	2.36	1.77	3.93	7.1	U	ND		Y
14.0	2.000	0.50	0.59	1.41	2.36	1.77	4.22	7.1		=		Y
0.0	2.000	0.50	0.59	1.36	2.36	1.77	4.07	7.1	U	ND		Y
0.0	2.000	0.50	0.59	1.36	2.36	1.77	4.07	7.1	U	ND		Y
0.0	2.000	1.00	1.18	2.23	2.36	3.54	6.70	7.1	U	ND		Y
0.0	2.000	0.40	0.47	1.36	2.36	1.42	4.07	7.1	U	ND		Y
0.0	2.000	0.67	0.79	1.88	2.36	2.36	5.63	7.1	U	ND		Y
2.8	2.000	0.40	0.47	1.40	2.36	1.42	4.19	7.1	J	=		Y
0.0	2.000	0.40	0.47	1.36	2.36	1.42	4.07	7.1	U	ND		Y
0.0	2.000	0.67	0.79	1.94	2.36	2.36	5.82	7.1	U	ND		Y
0.0	2.000	0.40	0.47	1.36	2.36	1.42	4.07	7.1	U	ND		Y
2.4	2.000	0.40	0.47	1.40	2.36	1.42	4.19	7.1	J	=		Y
0.0	2.000	0.40	0.47	1.32	2.36	1.42	3.96	7.1	U	ND		Y
0.0	2.000	0.40	0.47	1.36	2.36	1.42	4.07	7.1	U	ND		Y
0.0	2.000	0.40	0.47	1.36	2.36	1.42	4.07	7.1	U	ND		Y
0.0	2.000	0.50	0.59	1.79	2.36	1.77	5.38	7.1	U	ND		Y
0.0	2.000	0.40	0.47	1.36	2.36	1.42	4.07	7.1	U	ND		Y
0.0	2.000	0.33	0.39	1.39	2.36	1.18	4.17	7.1	U	ND		Y
0.0	2.000	0.40	0.47	1.32	2.36	1.42	3.96	7.1	U	ND		Y
0.0	2.000	0.67	0.79	1.94	2.36	2.36	5.82	7.1	U	ND		Y
0.0	2.000	0.40	0.47	1.36	2.36	1.42	4.07	7.1	U	ND		Y
0.0	2.000	0.40	0.47	1.71	2.36	1.42	5.12	7.1	U	ND		Y
0.0	2.000	0.33	0.39	1.39	2.36	1.18	4.17	7.1	U	ND		Y
0.0	2.000	0.33	0.39	1.39	2.36	1.18	4.17	7.1	U	ND		Y
0.0	2.000	0.33	0.39	1.39	2.36	1.18	4.17	7.1	U	ND		Y
0.0	2.000	0.33	0.39	1.36	2.36	1.18	4.08	7.1	U	ND		Y
0.0	2.000	0.33	0.39	1.39	2.36	1.18	4.17	7.1	U	ND		Y
0.0	2.000	0.33	0.39	1.65	2.36	1.18	4.95	7.1	U	ND		Y

0.0	2.000	0.33	0.39	1.32	2.36	1.18	3.97	7.1	U	ND	Y
0.0	2.000	0.33	0.39	1.65	2.36	1.18	4.95	7.1	U	ND	Y
0.0	2.000	0.33	0.39	1.36	2.36	1.18	4.08	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.39	2.36	1.01	4.16	7.1	U	ND	Y
1.9	2.000	0.33	0.39	1.26	2.36	1.18	3.78	7.1	J	=	Y
0.0	2.000	0.33	0.39	1.36	2.36	1.18	4.08	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.39	2.36	1.01	4.16	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.39	2.36	1.01	4.16	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.39	2.36	1.01	4.16	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.36	2.36	1.01	4.08	7.1	U	ND	Y
0.0	2.000	0.33	0.39	1.65	2.36	1.18	4.95	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.38	2.36	0.89	4.15	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.39	2.36	1.01	4.16	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.36	2.36	1.01	4.08	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.38	2.36	0.89	4.15	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.38	2.36	0.89	4.15	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.38	2.36	0.89	4.15	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.27	2.36	1.01	3.82	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.38	2.36	0.89	4.15	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.38	2.36	0.89	4.15	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.38	2.36	0.89	4.15	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.38	2.36	0.89	4.15	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.38	2.36	0.89	4.15	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.36	2.36	0.89	4.07	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.38	2.36	0.89	4.15	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.29	2.36	0.89	3.86	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.29	2.36	0.89	3.86	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.26	2.36	0.89	3.78	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.29	2.36	0.89	3.86	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.36	2.36	0.79	4.07	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.38	2.36	0.79	4.14	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.29	2.36	0.79	3.88	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.29	2.36	0.79	3.88	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.32	2.36	0.71	3.96	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.29	2.36	0.79	3.88	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.29	2.36	0.79	3.88	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.29	2.36	0.79	3.88	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.29	2.36	0.79	3.88	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.32	2.36	0.71	3.96	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.29	2.36	0.79	3.88	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.38	2.36	0.71	4.13	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.29	2.36	0.79	3.88	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.27	2.36	0.79	3.82	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.32	2.36	0.71	3.96	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.30	2.36	0.71	3.90	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.30	2.36	0.71	3.90	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.30	2.36	0.71	3.90	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.30	2.36	0.71	3.90	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.30	2.36	0.71	3.90	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.30	2.36	0.71	3.90	7.1	U	ND	Y
0.0	2.000	0.18	0.21	1.38	2.36	0.64	4.13	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.30	2.36	0.71	3.90	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.30	2.36	0.71	3.90	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.24	2.36	0.71	3.72	7.1	U	ND	Y

0.0	2.000	0.17	0.20	1.37	2.36	0.59	4.12	7.1	U	ND	Y
%											Y
100.0	45.00	7.5	8.86	31.30	53.16	26.6	93.9	159.5	J	=	Y
100.0	45.00	45.0	53.16	34.86	53.16	159.5	104.6	159.5	J	=	Y
0.0	45.00	5.9	6.99	28.67	53.16	21.0	86.0	159.5	U	ND	Y
0.0	45.00	6.4	7.59	29.57	53.16	22.8	88.7	159.5	U	ND	Y
0.0	45.00	3.0	3.54	28.76	53.16	10.6	86.3	159.5	U	ND	Y
0.0	45.00	7.5	8.86	31.30	53.16	26.6	93.9	159.5	U	ND	Y
0.0	45.00	6.4	7.59	28.68	53.16	22.8	86.0	159.5	U	ND	Y
0.0	45.00	45.0	53.16	34.86	53.16	159.5	104.6	159.5	U	ND	Y
0.0	45.00	3.5	4.09	29.66	53.16	12.3	89.0	159.5	U	ND	Y
0.0	45.00	5.6	6.64	32.08	53.16	19.9	96.3	159.5	U	ND	Y
0.0	45.00	7.5	8.86	31.30	53.16	26.6	93.9	159.5	U	ND	Y
0.0	25.000	3.6	4.22	16.43	29.53	12.7	49.3	88.6	U	ND	Y
%											Y
55.8											Y
79.8											Y
4.8											Y
3.8											Y
0.0											Y
11.6											Y
0.0											Y
%											Y
40.3	5.000	2.5	2.95	3.64	5.91	8.9	10.9	17.7		=	Y
59.7	5.000	1.7	1.97	3.56	5.91	5.9	10.7	17.7		=	Y
0.0	25.000	6.3	7.38	17.59	29.53	22.1	52.8	88.6	U	ND	Y
0.0	25.000	5.0	5.91	17.47	29.53	17.7	52.4	88.6	U	ND	Y
0.0	25.000	4.2	4.92	17.39	29.53	14.8	52.2	88.6	U	ND	Y
0.0	25.000	3.6	4.22	17.33	29.53	12.7	52.0	88.6	U	ND	Y
0.0	25.000	3.1	3.69	17.28	29.53	11.1	51.8	88.6	U	ND	Y
0.0	25.000	2.8	3.28	17.25	29.53	9.8	51.7	88.6	U	ND	Y
0.0	25.000	2.5	2.95	17.22	29.53	8.9	51.7	88.6	U	ND	Y
0.0	25.000	2.3	2.68	17.20	29.53	8.1	51.6	88.6	U	ND	Y
0.0	25.000	2.1	2.46	17.18	29.53	7.4	51.5	88.6	U	ND	Y
0.0	25.000	2.1	2.46	17.18	29.53	7.4	51.5	88.6	U	ND	Y
100.0											Y
											Y
2.3	6.0	1.0	1.18	3.49	7.09	3.5	10.5	21.3			Y
0.0	6.0	0.9	1.01	4.16	7.09	3.0	12.5	21.3			Y
0.0	6.0	0.7	0.79	4.14	7.09	2.4	12.4	21.3			Y
0.0	6.0	0.5	0.64	3.77	7.09	1.9	11.3	21.3			Y
0.0	6.0	0.7	0.79	3.69	7.09	2.4	11.1	21.3			Y
0.0	6.0	0.5	0.64	3.76	7.09	1.9	11.3	21.3			Y
0.0	2.0	0.3	0.39	1.39	2.36	1.2	4.2	7.1	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					2.9		2.93		
					0.0			0.00	
17.5						17.53			
					5.7		5.72		
24.6						24.64			
		0.0				0.00			
					0.0				
					0.0		0.00		
					0.0		0.00		
14.4						14.39			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		3.6				3.59			
					0.0		0.00		
					0.0				
					0.0		0.00		
3.1						3.13			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
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			0.0						0.00
					0.0				
		0.0				0.00			
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					0.0		0.00		
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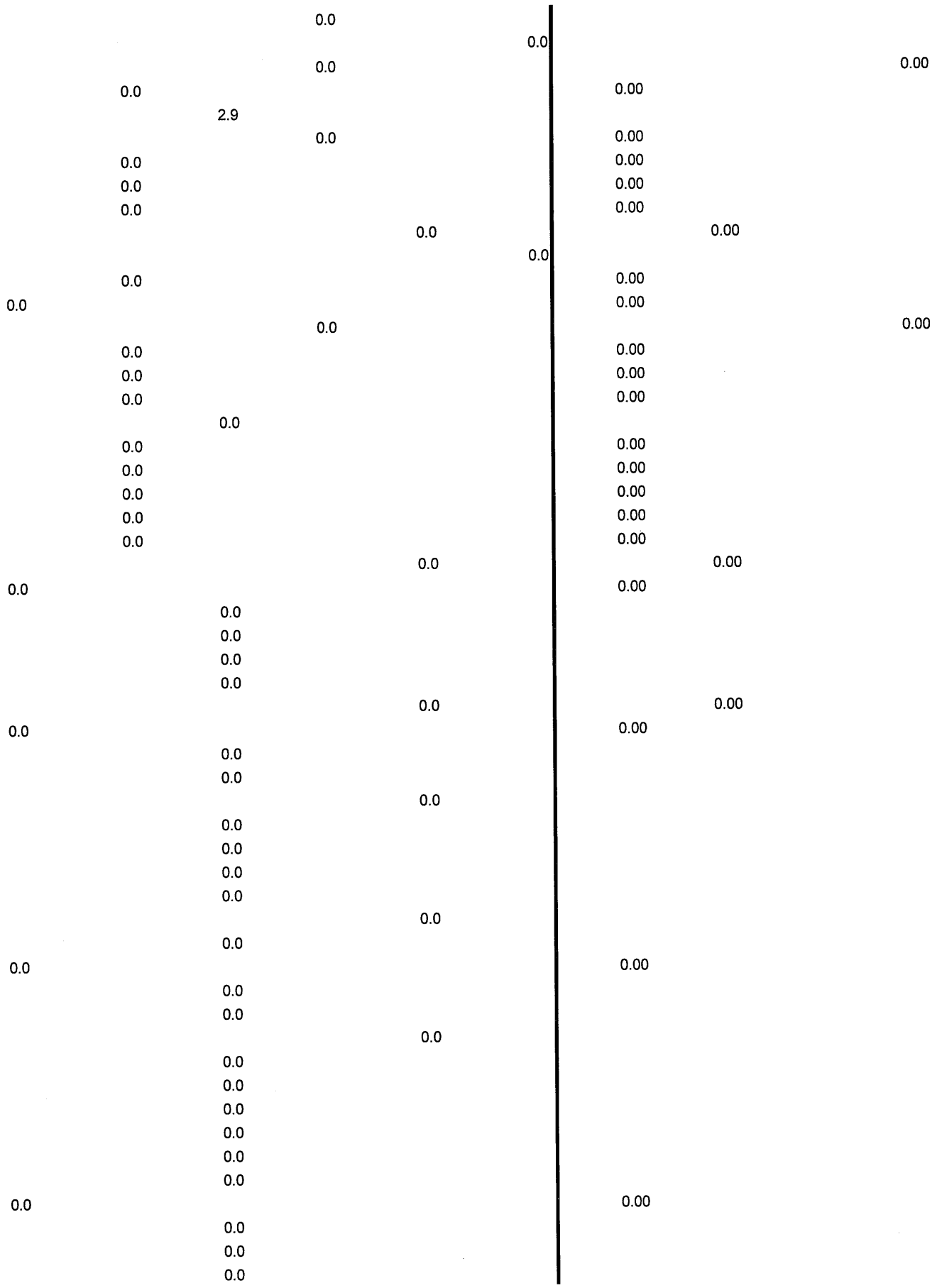
					0.0				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59.7	3.6	2.9	0.0	8.6	0.0	63.3	8.6	0.0	0.0

3.13	0.00		
0.00	0.00		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
	0.00				
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0.0	0.0	0.0	0.0	2.9	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**20**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.18
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\left|\frac{\text{(Astdni)}}{\text{(Cstdni)}}\right|_i$

2) ppbC = $\frac{\text{6 Carbons} \times \text{Ansamp} \times \text{CDF} \times 1000}{\text{(Avg RFn)} \times \text{SV}}$ = **Cn**

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = (amt(ppbv) $\frac{\text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.09E+04	1948	2.9	1.47	1.69
Acetylene	2	TRG	26.0	2.09E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.09E+04	11642	17.5	8.77	10.81
Propene	3	TRG	4.5	2.09E+04	4	5.7	1.91	3.29
Propane	3	TRG	44.1	2.09E+04	16365	24.6	8.21	14.85
i-Butane	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.09E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.09E+04	9557	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.09E+04	0	14.4	3.60	8.57
c-2-Butene	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.09E+04	2386	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.09E+04	0	3.6	0.72	2.13
n-Pentane	5	TRG	70.1	2.09E+04	2078	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.09E+04	0	3.1	0.63	1.85
2,2-Dimethylbutane	5	TRG	68.1	2.09E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.09E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.09E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.09E+04	1912	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.09E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.09E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.09E+04	0	2.9	0.48	1.54	
2-Methylheptane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.09E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.09E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.09E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.09E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.09E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.09E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.09E+04	89038	134.1	22.35	78.95	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.09E+04	89038	134.1	134.08	87.92	
Total Volatile Organic Compoun	8	TRG	100.0	2.09E+04	0	0.0	0.00	0.00	
TPH (gasoline)	7	TRG	95.0	2.09E+04	0	0.0	0.00	0.00	
TPH (diesel)	15	TRG	198.0	2.09E+04	0	0.0	0.00	0.00	
TPH (hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	
TPH (toluene)	7	TRG	92.1	2.09E+04	0	0.0	0.00	0.00	
TPH (methane)	1	TRG	16.0	2.09E+04	0	0.0	0.00	0.00	
TPH (Jet A Fuel)	13	TRG	177.0	2.09E+04	0	0.0	0.00	0.00	
TPH (Mineral Spirits)	8	TRG	117.8	2.09E+04	0	0.0	0.00	0.00	
C6+ (hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.09E+04		74.8			Sum ID
Paraffins	P	TRG	0.0	2.09E+04		59.7			Sum P
Isoparaffins	I	TRG	0.0	2.09E+04		3.6			Sum I
Aromatics	A	TRG	0.0	2.09E+04		2.9			Sum A
Napthlenes	N	TRG	0.0	2.09E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.09E+04		8.6			Sum O
Oxygenates		TRG	0.0	2.09E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.09E+04	13590	20.5	10.23	12.62	
C3 (propane)	3	TRG	44.1	2.09E+04	20161	30.4	10.12	18.29	
C4 (Butane)	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.09E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.09E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.09E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.09E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.09E+04	33751	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 21

File Name: 2510021A
Description: T-203
Canister: 858
QC_Batch: 033125-GCK

Date Sampled: 03/20/25 **Time:** 8:33
Date Analyzed: 03/31/25 **Time:** 18:22
Can Factor: 1.20
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.20	3.59	37.79	1.38	4.13	43.52	
74-86-2	Acetylene	1.20	3.59	52.93	1.27	3.82	56.41	
74-84-0	Ethane	1.20	3.59	70.78	1.48	4.43	87.31	
115-07-1	Propene	0.80	2.39	148.06	1.38	4.13	255.47	
74-98-6	Propane	0.80	2.39	187.26	1.44	4.32	338.45	
75-28-5	i-Butane	0.60	1.79	ND	1.42	4.27	ND	ND
106-98-9	1-Butene	0.60	1.79	ND	1.37	4.12	ND	ND
106-97-8	n-Butane	0.60	1.79	131.44	1.42	4.27	312.97	
624-64-6	t-2-Butene	0.60	1.79	1.16	1.37	4.12	2.67	J
590-18-1	c-2-Butene	0.60	1.79	ND	1.37	4.12	ND	ND
78-78-4	i-Pentane	0.48	1.44	5.81	1.42	4.25	17.20	
109-67-1	1-Pentene	0.48	1.44	5.71	1.37	4.12	16.41	
109-66-0	n-Pentane	0.48	1.44	5.33	1.41	4.24	15.75	
646-04-8	t-2-Pentene	0.48	1.44	2.83	1.37	4.12	8.12	
627-20-3	c-2-Pentene	0.48	1.44	0.94	1.37	4.12	2.71	J
75-83-2	2,2-Dimethylbutane	0.40	1.20	0.71	1.41	4.22	2.50	J
142-29-0	Cyclopentene	0.48	1.44	ND	1.34	4.01	ND	ND
287-92-3	Cyclopentane	0.48	1.44	1.38	1.37	4.12	3.95	J
79-29-8	2,3-Dimethylbutane	0.40	1.20	ND	1.41	4.22	ND	ND
107-83-5	2-Methylpentane	0.40	1.20	1.67	1.41	4.22	5.89	
96-14-0	3-Methylpentane	0.40	1.20	1.09	1.41	4.22	3.86	J
592-41-6	1-Hexene	0.40	1.20	ND	1.38	4.13	ND	ND
110-54-3	n-Hexane	0.40	1.20	2.22	1.41	4.22	7.85	
1120-62-3	3-Methylcyclopentene	0.40	1.20	1.11	1.34	4.02	3.73	J
96-37-7	Methylcyclopentane	0.40	1.20	0.40	1.38	4.13	1.38	J
108-08-7	2,4-Dimethylpentane	0.34	1.03	1.14	1.40	4.21	4.66	
71-43-2	Benzene	0.40	1.20	6.77	1.28	3.83	21.68	
110-82-7	Cyclohexane	0.40	1.20	ND	1.38	4.13	ND	ND
591-76-4	2-Methylhexane	0.34	1.03	1.19	1.40	4.21	4.87	
565-59-3	2,3-Dimethylpentane	0.34	1.03	0.82	1.40	4.21	3.37	J
589-34-4	3-Methylhexane	0.34	1.03	1.92	1.40	4.21	7.90	
540-84-1	2,2,4-Trimethylpentane	0.30	0.90	1.45	1.40	4.20	6.80	
142-82-5	n-Heptane	0.34	1.03	1.99	1.40	4.21	8.18	
108-87-2	Methylcyclohexane	0.34	1.03	2.80	1.38	4.13	11.27	
592-13-2	2,5-Dimethylhexane	0.30	0.90	ND	1.40	4.20	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.90	0.90	1.40	4.20	4.22	
565-75-3	2,3,4-Trimethylpentane	0.30	0.90	0.68	1.40	4.20	3.19	J

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.34	1.03	31.84	1.29	3.87	120.18	
584-94-1	2,3-Dimethylhexane	0.30	0.90	ND	1.40	4.20	ND	ND
592-27-8	2-Methylheptane	0.30	0.90	1.56	1.40	4.20	7.31	
589-53-7	4-Methylheptane	0.30	0.90	2.53	1.40	4.20	11.84	
589-81-1	3-Methylheptane	0.30	0.90	1.67	1.40	4.20	7.82	
111-65-9	n-Octane	0.30	0.90	3.30	1.40	4.20	15.47	
100-41-4	Ethylbenzene	0.30	0.90	11.18	1.30	3.90	48.66	
108-38-3	m,p-xylene	0.30	0.90	40.52	1.30	3.90	176.36	
100-42-5	Styrene	0.30	0.90	ND	1.28	3.83	ND	ND
95-47-6	o-xylene	0.30	0.90	22.50	1.30	3.90	97.91	
111-84-2	n-Nonane	0.27	0.80	12.42	1.40	4.19	65.28	
98-82-8	i-Propylbenzene	0.27	0.80	3.68	1.31	3.93	18.11	
103-65-1	n-propylbenzene	0.27	0.80	ND	1.31	3.93	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.80	ND	1.31	3.93	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.80	3.24	1.31	3.93	15.98	
108-67-8	1,3,5-Trimethylbenzene	0.27	0.80	ND	1.31	3.93	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.80	ND	1.31	3.93	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.80	ND	1.31	3.93	ND	ND
124-18-5	n-Decane	0.24	0.72	7.90	1.39	4.18	46.05	
526-73-8	1,2,3-Trimethylbenzene	0.27	0.80	ND	1.31	3.93	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.72	ND	1.32	3.95	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.72	ND	1.32	3.95	ND	ND
104-51-8	n-Butylbenzene	0.24	0.72	ND	1.32	3.95	ND	ND
1120-21-4	Undecane	0.22	0.65	ND	1.39	4.18	ND	ND
91-20-3	Naphthalene	0.24	0.72	ND	1.26	3.77	ND	ND
112-40-3	Dodecane	0.20	0.60	ND	1.39	4.17	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	8.97	26.91	1,330.95	31.69	95.06	4,701.97	
TNMHC - C1	Total Non-Methane Hydrocarbons	53.82	161.45	7,985.72	35.29	105.87	5,236.54	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **21**
File Name: **2510021A**
Sample ID: **T-203**
Sampled: **3/20/2025** Time: **8:33** Matrix **AA**
Received: **03/21/25** Time: **14:30** Chem **TRG**
Analyzed: **03/31/25** Time: **18:22** MDL Fac: **1.0**
QCBatch: **033125-GCK** Unit Factor **1000** 1000 for ppb 1 for ppm
Can: **858** Hexane Area: **377602**
Can Factor: **1.20** Hexane Concentration: **18.05**
Volume: **200.0** Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Type: **SA** Standard ID: **ST62344**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M

RT Win	C2-C4	C5-C12
RT	**0.3**	**0.1**
RTI	**3**	**3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.06	**3.99**	49579	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.10	**4.11**	69444	NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.17**	92856	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.11**	291366	I	I	H	290	290
74-98-6	Propane	P	5.20	**5.20**	**5.22**	368503	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.62**						133	351
67-56-1	Methanol		8.30	8.32						133	401
106-98-9	1-Butene	P	7.29	7.31	**7.28**	1194	I	I	H	366	367
106-99-0	1,3-Butadiene		**7.48**	7.50						133	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**	344864	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75	**8.72**	3050	I	I	H	409	410
590-18-1	c-2-Butene	P	9.63	9.63						200	431
64-17-5	Ethanol		10.85	10.88						200	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.08						200	465
67-64-1	Acetone		11.52	11.55						200	476
78-78-4	i-Pentane	P	11.37	11.40	**11.44**	19061	I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.33	**12.35**	18731	I	I	H	496	495
67-63-0	Isopropanol		12.65	12.68						200	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.39						200	497
109-66-0	n-Pentane	P	12.48	**12.51**	**12.51**	17482	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.58						163	503
646-04-8	t-2-Pentene	P	12.79	12.82	**12.86**	9273	I	I	H	510	510
627-20-3	c-2-Pentene	P	13.08	13.11	**13.15**	3094	I	I	H	517	518
75-65-0	Tert butyl alcohol		**13.55**	13.58						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.65						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.80	**13.83**	2783	I	I	H	536	537
142-29-0	Cyclopentene	15	**14.61**	14.64						163	551
71-23-8	n-Propanol		**14.75**	14.78						163	558
287-92-3	Cyclopentane	P	14.88	14.91	**14.83**	4510	I	O	M	563	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.03						163	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.09						163	570
107-83-5	2-Methylpentane	P	15.08	15.11	**15.12**	6560	I	I	H	571	571
96-14-0	3-Methylpentane	P	15.55	15.58	**15.62**	4298	I	I	H	584	583
592-41-6	1-Hexene	P	**15.80**	15.83						163	590
110-54-3	n-Hexane	P	16.17	**16.20**	**16.21**	8742	I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.34						256	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.49	**16.46**	4363	I	O	M	606	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.84						214	623
96-37-7	Methylcyclopentane		P	16.86	16.90	**16.96**	1572	I	I	H	623	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.09	**17.10**	5216	I	I	H	627	626
71-43-2	Benzene		P	17.87	**17.91**	**17.91**	26655	I	I	H	653	651
110-82-7	Cyclohexane		P	18.14	18.18						97	658
591-76-4	2-Methylhexane		P	18.38	18.42	**18.44**	5446	I	I	H	669	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.49	**18.50**	3768	I	I	H	671	671
589-34-4	3-Methylhexane		P	18.66	18.70	**18.71**	8832	I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.79						97	687
994-05-8	Tert amyl methyl ether			**18.80**	18.84						97	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.13	**19.13**	7626	I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.45	**19.44**	9151	I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.13	**20.15**	12859	I	I	H	725	722
592-13-2	2,5-Dimethylhexane			20.35	20.39	**20.42**	927	I	I	H	734	734
589-43-5	2,4-Dimethylhexane			20.43	20.47	**20.48**	4726	I	I	H	736	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.97	**20.92**	3580	I	I	H	752	753
108-88-3	Toluene		P	21.12	**21.16**	**21.15**	146198	I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.23						24	763
592-27-8	2-Methylheptane		P	21.33	21.36	**21.39**	8199	I	I	H	768	768
589-53-7	4-Methylheptane	48		**21.48**	21.51	**21.47**	13279	I	O	M	771	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.53						24	772
589-81-1	3-Methylheptane		p	21.55	21.58	**21.62**	8765	I	I	H	776	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.13						24	786
111-65-9	n-Octane		P	22.27	22.30	**22.31**	17341	I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.78	**23.79**	58672	I	I	H	857	855
108-38-3	m,p-xylene		P	23.95	23.98	**24.01**	212630	I	I	H	865	863
100-42-5	Styrene		P	24.40	24.43						-56	881
95-47-6	o-xylene		P	24.57	24.60	**24.63**	118050	I	I	H	889	886
124-11-8	1-Nonene	64		24.60	24.63						-56	889
111-84-2	n-Nonane		P	24.87	24.90	**24.92**	73294	I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.39	**25.43**	21699	I	I	H	921	919
103-65-1	n-propylbenzene		P	25.93	25.96						-151	947
80-56-8	a-Pinene			26.09	26.12						-151	950
620-14-4	3-Ethyltoluene		P	26.17	26.20						-151	957
622-96-8	4-Ethyltoluene		P	26.26	26.29		19149				-151	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.48						-151	964
611-14-3	2-Ethyltoluene		P	26.61	26.64						-151	975
127-91-3	b-Pinene			26.80	26.83						-151	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.11						-151	991
124-18-5	n-Decane		P	27.26	27.29	**27.29**	51795	I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.58						-62	1014
496-11-7	Indan	81		27.55	27.58						-62	1020
5989-27-5	d-Limonene			27.65	27.68						-62	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.13						-62	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.26						-62	1037
104-51-8	n-Butylbenzene			28.45	28.48						-62	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.63						-62	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.78						-62	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.86						-62	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.48						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.53						-48	1124
91-20-3	Naphthalene		32.25	32.28						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					5238215		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					5238215		101432			
TNMHC - C1	Total Non-Methane Hydrocarbons					5238215		868368			
TVOC	Total Volatile Organic Compounds					3901940		184930			
TPH(g)	TPH (gasoline)					3901940		181545			
TPH(d)	TPH (diesel)					3901940		0			
TPH(h)	TPH (hexane)					3901940		0			
TPH(t)	TPH (toluene)					3901940		0			
TPHC	TPH (methane)					3901940		0			
TPH(Jet A)	TPH (Jet A Fuel)					3901940		**1336275** Total Subtracted			
TPH (MS)	TPH (Mineral Spirits)					3901940					
C6+	**C6+ (hexane)**		16.17	16.20	16.21	**0**		Sum from	16.20	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			211879		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			659869		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**871748**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	033125-GCK		
Hexane Std Area:	377602		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.20	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.20		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	75.58	37.79	43.52	75.58	37.79	43.52	43.52	43.52
Acetylene	26.0	2	105.87	52.93	56.41	105.87	52.93	56.41	56.41	56.41
Ethane	30.1	2	141.56	70.78	87.31	141.56	70.78	87.31	87.31	87.31
Propene	42.1	3	444.19	148.06	255.47	444.19	148.06	255.47	255.47	255.47
Propane	44.1	3	561.79	187.26	338.45	561.79	187.26	338.45	338.45	338.45
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	1.82	0.46	1.05	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	525.75	131.44	312.97	525.75	131.44	312.97	312.97	312.97
t-2-Butene	56.1	4	4.65	1.16	2.67	4.65	1.16	2.67	2.67	2.67
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	29.06	5.81	17.20	29.06	5.81	17.20	17.20	17.20
1-Pentene	70.1	5	28.56	5.71	16.41	28.56	5.71	16.41	16.41	16.41
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	26.65	5.33	15.75	26.65	5.33	15.75	15.75	15.75
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	14.14	2.83	8.12	14.14	2.83	8.12	8.12	8.12
c-2-Pentene	70.1	5	4.72	0.94	2.71	4.72	0.94	2.71	2.71	2.71
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	4.24	0.71	2.50	4.24	0.71	2.50	2.50	2.50
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	6.88	1.38	3.95	6.88	1.38	3.95	3.95	3.95
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	10.00	1.67	5.89	10.00	1.67	5.89	5.89	5.89
3-Methylpentane	86.2	6	6.55	1.09	3.86	6.55	1.09	3.86	3.86	3.86
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	13.33	**2.22**	7.85	13.33	2.22	7.85	7.85	7.85
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	6.65	1.11	3.73	6.65	1.11	3.73	3.73	3.73
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	2.40	0.40	1.38	2.40	0.40	1.38	1.38	1.38
2,4-Dimethylpentane	100.2	7	7.95	1.14	4.66	7.95	1.14	4.66	4.66	4.66
Benzene	78.1	6	40.64	6.77	21.68	40.64	6.77	21.68	21.68	21.68
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	8.30	1.19	4.87	8.30	1.19	4.87	4.87	4.87
2,3-Dimethylpentane	100.2	7	5.74	0.82	3.37	5.74	0.82	3.37	3.37	3.37
3-Methylhexane	100.2	7	13.46	1.92	7.90	13.46	1.92	7.90	7.90	7.90
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	11.63	1.45	6.80	11.63	1.45	6.80	6.80	6.80
n-Heptane	100.2	7	13.95	1.99	8.18	13.95	1.99	8.18	8.18	8.18
Methylcyclohexane	98.2	7	19.60	2.80	11.27	19.60	2.80	11.27	11.27	11.27
2,5-Dimethylhexane	114.2	8	1.41	0.18	0.83	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	7.20	0.90	4.22	7.20	0.90	4.22	4.22	4.22
2,3,4-Trimethylpentane	114.2	8	5.46	0.68	3.19	5.46	0.68	3.19	3.19	3.19
Toluene	92.1	7	222.88	31.84	120.18	222.88	31.84	120.18	120.18	120.18
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	12.50	1.56	7.31	12.50	1.56	7.31	7.31	7.31
4-Methylheptane	114.2	8	20.24	2.53	11.84	20.24	2.53	11.84	11.84	11.84
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	13.36	1.67	7.82	13.36	1.67	7.82	7.82	7.82
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	26.44	3.30	15.47	26.44	3.30	15.47	15.47	15.47
Ethylbenzene	106.2	8	89.45	11.18	48.66	89.45	11.18	48.66	48.66	48.66
m,p-xylene	106.2	8	324.16	40.52	176.36	324.16	40.52	176.36	176.36	176.36
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	179.97	22.50	97.91	179.97	22.50	97.91	97.91	97.91
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	111.74	12.42	65.28	111.74	12.42	65.28	65.28	65.28
i-Propylbenzene	120.2	9	33.08	3.68	18.11	33.08	3.68	18.11	18.11	18.11
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	29.19	3.24	15.98	29.19	3.24	15.98	15.98	15.98
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	78.96	7.90	46.05	78.96	7.90	46.05	46.05	46.05
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	7985.72	1331.0	4702.0	7,985.72	1,330.95	4,701.97	4,701.97	4,701.97
Total Non-Methane Hydrocarbons	16	1.0	7985.72	7985.7	5236.5	7,985.72	7,985.72	5,236.54	5,236.54	5,236.54
Total Volatile Organic Compounds	100	7.6	5948.55	782.7	3207.8	5,948.55	782.70	3,207.80	3,207.80	3,207.80
TPH (gasoline)	95	7.0	5948.55	849.8	3308.6	5,948.55	849.79	3,308.62	3,308.62	3,308.62
TPH (diesel)	198	15.0	5948.55	396.6	3218.1	5,948.55	396.57	3,218.07	3,218.07	3,218.07
TPH (hexane)	86.2	6.0	5948.55	991.4	3502.5	5,948.55	991.43	3,502.49	3,502.49	3,502.49
TPH (toluene)	92.14	7.0	5948.55	849.8	3209.0	5,948.55	849.79	3,209.01	3,209.01	3,209.01
TPH (methane)	16	1.0	5948.55	5948.6	3900.7	5,948.55	5,948.55	3,900.69	3,900.69	3,900.69
TPH (Jet A Fuel)	177	13.0	5948.55	457.6	3319.3	5,948.55	457.58	3,319.34	3,319.34	3,319.34
TPH (Mineral Spirits)	117.81	8.0	5948.55	743.6	3590.2	5,948.55	743.57	3,590.16	3,590.16	3,590.16
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			3038.7	821.3						
Paraffins			1500.2							
Isoparaffins			157.1							
Aromatics			919.4							
Napthlenes			35.5							
Olefins			679.5							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	323.01	161.51	199.23	323.01	161.51	199.23	199.23	199.23
C3 (propane)	44.1	3	1005.98	335.33	606.06	1,005.98	335.33	606.06	606.06	606.06
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			1329.0							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	26.7	4.44	13.13					
Aliphatic C6-C8	100.2	7	53.7	7.67	31.51					
Aliphatic C8-C10	128.3	9	111.7	12.42	65.28					
Aliphatic C10-C12	142.8	11	79.0	7.18	42.01					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	4.2	0.71	2.50					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	1657.3	54.5
Alkenes	573.7	18.9
Alkynes	105.9	3.5
Cycloalkanes	28.9	1.0
Cycloalkenes	6.7	0.2
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	919.4	30.3
Terpenes	0.0	0.0

SDG: **225100**
Laboratory Number: **21**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
4.6	2.000	1.00	1.20	1.38	2.39	3.59	4.13	7.2		=		Y
6.4	2.000	1.00	1.20	1.27	2.39	3.59	3.82	7.2		=		Y
8.6	2.000	1.00	1.20	1.48	2.39	3.59	4.43	7.2		=		Y
18.0	2.000	0.67	0.80	1.38	2.39	2.39	4.13	7.2		=		Y
22.8	2.000	0.67	0.80	1.44	2.39	2.39	4.32	7.2		=		Y
0.0	2.000	0.50	0.60	1.42	2.39	1.79	4.27	7.2	U	ND		Y
0.0	2.000	2.00	2.39	3.14	2.39	7.18	9.41	7.2	U	ND		Y
0.1	2.000	0.50	0.60	1.37	2.39	1.79	4.12	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.33	2.39	1.79	3.98	7.2	U	ND		Y
16.0	2.000	0.50	0.60	1.42	2.39	1.79	4.27	7.2		=		Y
0.1	2.000	0.50	0.60	1.37	2.39	1.79	4.12	7.2	J	=		Y
0.0	2.000	0.50	0.60	1.37	2.39	1.79	4.12	7.2	U	ND		Y
0.0	2.000	1.00	1.20	2.26	2.39	3.59	6.78	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.39	1.44	4.12	7.2	U	ND		Y
0.0	2.000	0.67	0.80	1.90	2.39	2.39	5.70	7.2	U	ND		Y
0.7	2.000	0.40	0.48	1.42	2.39	1.44	4.25	7.2		=		Y
0.7	2.000	0.40	0.48	1.37	2.39	1.44	4.12	7.2		=		Y
0.0	2.000	0.67	0.80	1.96	2.39	2.39	5.89	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.39	1.44	4.12	7.2	U	ND		Y
0.6	2.000	0.40	0.48	1.41	2.39	1.44	4.24	7.2		=		Y
0.0	2.000	0.40	0.48	1.34	2.39	1.44	4.01	7.2	U	ND		Y
0.3	2.000	0.40	0.48	1.37	2.39	1.44	4.12	7.2		=		Y
0.1	2.000	0.40	0.48	1.37	2.39	1.44	4.12	7.2	J	=		Y
0.0	2.000	0.50	0.60	1.82	2.39	1.79	5.45	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.39	1.44	4.12	7.2	U	ND		Y
0.1	2.000	0.33	0.40	1.41	2.39	1.20	4.22	7.2	J	=		Y
0.0	2.000	0.40	0.48	1.34	2.39	1.44	4.01	7.2	U	ND		Y
0.0	2.000	0.67	0.80	1.96	2.39	2.39	5.89	7.2	U	ND		Y
0.2	2.000	0.40	0.48	1.37	2.39	1.44	4.12	7.2	J	=		Y
0.0	2.000	0.40	0.48	1.73	2.39	1.44	5.19	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.41	2.39	1.20	4.22	7.2	U	ND		Y
0.2	2.000	0.33	0.40	1.41	2.39	1.20	4.22	7.2		=		Y
0.1	2.000	0.33	0.40	1.41	2.39	1.20	4.22	7.2	J	=		Y
0.0	2.000	0.33	0.40	1.38	2.39	1.20	4.13	7.2	U	ND		Y
0.3	2.000	0.33	0.40	1.41	2.39	1.20	4.22	7.2		=		Y
0.0	2.000	0.33	0.40	1.67	2.39	1.20	5.01	7.2	U	ND		Y

0.1	2.000	0.33	0.40	1.34	2.39	1.20	4.02	7.2	J	=	Y
0.0	2.000	0.33	0.40	1.67	2.39	1.20	5.01	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.38	2.39	1.20	4.13	7.2	J	=	Y
0.1	2.000	0.29	0.34	1.40	2.39	1.03	4.21	7.2		=	Y
0.8	2.000	0.33	0.40	1.28	2.39	1.20	3.83	7.2		=	Y
0.0	2.000	0.33	0.40	1.38	2.39	1.20	4.13	7.2	U	ND	Y
0.1	2.000	0.29	0.34	1.40	2.39	1.03	4.21	7.2		=	Y
0.1	2.000	0.29	0.34	1.40	2.39	1.03	4.21	7.2	J	=	Y
0.2	2.000	0.29	0.34	1.40	2.39	1.03	4.21	7.2		=	Y
0.0	2.000	0.29	0.34	1.38	2.39	1.03	4.13	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.67	2.39	1.20	5.01	7.2	U	ND	Y
0.2	2.000	0.25	0.30	1.40	2.39	0.90	4.20	7.2		=	Y
0.2	2.000	0.29	0.34	1.40	2.39	1.03	4.21	7.2		=	Y
0.3	2.000	0.29	0.34	1.38	2.39	1.03	4.13	7.2		=	Y
0.0	2.000	0.25	0.30	1.40	2.39	0.90	4.20	7.2	U	ND	Y
0.1	2.000	0.25	0.30	1.40	2.39	0.90	4.20	7.2		=	Y
0.1	2.000	0.25	0.30	1.40	2.39	0.90	4.20	7.2	J	=	Y
3.9	2.000	0.29	0.34	1.29	2.39	1.03	3.87	7.2		=	Y
0.0	2.000	0.25	0.30	1.40	2.39	0.90	4.20	7.2	U	ND	Y
0.2	2.000	0.25	0.30	1.40	2.39	0.90	4.20	7.2		=	Y
0.3	2.000	0.25	0.30	1.40	2.39	0.90	4.20	7.2		=	Y
0.0	2.000	0.25	0.30	1.40	2.39	0.90	4.20	7.2	U	ND	Y
0.2	2.000	0.25	0.30	1.40	2.39	0.90	4.20	7.2		=	Y
0.0	2.000	0.25	0.30	1.37	2.39	0.90	4.12	7.2	U	ND	Y
0.4	2.000	0.25	0.30	1.40	2.39	0.90	4.20	7.2		=	Y
1.4	2.000	0.25	0.30	1.30	2.39	0.90	3.90	7.2		=	Y
4.9	2.000	0.25	0.30	1.30	2.39	0.90	3.90	7.2		=	Y
0.0	2.000	0.25	0.30	1.28	2.39	0.90	3.83	7.2	U	ND	Y
2.7	2.000	0.25	0.30	1.30	2.39	0.90	3.90	7.2		=	Y
0.0	2.000	0.22	0.27	1.37	2.39	0.80	4.12	7.2	U	ND	Y
1.5	2.000	0.22	0.27	1.40	2.39	0.80	4.19	7.2		=	Y
0.4	2.000	0.22	0.27	1.31	2.39	0.80	3.93	7.2		=	Y
0.0	2.000	0.22	0.27	1.31	2.39	0.80	3.93	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.39	0.72	4.01	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.31	2.39	0.80	3.93	7.2	U	ND	Y
0.4	2.000	0.22	0.27	1.31	2.39	0.80	3.93	7.2		=	Y
0.0	2.000	0.22	0.27	1.31	2.39	0.80	3.93	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.31	2.39	0.80	3.93	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.39	0.72	4.01	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.31	2.39	0.80	3.93	7.2	U	ND	Y
1.0	2.000	0.20	0.24	1.39	2.39	0.72	4.18	7.2		=	Y
0.0	2.000	0.22	0.27	1.31	2.39	0.80	3.93	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.29	2.39	0.80	3.86	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.39	0.72	4.01	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.32	2.39	0.72	3.95	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.32	2.39	0.72	3.95	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.32	2.39	0.72	3.95	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.32	2.39	0.72	3.95	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.32	2.39	0.72	3.95	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.32	2.39	0.72	3.95	7.2	U	ND	Y
0.0	2.000	0.18	0.22	1.39	2.39	0.65	4.18	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.32	2.39	0.72	3.95	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.32	2.39	0.72	3.95	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.26	2.39	0.72	3.77	7.2	U	ND	Y

0.0	2.000	0.17	0.20	1.39	2.39	0.60	4.17	7.2	U	ND	Y
%											Y
100.0	45.00	7.5	8.97	31.69	53.82	26.9	95.1	161.4		=	Y
100.0	45.00	45.0	53.82	35.29	53.82	161.4	105.9	161.4		=	Y
74.5	45.00	5.9	7.08	29.02	53.82	21.2	87.1	161.4		=	Y
74.5	45.00	6.4	7.69	29.93	53.82	23.1	89.8	161.4		=	Y
74.5	45.00	3.0	3.59	29.11	53.82	10.8	87.3	161.4		=	Y
74.5	45.00	7.5	8.97	31.69	53.82	26.9	95.1	161.4		=	Y
74.5	45.00	6.4	7.69	29.03	53.82	23.1	87.1	161.4		=	Y
74.5	45.00	45.0	53.82	35.29	53.82	161.4	105.9	161.4		=	Y
74.5	45.00	3.5	4.14	30.03	53.82	12.4	90.1	161.4		=	Y
74.5	45.00	5.6	6.73	32.48	53.82	20.2	97.4	161.4		=	Y
0.0	45.00	7.5	8.97	31.69	53.82	26.9	95.1	161.4	U	ND	Y
0.0	25.000	3.6	4.27	16.63	29.90	12.8	49.9	89.7	U	ND	Y
%											Y
38.1											Y
49.4											Y
5.2											Y
30.3											Y
1.2											Y
22.4											Y
0.0											Y
%											Y
24.3	5.000	2.5	2.99	3.69	5.98	9.0	11.1	17.9		=	Y
75.7	5.000	1.7	1.99	3.60	5.98	6.0	10.8	17.9		=	Y
0.0	25.000	6.3	7.47	17.80	29.90	22.4	53.4	89.7	U	ND	Y
0.0	25.000	5.0	5.98	17.68	29.90	17.9	53.0	89.7	U	ND	Y
0.0	25.000	4.2	4.98	17.60	29.90	14.9	52.8	89.7	U	ND	Y
0.0	25.000	3.6	4.27	17.54	29.90	12.8	52.6	89.7	U	ND	Y
0.0	25.000	3.1	3.74	17.49	29.90	11.2	52.5	89.7	U	ND	Y
0.0	25.000	2.8	3.32	17.46	29.90	10.0	52.4	89.7	U	ND	Y
0.0	25.000	2.5	2.99	17.44	29.90	9.0	52.3	89.7	U	ND	Y
0.0	25.000	2.3	2.72	17.41	29.90	8.2	52.2	89.7	U	ND	Y
0.0	25.000	2.1	2.49	17.39	29.90	7.5	52.2	89.7	U	ND	Y
0.0	25.000	2.1	2.49	17.39	29.90	7.5	52.2	89.7	U	ND	Y
100.0											Y
											Y
0.3	6.0	1.0	1.20	3.54	7.18	3.6	10.6	21.5			Y
0.7	6.0	0.9	1.03	4.21	7.18	3.1	12.6	21.5			Y
1.4	6.0	0.7	0.80	4.19	7.18	2.4	12.6	21.5			Y
1.0	6.0	0.5	0.65	3.82	7.18	2.0	11.5	21.5			Y
0.0	6.0	0.7	0.80	3.73	7.18	2.4	11.2	21.5			Y
0.0	6.0	0.5	0.65	3.80	7.18	2.0	11.4	21.5			Y
0.1	2.0	0.3	0.40	1.41	2.39	1.2	4.2	7.2	J	=	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
				75.6			75.58		
				105.9				105.87	
141.6						141.56			
				444.2			444.19		
561.8						561.79			
	0.0					0.00			
					0.0				
				1.8			1.82		
				0.0			0.00		
525.7						525.75			
				4.6			4.65		
				0.0			0.00		
					0.0				
				0.0			0.00		
					0.0				
	29.1					29.06			
				28.6			28.56		
					0.0				
				0.0			0.00		
26.7						26.65			
				0.0			0.00		
				14.1			14.14		
				4.7			4.72		
					0.0				
				0.0			0.00		
	4.2					4.24			
			0.0						0.00
					0.0				
			6.9						6.88
					0.0				
	0.0					0.00			
	10.0					10.00			
	6.6					6.55			
				0.0			0.00		
13.3						13.33			
					0.0				

		6.7			
			0.0		
		2.4			2.40
	8.0			7.95	
	40.6				
		0.0		0.00	
	8.3			8.30	
	5.7			5.74	
	13.5			13.46	
			0.0		0.00
			0.0		
	11.6			11.63	
14.0				13.95	
		19.6			19.60
	1.4			1.41	
	7.2			7.20	
	5.5			5.46	
	222.9				
	0.0			0.00	
	12.5			12.50	
	20.2			20.24	
	0.0			0.00	
	13.4			13.36	
			0.0		0.00
26.4				26.44	
	89.4				
	324.2				
	0.0				
	180.0				
			0.0		0.00
111.7				111.74	
	33.1				
	0.0				
			0.0		
	0.0				
	29.2				
	0.0				
	0.0				
			0.0		
	0.0				
79.0				78.96	
	0.0				
	0.0				
			0.0		
	0.0				
	0.0				
	0.0				
	0.0				
	0.0				
	0.0				
0.0				0.00	
	0.0				
	0.0				
	0.0				

0.0						0.00			
1500.2	157.1	919.4	35.5	679.5	0.0	1657.3	573.7	105.9	28.9

26.65	20.80		
53.71	107.27		
111.74	0.00		
78.96	0.00		
		190.70	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
	0.00				
	0.00				
	0.00				
				0.00	
				0.00	

6.65

0.00

40.64

0.00

222.88

89.45
324.16
0.00
179.97

33.08
0.00
0.00
0.00
29.19
0.00
0.00
0.00
0.00

0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00

6.7	0.0	0.0	0.0	919.4	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**21**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.20
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\left|\frac{(Astdni)}{(Cstdni)}\right|_i$

2) ppbC = $\frac{6 \text{ Carbons}}{(\text{Avg RFn})} \frac{\text{Ansamp}}{\text{SV}} \text{CDF} \quad 1000 = \textbf{Cn}$

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = $(\text{amt(ppbv)} \frac{\text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.09E+04	49579	75.6	37.79	43.52
Acetylene	2	TRG	26.0	2.09E+04	69444	105.9	52.93	56.41
Ethane	2	TRG	30.1	2.09E+04	92856	141.6	70.78	87.31
Propene	3	TRG	4.5	2.09E+04	4	444.2	148.06	255.47
Propane	3	TRG	44.1	2.09E+04	368503	561.8	187.26	338.45
i-Butane	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.09E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.09E+04	1194	1.8	0.46	1.05
n-Butane	4	TRG	54.1	2.09E+04	344864	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.09E+04	3050	525.7	131.44	312.97
c-2-Butene	4	TRG	56.1	2.09E+04	0	4.6	1.16	2.67
Ethanol	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.09E+04	19061	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.09E+04	18731	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.09E+04	0	29.1	5.81	17.20
n-Pentane	5	TRG	70.1	2.09E+04	17482	28.6	5.71	16.41
Isoprene	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.09E+04	9273	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.09E+04	3094	26.7	5.33	15.75
2,2-Dimethylbutane	5	TRG	68.1	2.09E+04	2783	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.09E+04	4510	14.1	2.83	8.12
2,3-Dimethylbutane	5	TRG	70.1	2.09E+04	0	4.7	0.94	2.71
2-Methylpentane	4	TRG	74.1	2.09E+04	6560	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.09E+04	4298	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.09E+04	8742	4.2	0.71	2.50
Methylcyclopentane	5	TRG	68.1	2.09E+04	1572	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.09E+04	5216	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.09E+04	26655	6.9	1.38	3.95
Cyclohexane	5	TRG	88.2	2.09E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.09E+04	5446	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.09E+04	3768	10.0	1.67	5.89
3-Methylhexane	6	TRG	86.2	2.09E+04	8832	6.6	1.09	3.86
2,2,4-Trimethylpentane	6	TRG	84.2	2.09E+04	7626	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.09E+04	9151	13.3	2.22	7.85
Methylcyclohexane	6	TRG	102.2	2.09E+04	12859	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.09E+04	927	6.7	1.11	3.73
2,4-Dimethylhexane	6	TRG	102.2	2.09E+04	4726	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.09E+04	3580	2.4	0.40	1.38	
Toluene	7	TRG	100.2	2.09E+04	146198	8.0	1.14	4.66	
2,3-Dimethylhexane	6	TRG	78.1	2.09E+04	0	40.6	6.77	21.68	
2-Methylheptane	6	TRG	84.2	2.09E+04	8199	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.09E+04	8765	8.3	1.19	4.87	
n-Octane	7	TRG	100.2	2.09E+04	17341	5.7	0.82	3.37	
Ethylbenzene	7	TRG	100.2	2.09E+04	58672	13.5	1.92	7.90	
m,p-xylene	7	TRG	98.2	2.09E+04	212630	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.09E+04	118050	11.6	1.45	6.80	
n-Nonane	7	TRG	100.2	2.09E+04	73294	14.0	1.99	8.18	
i-Propylbenzene	7	TRG	98.2	2.09E+04	21699	19.6	2.80	11.27	
n-propylbenzene	8	TRG	114.2	2.09E+04	0	1.4	0.18	0.83	
a-Pinene	8	TRG	114.2	2.09E+04	0	7.2	0.90	4.22	
3-Ethyltoluene	8	TRG	114.2	2.09E+04	0	5.5	0.68	3.19	
4-Ethyltoluene	7	TRG	92.1	2.09E+04	19149	222.9	31.84	120.18	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.09E+04	0	12.5	1.56	7.31	
b-Pinene	8	TRG	114.2	2.09E+04	0	20.2	2.53	11.84	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.09E+04	51795	13.4	1.67	7.82	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.09E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.09E+04	0	26.4	3.30	15.47	
1,3-Diethylbenzene	8	TRG	106.2	2.09E+04	0	89.4	11.18	48.66	
1,4-Diethylbenzene	8	TRG	106.2	2.09E+04	0	324.2	40.52	176.36	
n-Butylbenzene	8	TRG	104.2	2.09E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.09E+04	0	180.0	22.50	97.91	
Dodecane	9	TRG	126.2	2.09E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.09E+04	5238215	7985.7	1330.95	4701.97	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.09E+04	5238215	7985.7	7985.72	5236.54	
Total Volatile Organic Compoun	8	TRG	100.0	2.09E+04	3901940	5948.6	782.70	3207.80	
TPH (gasoline)	7	TRG	95.0	2.09E+04	3901940	5948.6	849.79	3308.62	
TPH (diesel)	15	TRG	198.0	2.09E+04	3901940	5948.6	396.57	3218.07	
TPH (hexane)	6	TRG	86.2	2.09E+04	3901940	5948.6	991.43	3502.49	
TPH (toluene)	7	TRG	92.1	2.09E+04	3901940	5948.6	849.79	3209.01	
TPH (methane)	1	TRG	16.0	2.09E+04	3901940	5948.6	5948.55	3900.69	
TPH (Jet A Fuel)	13	TRG	177.0	2.09E+04	3901940	5948.6	457.58	3319.34	
TPH (Mineral Spirits)	8	TRG	117.8	2.09E+04	3901940	5948.6	743.57	3590.16	
C6+ (hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.09E+04		3038.7			Sum ID
Paraffins	P	TRG	0.0	2.09E+04		1500.2			Sum P
Isoparaffins	I	TRG	0.0	2.09E+04		157.1			Sum I
Aromatics	A	TRG	0.0	2.09E+04		919.4			Sum A
Napthlenes	N	TRG	0.0	2.09E+04		35.5			Sum N
Olefins	O	TRG	0.0	2.09E+04		679.5			Sum O
Oxygenates		TRG	0.0	2.09E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.09E+04	211879	323.0	161.51	199.23	
C3 (propane)	3	TRG	44.1	2.09E+04	659869	1006.0	335.33	606.06	
C4 (Butane)	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.09E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.09E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.09E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.09E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.09E+04	871748	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 22

File Name: 2510022A
Description: T-204
Canister: 758
QC_Batch: 040225-GCK

Date Sampled: 03/20/25 **Time:** 8:29
Date Analyzed: 04/02/25 **Time:** 20:49
Can Factor: 1.18
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.18	3.53	1.80	1.35	4.06	2.07	J
74-86-2	Acetylene	1.18	3.53	ND	1.25	3.76	ND	ND
74-84-0	Ethane	1.18	3.53	38.72	1.45	4.35	47.77	
115-07-1	Propene	0.78	2.35	39.02	1.35	4.06	67.33	
74-98-6	Propane	0.78	2.35	39.40	1.42	4.25	71.21	
75-28-5	i-Butane	0.59	1.76	ND	1.40	4.20	ND	ND
106-98-9	1-Butene	0.59	1.76	ND	1.35	4.06	ND	ND
106-97-8	n-Butane	0.59	1.76	33.39	1.40	4.20	79.51	
624-64-6	t-2-Butene	0.59	1.76	ND	1.35	4.06	ND	ND
590-18-1	c-2-Butene	0.59	1.76	ND	1.35	4.06	ND	ND
78-78-4	i-Pentane	0.47	1.41	1.38	1.39	4.18	4.08	J
109-67-1	1-Pentene	0.47	1.41	0.81	1.35	4.06	2.33	J
109-66-0	n-Pentane	0.47	1.41	0.82	1.39	4.17	2.43	J
646-04-8	t-2-Pentene	0.47	1.41	1.00	1.35	4.06	2.87	J
627-20-3	c-2-Pentene	0.47	1.41	ND	1.35	4.06	ND	ND
75-83-2	2,2-Dimethylbutane	0.39	1.18	1.28	1.39	4.16	4.52	
142-29-0	Cyclopentene	0.47	1.41	ND	1.31	3.94	ND	ND
287-92-3	Cyclopentane	0.47	1.41	2.59	1.35	4.06	7.43	
79-29-8	2,3-Dimethylbutane	0.39	1.18	1.44	1.39	4.16	5.09	
107-83-5	2-Methylpentane	0.39	1.18	1.50	1.39	4.16	5.28	
96-14-0	3-Methylpentane	0.39	1.18	0.85	1.39	4.16	3.01	J
592-41-6	1-Hexene	0.39	1.18	ND	1.35	4.06	ND	ND
110-54-3	n-Hexane	0.39	1.18	0.83	1.39	4.16	2.94	J
1120-62-3	3-Methylcyclopentene	0.39	1.18	ND	1.32	3.96	ND	ND
96-37-7	Methylcyclopentane	0.39	1.18	ND	1.35	4.06	ND	ND
108-08-7	2,4-Dimethylpentane	0.34	1.01	0.59	1.38	4.14	2.43	J
71-43-2	Benzene	0.39	1.18	ND	1.26	3.77	ND	ND
110-82-7	Cyclohexane	0.39	1.18	0.41	1.35	4.06	1.43	J
591-76-4	2-Methylhexane	0.34	1.01	2.31	1.38	4.14	9.50	
565-59-3	2,3-Dimethylpentane	0.34	1.01	0.54	1.38	4.14	2.21	J
589-34-4	3-Methylhexane	0.34	1.01	0.71	1.38	4.14	2.90	J
540-84-1	2,2,4-Trimethylpentane	0.29	0.88	0.58	1.38	4.13	2.71	J
142-82-5	n-Heptane	0.34	1.01	ND	1.38	4.14	ND	ND
108-87-2	Methylcyclohexane	0.34	1.01	0.81	1.35	4.06	3.28	J
592-13-2	2,5-Dimethylhexane	0.29	0.88	ND	1.38	4.13	ND	ND
589-43-5	2,4-Dimethylhexane	0.29	0.88	ND	1.38	4.13	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.29	0.88	0.49	1.38	4.13	2.31	J

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.34	1.01	ND	1.27	3.81	ND	ND
584-94-1	2,3-Dimethylhexane	0.29	0.88	ND	1.38	4.13	ND	ND
592-27-8	2-Methylheptane	0.29	0.88	ND	1.38	4.13	ND	ND
589-53-7	4-Methylheptane	0.29	0.88	ND	1.38	4.13	ND	ND
589-81-1	3-Methylheptane	0.29	0.88	ND	1.38	4.13	ND	ND
111-65-9	n-Octane	0.29	0.88	ND	1.38	4.13	ND	ND
100-41-4	Ethylbenzene	0.29	0.88	ND	1.28	3.84	ND	ND
108-38-3	m,p-xylene	0.29	0.88	0.42	1.28	3.84	1.83	J
100-42-5	Styrene	0.29	0.88	ND	1.26	3.77	ND	ND
95-47-6	o-xylene	0.29	0.88	ND	1.28	3.84	ND	ND
111-84-2	n-Nonane	0.26	0.78	0.39	1.37	4.12	2.07	J
98-82-8	i-Propylbenzene	0.26	0.78	ND	1.29	3.86	ND	ND
103-65-1	n-propylbenzene	0.26	0.78	ND	1.29	3.86	ND	ND
620-14-4	3-Ethyltoluene	0.26	0.78	ND	1.29	3.86	ND	ND
622-96-8	4-Ethyltoluene	0.26	0.78	ND	1.29	3.86	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.26	0.78	ND	1.29	3.86	ND	ND
611-14-3	2-Ethyltoluene	0.26	0.78	ND	1.29	3.86	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.26	0.78	ND	1.29	3.86	ND	ND
124-18-5	n-Decane	0.24	0.71	ND	1.37	4.12	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.26	0.78	ND	1.29	3.86	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.71	ND	1.29	3.88	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.71	ND	1.29	3.88	ND	ND
104-51-8	n-Butylbenzene	0.24	0.71	ND	1.29	3.88	ND	ND
1120-21-4	Undecane	0.21	0.64	ND	1.37	4.11	ND	ND
91-20-3	Naphthalene	0.24	0.71	ND	1.24	3.71	ND	ND
112-40-3	Dodecane	0.20	0.59	ND	1.37	4.11	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	8.82	26.47	151.42	31.17	93.50	534.93	
TNMHC - C1	Total Non-Methane Hydrocarbons	52.93	158.80	908.50	34.71	104.13	595.74	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **22**
File Name: **2510022A**
Sample ID: **T-204**
Sampled: **3/20/2025**
Received: **03/21/25**
Analyzed: **04/02/25**
QCBatch: **040225-GCK**
Can: **758**
Can Factor: **1.18**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **8:29** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **20:49** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **385895**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C5 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.03	**4.03**	2401	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.07			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.14**	51648	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.11**	78069	I	I	H	291	290
74-98-6	Propane	P	5.20	**5.20**	**5.21**	78825	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.61**	**6.60**		I	O	M	344	351
67-56-1	Methanol		8.30	8.31						133	401
106-98-9	1-Butene	P	7.29	7.30	**7.26**	1338	I	I	H	366	367
106-99-0	1,3-Butadiene		**7.48**	7.49						133	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.33**	89068	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.74	**8.82**		I	I	H	412	410
590-18-1	c-2-Butene	P	9.63	9.62						200	431
64-17-5	Ethanol		10.85	10.87						200	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.07						200	465
67-64-1	Acetone		11.52	11.54						200	476
78-78-4	i-Pentane	P	11.37	11.39	**11.43**	4602	I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.32	**12.35**	2700	I	I	H	496	495
67-63-0	Isopropanol		12.65	12.67						200	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.38						200	497
109-66-0	n-Pentane	P	12.48	**12.50**	**12.50**	2742	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.57						162	503
646-04-8	t-2-Pentene	P	12.79	12.81	**12.85**	3335	I	I	H	510	510
627-20-3	c-2-Pentene	P	13.08	13.10						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.57						280	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.64						280	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.79	**13.82**	5120	I	I	H	536	537
142-29-0	Cyclopentene	15	**14.61**	14.63						162	551
71-23-8	n-Propanol		**14.75**	14.77						162	558
287-92-3	Cyclopentane	P	14.88	14.90	**14.99**	8620	I	I	H	567	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.02						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.08	**15.11**	5768	I	I	H	571	570
107-83-5	2-Methylpentane	P	15.08	15.10	**15.17**	5984	I	I	H	572	571
96-14-0	3-Methylpentane	P	15.55	15.57	**15.63**	3411	I	I	H	585	583
592-41-6	1-Hexene	P	**15.80**	15.82						162	590
110-54-3	n-Hexane	P	16.17	**16.19**	**16.20**	3334	I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.33						256	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.48						213	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.83						213	623
96-37-7	Methylcyclopentane		P	16.86	16.89	**16.94**		I	I	H	623	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.08	**17.09**	2767	I	I	H	627	626
71-43-2	Benzene		P	17.87	**17.90**	**17.93**	1321	I	I	H	653	651
110-82-7	Cyclohexane		P	18.14	18.20	**18.18**	1659	I	I	H	661	658
591-76-4	2-Methylhexane		P	18.38	18.44	**18.44**	10803	I	I	H	669	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.51	**18.60**	2517	I	I	H	674	671
589-34-4	3-Methylhexane		P	18.66	18.72	**18.70**	3299	I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.81						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.86						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.15	**19.10**	3084	I	I	H	689	690
142-82-5	n-Heptane		P	19.41	19.47	**19.45**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.15	**20.14**	3804	I	I	H	724	722
592-13-2	2,5-Dimethylhexane			20.35	20.41	**20.39**		I	I	H	732	734
589-43-5	2,4-Dimethylhexane			20.43	20.49	**20.46**		I	I	H	735	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.99	**20.91**	2635	I	I	H	750	753
108-88-3	Toluene		P	21.12	**21.18**	**21.12**		I	I	H	758	758
584-94-1	2,3-Dimethylhexane			21.20	21.20	**21.24**		I	I	H	762	763
592-27-8	2-Methylheptane		P	21.33	21.33	**21.37**		I	I	H	766	768
589-53-7	4-Methylheptane	48		**21.48**	21.48	**21.51**		I	O	M	771	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						30	772
589-81-1	3-Methylheptane		p	21.55	21.55	**21.62**		I	I	H	775	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						30	786
111-65-9	n-Octane		P	22.27	22.27	**22.35**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75	**23.73**		I	I	H	854	855
108-38-3	m,p-xylene		P	23.95	23.95	**23.88**	2239	I	O	M	860	863
100-42-5	Styrene		P	24.40	24.40						-70	881
95-47-6	o-xylene		P	24.57	24.57	**24.49**		I	I	H	883	886
124-11-8	1-Nonene	64		24.60	24.60						-70	889
111-84-2	n-Nonane		P	24.87	24.87	**24.92**	2366	I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36						-148	919
103-65-1	n-propylbenzene		P	25.93	25.93						-148	947
80-56-8	a-Pinene			26.09	26.09						-148	950
620-14-4	3-Ethyltoluene		P	26.17	26.17						-148	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-148	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45						-148	964
611-14-3	2-Ethyltoluene		P	26.61	26.61						-148	975
127-91-3	b-Pinene			26.80	26.80						-148	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08						-148	991
124-18-5	n-Decane		P	27.26	27.26	**27.30**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-65	1014
496-11-7	Indan	81		27.55	27.55						-65	1020
5989-27-5	d-Limonene			27.65	27.65						-65	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10						-65	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-65	1037
104-51-8	n-Butylbenzene			28.45	28.45						-65	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-65	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-65	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-65	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					605864		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					605864		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					605864		0			
TVOC	Total Volatile Organic Compounds					605864		0			
TPH(g)	TPH (gasoline)					605864		0			
TPH(d)	TPH (diesel)					605864		0			
TPH(h)	TPH (hexane)					605864		0			
TPH(t)	TPH (toluene)					605864		0			
TPHC	TPH (methane)					605864		0			
TPH(Jet A)	TPH (Jet A Fuel)					605864		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					605864					
C6+	**C6+ (hexane)**		16.17	16.19	16.20	**0**		Sum from	16.19	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			54049		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			156894		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**210943**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040225-GCK		
Hexane Std Area:	385895		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.18	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.18		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	3.60	1.80	2.07	3.60	1.80	2.07	2.07	2.07
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	77.45	38.72	47.77	77.45	38.72	47.77	47.77	47.77
Propene	42.1	3	117.07	39.02	67.33	117.07	39.02	67.33	67.33	67.33
Propane	44.1	3	118.20	39.40	71.21	118.20	39.40	71.21	71.21	71.21
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	2.01	0.50	1.15	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	133.56	33.39	79.51	133.56	33.39	79.51	79.51	79.51
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	6.90	1.38	4.08	6.90	1.38	4.08	4.08	4.08
1-Pentene	70.1	5	4.05	0.81	2.33	4.05	0.81	2.33	2.33	2.33
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	4.11	0.82	2.43	4.11	0.82	2.43	2.43	2.43
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	5.00	1.00	2.87	5.00	1.00	2.87	2.87	2.87
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	7.68	1.28	4.52	7.68	1.28	4.52	4.52	4.52
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	12.93	2.59	7.43	12.93	2.59	7.43	7.43	7.43
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	8.65	1.44	5.09	8.65	1.44	5.09	5.09	5.09
2-Methylpentane	86.2	6	8.97	1.50	5.28	8.97	1.50	5.28	5.28	5.28
3-Methylpentane	86.2	6	5.11	0.85	3.01	5.11	0.85	3.01	3.01	3.01
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	5.00	**0.83**	2.94	5.00	0.83	2.94	2.94	2.94
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	4.15	0.59	2.43	4.15	0.59	2.43	2.43	2.43
Benzene	78.1	6	1.98	0.33	1.06	ND	ND	ND	0	
Cyclohexane	84.2	6	2.49	0.41	1.43	2.49	0.41	1.43	1.43	1.43
2-Methylhexane	100.2	7	16.20	2.31	9.50	16.20	2.31	9.50	9.50	9.50
2,3-Dimethylpentane	100.2	7	3.77	0.54	2.21	3.77	0.54	2.21	2.21	2.21
3-Methylhexane	100.2	7	4.95	0.71	2.90	4.95	0.71	2.90	2.90	2.90
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	4.62	0.58	2.71	4.62	0.58	2.71	2.71	2.71
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	5.70	0.81	3.28	5.70	0.81	3.28	3.28	3.28
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	3.95	0.49	2.31	3.95	0.49	2.31	2.31	2.31
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	3.36	0.42	1.83	3.36	0.42	1.83	1.83	1.83
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	3.55	0.39	2.07	3.55	0.39	2.07	2.07	2.07
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	908.50	151.4	534.9	908.50	151.42	534.93	534.93	534.93
Total Non-Methane Hydrocarbons	16	1.0	908.50	908.5	595.7	908.50	908.50	595.74	595.74	595.74
Total Volatile Organic Compounds	100	7.6	908.50	119.5	489.9	908.50	119.54	489.92	489.92	489.92
TPH (gasoline)	95	7.0	908.50	129.8	505.3	908.50	129.79	505.32	505.32	505.32
TPH (diesel)	198	15.0	908.50	60.6	491.5	908.50	60.57	491.49	491.49	491.49
TPH (hexane)	86.2	6.0	908.50	151.4	534.9	908.50	151.42	534.93	534.93	534.93
TPH (toluene)	92.14	7.0	908.50	129.8	490.1	908.50	129.79	490.10	490.10	490.10
TPH (methane)	16	1.0	908.50	908.5	595.7	908.50	908.50	595.74	595.74	595.74
TPH (Jet A Fuel)	177	13.0	908.50	69.9	507.0	908.50	69.88	506.95	506.95	506.95
TPH (Mineral Spirits)	117.81	8.0	908.50	113.6	548.3	908.50	113.56	548.31	548.31	548.31
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			571.5	172.9						
Paraffins			341.9							
Isoparaffins			75.0							
Aromatics			5.3							
Napthlenes			21.1							
Olefins			131.7							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	81.05	40.52	49.99	81.05	40.52	49.99	49.99	49.99
C3 (propane)	44.1	3	235.27	78.42	141.74	235.27	78.42	141.74	141.74	141.74
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			316.3							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	4.1	0.69	2.03					
Aliphatic C6-C8	100.2	7	5.0	0.71	2.93					
Aliphatic C8-C10	128.3	9	3.5	0.39	2.07					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	7.7	1.28	4.52					

TNMHC - C6	86.2	6
TNMHC - C1	16	1
TVOC	86.2	6
TPH(g)	95	7
TPH(d)	198	15
TPH(h)	86.2	6
TPH(t)	92.14	7
TPHC	16	1
TPH(Jet A)	177	13

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	419.3	73.4
Alkenes	131.7	23.1
Alkynes	0.0	0.0
Cycloalkanes	18.6	3.3
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	5.3	0.9
Terpenes	0.0	0.0

SDG: **225100**
Laboratory Number: **22**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
1.0	2.000	1.00	1.18	1.35	2.35	3.53	4.06	7.1	J	=		Y
0.0	2.000	1.00	1.18	1.25	2.35	3.53	3.76	7.1	U	ND		Y
22.4	2.000	1.00	1.18	1.45	2.35	3.53	4.35	7.1		=		Y
22.6	2.000	0.67	0.78	1.35	2.35	2.35	4.06	7.1		=		Y
22.8	2.000	0.67	0.78	1.42	2.35	2.35	4.25	7.1		=		Y
0.0	2.000	0.50	0.59	1.40	2.35	1.76	4.20	7.1	U	ND		Y
0.0	2.000	2.00	2.35	3.09	2.35	7.06	9.26	7.1	U	ND		Y
0.3	2.000	0.50	0.59	1.35	2.35	1.76	4.06	7.1	U	ND		Y
0.0	2.000	0.50	0.59	1.30	2.35	1.76	3.91	7.1	U	ND		Y
19.3	2.000	0.50	0.59	1.40	2.35	1.76	4.20	7.1		=		Y
0.0	2.000	0.50	0.59	1.35	2.35	1.76	4.06	7.1	U	ND		Y
0.0	2.000	0.50	0.59	1.35	2.35	1.76	4.06	7.1	U	ND		Y
0.0	2.000	1.00	1.18	2.22	2.35	3.53	6.67	7.1	U	ND		Y
0.0	2.000	0.40	0.47	1.35	2.35	1.41	4.06	7.1	U	ND		Y
0.0	2.000	0.67	0.78	1.87	2.35	2.35	5.60	7.1	U	ND		Y
0.8	2.000	0.40	0.47	1.39	2.35	1.41	4.18	7.1	J	=		Y
0.5	2.000	0.40	0.47	1.35	2.35	1.41	4.06	7.1	J	=		Y
0.0	2.000	0.67	0.78	1.93	2.35	2.35	5.79	7.1	U	ND		Y
0.0	2.000	0.40	0.47	1.35	2.35	1.41	4.06	7.1	U	ND		Y
0.5	2.000	0.40	0.47	1.39	2.35	1.41	4.17	7.1	J	=		Y
0.0	2.000	0.40	0.47	1.31	2.35	1.41	3.94	7.1	U	ND		Y
0.6	2.000	0.40	0.47	1.35	2.35	1.41	4.06	7.1	J	=		Y
0.0	2.000	0.40	0.47	1.35	2.35	1.41	4.06	7.1	U	ND		Y
0.0	2.000	0.50	0.59	1.79	2.35	1.76	5.36	7.1	U	ND		Y
0.0	2.000	0.40	0.47	1.35	2.35	1.41	4.06	7.1	U	ND		Y
0.7	2.000	0.33	0.39	1.39	2.35	1.18	4.16	7.1		=		Y
0.0	2.000	0.40	0.47	1.31	2.35	1.41	3.94	7.1	U	ND		Y
0.0	2.000	0.67	0.78	1.93	2.35	2.35	5.79	7.1	U	ND		Y
1.5	2.000	0.40	0.47	1.35	2.35	1.41	4.06	7.1		=		Y
0.0	2.000	0.40	0.47	1.70	2.35	1.41	5.10	7.1	U	ND		Y
0.8	2.000	0.33	0.39	1.39	2.35	1.18	4.16	7.1		=		Y
0.9	2.000	0.33	0.39	1.39	2.35	1.18	4.16	7.1		=		Y
0.5	2.000	0.33	0.39	1.39	2.35	1.18	4.16	7.1	J	=		Y
0.0	2.000	0.33	0.39	1.35	2.35	1.18	4.06	7.1	U	ND		Y
0.5	2.000	0.33	0.39	1.39	2.35	1.18	4.16	7.1	J	=		Y
0.0	2.000	0.33	0.39	1.64	2.35	1.18	4.93	7.1	U	ND		Y

0.0	2.000	0.33	0.39	1.32	2.35	1.18	3.96	7.1	U	ND	Y
0.0	2.000	0.33	0.39	1.64	2.35	1.18	4.93	7.1	U	ND	Y
0.0	2.000	0.33	0.39	1.35	2.35	1.18	4.06	7.1	U	ND	Y
0.3	2.000	0.29	0.34	1.38	2.35	1.01	4.14	7.1	J	=	Y
0.2	2.000	0.33	0.39	1.26	2.35	1.18	3.77	7.1	U	ND	Y
0.2	2.000	0.33	0.39	1.35	2.35	1.18	4.06	7.1	J	=	Y
1.3	2.000	0.29	0.34	1.38	2.35	1.01	4.14	7.1		=	Y
0.3	2.000	0.29	0.34	1.38	2.35	1.01	4.14	7.1	J	=	Y
0.4	2.000	0.29	0.34	1.38	2.35	1.01	4.14	7.1	J	=	Y
0.0	2.000	0.29	0.34	1.35	2.35	1.01	4.06	7.1	U	ND	Y
0.0	2.000	0.33	0.39	1.64	2.35	1.18	4.93	7.1	U	ND	Y
0.3	2.000	0.25	0.29	1.38	2.35	0.88	4.13	7.1	J	=	Y
0.0	2.000	0.29	0.34	1.38	2.35	1.01	4.14	7.1	U	ND	Y
0.5	2.000	0.29	0.34	1.35	2.35	1.01	4.06	7.1	J	=	Y
0.0	2.000	0.25	0.29	1.38	2.35	0.88	4.13	7.1	U	ND	Y
0.0	2.000	0.25	0.29	1.38	2.35	0.88	4.13	7.1	U	ND	Y
0.3	2.000	0.25	0.29	1.38	2.35	0.88	4.13	7.1	J	=	Y
0.0	2.000	0.29	0.34	1.27	2.35	1.01	3.81	7.1	U	ND	Y
0.0	2.000	0.25	0.29	1.38	2.35	0.88	4.13	7.1	U	ND	Y
0.0	2.000	0.25	0.29	1.38	2.35	0.88	4.13	7.1	U	ND	Y
0.0	2.000	0.25	0.29	1.38	2.35	0.88	4.13	7.1	U	ND	Y
0.0	2.000	0.25	0.29	1.38	2.35	0.88	4.13	7.1	U	ND	Y
0.0	2.000	0.25	0.29	1.38	2.35	0.88	4.13	7.1	U	ND	Y
0.0	2.000	0.25	0.29	1.35	2.35	0.88	4.06	7.1	U	ND	Y
0.0	2.000	0.25	0.29	1.38	2.35	0.88	4.13	7.1	U	ND	Y
0.0	2.000	0.25	0.29	1.28	2.35	0.88	3.84	7.1	U	ND	Y
0.2	2.000	0.25	0.29	1.28	2.35	0.88	3.84	7.1	J	=	Y
0.0	2.000	0.25	0.29	1.26	2.35	0.88	3.77	7.1	U	ND	Y
0.0	2.000	0.25	0.29	1.28	2.35	0.88	3.84	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.35	2.35	0.78	4.06	7.1	U	ND	Y
0.2	2.000	0.22	0.26	1.37	2.35	0.78	4.12	7.1	J	=	Y
0.0	2.000	0.22	0.26	1.29	2.35	0.78	3.86	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.29	2.35	0.78	3.86	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.35	0.71	3.94	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.29	2.35	0.78	3.86	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.29	2.35	0.78	3.86	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.29	2.35	0.78	3.86	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.29	2.35	0.78	3.86	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.35	0.71	3.94	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.29	2.35	0.78	3.86	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.37	2.35	0.71	4.12	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.29	2.35	0.78	3.86	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.27	2.35	0.78	3.80	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.35	0.71	3.94	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.29	2.35	0.71	3.88	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.29	2.35	0.71	3.88	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.29	2.35	0.71	3.88	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.29	2.35	0.71	3.88	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.29	2.35	0.71	3.88	7.1	U	ND	Y
0.0	2.000	0.18	0.21	1.37	2.35	0.64	4.11	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.29	2.35	0.71	3.88	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.29	2.35	0.71	3.88	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.24	2.35	0.71	3.71	7.1	U	ND	Y

0.0	2.000	0.17	0.20	1.37	2.35	0.59	4.11	7.1	U	ND	Y
%											Y
100.0	45.00	7.5	8.82	31.17	52.93	26.5	93.5	158.8		=	Y
100.0	45.00	45.0	52.93	34.71	52.93	158.8	104.1	158.8		=	Y
100.0	45.00	5.9	6.97	28.55	52.93	20.9	85.6	158.8		=	Y
100.0	45.00	6.4	7.56	29.44	52.93	22.7	88.3	158.8		=	Y
100.0	45.00	3.0	3.53	28.64	52.93	10.6	85.9	158.8		=	Y
100.0	45.00	7.5	8.82	31.17	52.93	26.5	93.5	158.8		=	Y
100.0	45.00	6.4	7.56	28.56	52.93	22.7	85.7	158.8		=	Y
100.0	45.00	45.0	52.93	34.71	52.93	158.8	104.1	158.8		=	Y
100.0	45.00	3.5	4.07	29.54	52.93	12.2	88.6	158.8		=	Y
100.0	45.00	5.6	6.62	31.95	52.93	19.9	95.8	158.8		=	Y
0.0	45.00	7.5	8.82	31.17	52.93	26.5	93.5	158.8	U	ND	Y
0.0	25.000	3.6	4.20	16.36	29.41	12.6	49.1	88.2	U	ND	Y
%											Y
62.9											Y
59.8											Y
13.1											Y
0.9											Y
3.7											Y
23.1											Y
0.0											Y
%											Y
25.6	5.000	2.5	2.94	3.63	5.88	8.8	10.9	17.6		=	Y
74.4	5.000	1.7	1.96	3.54	5.88	5.9	10.6	17.6		=	Y
0.0	25.000	6.3	7.35	17.51	29.41	22.1	52.5	88.2	U	ND	Y
0.0	25.000	5.0	5.88	17.39	29.41	17.6	52.2	88.2	U	ND	Y
0.0	25.000	4.2	4.90	17.32	29.41	14.7	51.9	88.2	U	ND	Y
0.0	25.000	3.6	4.20	17.25	29.41	12.6	51.8	88.2	U	ND	Y
0.0	25.000	3.1	3.68	17.20	29.41	11.0	51.6	88.2	U	ND	Y
0.0	25.000	2.8	3.27	17.18	29.41	9.8	51.5	88.2	U	ND	Y
0.0	25.000	2.5	2.94	17.15	29.41	8.8	51.5	88.2	U	ND	Y
0.0	25.000	2.3	2.67	17.13	29.41	8.0	51.4	88.2	U	ND	Y
0.0	25.000	2.1	2.45	17.10	29.41	7.4	51.3	88.2	U	ND	Y
0.0	25.000	2.1	2.45	17.10	29.41	7.4	51.3	88.2	U	ND	Y
100.0											Y
											Y
0.5	6.0	1.0	1.18	3.48	7.06	3.5	10.4	21.2			Y
0.6	6.0	0.9	1.01	4.14	7.06	3.0	12.4	21.2			Y
0.4	6.0	0.7	0.78	4.12	7.06	2.4	12.4	21.2			Y
0.0	6.0	0.5	0.64	3.76	7.06	1.9	11.3	21.2			Y
0.0	6.0	0.7	0.78	3.67	7.06	2.4	11.0	21.2			Y
0.0	6.0	0.5	0.64	3.74	7.06	1.9	11.2	21.2			Y
0.7	2.0	0.3	0.39	1.38	2.35	1.2	4.2	7.1		=	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					3.6		3.60		
					0.0			0.00	
77.4						77.45			
					117.1		117.07		
118.2						118.20			
		0.0				0.00			
					0.0				
					2.0		2.01		
					0.0		0.00		
133.6						133.56			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		6.9				6.90			
					4.0		4.05		
					0.0				
					0.0		0.00		
4.1						4.11			
					0.0		0.00		
					5.0		5.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		7.7				7.68			
			0.0						0.00
					0.0				
			12.9						12.93
					0.0				
		8.6				8.65			
		9.0				8.97			
		5.1				5.11			
					0.0		0.00		
5.0						5.00			
					0.0				

| | | |

0.0						0.00			
341.9	75.0	5.3	21.1	131.7	0.0	419.3	131.7	0.0	18.6

4.11	30.41		
5.00	37.65		
3.55	0.00		
0.00	0.00		
		3.55	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
	0.00				
	0.00				
	0.00				
				0.00	
				0.00	

0.00

0.00

1.98

0.00

0.00

0.00
3.36
0.00
0.00

0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00

0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00

0.0	0.0	0.0	0.0	5.3	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**22**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.18	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum $\left|\frac{(Astdni)}{(Cstdni)}\right|_i$

2) ppbC = $\frac{6\ Carbons}{(Avg\ RFn)} \frac{Ansamp}{SV} \frac{CDF}{} \frac{1000}{}$ = **Cn**

3) Amount ppbv = $\frac{Cn}{C\#}$

4) Amount ug/m3 = (amt(ppbv) $\frac{MW}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.14E+04	2401	3.6	1.80	2.07
Acetylene	2	TRG	26.0	2.14E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.14E+04	51648	77.4	38.72	47.77
Propene	3	TRG	4.5	2.14E+04	4	117.1	39.02	67.33
Propane	3	TRG	44.1	2.14E+04	78825	118.2	39.40	71.21
i-Butane	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.14E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.14E+04	1338	2.0	0.50	1.15
n-Butane	4	TRG	54.1	2.14E+04	89068	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.14E+04	0	133.6	33.39	79.51
c-2-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.14E+04	4602	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.14E+04	2700	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.14E+04	0	6.9	1.38	4.08
n-Pentane	5	TRG	70.1	2.14E+04	2742	4.0	0.81	2.33
Isoprene	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.14E+04	3335	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.14E+04	0	4.1	0.82	2.43
2,2-Dimethylbutane	5	TRG	68.1	2.14E+04	5120	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.14E+04	8620	5.0	1.00	2.87
2,3-Dimethylbutane	5	TRG	70.1	2.14E+04	5768	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.14E+04	5984	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.14E+04	3411	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.14E+04	3334	7.7	1.28	4.52
Methylcyclopentane	5	TRG	68.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.14E+04	2767	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.14E+04	1321	12.9	2.59	7.43
Cyclohexane	5	TRG	88.2	2.14E+04	1659	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.14E+04	10803	8.6	1.44	5.09
2,3-Dimethylpentane	6	TRG	86.2	2.14E+04	2517	9.0	1.50	5.28
3-Methylhexane	6	TRG	86.2	2.14E+04	3299	5.1	0.85	3.01
2,2,4-Trimethylpentane	6	TRG	84.2	2.14E+04	3084	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.14E+04	0	5.0	0.83	2.94
Methylcyclohexane	6	TRG	102.2	2.14E+04	3804	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.14E+04	2635	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.14E+04	0	4.1	0.59	2.43	
2,3-Dimethylhexane	6	TRG	78.1	2.14E+04	0	2.0	0.33	1.06	
2-Methylheptane	6	TRG	84.2	2.14E+04	0	2.5	0.41	1.43	
3-Methylheptane	7	TRG	100.2	2.14E+04	0	16.2	2.31	9.50	
n-Octane	7	TRG	100.2	2.14E+04	0	3.8	0.54	2.21	
Ethylbenzene	7	TRG	100.2	2.14E+04	0	4.9	0.71	2.90	
m,p-xylene	7	TRG	98.2	2.14E+04	2239	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.14E+04	0	4.6	0.58	2.71	
n-Nonane	7	TRG	100.2	2.14E+04	2366	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.14E+04	0	5.7	0.81	3.28	
n-propylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.14E+04	0	4.0	0.49	2.31	
4-Ethyltoluene	7	TRG	92.1	2.14E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.14E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.14E+04	0	3.4	0.42	1.83	
n-Butylbenzene	8	TRG	104.2	2.14E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.14E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.14E+04	605864	908.5	151.42	534.93	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.14E+04	605864	908.5	908.50	595.74	
Total Volatile Organic Compoun	8	TRG	100.0	2.14E+04	605864	908.5	119.54	489.92	
TPH (gasoline)	7	TRG	95.0	2.14E+04	605864	908.5	129.79	505.32	
TPH (diesel)	15	TRG	198.0	2.14E+04	605864	908.5	60.57	491.49	
TPH (hexane)	6	TRG	86.2	2.14E+04	605864	908.5	151.42	534.93	
TPH (toluene)	7	TRG	92.1	2.14E+04	605864	908.5	129.79	490.10	
TPH (methane)	1	TRG	16.0	2.14E+04	605864	908.5	908.50	595.74	
TPH (Jet A Fuel)	13	TRG	177.0	2.14E+04	605864	908.5	69.88	506.95	
TPH (Mineral Spirits)	8	TRG	117.8	2.14E+04	605864	908.5	113.56	548.31	
C6+ (hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.14E+04		571.5			Sum ID
Paraffins	P	TRG	0.0	2.14E+04		341.9			Sum P
Isoparaffins	I	TRG	0.0	2.14E+04		75.0			Sum I
Aromatics	A	TRG	0.0	2.14E+04		5.3			Sum A
Napthlenes	N	TRG	0.0	2.14E+04		21.1			Sum N
Olefins	O	TRG	0.0	2.14E+04		131.7			Sum O
Oxygenates		TRG	0.0	2.14E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.14E+04	54049	81.0	40.52	49.99	
C3 (propane)	3	TRG	44.1	2.14E+04	156894	235.3	78.42	141.74	
C4 (Butane)	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.14E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.14E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.14E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.14E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.14E+04	210943	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 23

File Name: 2510023A
Description: T-205
Canister: 659
QC_Batch: 033125-GCK

Date Sampled: 03/20/25 **Time:** 10:00
Date Analyzed: 03/31/25 **Time:** 19:51
Can Factor: 1.27
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.27	3.80	1.73	1.46	4.38	2.00	J
74-86-2	Acetylene	1.27	3.80	ND	1.35	4.05	ND	ND
74-84-0	Ethane	1.27	3.80	6.17	1.56	4.69	7.61	
115-07-1	Propene	0.84	2.53	0.95	1.46	4.37	1.64	J
74-98-6	Propane	0.84	2.53	3.43	1.53	4.58	6.21	
75-28-5	i-Butane	0.63	1.90	ND	1.51	4.53	ND	ND
106-98-9	1-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
106-97-8	n-Butane	0.63	1.90	ND	1.51	4.53	ND	ND
624-64-6	t-2-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
590-18-1	c-2-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
78-78-4	i-Pentane	0.51	1.52	2.79	1.50	4.50	8.25	
109-67-1	1-Pentene	0.51	1.52	0.51	1.46	4.37	1.47	J
109-66-0	n-Pentane	0.51	1.52	ND	1.50	4.49	ND	ND
646-04-8	t-2-Pentene	0.51	1.52	ND	1.46	4.37	ND	ND
627-20-3	c-2-Pentene	0.51	1.52	ND	1.46	4.37	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.27	0.71	1.49	4.48	2.51	J
142-29-0	Cyclopentene	0.51	1.52	ND	1.41	4.24	ND	ND
287-92-3	Cyclopentane	0.51	1.52	0.57	1.46	4.37	1.63	J
79-29-8	2,3-Dimethylbutane	0.42	1.27	ND	1.49	4.48	ND	ND
107-83-5	2-Methylpentane	0.42	1.27	ND	1.49	4.48	ND	ND
96-14-0	3-Methylpentane	0.42	1.27	ND	1.49	4.48	ND	ND
592-41-6	1-Hexene	0.42	1.27	ND	1.46	4.37	ND	ND
110-54-3	n-Hexane	0.42	1.27	ND	1.49	4.48	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.27	ND	1.42	4.26	ND	ND
96-37-7	Methylcyclopentane	0.42	1.27	ND	1.46	4.37	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.09	ND	1.49	4.46	ND	ND
71-43-2	Benzene	0.42	1.27	ND	1.35	4.06	ND	ND
110-82-7	Cyclohexane	0.42	1.27	ND	1.46	4.37	ND	ND
591-76-4	2-Methylhexane	0.36	1.09	ND	1.49	4.46	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.09	ND	1.49	4.46	ND	ND
589-34-4	3-Methylhexane	0.36	1.09	ND	1.49	4.46	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.32	0.95	0.39	1.48	4.45	1.82	J
142-82-5	n-Heptane	0.36	1.09	ND	1.49	4.46	ND	ND
108-87-2	Methylcyclohexane	0.36	1.09	ND	1.46	4.37	ND	ND
592-13-2	2,5-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.32	0.95	0.48	1.48	4.45	2.23	J

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.09	0.91	1.37	4.10	3.43	J
584-94-1	2,3-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
592-27-8	2-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
589-53-7	4-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
589-81-1	3-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
111-65-9	n-Octane	0.32	0.95	ND	1.48	4.45	ND	ND
100-41-4	Ethylbenzene	0.32	0.95	ND	1.38	4.14	ND	ND
108-38-3	m,p-xylene	0.32	0.95	ND	1.38	4.14	ND	ND
100-42-5	Styrene	0.32	0.95	ND	1.35	4.06	ND	ND
95-47-6	o-xylene	0.32	0.95	ND	1.38	4.14	ND	ND
111-84-2	n-Nonane	0.28	0.84	ND	1.48	4.44	ND	ND
98-82-8	i-Propylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
103-65-1	n-propylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
124-18-5	n-Decane	0.25	0.76	ND	1.48	4.43	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
104-51-8	n-Butylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
1120-21-4	Undecane	0.23	0.69	ND	1.48	4.43	ND	ND
91-20-3	Naphthalene	0.25	0.76	ND	1.33	3.99	ND	ND
112-40-3	Dodecane	0.21	0.63	ND	1.47	4.42	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.50	28.51	39.76	33.57	100.71	140.46	
TNMHC - C1	Total Non-Methane Hydrocarbons	57.01	171.04	238.56	37.39	112.16	156.43	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **23**
File Name: **2510023A**
Sample ID: **T-205**
Sampled: **3/20/2025**
Received: **03/21/25**
Analyzed: **03/31/25**
QCBatch: **033125-GCK**
Can: **659**
Can Factor: **1.27**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **10:00** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **19:51** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **377602**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

										RT Win	C2-C4	C5-C12
										RT	**0.3**	**0.1**
										RTI	**3**	**3**
CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene		P	4.06	4.06	**4.04**	2146	NA	NA	NA		
74-86-2	Acetylene		P	4.10	4.10			NA	NA	NA		
74-84-0	Ethane		P	4.17	**4.17**	**4.17**	7637	I	I	H	200	200
115-07-1	Propene		P	5.11	5.11	**5.17**	1767	I	O	M	293	290
74-98-6	Propane		P	5.20	**5.20**	**5.24**	6378	I	I	H	300	300
75-28-5	i-Butane		P	6.60	**6.64**						136	351
67-56-1	Methanol			8.30	8.34						136	401
106-98-9	1-Butene		P	7.29	7.33	**7.28**		I	I	H	364	367
106-99-0	1,3-Butadiene			**7.48**	7.52						136	373
106-97-8	n-Butane		P	8.34	**8.34**	**8.44**	1506	I	I	H	400	400
624-64-6	t-2-Butene		P	8.75	8.85	**8.91**	1006	I	I	H	412	410
590-18-1	c-2-Butene		P	9.63	9.73						192	431
64-17-5	Ethanol			10.85	10.87						192	461
563-45-1	3-Methyl-1-butene	6		**11.05**	11.07						192	465
67-64-1	Acetone			11.52	11.54						192	476
78-78-4	i-Pentane		P	11.37	11.39	**11.45**	8633	I	I	H	474	473
109-67-1	1-Pentene		P	12.30	12.32	**12.38**	1588	I	I	H	497	495
67-63-0	Isopropanol			12.65	12.67						192	504
563-46-2	2-Methyl-1-butene	9		**12.36**	12.38						192	497
109-66-0	n-Pentane		P	12.48	**12.50**	**12.50**		I	I	H	500	500
78-79-5	Isoprene		P	12.55	12.57						162	503
646-04-8	t-2-Pentene		P	12.79	12.81	**12.86**		I	I	H	510	510
627-20-3	c-2-Pentene		P	13.08	13.10	**13.15**		I	I	H	518	518
75-65-0	Tert butyl alcohol			**13.55**	13.57						280	526
513-35-9	2-Methyl-2-butene	13		**13.62**	13.64						280	520
75-83-2	2,2-Dimethylbutane		P	13.77	13.79	**13.83**	2642	I	I	H	536	537
142-29-0	Cyclopentene	15		**14.61**	14.63						162	551
71-23-8	n-Propanol			**14.75**	14.77						162	558
287-92-3	Cyclopentane		P	14.88	14.90	**14.84**	1752	I	O	M	563	567
1634-04-4	Methyl tert butyl ether			**15.00**	15.02						162	569
79-29-8	2,3-Dimethylbutane		P	15.06	15.08						162	570
107-83-5	2-Methylpentane		P	15.08	15.10	**15.11**		I	I	H	570	571
96-14-0	3-Methylpentane		P	15.55	15.57	**15.53**		I	I	H	582	583
592-41-6	1-Hexene		P	**15.80**	15.82						162	590
110-54-3	n-Hexane		P	16.17	**16.19**	**16.20**		I	I	H	600	600
108-20-3	Diisopropyl ether			**16.30**	16.33						262	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.48	**16.46**		I	O	M	598	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.83						700	623
96-37-7	Methylcyclopentane		P	16.86	16.89	**16.96**		I	I	H	623	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.08	**17.08**		I	I	H	627	626
71-43-2	Benzene		P	17.87	**17.90**	**17.93**		I	I	H	653	651
110-82-7	Cyclohexane		P	18.14	18.20	**18.18**		I	O	M	661	658
591-76-4	2-Methylhexane		P	18.38	18.44	**18.44**		I	I	H	669	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.51	**18.49**		I	I	H	671	671
589-34-4	3-Methylhexane		P	18.66	18.72	**18.71**		I	I	H	678	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.81						100	687
994-05-8	Tert amyl methyl ether			**18.80**	18.86						100	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.15	**19.07**	1923	I	I	H	689	690
142-82-5	n-Heptane		P	19.41	19.47	**19.44**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.15	**20.14**		I	I	H	724	722
592-13-2	2,5-Dimethylhexane			20.35	20.41						39	734
589-43-5	2,4-Dimethylhexane			20.43	20.49	**20.47**		I	I	H	735	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.99	**20.99**	2359	I	I	H	753	753
108-88-3	Toluene		P	21.12	**21.18**	**21.15**	3944	I	I	H	758	758
584-94-1	2,3-Dimethylhexane			21.20	21.23	**21.39**		O	O	L	766	763
592-27-8	2-Methylheptane		P	21.33	21.36						39	768
589-53-7	4-Methylheptane	48		**21.48**	21.51	**21.47**		I	O	M	769	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.53						39	772
589-81-1	3-Methylheptane		p	21.55	21.58	**21.62**		I	I	H	774	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.13						39	786
111-65-9	n-Octane		P	22.27	22.30	**22.38**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.78	**23.79**		I	I	H	855	855
108-38-3	m,p-xylene		P	23.95	23.98	**23.98**		I	I	H	863	863
100-42-5	Styrene		P	24.40	24.43	**24.50**		I	I	H	883	881
95-47-6	o-xylene		P	24.57	24.60	**24.70**		I	O	M	891	886
124-11-8	1-Nonene	64		24.60	24.63						-77	889
111-84-2	n-Nonane		P	24.87	24.90	**24.93**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.39	**25.43**		I	I	H	920	919
103-65-1	n-propylbenzene		P	25.93	25.96	**25.98**		I	O	M	943	947
80-56-8	a-Pinene			26.09	26.12						-113	950
620-14-4	3-Ethyltoluene		P	26.17	26.20	**26.16**		I	O	M	950	957
622-96-8	4-Ethyltoluene		P	26.26	26.29	**26.38**		I	I	H	959	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.48	**26.56**		I	I	H	966	964
611-14-3	2-Ethyltoluene		P	26.61	26.64	**26.65**		I	O	M	970	975
127-91-3	b-Pinene			26.80	26.83						-113	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.11	**27.04**		I	O	M	986	991
124-18-5	n-Decane		P	27.26	27.29	**27.39**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.58	**27.73**		O	I	M	1013	1014
496-11-7	Indan	81		27.55	27.58						-62	1020
5989-27-5	d-Limonene			27.65	27.68						-62	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.13	**28.10**		I	O	M	1028	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.26	**28.26**		I	O	M	1034	1037
104-51-8	n-Butylbenzene			28.45	28.48						-62	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.63						-62	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.78						-62	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.86						-62	1060
1120-21-4	Undecane		P	29.86	29.97	**29.97**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.48						-104	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.53						-104	1124
91-20-3	Naphthalene		32.25	32.28						-104	1193
112-40-3	Dodecane	P	32.46	32.57	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					249692		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					147711		44070			
TNMHC - C1	Total Non-Methane Hydrocarbons					147711		17335			
TVOC	Total Volatile Organic Compounds					147711		21949			
TPH(g)	TPH (gasoline)					147711		18627			
TPH(d)	TPH (diesel)					147711		0			
TPH(h)	TPH (hexane)					147711		0			
TPH(t)	TPH (toluene)					147711		0			
TPHC	TPH (methane)					147711		0			
TPH(Jet A)	TPH (Jet A Fuel)					147711		**101981**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					147711					
C6+	**C6+ (hexane)**		16.17	16.19	16.20	**0**		Sum from	16.19	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			9783		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			8145		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**17928**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	033125-GCK		
Hexane Std Area:	377602		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.27	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.27		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	3.47	1.73	2.00	3.47	1.73	2.00	2.00	2.00
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	12.33	6.17	7.61	12.33	6.17	7.61	7.61	7.61
Propene	42.1	3	2.85	0.95	1.64	2.85	0.95	1.64	1.64	1.64
Propane	44.1	3	10.30	3.43	6.21	10.30	3.43	6.21	6.21	6.21
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	2.43	0.61	1.45	ND	ND	ND	0	
t-2-Butene	56.1	4	1.62	0.41	0.93	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	13.94	2.79	8.25	13.94	2.79	8.25	8.25	8.25
1-Pentene	70.1	5	2.56	0.51	1.47	2.56	0.51	1.47	1.47	1.47
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	4.27	0.71	2.51	4.27	0.71	2.51	2.51	2.51
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	2.83	0.57	1.63	2.83	0.57	1.63	1.63	1.63
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	3.11	0.39	1.82	3.11	0.39	1.82	1.82	1.82
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	3.81	0.48	2.23	3.81	0.48	2.23	2.23	2.23
Toluene	92.1	7	6.37	0.91	3.43	6.37	0.91	3.43	3.43	3.43
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	238.56	39.8	140.5	238.56	39.76	140.46	140.46	140.46
Total Non-Methane Hydrocarbons	16	1.0	238.56	238.6	156.4	238.56	238.56	156.43	156.43	156.43
Total Volatile Organic Compounds	100	7.6	238.56	31.4	128.6	238.56	31.39	128.65	128.65	128.65
TPH (gasoline)	95	7.0	238.56	34.1	132.7	238.56	34.08	132.69	132.69	132.69
TPH (diesel)	198	15.0	238.56	15.9	129.1	238.56	15.90	129.06	129.06	129.06
TPH (hexane)	86.2	6.0	238.56	39.8	140.5	238.56	39.76	140.46	140.46	140.46
TPH (toluene)	92.14	7.0	238.56	34.1	128.7	238.56	34.08	128.69	128.69	128.69
TPH (methane)	16	1.0	238.56	238.6	156.4	238.56	238.56	156.43	156.43	156.43
TPH (Jet A Fuel)	177	13.0	238.56	18.4	133.1	238.56	18.35	133.12	133.12	133.12
TPH (Mineral Spirits)	117.81	8.0	238.56	29.8	144.0	238.56	29.82	143.98	143.98	143.98
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			69.9	19.7						
Paraffins			25.1							
Isoparaffins			25.1							
Aromatics			6.4							
Napthlenes			2.8							
Olefins			10.5							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	15.80	7.90	9.75	15.80	7.90	9.75	9.75	9.75
C3 (propane)	44.1	3	13.15	4.38	7.93	13.15	4.38	7.93	7.93	7.93
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			29.0							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	4.3	0.71	2.51					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			50.2	71.8
Alkenes			10.5	15.0
Alkynes			0.0	0.0
Cycloalkanes			2.8	4.0
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			6.4	9.1
Terpenes			0.0	0.0

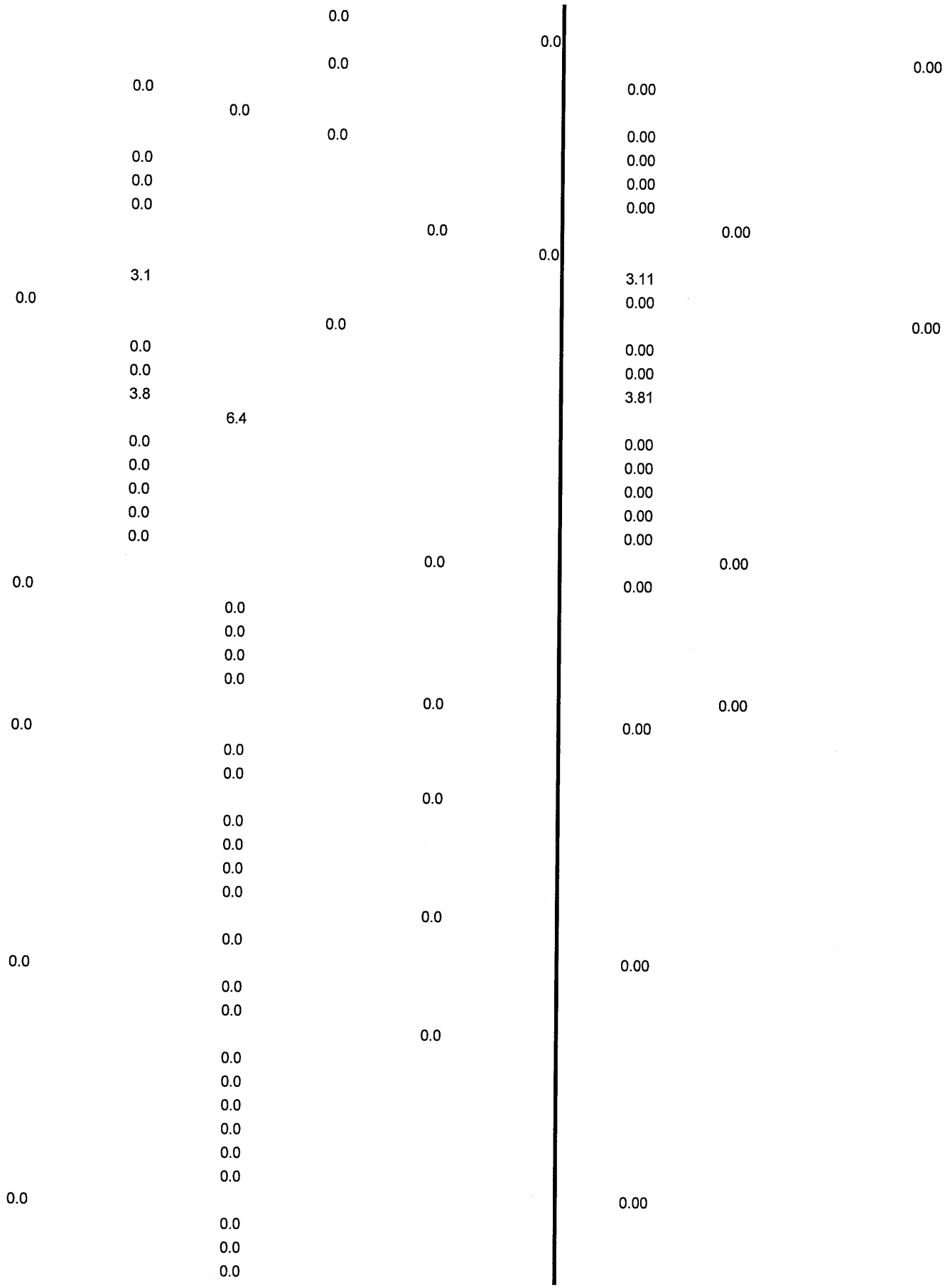
SDG: **225100**
Laboratory Number: **23**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
8.8	2.000	1.00	1.27	1.46	2.53	3.80	4.38	7.6	J	=		Y
0.0	2.000	1.00	1.27	1.35	2.53	3.80	4.05	7.6	U	ND		Y
31.4	2.000	1.00	1.27	1.56	2.53	3.80	4.69	7.6		=		Y
4.8	2.000	0.67	0.84	1.46	2.53	2.53	4.37	7.6	J	=		Y
17.5	2.000	0.67	0.84	1.53	2.53	2.53	4.58	7.6		=		Y
0.0	2.000	0.50	0.63	1.51	2.53	1.90	4.53	7.6	U	ND		Y
0.0	2.000	2.00	2.53	3.32	2.53	7.60	9.97	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.46	2.53	1.90	4.37	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.40	2.53	1.90	4.21	7.6	U	ND		Y
3.1	2.000	0.50	0.63	1.51	2.53	1.90	4.53	7.6	U	ND		Y
2.1	2.000	0.50	0.63	1.46	2.53	1.90	4.37	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.46	2.53	1.90	4.37	7.6	U	ND		Y
0.0	2.000	1.00	1.27	2.39	2.53	3.80	7.18	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6	U	ND		Y
0.0	2.000	0.67	0.84	2.01	2.53	2.53	6.03	7.6	U	ND		Y
14.2	2.000	0.40	0.51	1.50	2.53	1.52	4.50	7.6		=		Y
2.6	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6	J	=		Y
0.0	2.000	0.67	0.84	2.08	2.53	2.53	6.24	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.50	2.53	1.52	4.49	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.41	2.53	1.52	4.24	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.92	2.53	1.90	5.77	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6	U	ND		Y
3.6	2.000	0.33	0.42	1.49	2.53	1.27	4.48	7.6	J	=		Y
0.0	2.000	0.40	0.51	1.41	2.53	1.52	4.24	7.6	U	ND		Y
0.0	2.000	0.67	0.84	2.08	2.53	2.53	6.24	7.6	U	ND		Y
2.9	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6	J	=		Y
0.0	2.000	0.40	0.51	1.83	2.53	1.52	5.50	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.53	1.27	4.48	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.53	1.27	4.48	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.53	1.27	4.48	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.46	2.53	1.27	4.37	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.53	1.27	4.48	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.77	2.53	1.27	5.31	7.6	U	ND		Y

0.0	2.000	0.33	0.42	1.42	2.53	1.27	4.26	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.77	2.53	1.27	5.31	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.46	2.53	1.27	4.37	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.53	1.09	4.46	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.35	2.53	1.27	4.06	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.46	2.53	1.27	4.37	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.53	1.09	4.46	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.53	1.09	4.46	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.53	1.09	4.46	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.46	2.53	1.09	4.37	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.77	2.53	1.27	5.31	7.6	U	ND	Y
2.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	J	=	Y
0.0	2.000	0.29	0.36	1.49	2.53	1.09	4.46	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.46	2.53	1.09	4.37	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
2.4	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	J	=	Y
4.6	2.000	0.29	0.36	1.37	2.53	1.09	4.10	7.6	J	=	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.46	2.53	0.95	4.37	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.38	2.53	0.95	4.14	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.38	2.53	0.95	4.14	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.35	2.53	0.95	4.06	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.38	2.53	0.95	4.14	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.46	2.53	0.84	4.37	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.48	2.53	0.84	4.44	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.41	2.53	0.76	4.24	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.41	2.53	0.76	4.24	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.48	2.53	0.76	4.43	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.53	0.84	4.09	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.41	2.53	0.76	4.24	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.18	0.23	1.48	2.53	0.69	4.43	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.33	2.53	0.76	3.99	7.6	U	ND	Y

0.0	2.000	0.17	0.21	1.47	2.53	0.63	4.42	7.6	U	ND	Y
%											Y
100.0	45.00	7.5	9.50	33.57	57.01	28.5	100.7	171.0		=	Y
100.0	45.00	45.0	57.01	37.39	57.01	171.0	112.2	171.0		=	Y
100.0	45.00	5.9	7.50	30.74	57.01	22.5	92.2	171.0		=	Y
100.0	45.00	6.4	8.14	31.71	57.01	24.4	95.1	171.0		=	Y
100.0	45.00	3.0	3.80	30.84	57.01	11.4	92.5	171.0		=	Y
100.0	45.00	7.5	9.50	33.57	57.01	28.5	100.7	171.0		=	Y
100.0	45.00	6.4	8.14	30.76	57.01	24.4	92.3	171.0		=	Y
100.0	45.00	45.0	57.01	37.39	57.01	171.0	112.2	171.0		=	Y
100.0	45.00	3.5	4.39	31.81	57.01	13.2	95.4	171.0		=	Y
100.0	45.00	5.6	7.13	34.41	57.01	21.4	103.2	171.0		=	Y
0.0	45.00	7.5	9.50	33.57	57.01	28.5	100.7	171.0	U	ND	Y
0.0	25.000	3.6	4.52	17.62	31.67	13.6	52.9	95.0	U	ND	Y
%											Y
29.3											Y
35.9											Y
35.9											Y
9.1											Y
4.0											Y
15.0											Y
0.0											Y
%											Y
54.6	5.000	2.5	3.17	3.91	6.33	9.5	11.7	19.0	J	=	Y
45.4	5.000	1.7	2.11	3.82	6.33	6.3	11.4	19.0	J	=	Y
0.0	25.000	6.3	7.92	18.86	31.67	23.8	56.6	95.0	U	ND	Y
0.0	25.000	5.0	6.33	18.73	31.67	19.0	56.2	95.0	U	ND	Y
0.0	25.000	4.2	5.28	18.65	31.67	15.8	55.9	95.0	U	ND	Y
0.0	25.000	3.6	4.52	18.58	31.67	13.6	55.7	95.0	U	ND	Y
0.0	25.000	3.1	3.96	18.53	31.67	11.9	55.6	95.0	U	ND	Y
0.0	25.000	2.8	3.52	18.50	31.67	10.6	55.5	95.0	U	ND	Y
0.0	25.000	2.5	3.17	18.47	31.67	9.5	55.4	95.0	U	ND	Y
0.0	25.000	2.3	2.88	18.44	31.67	8.6	55.3	95.0	U	ND	Y
0.0	25.000	2.1	2.64	18.42	31.67	7.9	55.3	95.0	U	ND	Y
0.0	25.000	2.1	2.64	18.42	31.67	7.9	55.3	95.0	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.27	3.75	7.60	3.8	11.2	22.8			Y
0.0	6.0	0.9	1.09	4.46	7.60	3.3	13.4	22.8			Y
0.0	6.0	0.7	0.84	4.44	7.60	2.5	13.3	22.8			Y
0.0	6.0	0.5	0.69	4.04	7.60	2.1	12.1	22.8			Y
0.0	6.0	0.7	0.84	3.95	7.60	2.5	11.9	22.8			Y
0.0	6.0	0.5	0.69	4.03	7.60	2.1	12.1	22.8			Y
3.6	2.0	0.3	0.42	1.49	2.53	1.3	4.5	7.6	J	=	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					3.5		3.47		
					0.0			0.00	
12.3						12.33			
					2.9		2.85		
10.3						10.30			
		0.0				0.00			
					0.0				
					0.0		0.00		
					0.0		0.00		
2.4						2.43			
					1.6		1.62		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		13.9				13.94			
					2.6		2.56		
					0.0				
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		4.3				4.27			
			0.0						0.00
					0.0				
			2.8						2.83
					0.0				
		0.0				0.00			
		0.0				0.00			
		0.0				0.00			
					0.0		0.00		
0.0						0.00			
					0.0				


0.0
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0.0
3.1
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0.0
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3.8
6.4
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0.0
0.0
0.0
0.0

0.0						0.00			
25.1	25.1	6.4	2.8	10.5	0.0	50.2	10.5	0.0	2.8

0.00	4.27		
0.00	6.92		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
	0.00				
	0.00				
	0.00				
				0.00	
				0.00	

0.00

0.00

0.00

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6.37

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0.00
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0.00

0.0	0.0	0.0	0.0	6.4	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**23**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.27	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = $\text{Sum}\left|\frac{(\text{Astdni})}{(\text{Cstdni})}\right|_i$

2) ppbC = $\frac{6\ \text{Carbons}}{(\text{Avg RFn})} \cdot \frac{\text{Ansamp}}{\text{SV}} \cdot \text{CDF} \cdot 1000 = \textbf{Cn}$

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = $(\text{amt(ppbv)} \cdot \frac{\text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.09E+04	2146	3.5	1.73	2.00
Acetylene	2	TRG	26.0	2.09E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.09E+04	7637	12.3	6.17	7.61
Propene	3	TRG	4.5	2.09E+04	4	2.9	0.95	1.64
Propane	3	TRG	44.1	2.09E+04	6378	10.3	3.43	6.21
i-Butane	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.09E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.09E+04	1506	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.09E+04	1006	2.4	0.61	1.45
c-2-Butene	4	TRG	56.1	2.09E+04	0	1.6	0.41	0.93
Ethanol	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.09E+04	8633	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.09E+04	1588	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.09E+04	0	13.9	2.79	8.25
n-Pentane	5	TRG	70.1	2.09E+04	0	2.6	0.51	1.47
Isoprene	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.09E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.09E+04	2642	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.09E+04	1752	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.09E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.09E+04	0	4.3	0.71	2.51
Methylcyclopentane	5	TRG	68.1	2.09E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.09E+04	0	2.8	0.57	1.63
Cyclohexane	5	TRG	88.2	2.09E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.09E+04	1923	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.09E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.09E+04	2359	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.09E+04	3944	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.09E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.09E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.09E+04	0	3.1	0.39	1.82	
n-Nonane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.09E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.09E+04	0	3.8	0.48	2.23	
4-Ethyltoluene	7	TRG	92.1	2.09E+04	0	6.4	0.91	3.43	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.09E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.09E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.09E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.09E+04	147711	238.6	39.76	140.46	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.09E+04	147711	238.6	238.56	156.43	
Total Volatile Organic Compoun	8	TRG	100.0	2.09E+04	147711	238.6	31.39	128.65	
TPH (gasoline)	7	TRG	95.0	2.09E+04	147711	238.6	34.08	132.69	
TPH (diesel)	15	TRG	198.0	2.09E+04	147711	238.6	15.90	129.06	
TPH (hexane)	6	TRG	86.2	2.09E+04	147711	238.6	39.76	140.46	
TPH (toluene)	7	TRG	92.1	2.09E+04	147711	238.6	34.08	128.69	
TPH (methane)	1	TRG	16.0	2.09E+04	147711	238.6	238.56	156.43	
TPH (Jet A Fuel)	13	TRG	177.0	2.09E+04	147711	238.6	18.35	133.12	
TPH (Mineral Spirits)	8	TRG	117.8	2.09E+04	147711	238.6	29.82	143.98	
C6+ (hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.09E+04		69.9			Sum ID
Paraffins	P	TRG	0.0	2.09E+04		25.1			Sum P
Isoparaffins	I	TRG	0.0	2.09E+04		25.1			Sum I
Aromatics	A	TRG	0.0	2.09E+04		6.4			Sum A
Napthlenes	N	TRG	0.0	2.09E+04		2.8			Sum N
Olefins	O	TRG	0.0	2.09E+04		10.5			Sum O
Oxygenates		TRG	0.0	2.09E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.09E+04	9783	15.8	7.90	9.75	
C3 (propane)	3	TRG	44.1	2.09E+04	8145	13.2	4.38	7.93	
C4 (Butane)	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.09E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.09E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.09E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.09E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.09E+04	17928	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 24

File Name: 2510024A
Description: T-206
Canister: 882
QC_Batch: 033125-GCK

Date Sampled: 03/20/25 **Time:** 9:55
Date Analyzed: 03/31/25 **Time:** 20:37
Can Factor: 1.24
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.24	3.73	16.55	1.43	4.30	19.06	
74-86-2	Acetylene	1.24	3.73	ND	1.33	3.98	ND	ND
74-84-0	Ethane	1.24	3.73	25.84	1.53	4.60	31.87	
115-07-1	Propene	0.83	2.49	56.24	1.43	4.29	97.03	
74-98-6	Propane	0.83	2.49	357.67	1.50	4.50	646.45	
75-28-5	i-Butane	0.62	1.87	ND	1.48	4.44	ND	ND
106-98-9	1-Butene	0.62	1.87	1.12	1.43	4.29	2.57	J
106-97-8	n-Butane	0.62	1.87	270.59	1.48	4.44	644.32	
624-64-6	t-2-Butene	0.62	1.87	2.50	1.43	4.29	5.76	
590-18-1	c-2-Butene	0.62	1.87	ND	1.43	4.29	ND	ND
78-78-4	i-Pentane	0.50	1.49	396.04	1.47	4.42	1,171.90	
109-67-1	1-Pentene	0.50	1.49	ND	1.43	4.29	ND	ND
109-66-0	n-Pentane	0.50	1.49	88.32	1.47	4.41	260.98	
646-04-8	t-2-Pentene	0.50	1.49	7.68	1.43	4.29	22.07	
627-20-3	c-2-Pentene	0.50	1.49	1.83	1.43	4.29	5.25	
75-83-2	2,2-Dimethylbutane	0.41	1.24	21.34	1.46	4.39	75.39	
142-29-0	Cyclopentene	0.50	1.49	ND	1.39	4.17	ND	ND
287-92-3	Cyclopentane	0.50	1.49	152.11	1.43	4.29	436.99	
79-29-8	2,3-Dimethylbutane	0.41	1.24	ND	1.46	4.39	ND	ND
107-83-5	2-Methylpentane	0.41	1.24	21.47	1.46	4.39	75.85	
96-14-0	3-Methylpentane	0.41	1.24	15.27	1.46	4.39	53.94	
592-41-6	1-Hexene	0.41	1.24	ND	1.43	4.29	ND	ND
110-54-3	n-Hexane	0.41	1.24	8.34	1.46	4.39	29.45	
1120-62-3	3-Methylcyclopentene	0.41	1.24	2.85	1.39	4.18	9.57	
96-37-7	Methylcyclopentane	0.41	1.24	2.13	1.43	4.29	7.36	
108-08-7	2,4-Dimethylpentane	0.36	1.07	14.12	1.46	4.38	58.00	
71-43-2	Benzene	0.41	1.24	1.92	1.33	3.98	6.15	
110-82-7	Cyclohexane	0.41	1.24	24.48	1.43	4.29	84.47	
591-76-4	2-Methylhexane	0.36	1.07	11.24	1.46	4.38	46.17	
565-59-3	2,3-Dimethylpentane	0.36	1.07	13.55	1.46	4.38	55.64	
589-34-4	3-Methylhexane	0.36	1.07	19.51	1.46	4.38	80.11	
540-84-1	2,2,4-Trimethylpentane	0.31	0.93	24.03	1.46	4.37	112.46	
142-82-5	n-Heptane	0.36	1.07	0.90	1.46	4.38	3.71	J
108-87-2	Methylcyclohexane	0.36	1.07	21.19	1.43	4.29	85.27	
592-13-2	2,5-Dimethylhexane	0.31	0.93	1.48	1.46	4.37	6.91	
589-43-5	2,4-Dimethylhexane	0.31	0.93	5.47	1.46	4.37	25.62	
565-75-3	2,3,4-Trimethylpentane	0.31	0.93	11.14	1.46	4.37	52.12	

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.07	3.72	1.34	4.02	14.03	
584-94-1	2,3-Dimethylhexane	0.31	0.93	3.25	1.46	4.37	15.22	
592-27-8	2-Methylheptane	0.31	0.93	2.14	1.46	4.37	10.02	
589-53-7	4-Methylheptane	0.31	0.93	0.72	1.46	4.37	3.39	J
589-81-1	3-Methylheptane	0.31	0.93	1.95	1.46	4.37	9.13	
111-65-9	n-Octane	0.31	0.93	ND	1.46	4.37	ND	ND
100-41-4	Ethylbenzene	0.31	0.93	ND	1.35	4.06	ND	ND
108-38-3	m,p-xylene	0.31	0.93	1.55	1.35	4.06	6.75	
100-42-5	Styrene	0.31	0.93	ND	1.33	3.98	ND	ND
95-47-6	o-xylene	0.31	0.93	3.55	1.35	4.06	15.46	
111-84-2	n-Nonane	0.28	0.83	ND	1.45	4.36	ND	ND
98-82-8	i-Propylbenzene	0.28	0.83	ND	1.36	4.08	ND	ND
103-65-1	n-propylbenzene	0.28	0.83	ND	1.36	4.08	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.83	ND	1.36	4.08	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.83	ND	1.36	4.08	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.83	ND	1.36	4.08	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.83	ND	1.36	4.08	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.83	ND	1.36	4.08	ND	ND
124-18-5	n-Decane	0.25	0.75	ND	1.45	4.35	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.83	ND	1.36	4.08	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.75	ND	1.37	4.10	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.75	ND	1.37	4.10	ND	ND
104-51-8	n-Butylbenzene	0.25	0.75	ND	1.37	4.10	ND	ND
1120-21-4	Undecane	0.23	0.68	ND	1.45	4.35	ND	ND
91-20-3	Naphthalene	0.25	0.75	ND	1.31	3.92	ND	ND
112-40-3	Dodecane	0.21	0.62	ND	1.45	4.34	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.33	27.98	2,642.47	32.95	98.86	9,335.29	
TNMHC - C1	Total Non-Methane Hydrocarbons	55.96	167.89	15,854.84	36.70	110.09	10,396.62	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **24**
File Name: **2510024A**
Sample ID: **T-206**
Sampled: **3/20/2025**
Received: **03/21/25**
Analyzed: **03/31/25**
QCBatch: **033125-GCK**
Can: **882**
Can Factor: **1.24**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **9:55** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **20:37** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **377602**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C4 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.04	**3.98**	20880	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.08			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.15**	32596	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.14**	106416	I	I	H	291	290
74-98-6	Propane	P	5.20	**5.20**	**5.24**	676827	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.64**						129	351
67-56-1	Methanol		8.30	8.34						129	401
106-98-9	1-Butene	P	7.29	7.33	**7.33**	2816	I	I	H	368	367
106-99-0	1,3-Butadiene		**7.48**	7.52						129	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.30**	682727	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.71	**8.65**	6320	I	I	H	408	410
590-18-1	c-2-Butene	P	9.63	9.59						201	431
64-17-5	Ethanol		10.85	10.84						201	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.04						201	465
67-64-1	Acetone		11.52	11.51						201	476
78-78-4	i-Pentane	P	11.37	11.36	**11.41**	1249059	I	I	H	475	473
109-67-1	1-Pentene	P	12.30	12.29	**12.38**		I	I	H	498	495
67-63-0	Isopropanol		12.65	12.64						201	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.35						201	497
109-66-0	n-Pentane	P	12.48	**12.47**	**12.47**	278548	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.54						164	503
646-04-8	t-2-Pentene	P	12.79	12.78	**12.81**	24226	I	I	H	509	510
627-20-3	c-2-Pentene	P	13.08	13.07	**13.12**	5763	I	I	H	517	518
75-65-0	Tert butyl alcohol		**13.55**	13.54						281	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.61						281	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.76	**13.80**	80759	I	I	H	536	537
142-29-0	Cyclopentene	15	**14.61**	14.60						164	551
71-23-8	n-Propanol		**14.75**	14.74						164	558
287-92-3	Cyclopentane	P	14.88	14.87	**14.81**	479717	I	O	M	563	567
1634-04-4	Methyl tert butyl ether		**15.00**	14.99						164	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.05						164	570
107-83-5	2-Methylpentane	P	15.08	15.07	**15.08**	81259	I	I	H	570	571
96-14-0	3-Methylpentane	P	15.55	15.54	**15.58**	57786	I	I	H	584	583
592-41-6	1-Hexene	P	**15.80**	15.79						164	590
110-54-3	n-Hexane	P	16.17	**16.16**	**16.18**	31547	I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.31						262	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.46	**16.44**	10769	I	O	M	606	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.81						216	623
96-37-7	Methylcyclopentane		P	16.86	16.87	**16.87**	8072	I	I	H	621	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.06	**17.07**	62360	I	I	H	627	626
71-43-2	Benzene		P	17.87	**17.88**	**17.90**	7272	I	I	H	653	651
110-82-7	Cyclohexane		P	18.14	18.17	**18.17**	92644	I	I	H	661	658
591-76-4	2-Methylhexane		P	18.38	18.41	**18.41**	49645	I	I	H	668	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.48	**18.48**	59829	I	I	H	671	671
589-34-4	3-Methylhexane		P	18.66	18.69	**18.69**	86136	I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.78						103	687
994-05-8	Tert amyl methyl ether			**18.80**	18.83						103	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.12	**19.11**	121251	I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.44	**19.44**	3991	I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.12	**20.13**	93545	I	I	H	724	722
592-13-2	2,5-Dimethylhexane			20.35	20.38	**20.39**	7454	I	I	H	732	734
589-43-5	2,4-Dimethylhexane			20.43	20.46	**20.47**	27627	I	I	H	735	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.96	**20.97**	56193	I	I	H	752	753
108-88-3	Toluene		P	21.12	**21.15**	**21.24**	16413	I	O	M	761	758
584-94-1	2,3-Dimethylhexane			21.20	21.32	**21.24**	16413	I	I	H	761	763
592-27-8	2-Methylheptane		P	21.33	21.45	**21.38**	10805	I	I	H	766	768
589-53-7	4-Methylheptane	48		**21.48**	21.60	**21.52**	3657	I	O	M	771	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.62						39	772
589-81-1	3-Methylheptane		p	21.55	21.67	**21.63**	9840	I	I	H	775	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.22						39	786
111-65-9	n-Octane		P	22.27	22.39	**22.38**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.87	**23.79**		I	I	H	856	855
108-38-3	m,p-xylene		P	23.95	24.07	**23.95**	7821	O	I	M	863	863
100-42-5	Styrene		P	24.40	24.52	**24.45**		I	I	H	883	881
95-47-6	o-xylene		P	24.57	24.69	**24.52**	17921	O	I	M	885	886
124-11-8	1-Nonene	64		24.60	24.72						-95	889
111-84-2	n-Nonane		P	24.87	24.99	**24.88**		O	I	M	900	900
98-82-8	i-Propylbenzene		P	25.36	25.48						-141	919
103-65-1	n-propylbenzene		P	25.93	26.05						-141	947
80-56-8	a-Pinene			26.09	26.21						-141	950
620-14-4	3-Ethyltoluene		P	26.17	26.29						-141	957
622-96-8	4-Ethyltoluene		P	26.26	26.38						-141	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.57						-141	964
611-14-3	2-Ethyltoluene		P	26.61	26.73						-141	975
127-91-3	b-Pinene			26.80	26.92						-141	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.20						-141	991
124-18-5	n-Decane		P	27.26	27.38	**27.27**		O	I	M	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.67						-10	1014
496-11-7	Indan	81		27.55	27.67						-10	1020
5989-27-5	d-Limonene			27.65	27.77						-10	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.22						-10	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.35						-10	1037
104-51-8	n-Butylbenzene			28.45	28.57						-10	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.72						-10	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.87						-10	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.95						-10	1060
1120-21-4	Undecane		P	29.86	3.41	**29.97**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.57						-104	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.62						-104	1124
91-20-3	Naphthalene		32.25	32.37						-104	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					10000700		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					10000700		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					10000700		0			
TVOC	Total Volatile Organic Compounds					10000700		0			
TPH(g)	TPH (gasoline)					10000700		0			
TPH(d)	TPH (diesel)					10000700		0			
TPH(h)	TPH (hexane)					10000700		0			
TPH(t)	TPH (toluene)					10000700		0			
TPHC	TPH (methane)					10000700		0			
TPH(Jet A)	TPH (Jet A Fuel)					10000700		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					10000700					
C6+	**C6+ (hexane)**		16.17	16.16	16.18	**0**		Sum from	16.16	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			53476		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			783243		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**836719**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	033125-GCK		
Hexane Std Area:	377602		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.24	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.24		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	33.10	16.55	19.06	33.10	16.55	19.06	19.06	19.06
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	51.68	25.84	31.87	51.68	25.84	31.87	31.87	31.87
Propene	42.1	3	168.71	56.24	97.03	168.71	56.24	97.03	97.03	97.03
Propane	44.1	3	1073.02	357.67	646.45	1,073.02	357.67	646.45	646.45	646.45
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	4.46	1.12	2.57	4.46	1.12	2.57	2.57	2.57
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	1082.38	270.59	644.32	1,082.38	270.59	644.32	644.32	644.32
t-2-Butene	56.1	4	10.02	2.50	5.76	10.02	2.50	5.76	5.76	5.76
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	1980.22	396.04	1171.90	1,980.22	396.04	1,171.90	1,171.90	1,171.90
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	441.60	88.32	260.98	441.60	88.32	260.98	260.98	260.98
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	38.41	7.68	22.07	38.41	7.68	22.07	22.07	22.07
c-2-Pentene	70.1	5	9.14	1.83	5.25	9.14	1.83	5.25	5.25	5.25
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	128.03	21.34	75.39	128.03	21.34	75.39	75.39	75.39
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	760.53	152.11	436.99	760.53	152.11	436.99	436.99	436.99
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	128.83	21.47	75.85	128.83	21.47	75.85	75.85	75.85
3-Methylpentane	86.2	6	91.61	15.27	53.94	91.61	15.27	53.94	53.94	53.94
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	50.01	**8.34**	29.45	50.01	8.34	29.45	29.45	29.45
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	17.07	2.85	9.57	17.07	2.85	9.57	9.57	9.57
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	12.80	2.13	7.36	12.80	2.13	7.36	7.36	7.36
2,4-Dimethylpentane	100.2	7	98.86	14.12	58.00	98.86	14.12	58.00	58.00	58.00
Benzene	78.1	6	11.53	1.92	6.15	11.53	1.92	6.15	6.15	6.15
Cyclohexane	84.2	6	146.88	24.48	84.47	146.88	24.48	84.47	84.47	84.47
2-Methylhexane	100.2	7	78.71	11.24	46.17	78.71	11.24	46.17	46.17	46.17
2,3-Dimethylpentane	100.2	7	94.85	13.55	55.64	94.85	13.55	55.64	55.64	55.64
3-Methylhexane	100.2	7	136.56	19.51	80.11	136.56	19.51	80.11	80.11	80.11
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	192.23	24.03	112.46	192.23	24.03	112.46	112.46	112.46
n-Heptane	100.2	7	6.33	0.90	3.71	6.33	0.90	3.71	3.71	3.71
Methylcyclohexane	98.2	7	148.30	21.19	85.27	148.30	21.19	85.27	85.27	85.27
2,5-Dimethylhexane	114.2	8	11.82	1.48	6.91	11.82	1.48	6.91	6.91	6.91
2,4-Dimethylhexane	114.2	8	43.80	5.47	25.62	43.80	5.47	25.62	25.62	25.62
2,3,4-Trimethylpentane	114.2	8	89.09	11.14	52.12	89.09	11.14	52.12	52.12	52.12
Toluene	92.1	7	26.02	3.72	14.03	26.02	3.72	14.03	14.03	14.03
2,3-Dimethylhexane	114.2	8	26.02	3.25	15.22	26.02	3.25	15.22	15.22	15.22
2-Methylheptane	114.2	8	17.13	2.14	10.02	17.13	2.14	10.02	10.02	10.02
4-Methylheptane	114.2	8	5.80	0.72	3.39	5.80	0.72	3.39	3.39	3.39
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	15.60	1.95	9.13	15.60	1.95	9.13	9.13	9.13
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	12.40	1.55	6.75	12.40	1.55	6.75	6.75	6.75
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	28.41	3.55	15.46	28.41	3.55	15.46	15.46	15.46
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	15854.84	2642.5	9335.3	15,854.84	2,642.47	9,335.29	9,335.29	9,335.29
Total Non-Methane Hydrocarbons	16	1.0	15854.84	15854.8	10396.6	15,854.84	15,854.84	10,396.62	10,396.62	10,396.62
Total Volatile Organic Compounds	100	7.6	15854.84	2086.2	8549.8	15,854.84	2,086.16	8,549.85	8,549.85	8,549.85
TPH (gasoline)	95	7.0	15854.84	2265.0	8818.6	15,854.84	2,264.98	8,818.56	8,818.56	8,818.56
TPH (diesel)	198	15.0	15854.84	1057.0	8577.2	15,854.84	1,056.99	8,577.21	8,577.21	8,577.21
TPH (hexane)	86.2	6.0	15854.84	2642.5	9335.3	15,854.84	2,642.47	9,335.29	9,335.29	9,335.29
TPH (toluene)	92.14	7.0	15854.84	2265.0	8553.1	15,854.84	2,264.98	8,553.07	8,553.07	8,553.07
TPH (methane)	16	1.0	15854.84	15854.8	10396.6	15,854.84	15,854.84	10,396.62	10,396.62	10,396.62
TPH (Jet A Fuel)	177	13.0	15854.84	1219.6	8847.1	15,854.84	1,219.60	8,847.12	8,847.12	8,847.12
TPH (Mineral Spirits)	117.81	8.0	15854.84	1981.9	9568.9	15,854.84	1,981.85	9,568.95	9,568.95	9,568.95
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			7272.0	1613.8						
Paraffins			2705.0							
Isoparaffins			3139.2							
Aromatics			78.4							
Napthlenes			1085.6							
Olefins			263.8							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	84.78	42.39	52.29	84.78	42.39	52.29	52.29	52.29
C3 (propane)	44.1	3	1241.73	413.91	748.09	1,241.73	413.91	748.09	748.09	748.09
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			1326.5							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	441.6	73.60	217.63					
Aliphatic C6-C8	100.2	7	56.3	8.05	33.05					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	128.0	21.34	75.37					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	5991.0	82.4
Alkenes	263.8	3.6
Alkynes	0.0	0.0
Cycloalkanes	921.6	12.7
Cycloalkenes	17.1	0.2
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	78.4	1.1
Terpenes	0.0	0.0

SDG: **225100**
Laboratory Number: **24**

Mole %	(1)	(2)	Calc	Calc	Calc	Calc	Calc	Calc				
Result	MDL	MDL	MDL	MDL	MDL	RL	RL	RL		Detect	EPA	Rept
%	ppbC	ppbV	ppbV	ug/m3	ppbC	ppbV	ug/m3	ppbC	Flag	Flan	Flag	Res
1.0	2.000	1.00	1.24	1.43	2.49	3.73	4.30	7.5		=		Y
0.0	2.000	1.00	1.24	1.33	2.49	3.73	3.98	7.5	U	ND		Y
1.6	2.000	1.00	1.24	1.53	2.49	3.73	4.60	7.5		=		Y
3.5	2.000	0.67	0.83	1.43	2.49	2.49	4.29	7.5		=		Y
22.2	2.000	0.67	0.83	1.50	2.49	2.49	4.50	7.5		=		Y
0.0	2.000	0.50	0.62	1.48	2.49	1.87	4.44	7.5	U	ND		Y
0.0	2.000	2.00	2.49	3.26	2.49	7.46	9.79	7.5	U	ND		Y
0.1	2.000	0.50	0.62	1.43	2.49	1.87	4.29	7.5	J	=		Y
0.0	2.000	0.50	0.62	1.38	2.49	1.87	4.14	7.5	U	ND		Y
16.8	2.000	0.50	0.62	1.48	2.49	1.87	4.44	7.5		=		Y
0.2	2.000	0.50	0.62	1.43	2.49	1.87	4.29	7.5		=		Y
0.0	2.000	0.50	0.62	1.43	2.49	1.87	4.29	7.5	U	ND		Y
0.0	2.000	1.00	1.24	2.35	2.49	3.73	7.05	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5	U	ND		Y
0.0	2.000	0.67	0.83	1.97	2.49	2.49	5.92	7.5	U	ND		Y
24.5	2.000	0.40	0.50	1.47	2.49	1.49	4.42	7.5		=		Y
0.0	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5	U	ND		Y
0.0	2.000	0.67	0.83	2.04	2.49	2.49	6.13	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5	U	ND		Y
5.5	2.000	0.40	0.50	1.47	2.49	1.49	4.41	7.5		=		Y
0.0	2.000	0.40	0.50	1.39	2.49	1.49	4.17	7.5	U	ND		Y
0.5	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5		=		Y
0.1	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5		=		Y
0.0	2.000	0.50	0.62	1.89	2.49	1.87	5.67	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5	U	ND		Y
1.3	2.000	0.33	0.41	1.46	2.49	1.24	4.39	7.5		=		Y
0.0	2.000	0.40	0.50	1.39	2.49	1.49	4.17	7.5	U	ND		Y
0.0	2.000	0.67	0.83	2.04	2.49	2.49	6.13	7.5	U	ND		Y
9.4	2.000	0.40	0.50	1.43	2.49	1.49	4.29	7.5		=		Y
0.0	2.000	0.40	0.50	1.80	2.49	1.49	5.39	7.5	U	ND		Y
0.0	2.000	0.33	0.41	1.46	2.49	1.24	4.39	7.5	U	ND		Y
1.3	2.000	0.33	0.41	1.46	2.49	1.24	4.39	7.5		=		Y
0.9	2.000	0.33	0.41	1.46	2.49	1.24	4.39	7.5		=		Y
0.0	2.000	0.33	0.41	1.43	2.49	1.24	4.29	7.5	U	ND		Y
0.5	2.000	0.33	0.41	1.46	2.49	1.24	4.39	7.5		=		Y
0.0	2.000	0.33	0.41	1.74	2.49	1.24	5.21	7.5	U	ND		Y

0.2	2.000	0.33	0.41	1.39	2.49	1.24	4.18	7.5		=	Y
0.0	2.000	0.33	0.41	1.74	2.49	1.24	5.21	7.5	U	ND	Y
0.1	2.000	0.33	0.41	1.43	2.49	1.24	4.29	7.5		=	Y
0.9	2.000	0.29	0.36	1.46	2.49	1.07	4.38	7.5		=	Y
0.1	2.000	0.33	0.41	1.33	2.49	1.24	3.98	7.5		=	Y
1.5	2.000	0.33	0.41	1.43	2.49	1.24	4.29	7.5		=	Y
0.7	2.000	0.29	0.36	1.46	2.49	1.07	4.38	7.5		=	Y
0.8	2.000	0.29	0.36	1.46	2.49	1.07	4.38	7.5		=	Y
1.2	2.000	0.29	0.36	1.46	2.49	1.07	4.38	7.5		=	Y
0.0	2.000	0.29	0.36	1.43	2.49	1.07	4.29	7.5	U	ND	Y
0.0	2.000	0.33	0.41	1.74	2.49	1.24	5.21	7.5	U	ND	Y
1.5	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5		=	Y
0.1	2.000	0.29	0.36	1.46	2.49	1.07	4.38	7.5	J	=	Y
1.3	2.000	0.29	0.36	1.43	2.49	1.07	4.29	7.5		=	Y
0.1	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5		=	Y
0.3	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5		=	Y
0.7	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5		=	Y
0.2	2.000	0.29	0.36	1.34	2.49	1.07	4.02	7.5		=	Y
0.2	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5		=	Y
0.1	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5		=	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	J	=	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.1	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5		=	Y
0.0	2.000	0.25	0.31	1.43	2.49	0.93	4.29	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.49	0.93	4.37	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.35	2.49	0.93	4.06	7.5	U	ND	Y
0.1	2.000	0.25	0.31	1.35	2.49	0.93	4.06	7.5		=	Y
0.0	2.000	0.25	0.31	1.33	2.49	0.93	3.98	7.5	U	ND	Y
0.2	2.000	0.25	0.31	1.35	2.49	0.93	4.06	7.5		=	Y
0.0	2.000	0.22	0.28	1.43	2.49	0.83	4.29	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.45	2.49	0.83	4.36	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.08	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.08	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.49	0.75	4.17	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.08	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.08	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.08	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.08	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.49	0.75	4.17	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.08	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.45	2.49	0.75	4.35	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.49	0.83	4.08	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.34	2.49	0.83	4.02	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.49	0.75	4.17	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.10	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.10	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.10	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.10	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.10	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.10	7.5	U	ND	Y
0.0	2.000	0.18	0.23	1.45	2.49	0.68	4.35	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.10	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.49	0.75	4.10	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.31	2.49	0.75	3.92	7.5	U	ND	Y

0.0	2.000	0.17	0.21	1.45	2.49	0.62	4.34	7.5	U	ND	Y
%											Y
100.0	45.00	7.5	9.33	32.95	55.96	28.0	98.9	167.9		=	Y
100.0	45.00	45.0	55.96	36.70	55.96	167.9	110.1	167.9		=	Y
100.0	45.00	5.9	7.36	30.18	55.96	22.1	90.5	167.9		=	Y
100.0	45.00	6.4	7.99	31.13	55.96	24.0	93.4	167.9		=	Y
100.0	45.00	3.0	3.73	30.28	55.96	11.2	90.8	167.9		=	Y
100.0	45.00	7.5	9.33	32.95	55.96	28.0	98.9	167.9		=	Y
100.0	45.00	6.4	7.99	30.19	55.96	24.0	90.6	167.9		=	Y
100.0	45.00	45.0	55.96	36.70	55.96	167.9	110.1	167.9		=	Y
100.0	45.00	3.5	4.30	31.23	55.96	12.9	93.7	167.9		=	Y
100.0	45.00	5.6	7.00	33.78	55.96	21.0	101.3	167.9		=	Y
0.0	45.00	7.5	9.33	32.95	55.96	28.0	98.9	167.9	U	ND	Y
0.0	25.000	3.6	4.44	17.29	31.09	13.3	51.9	93.3	U	ND	Y
%											Y
45.9											Y
37.2											Y
43.2											Y
1.1											Y
14.9											Y
3.6											Y
0.0											Y
%											Y
6.4	5.000	2.5	3.11	3.84	6.22	9.3	11.5	18.7		=	Y
93.6	5.000	1.7	2.07	3.75	6.22	6.2	11.2	18.7		=	Y
0.0	25.000	6.3	7.77	18.51	31.09	23.3	55.5	93.3	U	ND	Y
0.0	25.000	5.0	6.22	18.39	31.09	18.7	55.2	93.3	U	ND	Y
0.0	25.000	4.2	5.18	18.31	31.09	15.5	54.9	93.3	U	ND	Y
0.0	25.000	3.6	4.44	18.24	31.09	13.3	54.7	93.3	U	ND	Y
0.0	25.000	3.1	3.89	18.19	31.09	11.7	54.6	93.3	U	ND	Y
0.0	25.000	2.8	3.45	18.16	31.09	10.4	54.5	93.3	U	ND	Y
0.0	25.000	2.5	3.11	18.13	31.09	9.3	54.4	93.3	U	ND	Y
0.0	25.000	2.3	2.83	18.11	31.09	8.5	54.3	93.3	U	ND	Y
0.0	25.000	2.1	2.59	18.08	31.09	7.8	54.3	93.3	U	ND	Y
0.0	25.000	2.1	2.59	18.08	31.09	7.8	54.3	93.3	U	ND	Y
100.0											Y
											Y
2.8	6.0	1.0	1.24	3.68	7.46	3.7	11.0	22.4			Y
0.4	6.0	0.9	1.07	4.38	7.46	3.2	13.1	22.4			Y
0.0	6.0	0.7	0.83	4.36	7.46	2.5	13.1	22.4			Y
0.0	6.0	0.5	0.68	3.97	7.46	2.0	11.9	22.4			Y
0.0	6.0	0.7	0.83	3.88	7.46	2.5	11.6	22.4			Y
0.0	6.0	0.5	0.68	3.96	7.46	2.0	11.9	22.4			Y
1.3	2.0	0.3	0.41	1.46	2.49	1.2	4.4	7.5		=	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
				33.1			33.10		
				0.0				0.00	
51.7						51.68			
				168.7			168.71		
1073.0						1073.02			
	0.0					0.00			
					0.0				
				4.5			4.46		
				0.0			0.00		
1082.4						1082.38			
				10.0			10.02		
				0.0			0.00		
					0.0				
				0.0			0.00		
					0.0				
	1980.2					1980.22			
				0.0			0.00		
					0.0				
				0.0			0.00		
441.6						441.60			
				0.0			0.00		
				38.4			38.41		
				9.1			9.14		
					0.0				
				0.0			0.00		
	128.0					128.03			
			0.0						0.00
					0.0				
			760.5						760.53
					0.0				
	0.0					0.00			
	128.8					128.83			
	91.6					91.61			
				0.0			0.00		
50.0						50.01			
					0.0				

| | | |

0.0						0.00			
2705.0	3139.2	78.4	1085.6	263.8	0.0	5991.0	263.8	0.0	921.6

441.60	348.47		
56.34	810.46		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
	0.00				
	0.00				
	0.00				
				0.00	
				0.00	

17.07

0.00

11.53

0.00

26.02

0.00
12.40
0.00
28.41

0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00

0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00

0.00
0.00
0.00

17.1	0.0	0.0	0.0	78.4	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**24**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.24	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = Cn

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	Cn ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.09E+04	20880	33.1	16.55	19.06
Acetylene	2	TRG	26.0	2.09E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.09E+04	32596	51.7	25.84	31.87
Propene	3	TRG	4.5	2.09E+04	4	168.7	56.24	97.03
Propane	3	TRG	44.1	2.09E+04	676827	1073.0	357.67	646.45
i-Butane	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.09E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.09E+04	2816	4.5	1.12	2.57
n-Butane	4	TRG	54.1	2.09E+04	682727	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.09E+04	6320	1082.4	270.59	644.32
c-2-Butene	4	TRG	56.1	2.09E+04	0	10.0	2.50	5.76
Ethanol	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.09E+04	1249059	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.09E+04	0	1980.2	396.04	1171.90
n-Pentane	5	TRG	70.1	2.09E+04	278548	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.09E+04	24226	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.09E+04	5763	441.6	88.32	260.98
2,2-Dimethylbutane	5	TRG	68.1	2.09E+04	80759	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.09E+04	479717	38.4	7.68	22.07
2,3-Dimethylbutane	5	TRG	70.1	2.09E+04	0	9.1	1.83	5.25
2-Methylpentane	4	TRG	74.1	2.09E+04	81259	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.09E+04	57786	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.09E+04	31547	128.0	21.34	75.39
Methylcyclopentane	5	TRG	68.1	2.09E+04	8072	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.09E+04	62360	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.09E+04	7272	760.5	152.11	436.99
Cyclohexane	5	TRG	88.2	2.09E+04	92644	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.09E+04	49645	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.09E+04	59829	128.8	21.47	75.85
3-Methylhexane	6	TRG	86.2	2.09E+04	86136	91.6	15.27	53.94
2,2,4-Trimethylpentane	6	TRG	84.2	2.09E+04	121251	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.09E+04	3991	50.0	8.34	29.45
Methylcyclohexane	6	TRG	102.2	2.09E+04	93545	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.09E+04	7454	17.1	2.85	9.57
2,4-Dimethylhexane	6	TRG	102.2	2.09E+04	27627	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.09E+04	56193	12.8	2.13	7.36	
Toluene	7	TRG	100.2	2.09E+04	16413	98.9	14.12	58.00	
2,3-Dimethylhexane	6	TRG	78.1	2.09E+04	16413	11.5	1.92	6.15	
2-Methylheptane	6	TRG	84.2	2.09E+04	10805	146.9	24.48	84.47	
3-Methylheptane	7	TRG	100.2	2.09E+04	9840	78.7	11.24	46.17	
n-Octane	7	TRG	100.2	2.09E+04	0	94.9	13.55	55.64	
Ethylbenzene	7	TRG	100.2	2.09E+04	0	136.6	19.51	80.11	
m,p-xylene	7	TRG	98.2	2.09E+04	7821	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.09E+04	17921	192.2	24.03	112.46	
n-Nonane	7	TRG	100.2	2.09E+04	0	6.3	0.90	3.71	
i-Propylbenzene	7	TRG	98.2	2.09E+04	0	148.3	21.19	85.27	
n-propylbenzene	8	TRG	114.2	2.09E+04	0	11.8	1.48	6.91	
a-Pinene	8	TRG	114.2	2.09E+04	0	43.8	5.47	25.62	
3-Ethyltoluene	8	TRG	114.2	2.09E+04	0	89.1	11.14	52.12	
4-Ethyltoluene	7	TRG	92.1	2.09E+04	0	26.0	3.72	14.03	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	26.0	3.25	15.22	
2-Ethyltoluene	8	TRG	114.2	2.09E+04	0	17.1	2.14	10.02	
b-Pinene	8	TRG	114.2	2.09E+04	0	5.8	0.72	3.39	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.09E+04	0	15.6	1.95	9.13	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.09E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.09E+04	0	12.4	1.55	6.75	
n-Butylbenzene	8	TRG	104.2	2.09E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.09E+04	0	28.4	3.55	15.46	
Dodecane	9	TRG	126.2	2.09E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.09E+04	10000700	15854.8	2642.47	9335.29	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.09E+04	10000700	15854.8	15854.84	10396.62	
Total Volatile Organic Compoun	8	TRG	100.0	2.09E+04	10000700	15854.8	2086.16	8549.85	
TPH (gasoline)	7	TRG	95.0	2.09E+04	10000700	15854.8	2264.98	8818.56	
TPH (diesel)	15	TRG	198.0	2.09E+04	10000700	15854.8	1056.99	8577.21	
TPH (hexane)	6	TRG	86.2	2.09E+04	10000700	15854.8	2642.47	9335.29	
TPH (toluene)	7	TRG	92.1	2.09E+04	10000700	15854.8	2264.98	8553.07	
TPH (methane)	1	TRG	16.0	2.09E+04	10000700	15854.8	15854.84	10396.62	
TPH (Jet A Fuel)	13	TRG	177.0	2.09E+04	10000700	15854.8	1219.60	8847.12	
TPH (Mineral Spirits)	8	TRG	117.8	2.09E+04	10000700	15854.8	1981.85	9568.95	
C6+ (hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.09E+04		7272.0			Sum ID
Paraffins	P	TRG	0.0	2.09E+04		2705.0			Sum P
Isoparaffins	I	TRG	0.0	2.09E+04		3139.2			Sum I
Aromatics	A	TRG	0.0	2.09E+04		78.4			Sum A
Napthlenes	N	TRG	0.0	2.09E+04		1085.6			Sum N
Olefins	O	TRG	0.0	2.09E+04		263.8			Sum O
Oxygenates		TRG	0.0	2.09E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.09E+04	53476	84.8	42.39	52.29	
C3 (propane)	3	TRG	44.1	2.09E+04	783243	1241.7	413.91	748.09	
C4 (Butane)	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.09E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.09E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.09E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.09E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.09E+04	836719	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 25

File Name: 2510025A
Description: T-207
Canister: 627
QC_Batch: 040325-GCK

Date Sampled: 03/20/25 **Time:** 10:05
Date Analyzed: 04/03/25 **Time:** 11:44
Can Factor: 1.31
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.31	3.92	2.22	1.50	4.51	2.56	J
74-86-2	Acetylene	1.31	3.92	ND	1.39	4.18	ND	ND
74-84-0	Ethane	1.31	3.92	7.03	1.61	4.83	8.67	
115-07-1	Propene	0.87	2.61	2.17	1.50	4.51	3.74	J
74-98-6	Propane	0.87	2.61	5.89	1.57	4.72	10.65	
75-28-5	i-Butane	0.65	1.96	ND	1.56	4.67	ND	ND
106-98-9	1-Butene	0.65	1.96	ND	1.50	4.51	ND	ND
106-97-8	n-Butane	0.65	1.96	1.91	1.56	4.67	4.54	J
624-64-6	t-2-Butene	0.65	1.96	ND	1.50	4.51	ND	ND
590-18-1	c-2-Butene	0.65	1.96	2.36	1.50	4.51	5.42	
78-78-4	i-Pentane	0.52	1.57	13.12	1.55	4.64	38.82	
109-67-1	1-Pentene	0.52	1.57	0.56	1.50	4.50	1.62	J
109-66-0	n-Pentane	0.52	1.57	0.76	1.54	4.63	2.26	J
646-04-8	t-2-Pentene	0.52	1.57	ND	1.50	4.50	ND	ND
627-20-3	c-2-Pentene	0.52	1.57	ND	1.50	4.50	ND	ND
75-83-2	2,2-Dimethylbutane	0.44	1.31	1.29	1.54	4.62	4.57	J
142-29-0	Cyclopentene	0.52	1.57	ND	1.46	4.38	ND	ND
287-92-3	Cyclopentane	0.52	1.57	1.46	1.50	4.50	4.18	J
79-29-8	2,3-Dimethylbutane	0.44	1.31	ND	1.54	4.62	ND	ND
107-83-5	2-Methylpentane	0.44	1.31	ND	1.54	4.62	ND	ND
96-14-0	3-Methylpentane	0.44	1.31	ND	1.54	4.62	ND	ND
592-41-6	1-Hexene	0.44	1.31	ND	1.50	4.51	ND	ND
110-54-3	n-Hexane	0.44	1.31	ND	1.54	4.62	ND	ND
1120-62-3	3-Methylcyclopentene	0.44	1.31	ND	1.47	4.40	ND	ND
96-37-7	Methylcyclopentane	0.44	1.31	ND	1.50	4.51	ND	ND
108-08-7	2,4-Dimethylpentane	0.37	1.12	ND	1.53	4.60	ND	ND
71-43-2	Benzene	0.44	1.31	2.65	1.39	4.18	8.47	
110-82-7	Cyclohexane	0.44	1.31	1.36	1.50	4.51	4.68	
591-76-4	2-Methylhexane	0.37	1.12	ND	1.53	4.60	ND	ND
565-59-3	2,3-Dimethylpentane	0.37	1.12	0.60	1.53	4.60	2.47	J
589-34-4	3-Methylhexane	0.37	1.12	ND	1.53	4.60	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.33	0.98	2.21	1.53	4.59	10.33	
142-82-5	n-Heptane	0.37	1.12	ND	1.53	4.60	ND	ND
108-87-2	Methylcyclohexane	0.37	1.12	0.72	1.50	4.51	2.89	J
592-13-2	2,5-Dimethylhexane	0.33	0.98	ND	1.53	4.59	ND	ND
589-43-5	2,4-Dimethylhexane	0.33	0.98	ND	1.53	4.59	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.33	0.98	1.36	1.53	4.59	6.38	

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.37	1.12	2.38	1.41	4.23	8.99	
584-94-1	2,3-Dimethylhexane	0.33	0.98	ND	1.53	4.59	ND	ND
592-27-8	2-Methylheptane	0.33	0.98	ND	1.53	4.59	ND	ND
589-53-7	4-Methylheptane	0.33	0.98	ND	1.53	4.59	ND	ND
589-81-1	3-Methylheptane	0.33	0.98	ND	1.53	4.59	ND	ND
111-65-9	n-Octane	0.33	0.98	ND	1.53	4.59	ND	ND
100-41-4	Ethylbenzene	0.33	0.98	ND	1.42	4.26	ND	ND
108-38-3	m,p-xylene	0.33	0.98	ND	1.42	4.26	ND	ND
100-42-5	Styrene	0.33	0.98	ND	1.39	4.18	ND	ND
95-47-6	o-xylene	0.33	0.98	0.35	1.42	4.26	1.52	J
111-84-2	n-Nonane	0.29	0.87	0.60	1.53	4.58	3.13	J
98-82-8	i-Propylbenzene	0.29	0.87	ND	1.43	4.29	ND	ND
103-65-1	n-propylbenzene	0.29	0.87	ND	1.43	4.29	ND	ND
620-14-4	3-Ethyltoluene	0.29	0.87	ND	1.43	4.29	ND	ND
622-96-8	4-Ethyltoluene	0.29	0.87	ND	1.43	4.29	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.29	0.87	ND	1.43	4.29	ND	ND
611-14-3	2-Ethyltoluene	0.29	0.87	ND	1.43	4.29	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	0.87	ND	1.43	4.29	ND	ND
124-18-5	n-Decane	0.26	0.78	ND	1.52	4.57	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.29	0.87	ND	1.43	4.29	ND	ND
141-93-5	1,3-Diethylbenzene	0.26	0.78	ND	1.44	4.31	ND	ND
105-05-5	1,4-Diethylbenzene	0.26	0.78	ND	1.44	4.31	ND	ND
104-51-8	n-Butylbenzene	0.26	0.78	ND	1.44	4.31	ND	ND
1120-21-4	Undecane	0.24	0.71	ND	1.52	4.56	ND	ND
91-20-3	Naphthalene	0.26	0.78	ND	1.37	4.12	ND	ND
112-40-3	Dodecane	0.22	0.65	ND	1.52	4.56	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.80	29.39	158.88	34.61	103.84	561.30	
TNMHC - C1	Total Non-Methane Hydrocarbons	58.79	176.36	953.30	38.55	115.64	625.11	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **25**
File Name: **2510025A**
Sample ID: **T-207**
Sampled: **3/20/2025**
Received: **03/21/25**
Analyzed: **04/03/25**
QCBatch: **040325-GCK**
Can: **627**
Can Factor: **1.31**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **10:05** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **11:44** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **402031**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

				RT Win	C2-C4	C5-C12
				RT	**0.3**	**0.1**
				RTI	**3**	**3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.11	**4.09**	2671	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.15			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.22**	8444	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.17**	3903	I	I	H	292	290
74-98-6	Propane	P	5.20	**5.20**	**5.25**	10612	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.65**						132	351
67-56-1	Methanol		8.30	8.35						132	401
106-98-9	1-Butene	P	7.29	7.34						132	367
106-99-0	1,3-Butadiene		**7.48**	7.53						132	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.38**	4583	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.79	**8.87**	1564	I	I	H	412	410
590-18-1	c-2-Butene	P	9.63	9.67	**9.62**	5658	I	I	H	430	431
64-17-5	Ethanol		10.85	10.86						196	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.06						196	465
67-64-1	Acetone		11.52	11.53						196	476
78-78-4	i-Pentane	P	11.37	11.38	**11.40**	39393	I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.31	**12.34**	1690	I	I	H	496	495
67-63-0	Isopropanol		12.65	12.66						196	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.37						196	497
109-66-0	n-Pentane	P	12.48	**12.49**	**12.49**	2296	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.56						161	503
646-04-8	t-2-Pentene	P	12.79	12.80						161	510
627-20-3	c-2-Pentene	P	13.08	13.09						161	518
75-65-0	Tert butyl alcohol		**13.55**	13.56						280	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.63						280	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.78	**13.79**	4660	I	I	H	535	537
142-29-0	Cyclopentene	15	**14.61**	14.62						161	551
71-23-8	n-Propanol		**14.75**	14.76						161	558
287-92-3	Cyclopentane	P	14.88	14.89	**14.91**	4370	I	I	H	566	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.01						161	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.07						161	570
107-83-5	2-Methylpentane	P	15.08	15.09	**15.10**	1549	I	I	H	571	571
96-14-0	3-Methylpentane	P	15.55	15.56	**15.59**	1128	I	I	H	584	583
592-41-6	1-Hexene	P	**15.80**	15.81						161	590
110-54-3	n-Hexane	P	16.17	**16.18**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						261	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						104	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						104	626
71-43-2	Benzene		P	17.87	**17.87**	**17.89**	9535	I	I	H	653	651
110-82-7	Cyclohexane		P	18.14	18.16	**18.15**	4891	I	I	H	661	658
591-76-4	2-Methylhexane		P	18.38	18.40						104	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.47	**18.47**	2530	I	I	H	671	671
589-34-4	3-Methylhexane		P	18.66	18.68						104	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.77						104	687
994-05-8	Tert amyl methyl ether			**18.80**	18.82						104	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.11	**19.10**	10602	I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.43	**19.43**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.11	**20.12**	3021	I	I	H	724	722
592-13-2	2,5-Dimethylhexane			20.35	20.37						30	734
589-43-5	2,4-Dimethylhexane			20.43	20.45						30	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.95	**20.95**	6552	I	I	H	752	753
108-88-3	Toluene		P	21.12	**21.14**	**21.10**	10010	I	I	H	758	758
584-94-1	2,3-Dimethylhexane			21.20	21.18	**21.22**	1393	I	I	H	762	763
592-27-8	2-Methylheptane		P	21.33	21.31						30	768
589-53-7	4-Methylheptane	48		**21.48**	21.46						30	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.48						30	772
589-81-1	3-Methylheptane		p	21.55	21.53						30	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.08						30	786
111-65-9	n-Octane		P	22.27	22.25	**22.33**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.73	**23.71**	1011	I	I	H	853	855
108-38-3	m,p-xylene		P	23.95	23.93						-66	863
100-42-5	Styrene		P	24.40	24.38						-66	881
95-47-6	o-xylene		P	24.57	24.55	**24.48**	1675	I	I	H	883	886
124-11-8	1-Nonene	64		24.60	24.58						-66	889
111-84-2	n-Nonane		P	24.87	24.85	**24.91**	3217	I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.34	**25.26**		I	O	M	915	919
103-65-1	n-propylbenzene		P	25.93	25.91	**25.93**		I	O	M	943	947
80-56-8	a-Pinene			26.09	26.07						-160	950
620-14-4	3-Ethyltoluene		P	26.17	26.15	**26.12**		I	O	M	951	957
622-96-8	4-Ethyltoluene		P	26.26	26.24						-160	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.43	**26.52**		I	O	M	968	964
611-14-3	2-Ethyltoluene		P	26.61	26.59	**26.60**		I	O	M	972	975
127-91-3	b-Pinene			26.80	26.78						-160	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.06	**26.97**		I	O	M	988	991
124-18-5	n-Decane		P	27.26	27.24	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.53	**27.49**		I	O	M	1009	1014
496-11-7	Indan	81		27.55	27.53						-48	1020
5989-27-5	d-Limonene			27.65	27.63						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.08	**28.08**		I	I	H	1032	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.21						-48	1037
104-51-8	n-Butylbenzene			28.45	28.43						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.58						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.73						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.81						-48	1060
1120-21-4	Undecane		P	29.86	29.93	**29.86**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.43						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.48						-48	1124
91-20-3	Naphthalene		32.25	32.23						-48	1193
112-40-3	Dodecane	P	32.46	32.53	**32.46**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					0		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					572450		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					572450		0			
TVOC	Total Volatile Organic Compounds					0		0			
TPH(g)	TPH (gasoline)					0		0			
TPH(d)	TPH (diesel)					0		0			
TPH(h)	TPH (hexane)					0		0			
TPH(t)	TPH (toluene)					0		0			
TPHC	TPH (methane)					0		0			
TPH(Jet A)	TPH (Jet A Fuel)					0		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					0					
C6+	**C6+ (hexane)**		16.17	16.18	16.17	**0**		Sum from	16.18	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			11115		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			14515		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**25630**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040325-GCK		
Hexane Std Area:	402031		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.31	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.31		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	4.45	2.22	2.56	4.45	2.22	2.56	2.56	2.56
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	14.06	7.03	8.67	14.06	7.03	8.67	8.67	8.67
Propene	42.1	3	6.50	2.17	3.74	6.50	2.17	3.74	3.74	3.74
Propane	44.1	3	17.67	5.89	10.65	17.67	5.89	10.65	10.65	10.65
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	7.63	1.91	4.54	7.63	1.91	4.54	4.54	4.54
t-2-Butene	56.1	4	2.60	0.65	1.50	ND	ND	ND	0	
c-2-Butene	56.1	4	9.42	2.36	5.42	9.42	2.36	5.42	5.42	5.42
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	65.60	13.12	38.82	65.60	13.12	38.82	38.82	38.82
1-Pentene	70.1	5	2.81	0.56	1.62	2.81	0.56	1.62	1.62	1.62
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	3.82	0.76	2.26	3.82	0.76	2.26	2.26	2.26
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	7.76	1.29	4.57	7.76	1.29	4.57	4.57	4.57
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	7.28	1.46	4.18	7.28	1.46	4.18	4.18	4.18
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	2.58	0.43	1.52	ND	ND	ND	0	
3-Methylpentane	86.2	6	1.88	0.31	1.11	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	15.88	2.65	8.47	15.88	2.65	8.47	8.47	8.47
Cyclohexane	84.2	6	8.14	1.36	4.68	8.14	1.36	4.68	4.68	4.68
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	4.21	0.60	2.47	4.21	0.60	2.47	2.47	2.47
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	17.66	2.21	10.33	17.66	2.21	10.33	10.33	10.33
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	5.03	0.72	2.89	5.03	0.72	2.89	2.89	2.89
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	10.91	1.36	6.38	10.91	1.36	6.38	6.38	6.38
Toluene	92.1	7	16.67	2.38	8.99	16.67	2.38	8.99	8.99	8.99
2,3-Dimethylhexane	114.2	8	2.32	0.29	1.36	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	1.68	0.21	0.92	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	2.79	0.35	1.52	2.79	0.35	1.52	1.52	1.52
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	5.36	0.60	3.13	5.36	0.60	3.13	3.13	3.13
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	953.30	158.9	561.3	953.30	158.88	561.30	561.30	561.30
Total Non-Methane Hydrocarbons	16	1.0	953.30	953.3	625.1	953.30	953.30	625.11	625.11	625.11
Total Volatile Organic Compounds	100	7.6	0.00	0.0	0.0	ND	ND	ND	0	
TPH (gasoline)	95	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (diesel)	198	15.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (toluene)	92.14	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (methane)	16	1.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Jet A Fuel)	177	13.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Mineral Spirits)	117.81	8.0	0.00	0.0	0.0	ND	ND	ND	0	
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			239.4	52.9						
Paraffins			48.5							
Isoparaffins			112.9							
Aromatics			37.0							
Napthlenes			20.5							
Olefins			25.8							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	18.51	9.25	11.42	18.51	9.25	11.42	11.42	11.42
C3 (propane)	44.1	3	24.17	8.06	14.56	24.17	8.06	14.56	14.56	14.56
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			42.7							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	3.8	0.64	1.88					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	5.4	0.60	3.13					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	7.8	1.29	4.57					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	169.6	70.9
Alkenes	25.8	10.8
Alkynes	0.0	0.0
Cycloalkanes	12.3	5.1
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	37.0	15.5
Terpenes	0.0	0.0

SDG: **225100**
Laboratory Number: **25**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
4.2	2.000	1.00	1.31	1.50	2.61	3.92	4.51	7.8	J	=		Y
0.0	2.000	1.00	1.31	1.39	2.61	3.92	4.18	7.8	U	ND		Y
13.3	2.000	1.00	1.31	1.61	2.61	3.92	4.83	7.8		=		Y
4.1	2.000	0.67	0.87	1.50	2.61	2.61	4.51	7.8	J	=		Y
11.1	2.000	0.67	0.87	1.57	2.61	2.61	4.72	7.8		=		Y
0.0	2.000	0.50	0.65	1.56	2.61	1.96	4.67	7.8	U	ND		Y
0.0	2.000	2.00	2.61	3.43	2.61	7.84	10.28	7.8	U	ND		Y
0.0	2.000	0.50	0.65	1.50	2.61	1.96	4.51	7.8	U	ND		Y
0.0	2.000	0.50	0.65	1.45	2.61	1.96	4.34	7.8	U	ND		Y
3.6	2.000	0.50	0.65	1.56	2.61	1.96	4.67	7.8	J	=		Y
1.2	2.000	0.50	0.65	1.50	2.61	1.96	4.51	7.8	U	ND		Y
4.5	2.000	0.50	0.65	1.50	2.61	1.96	4.51	7.8		=		Y
0.0	2.000	1.00	1.31	2.47	2.61	3.92	7.40	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.50	2.61	1.57	4.50	7.8	U	ND		Y
0.0	2.000	0.67	0.87	2.07	2.61	2.61	6.22	7.8	U	ND		Y
24.8	2.000	0.40	0.52	1.55	2.61	1.57	4.64	7.8		=		Y
1.1	2.000	0.40	0.52	1.50	2.61	1.57	4.50	7.8	J	=		Y
0.0	2.000	0.67	0.87	2.15	2.61	2.61	6.44	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.50	2.61	1.57	4.50	7.8	U	ND		Y
1.4	2.000	0.40	0.52	1.54	2.61	1.57	4.63	7.8	J	=		Y
0.0	2.000	0.40	0.52	1.46	2.61	1.57	4.38	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.50	2.61	1.57	4.50	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.50	2.61	1.57	4.50	7.8	U	ND		Y
0.0	2.000	0.50	0.65	1.98	2.61	1.96	5.95	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.50	2.61	1.57	4.50	7.8	U	ND		Y
2.4	2.000	0.33	0.44	1.54	2.61	1.31	4.62	7.8	J	=		Y
0.0	2.000	0.40	0.52	1.46	2.61	1.57	4.38	7.8	U	ND		Y
0.0	2.000	0.67	0.87	2.15	2.61	2.61	6.44	7.8	U	ND		Y
2.8	2.000	0.40	0.52	1.50	2.61	1.57	4.50	7.8	J	=		Y
0.0	2.000	0.40	0.52	1.89	2.61	1.57	5.67	7.8	U	ND		Y
0.0	2.000	0.33	0.44	1.54	2.61	1.31	4.62	7.8	U	ND		Y
0.8	2.000	0.33	0.44	1.54	2.61	1.31	4.62	7.8	U	ND		Y
0.6	2.000	0.33	0.44	1.54	2.61	1.31	4.62	7.8	U	ND		Y
0.0	2.000	0.33	0.44	1.50	2.61	1.31	4.51	7.8	U	ND		Y
0.0	2.000	0.33	0.44	1.54	2.61	1.31	4.62	7.8	U	ND		Y
0.0	2.000	0.33	0.44	1.82	2.61	1.31	5.47	7.8	U	ND		Y

0.0	2.000	0.33	0.44	1.47	2.61	1.31	4.40	7.8	U	ND	Y
0.0	2.000	0.33	0.44	1.82	2.61	1.31	5.47	7.8	U	ND	Y
0.0	2.000	0.33	0.44	1.50	2.61	1.31	4.51	7.8	U	ND	Y
0.0	2.000	0.29	0.37	1.53	2.61	1.12	4.60	7.8	U	ND	Y
5.0	2.000	0.33	0.44	1.39	2.61	1.31	4.18	7.8		=	Y
2.6	2.000	0.33	0.44	1.50	2.61	1.31	4.51	7.8		=	Y
0.0	2.000	0.29	0.37	1.53	2.61	1.12	4.60	7.8	U	ND	Y
1.1	2.000	0.29	0.37	1.53	2.61	1.12	4.60	7.8	J	=	Y
0.0	2.000	0.29	0.37	1.53	2.61	1.12	4.60	7.8	U	ND	Y
0.0	2.000	0.29	0.37	1.50	2.61	1.12	4.51	7.8	U	ND	Y
0.0	2.000	0.33	0.44	1.82	2.61	1.31	5.47	7.8	U	ND	Y
4.2	2.000	0.25	0.33	1.53	2.61	0.98	4.59	7.8		=	Y
0.0	2.000	0.29	0.37	1.53	2.61	1.12	4.60	7.8	U	ND	Y
1.4	2.000	0.29	0.37	1.50	2.61	1.12	4.51	7.8	J	=	Y
0.0	2.000	0.25	0.33	1.53	2.61	0.98	4.59	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.53	2.61	0.98	4.59	7.8	U	ND	Y
2.6	2.000	0.25	0.33	1.53	2.61	0.98	4.59	7.8		=	Y
4.5	2.000	0.29	0.37	1.41	2.61	1.12	4.23	7.8		=	Y
0.5	2.000	0.25	0.33	1.53	2.61	0.98	4.59	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.53	2.61	0.98	4.59	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.53	2.61	0.98	4.59	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.53	2.61	0.98	4.59	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.53	2.61	0.98	4.59	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.50	2.61	0.98	4.51	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.53	2.61	0.98	4.59	7.8	U	ND	Y
0.4	2.000	0.25	0.33	1.42	2.61	0.98	4.26	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.42	2.61	0.98	4.26	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.39	2.61	0.98	4.18	7.8	U	ND	Y
0.7	2.000	0.25	0.33	1.42	2.61	0.98	4.26	7.8	J	=	Y
0.0	2.000	0.22	0.29	1.50	2.61	0.87	4.50	7.8	U	ND	Y
1.1	2.000	0.22	0.29	1.53	2.61	0.87	4.58	7.8	J	=	Y
0.0	2.000	0.22	0.29	1.43	2.61	0.87	4.29	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.43	2.61	0.87	4.29	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.46	2.61	0.78	4.38	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.43	2.61	0.87	4.29	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.43	2.61	0.87	4.29	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.43	2.61	0.87	4.29	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.43	2.61	0.87	4.29	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.46	2.61	0.78	4.38	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.43	2.61	0.87	4.29	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.52	2.61	0.78	4.57	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.43	2.61	0.87	4.29	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.61	0.87	4.22	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.46	2.61	0.78	4.38	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.61	0.78	4.31	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.61	0.78	4.31	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.61	0.78	4.31	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.61	0.78	4.31	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.61	0.78	4.31	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.61	0.78	4.31	7.8	U	ND	Y
0.0	2.000	0.18	0.24	1.52	2.61	0.71	4.56	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.61	0.78	4.31	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.61	0.78	4.31	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.37	2.61	0.78	4.12	7.8	U	ND	Y

0.0	2.000	0.17	0.22	1.52	2.61	0.65	4.56	7.8	U	ND	Y
%											Y
100.0	45.00	7.5	9.80	34.61	58.79	29.4	103.8	176.4		=	Y
100.0	45.00	45.0	58.79	38.55	58.79	176.4	115.6	176.4		=	Y
0.0	45.00	5.9	7.74	31.70	58.79	23.2	95.1	176.4	U	ND	Y
0.0	45.00	6.4	8.40	32.70	58.79	25.2	98.1	176.4	U	ND	Y
0.0	45.00	3.0	3.92	31.80	58.79	11.8	95.4	176.4	U	ND	Y
0.0	45.00	7.5	9.80	34.61	58.79	29.4	103.8	176.4	U	ND	Y
0.0	45.00	6.4	8.40	31.71	58.79	25.2	95.1	176.4	U	ND	Y
0.0	45.00	45.0	58.79	38.55	58.79	176.4	115.6	176.4	U	ND	Y
0.0	45.00	3.5	4.52	32.80	58.79	13.6	98.4	176.4	U	ND	Y
0.0	45.00	5.6	7.35	35.48	58.79	22.0	106.4	176.4	U	ND	Y
0.0	45.00	7.5	9.80	34.61	58.79	29.4	103.8	176.4	U	ND	Y
0.0	25.000	3.6	4.67	18.17	32.66	14.0	54.5	98.0	U	ND	Y
%											Y
25.1											Y
20.3											Y
47.2											Y
15.5											Y
8.5											Y
10.8											Y
0.0											Y
%											Y
43.4	5.000	2.5	3.27	4.03	6.53	9.8	12.1	19.6	J	=	Y
56.6	5.000	1.7	2.18	3.94	6.53	6.5	11.8	19.6		=	Y
0.0	25.000	6.3	8.16	19.45	32.66	24.5	58.3	98.0	U	ND	Y
0.0	25.000	5.0	6.53	19.31	32.66	19.6	57.9	98.0	U	ND	Y
0.0	25.000	4.2	5.44	19.23	32.66	16.3	57.7	98.0	U	ND	Y
0.0	25.000	3.6	4.67	19.16	32.66	14.0	57.5	98.0	U	ND	Y
0.0	25.000	3.1	4.08	19.11	32.66	12.2	57.3	98.0	U	ND	Y
0.0	25.000	2.8	3.63	19.07	32.66	10.9	57.2	98.0	U	ND	Y
0.0	25.000	2.5	3.27	19.05	32.66	9.8	57.1	98.0	U	ND	Y
0.0	25.000	2.3	2.97	19.02	32.66	8.9	57.1	98.0	U	ND	Y
0.0	25.000	2.1	2.72	19.00	32.66	8.2	57.0	98.0	U	ND	Y
0.0	25.000	2.1	2.72	19.00	32.66	8.2	57.0	98.0	U	ND	Y
100.0											Y
											Y
0.4	6.0	1.0	1.31	3.86	7.84	3.9	11.6	23.5			Y
0.0	6.0	0.9	1.12	4.60	7.84	3.4	13.8	23.5			Y
0.6	6.0	0.7	0.87	4.58	7.84	2.6	13.7	23.5			Y
0.0	6.0	0.5	0.71	4.17	7.84	2.1	12.5	23.5			Y
0.0	6.0	0.7	0.87	4.08	7.84	2.6	12.2	23.5			Y
0.0	6.0	0.5	0.71	4.16	7.84	2.1	12.5	23.5			Y
2.4	2.0	0.3	0.44	1.54	2.61	1.3	4.6	7.8	J	=	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					4.4		4.45		
					0.0			0.00	
14.1						14.06			
					6.5		6.50		
17.7						17.67			
	0.0					0.00			
					0.0				
					0.0		0.00		
					0.0		0.00		
7.6						7.63			
					2.6		2.60		
					9.4		9.42		
					0.0				
					0.0		0.00		
					0.0				
	65.6					65.60			
					2.8		2.81		
					0.0				
					0.0		0.00		
3.8						3.82			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
	7.8					7.76			
			0.0						0.00
					0.0				
			7.3						7.28
					0.0				
	0.0					0.00			
	2.6					2.58			
	1.9					1.88			
					0.0		0.00		
0.0						0.00			
					0.0				

0.0
0.0
0.0
0.0
0.00
0.00
15.9
8.1
8.14
0.0
0.00
4.2
4.21
0.0
0.00
0.0
0.00
0.0
17.7
17.66
0.0
0.00
5.0
5.03
0.0
0.00
0.0
0.00
10.9
10.91
16.7
2.3
2.32
0.0
0.00
0.0
0.00
0.0
0.00
0.0
0.00
0.0
0.00
0.0
0.00
1.7
0.0
0.0
2.8
0.0
0.00
5.4
5.36
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.00
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.00
0.0
0.0
0.0

0.0						0.00			
48.5	112.9	37.0	20.5	25.8	0.0	169.6	25.8	0.0	12.3

3.82	12.22		
0.00	35.10		
5.36	0.00		
0.00	0.00		
		5.36	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
		0.00			
	0.00				
	0.00				
	0.00				
			0.00		
			0.00		

0.00

0.00

15.88

0.00

16.67

1.68
0.00
0.00
2.79

0.00
0.00
0.00

0.0	0.0	0.0	0.0	37.0	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**25**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.31	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum $\left|\frac{\text{(Astdni)}}{\text{(Cstdni)}}\right|_i$

2) ppbC = $\frac{\text{6 Carbons} \quad \text{Ansamp} \quad \text{CDF} \quad 1000}{\text{(Avg RFn)} \quad \text{SV}}$ = Cn

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = (amt(ppbv) $\frac{\text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	Cn ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.23E+04	2671	4.4	2.22	2.56
Acetylene	2	TRG	26.0	2.23E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.23E+04	8444	14.1	7.03	8.67
Propene	3	TRG	4.5	2.23E+04	4	6.5	2.17	3.74
Propane	3	TRG	44.1	2.23E+04	10612	17.7	5.89	10.65
i-Butane	4	TRG	58.1	2.23E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.23E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.23E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.23E+04	4583	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.23E+04	1564	7.6	1.91	4.54
c-2-Butene	4	TRG	56.1	2.23E+04	5658	2.6	0.65	1.50
Ethanol	4	TRG	56.1	2.23E+04	0	9.4	2.36	5.42
i-Pentane	5	TRG	70.1	2.23E+04	39393	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.23E+04	1690	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.23E+04	0	65.6	13.12	38.82
n-Pentane	5	TRG	70.1	2.23E+04	2296	2.8	0.56	1.62
Isoprene	3	TRG	60.1	2.23E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.23E+04	0	3.8	0.76	2.26
2,2-Dimethylbutane	5	TRG	68.1	2.23E+04	4660	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.23E+04	4370	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.23E+04	1549	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.23E+04	1128	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.23E+04	0	7.8	1.29	4.57
Methylcyclopentane	5	TRG	68.1	2.23E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.23E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.23E+04	9535	7.3	1.46	4.18
Cyclohexane	5	TRG	88.2	2.23E+04	4891	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.23E+04	2530	2.6	0.43	1.52
3-Methylhexane	6	TRG	86.2	2.23E+04	0	1.9	0.31	1.11
2,2,4-Trimethylpentane	6	TRG	84.2	2.23E+04	10602	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.23E+04	3021	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.23E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.23E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.23E+04	6552	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.23E+04	10010	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.23E+04	1393	15.9	2.65	8.47	
2-Methylheptane	6	TRG	84.2	2.23E+04	0	8.1	1.36	4.68	
3-Methylheptane	7	TRG	100.2	2.23E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.23E+04	0	4.2	0.60	2.47	
Ethylbenzene	7	TRG	100.2	2.23E+04	1011	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.23E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.23E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.23E+04	1675	17.7	2.21	10.33	
n-Nonane	7	TRG	100.2	2.23E+04	3217	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.23E+04	0	5.0	0.72	2.89	
n-propylbenzene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.23E+04	0	10.9	1.36	6.38	
4-Ethyltoluene	7	TRG	92.1	2.23E+04	0	16.7	2.38	8.99	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.23E+04	0	2.3	0.29	1.36	
2-Ethyltoluene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.23E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.23E+04	0	1.7	0.21	0.92	
1,4-Diethylbenzene	8	TRG	106.2	2.23E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.23E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.23E+04	0	2.8	0.35	1.52	
Dodecane	9	TRG	126.2	2.23E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.23E+04	572450	953.3	158.88	561.30	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.23E+04	572450	953.3	953.30	625.11	
Total Volatile Organic Compoun	8	TRG	100.0	2.23E+04	0	0.0	0.00	0.00	
TPH (gasoline)	7	TRG	95.0	2.23E+04	0	0.0	0.00	0.00	
TPH (diesel)	15	TRG	198.0	2.23E+04	0	0.0	0.00	0.00	
TPH (hexane)	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00	
TPH (toluene)	7	TRG	92.1	2.23E+04	0	0.0	0.00	0.00	
TPH (methane)	1	TRG	16.0	2.23E+04	0	0.0	0.00	0.00	
TPH (Jet A Fuel)	13	TRG	177.0	2.23E+04	0	0.0	0.00	0.00	
TPH (Mineral Spirits)	8	TRG	117.8	2.23E+04	0	0.0	0.00	0.00	
C6+ (hexane)	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.23E+04		239.4			Sum ID
Paraffins	P	TRG	0.0	2.23E+04		48.5			Sum P
Isoparaffins	I	TRG	0.0	2.23E+04		112.9			Sum I
Aromatics	A	TRG	0.0	2.23E+04		37.0			Sum A
Napthlenes	N	TRG	0.0	2.23E+04		20.5			Sum N
Olefins	O	TRG	0.0	2.23E+04		25.8			Sum O
Oxygenates		TRG	0.0	2.23E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.23E+04	11115	18.5	9.25	11.42	
C3 (propane)	3	TRG	44.1	2.23E+04	14515	24.2	8.06	14.56	
C4 (Butane)	4	TRG	58.1	2.23E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.23E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.23E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.23E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.23E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.23E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.23E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.23E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.23E+04	25630	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 26

File Name: 2510026A
Description: T-208
Canister: 791
QC_Batch: 040125-GCK

Date Sampled: 03/20/25 **Time:** 10:08
Date Analyzed: 04/01/25 **Time:** 11:24
Can Factor: 1.26
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.26	3.77	1.54	1.45	4.34	1.77	J
74-86-2	Acetylene	1.26	3.77	ND	1.34	4.01	ND	ND
74-84-0	Ethane	1.26	3.77	5.78	1.55	4.65	7.14	
115-07-1	Propene	0.84	2.51	1.91	1.44	4.33	3.30	J
74-98-6	Propane	0.84	2.51	4.34	1.51	4.54	7.85	
75-28-5	i-Butane	0.63	1.88	ND	1.49	4.48	ND	ND
106-98-9	1-Butene	0.63	1.88	ND	1.44	4.33	ND	ND
106-97-8	n-Butane	0.63	1.88	2.31	1.49	4.48	5.49	
624-64-6	t-2-Butene	0.63	1.88	0.86	1.44	4.33	1.98	J
590-18-1	c-2-Butene	0.63	1.88	ND	1.44	4.33	ND	ND
78-78-4	i-Pentane	0.50	1.51	42.30	1.49	4.46	125.18	
109-67-1	1-Pentene	0.50	1.51	0.76	1.44	4.33	2.19	J
109-66-0	n-Pentane	0.50	1.51	0.72	1.48	4.45	2.13	J
646-04-8	t-2-Pentene	0.50	1.51	ND	1.44	4.33	ND	ND
627-20-3	c-2-Pentene	0.50	1.51	ND	1.44	4.33	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.26	3.01	1.48	4.43	10.62	
142-29-0	Cyclopentene	0.50	1.51	ND	1.40	4.20	ND	ND
287-92-3	Cyclopentane	0.50	1.51	7.43	1.44	4.33	21.34	
79-29-8	2,3-Dimethylbutane	0.42	1.26	ND	1.48	4.43	ND	ND
107-83-5	2-Methylpentane	0.42	1.26	1.52	1.48	4.43	5.38	
96-14-0	3-Methylpentane	0.42	1.26	1.24	1.48	4.43	4.39	J
592-41-6	1-Hexene	0.42	1.26	ND	1.44	4.33	ND	ND
110-54-3	n-Hexane	0.42	1.26	ND	1.48	4.43	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.26	ND	1.41	4.22	ND	ND
96-37-7	Methylcyclopentane	0.42	1.26	ND	1.44	4.33	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.08	ND	1.47	4.42	ND	ND
71-43-2	Benzene	0.42	1.26	0.74	1.34	4.02	2.37	J
110-82-7	Cyclohexane	0.42	1.26	ND	1.44	4.33	ND	ND
591-76-4	2-Methylhexane	0.36	1.08	ND	1.47	4.42	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.08	3.25	1.47	4.42	13.33	
589-34-4	3-Methylhexane	0.36	1.08	1.02	1.47	4.42	4.18	J
540-84-1	2,2,4-Trimethylpentane	0.31	0.94	ND	1.47	4.41	ND	ND
142-82-5	n-Heptane	0.36	1.08	ND	1.47	4.42	ND	ND
108-87-2	Methylcyclohexane	0.36	1.08	1.71	1.44	4.33	6.89	
592-13-2	2,5-Dimethylhexane	0.31	0.94	ND	1.47	4.41	ND	ND
589-43-5	2,4-Dimethylhexane	0.31	0.94	0.97	1.47	4.41	4.55	
565-75-3	2,3,4-Trimethylpentane	0.31	0.94	ND	1.47	4.41	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.08	0.53	1.35	4.06	2.00	J
584-94-1	2,3-Dimethylhexane	0.31	0.94	ND	1.47	4.41	ND	ND
592-27-8	2-Methylheptane	0.31	0.94	ND	1.47	4.41	ND	ND
589-53-7	4-Methylheptane	0.31	0.94	ND	1.47	4.41	ND	ND
589-81-1	3-Methylheptane	0.31	0.94	ND	1.47	4.41	ND	ND
111-65-9	n-Octane	0.31	0.94	ND	1.47	4.41	ND	ND
100-41-4	Ethylbenzene	0.31	0.94	ND	1.37	4.10	ND	ND
108-38-3	m,p-xylene	0.31	0.94	ND	1.37	4.10	ND	ND
100-42-5	Styrene	0.31	0.94	ND	1.34	4.02	ND	ND
95-47-6	o-xylene	0.31	0.94	ND	1.37	4.10	ND	ND
111-84-2	n-Nonane	0.28	0.84	ND	1.47	4.40	ND	ND
98-82-8	i-Propylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
103-65-1	n-propylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.84	ND	1.37	4.12	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.84	ND	1.37	4.12	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.84	ND	1.37	4.12	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
124-18-5	n-Decane	0.25	0.75	ND	1.46	4.39	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.75	ND	1.38	4.14	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.75	ND	1.38	4.14	ND	ND
104-51-8	n-Butylbenzene	0.25	0.75	ND	1.38	4.14	ND	ND
1120-21-4	Undecane	0.23	0.68	ND	1.46	4.39	ND	ND
91-20-3	Naphthalene	0.25	0.75	ND	1.32	3.96	ND	ND
112-40-3	Dodecane	0.21	0.63	ND	1.46	4.38	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.41	28.24	136.07	33.26	99.78	480.70	
TNMHC - C1	Total Non-Methane Hydrocarbons	56.49	169.46	816.41	37.04	111.12	535.35	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **26**
File Name: **2510026A**
Sample ID: **T-208**
Sampled: **3/20/2025**
Received: **03/21/25**
Analyzed: **04/01/25**
QCBatch: **040125-GCK**
Can: **791**
Can Factor: **1.26**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **10:08** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **11:24** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **390567**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C5 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.04	**4.03**	1919	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.08			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.15**	7230	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.13**	3583	I	I	H	291	290
74-98-6	Propane	P	5.20	**5.20**	**5.23**	8140	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.63**						133	351
67-56-1	Methanol		8.30	8.33						133	401
106-98-9	1-Butene	P	7.29	7.32	**7.26**	1316	I	I	H	365	367
106-99-0	1,3-Butadiene		**7.48**	7.51						133	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.36**	5766	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.77	**8.85**	2156	I	I	H	412	410
590-18-1	c-2-Butene	P	9.63	9.65						197	431
64-17-5	Ethanol		10.85	10.85						197	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.05						197	465
67-64-1	Acetone		11.52	11.52						197	476
78-78-4	i-Pentane	P	11.37	11.37	**11.39**	132187	I	I	H	473	473
109-67-1	1-Pentene	P	12.30	12.30	**12.33**	2383	I	I	H	496	495
67-63-0	Isopropanol		12.65	12.65						197	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.36						197	497
109-66-0	n-Pentane	P	12.48	**12.48**	**12.48**	2257	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.55						162	503
646-04-8	t-2-Pentene	P	12.79	12.79						162	510
627-20-3	c-2-Pentene	P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.55						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.62						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.77	**13.79**	11270	I	I	H	536	537
142-29-0	Cyclopentene	15	**14.61**	14.61						162	551
71-23-8	n-Propanol		**14.75**	14.75						162	558
287-92-3	Cyclopentane	P	14.88	14.88	**14.92**	23204	I	I	H	566	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.06						162	570
107-83-5	2-Methylpentane	P	15.08	15.08	**15.08**	5705	I	I	H	570	571
96-14-0	3-Methylpentane	P	15.55	15.55	**15.57**	4661	I	I	H	584	583
592-41-6	1-Hexene	P	**15.80**	15.80						162	590
110-54-3	n-Hexane	P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86	**16.87**	1197	I	I	H	621	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05	**16.99**	1408	I	I	H	625	626
71-43-2	Benzene		P	17.87	**17.87**	**17.89**	2775	I	I	H	653	651
110-82-7	Cyclohexane		P	18.14	18.16						104	658
591-76-4	2-Methylhexane		P	18.38	18.40						104	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.47	**18.46**	14198	I	I	H	670	671
589-34-4	3-Methylhexane		P	18.66	18.68	**18.68**	4451	I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.77						104	687
994-05-8	Tert amyl methyl ether			**18.80**	18.82						104	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.11						104	690
142-82-5	n-Heptane		P	19.41	19.43	**19.43**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.11	**20.11**	7491	I	I	H	723	722
592-13-2	2,5-Dimethylhexane			20.35	20.37						32	734
589-43-5	2,4-Dimethylhexane			20.43	20.45	**20.46**	4860	I	I	H	735	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.95						32	753
108-88-3	Toluene		P	21.12	**21.14**	**21.21**	2318	I	O	M	761	758
584-94-1	2,3-Dimethylhexane			21.20	21.29						32	763
592-27-8	2-Methylheptane		P	21.33	21.42						32	768
589-53-7	4-Methylheptane	48		**21.48**	21.57						32	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.59						32	772
589-81-1	3-Methylheptane		p	21.55	21.64						32	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.19						32	786
111-65-9	n-Octane		P	22.27	22.36	**22.34**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.84						-87	855
108-38-3	m,p-xylene		P	23.95	24.04						-87	863
100-42-5	Styrene		P	24.40	24.49						-87	881
95-47-6	o-xylene		P	24.57	24.66						-87	886
124-11-8	1-Nonene	64		24.60	24.69						-87	889
111-84-2	n-Nonane		P	24.87	24.96	**24.86**		O	I	M	900	900
98-82-8	i-Propylbenzene		P	25.36	25.45						-140	919
103-65-1	n-propylbenzene		P	25.93	26.02						-140	947
80-56-8	a-Pinene			26.09	26.18						-140	950
620-14-4	3-Ethyltoluene		P	26.17	26.26						-140	957
622-96-8	4-Ethyltoluene		P	26.26	26.35						-140	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.54						-140	964
611-14-3	2-Ethyltoluene		P	26.61	26.70						-140	975
127-91-3	b-Pinene			26.80	26.89						-140	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.17						-140	991
124-18-5	n-Decane		P	27.26	27.35	**27.25**		O	I	M	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.64						-48	1014
496-11-7	Indan	81		27.55	27.64						-48	1020
5989-27-5	d-Limonene			27.65	27.74						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.19						-48	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.32						-48	1037
104-51-8	n-Butylbenzene			28.45	28.54						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.69						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.84						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.92						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.85**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.54						-35	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.59						-35	1124
91-20-3	Naphthalene		32.25	32.34						-35	1193
112-40-3	Dodecane	P	32.46	6.01	**32.48**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					2075855		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					510192		190139			
TNMHC - C1	Total Non-Methane Hydrocarbons					510192		132187			
TVOC	Total Volatile Organic Compounds					510192		94507			
TPH(g)	TPH (gasoline)					510192		150730			
TPH(d)	TPH (diesel)					510192		998100			
TPH(h)	TPH (hexane)					510192		0			
TPH(t)	TPH (toluene)					510192		0			
TPHC	TPH (methane)					510192		0			
TPH(Jet A)	TPH (Jet A Fuel)					510192		**1565663** Total Subtracted			
TPH (MS)	TPH (Mineral Spirits)					510192					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			9149		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			11723		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**20872**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040125-GCK		
Hexane Std Area:	390567		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.26	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.26		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	3.07	1.54	1.77	3.07	1.54	1.77	1.77	1.77
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	11.57	5.78	7.14	11.57	5.78	7.14	7.14	7.14
Propene	42.1	3	5.73	1.91	3.30	5.73	1.91	3.30	3.30	3.30
Propane	44.1	3	13.03	4.34	7.85	13.03	4.34	7.85	7.85	7.85
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	2.11	0.53	1.21	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	9.23	2.31	5.49	9.23	2.31	5.49	5.49	5.49
t-2-Butene	56.1	4	3.45	0.86	1.98	3.45	0.86	1.98	1.98	1.98
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	211.52	42.30	125.18	211.52	42.30	125.18	125.18	125.18
1-Pentene	70.1	5	3.81	0.76	2.19	3.81	0.76	2.19	2.19	2.19
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	3.61	0.72	2.13	3.61	0.72	2.13	2.13	2.13
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	18.03	3.01	10.62	18.03	3.01	10.62	10.62	10.62
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	37.13	7.43	21.34	37.13	7.43	21.34	21.34	21.34
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	9.13	1.52	5.38	9.13	1.52	5.38	5.38	5.38
3-Methylpentane	86.2	6	7.46	1.24	4.39	7.46	1.24	4.39	4.39	4.39
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	1.92	0.32	1.10	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	2.25	0.32	1.32	ND	ND	ND	0	
Benzene	78.1	6	4.44	0.74	2.37	4.44	0.74	2.37	2.37	2.37
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	22.72	3.25	13.33	22.72	3.25	13.33	13.33	13.33
3-Methylhexane	100.2	7	7.12	1.02	4.18	7.12	1.02	4.18	4.18	4.18
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	11.99	1.71	6.89	11.99	1.71	6.89	6.89	6.89
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	7.78	0.97	4.55	7.78	0.97	4.55	4.55	4.55
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	3.71	0.53	2.00	3.71	0.53	2.00	2.00	2.00
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	816.41	136.1	480.7	816.41	136.07	480.70	480.70	480.70
Total Non-Methane Hydrocarbons	16	1.0	816.41	816.4	535.3	816.41	816.41	535.35	535.35	535.35
Total Volatile Organic Compounds	100	7.6	816.41	107.4	440.3	816.41	107.42	440.25	440.25	440.25
TPH (gasoline)	95	7.0	816.41	116.6	454.1	816.41	116.63	454.09	454.09	454.09
TPH (diesel)	198	15.0	816.41	54.4	441.7	816.41	54.43	441.66	441.66	441.66
TPH (hexane)	86.2	6.0	816.41	136.1	480.7	816.41	136.07	480.70	480.70	480.70
TPH (toluene)	92.14	7.0	816.41	116.6	440.4	816.41	116.63	440.42	440.42	440.42
TPH (methane)	16	1.0	816.41	816.4	535.3	816.41	816.41	535.35	535.35	535.35
TPH (Jet A Fuel)	177	13.0	816.41	62.8	455.6	816.41	62.80	455.56	455.56	455.56
TPH (Mineral Spirits)	117.81	8.0	816.41	102.1	492.7	816.41	102.05	492.73	492.73	492.73
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			400.8	83.1						
Paraffins			37.4							
Isoparaffins			286.0							
Aromatics			8.1							
Napthlenes			51.0							
Olefins			18.2							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	14.64	7.32	9.03	14.64	7.32	9.03	9.03	9.03
C3 (propane)	44.1	3	18.76	6.25	11.30	18.76	6.25	11.30	11.30	11.30
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			33.4							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	3.6	0.60	1.78					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	18.0	3.01	10.62					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	323.5	80.7
Alkenes	18.2	4.5
Alkynes	0.0	0.0
Cycloalkanes	51.0	12.7
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	8.1	2.0
Terpenes	0.0	0.0

SDG: **225100**
Laboratory Number: **26**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
1.8	2.000	1.00	1.26	1.45	2.51	3.77	4.34	7.5	J	=		Y
0.0	2.000	1.00	1.26	1.34	2.51	3.77	4.01	7.5	U	ND		Y
7.0	2.000	1.00	1.26	1.55	2.51	3.77	4.65	7.5		=		Y
2.3	2.000	0.67	0.84	1.44	2.51	2.51	4.33	7.5	J	=		Y
5.2	2.000	0.67	0.84	1.51	2.51	2.51	4.54	7.5		=		Y
0.0	2.000	0.50	0.63	1.49	2.51	1.88	4.48	7.5	U	ND		Y
0.0	2.000	2.00	2.51	3.29	2.51	7.53	9.88	7.5	U	ND		Y
0.6	2.000	0.50	0.63	1.44	2.51	1.88	4.33	7.5	U	ND		Y
0.0	2.000	0.50	0.63	1.39	2.51	1.88	4.17	7.5	U	ND		Y
2.8	2.000	0.50	0.63	1.49	2.51	1.88	4.48	7.5		=		Y
1.0	2.000	0.50	0.63	1.44	2.51	1.88	4.33	7.5	J	=		Y
0.0	2.000	0.50	0.63	1.44	2.51	1.88	4.33	7.5	U	ND		Y
0.0	2.000	1.00	1.26	2.37	2.51	3.77	7.12	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.51	1.51	4.33	7.5	U	ND		Y
0.0	2.000	0.67	0.84	1.99	2.51	2.51	5.98	7.5	U	ND		Y
50.9	2.000	0.40	0.50	1.49	2.51	1.51	4.46	7.5		=		Y
0.9	2.000	0.40	0.50	1.44	2.51	1.51	4.33	7.5	J	=		Y
0.0	2.000	0.67	0.84	2.06	2.51	2.51	6.18	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.51	1.51	4.33	7.5	U	ND		Y
0.9	2.000	0.40	0.50	1.48	2.51	1.51	4.45	7.5	J	=		Y
0.0	2.000	0.40	0.50	1.40	2.51	1.51	4.20	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.51	1.51	4.33	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.51	1.51	4.33	7.5	U	ND		Y
0.0	2.000	0.50	0.63	1.91	2.51	1.88	5.72	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.51	1.51	4.33	7.5	U	ND		Y
3.6	2.000	0.33	0.42	1.48	2.51	1.26	4.43	7.5		=		Y
0.0	2.000	0.40	0.50	1.40	2.51	1.51	4.20	7.5	U	ND		Y
0.0	2.000	0.67	0.84	2.06	2.51	2.51	6.18	7.5	U	ND		Y
8.9	2.000	0.40	0.50	1.44	2.51	1.51	4.33	7.5		=		Y
0.0	2.000	0.40	0.50	1.82	2.51	1.51	5.45	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.48	2.51	1.26	4.43	7.5	U	ND		Y
1.8	2.000	0.33	0.42	1.48	2.51	1.26	4.43	7.5		=		Y
1.5	2.000	0.33	0.42	1.48	2.51	1.26	4.43	7.5	J	=		Y
0.0	2.000	0.33	0.42	1.44	2.51	1.26	4.33	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.48	2.51	1.26	4.43	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.75	2.51	1.26	5.26	7.5	U	ND		Y

0.0	2.000	0.33	0.42	1.41	2.51	1.26	4.22	7.5	U	ND	Y
0.0	2.000	0.33	0.42	1.75	2.51	1.26	5.26	7.5	U	ND	Y
0.4	2.000	0.33	0.42	1.44	2.51	1.26	4.33	7.5	U	ND	Y
0.4	2.000	0.29	0.36	1.47	2.51	1.08	4.42	7.5	U	ND	Y
0.9	2.000	0.33	0.42	1.34	2.51	1.26	4.02	7.5	J	=	Y
0.0	2.000	0.33	0.42	1.44	2.51	1.26	4.33	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.47	2.51	1.08	4.42	7.5	U	ND	Y
3.9	2.000	0.29	0.36	1.47	2.51	1.08	4.42	7.5		=	Y
1.2	2.000	0.29	0.36	1.47	2.51	1.08	4.42	7.5	J	=	Y
0.0	2.000	0.29	0.36	1.44	2.51	1.08	4.33	7.5	U	ND	Y
0.0	2.000	0.33	0.42	1.75	2.51	1.26	5.26	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.47	2.51	0.94	4.41	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.47	2.51	1.08	4.42	7.5	U	ND	Y
2.1	2.000	0.29	0.36	1.44	2.51	1.08	4.33	7.5		=	Y
0.0	2.000	0.25	0.31	1.47	2.51	0.94	4.41	7.5	U	ND	Y
1.2	2.000	0.25	0.31	1.47	2.51	0.94	4.41	7.5		=	Y
0.0	2.000	0.25	0.31	1.47	2.51	0.94	4.41	7.5	U	ND	Y
0.6	2.000	0.29	0.36	1.35	2.51	1.08	4.06	7.5	J	=	Y
0.0	2.000	0.25	0.31	1.47	2.51	0.94	4.41	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.47	2.51	0.94	4.41	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.47	2.51	0.94	4.41	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.47	2.51	0.94	4.41	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.47	2.51	0.94	4.41	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.51	0.94	4.33	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.47	2.51	0.94	4.41	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.37	2.51	0.94	4.10	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.37	2.51	0.94	4.10	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.34	2.51	0.94	4.02	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.37	2.51	0.94	4.10	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.44	2.51	0.84	4.33	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.47	2.51	0.84	4.40	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.51	0.84	4.12	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.51	0.84	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.51	0.75	4.20	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.51	0.84	4.12	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.51	0.84	4.12	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.51	0.84	4.12	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.51	0.84	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.51	0.75	4.20	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.51	0.84	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.46	2.51	0.75	4.39	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.51	0.84	4.12	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.35	2.51	0.84	4.05	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.51	0.75	4.20	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.51	0.75	4.14	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.51	0.75	4.14	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.51	0.75	4.14	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.51	0.75	4.14	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.51	0.75	4.14	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.51	0.75	4.14	7.5	U	ND	Y
0.0	2.000	0.18	0.23	1.46	2.51	0.68	4.39	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.51	0.75	4.14	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.51	0.75	4.14	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.32	2.51	0.75	3.96	7.5	U	ND	Y

0.0	2.000	0.17	0.21	1.46	2.51	0.63	4.38	7.5	U	ND	Y
%											Y
100.0	45.00	7.5	9.41	33.26	56.49	28.2	99.8	169.5		=	Y
100.0	45.00	45.0	56.49	37.04	56.49	169.5	111.1	169.5		=	Y
100.0	45.00	5.9	7.43	30.46	56.49	22.3	91.4	169.5		=	Y
100.0	45.00	6.4	8.07	31.42	56.49	24.2	94.3	169.5		=	Y
100.0	45.00	3.0	3.77	30.56	56.49	11.3	91.7	169.5		=	Y
100.0	45.00	7.5	9.41	33.26	56.49	28.2	99.8	169.5		=	Y
100.0	45.00	6.4	8.07	30.47	56.49	24.2	91.4	169.5		=	Y
100.0	45.00	45.0	56.49	37.04	56.49	169.5	111.1	169.5		=	Y
100.0	45.00	3.5	4.35	31.52	56.49	13.0	94.6	169.5		=	Y
100.0	45.00	5.6	7.06	34.09	56.49	21.2	102.3	169.5		=	Y
0.0	45.00	7.5	9.41	33.26	56.49	28.2	99.8	169.5	U	ND	Y
0.0	25.000	3.6	4.48	17.45	31.38	13.4	52.4	94.1	U	ND	Y
%											Y
49.1											Y
9.3											Y
71.4											Y
2.0											Y
12.7											Y
4.5											Y
0.0											Y
%											Y
43.8	5.000	2.5	3.14	3.87	6.28	9.4	11.6	18.8	J	=	Y
56.2	5.000	1.7	2.09	3.78	6.28	6.3	11.3	18.8	J	=	Y
0.0	25.000	6.3	7.85	18.69	31.38	23.5	56.1	94.1	U	ND	Y
0.0	25.000	5.0	6.28	18.56	31.38	18.8	55.7	94.1	U	ND	Y
0.0	25.000	4.2	5.23	18.48	31.38	15.7	55.4	94.1	U	ND	Y
0.0	25.000	3.6	4.48	18.41	31.38	13.4	55.2	94.1	U	ND	Y
0.0	25.000	3.1	3.92	18.36	31.38	11.8	55.1	94.1	U	ND	Y
0.0	25.000	2.8	3.49	18.33	31.38	10.5	55.0	94.1	U	ND	Y
0.0	25.000	2.5	3.14	18.30	31.38	9.4	54.9	94.1	U	ND	Y
0.0	25.000	2.3	2.85	18.28	31.38	8.6	54.8	94.1	U	ND	Y
0.0	25.000	2.1	2.62	18.25	31.38	7.8	54.8	94.1	U	ND	Y
0.0	25.000	2.1	2.62	18.25	31.38	7.8	54.8	94.1	U	ND	Y
100.0											Y
											Y
0.4	6.0	1.0	1.26	3.71	7.53	3.8	11.1	22.6			Y
0.0	6.0	0.9	1.08	4.42	7.53	3.2	13.3	22.6			Y
0.0	6.0	0.7	0.84	4.40	7.53	2.5	13.2	22.6			Y
0.0	6.0	0.5	0.68	4.01	7.53	2.1	12.0	22.6			Y
0.0	6.0	0.7	0.84	3.92	7.53	2.5	11.8	22.6			Y
0.0	6.0	0.5	0.68	3.99	7.53	2.1	12.0	22.6			Y
3.6	2.0	0.3	0.42	1.48	2.51	1.3	4.4	7.5		=	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					3.1		3.07		
					0.0			0.00	
11.6						11.57			
					5.7		5.73		
13.0						13.03			
		0.0				0.00			
					0.0				
					2.1		2.11		
					0.0		0.00		
9.2						9.23			
					3.5		3.45		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		211.5				211.52			
					3.8		3.81		
					0.0				
					0.0		0.00		
3.6						3.61			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		18.0				18.03			
			0.0						0.00
					0.0				
			37.1						37.13
					0.0				
		0.0				0.00			
		9.1				9.13			
		7.5				7.46			
					0.0		0.00		
0.0						0.00			
					0.0				

0.0
1.9
2.3
4.4
0.0
0.0
22.7
7.1
0.0
0.0
12.0
0.0
7.8
0.0
3.7
0.0
0.0
0.0

0.0						0.00			
37.4	286.0	8.1	51.0	18.2	0.0	323.5	18.2	0.0	51.0

3.61	34.62		
0.00	39.87		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
	0.00				
	0.00				
	0.00				
				0.00	
				0.00	

0.00

0.00

4.44

0.00

3.71

0.00
0.00
0.00
0.00

0.00
0.00

0.00

0.00
0.00
0.00
0.00

0.00

0.00

0.00
0.00

0.00

0.00
0.00
0.00
0.00
0.00
0.00

0.00
0.00
0.00

0.0	0.0	0.0	0.0	8.1	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**26**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.26	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum | (Astdni) / (Cstdni) | i

2) ppbC = 6 Carbons / (Avg RFn) × Ansamp × CDF × 1000 / SV = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.16E+04	1919	3.1	1.54	1.77
Acetylene	2	TRG	26.0	2.16E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.16E+04	7230	11.6	5.78	7.14
Propene	3	TRG	4.5	2.16E+04	4	5.7	1.91	3.30
Propane	3	TRG	44.1	2.16E+04	8140	13.0	4.34	7.85
i-Butane	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.16E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.16E+04	1316	2.1	0.53	1.21
n-Butane	4	TRG	54.1	2.16E+04	5766	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.16E+04	2156	9.2	2.31	5.49
c-2-Butene	4	TRG	56.1	2.16E+04	0	3.5	0.86	1.98
Ethanol	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.16E+04	132187	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.16E+04	2383	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.16E+04	0	211.5	42.30	125.18
n-Pentane	5	TRG	70.1	2.16E+04	2257	3.8	0.76	2.19
Isoprene	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.16E+04	0	3.6	0.72	2.13
2,2-Dimethylbutane	5	TRG	68.1	2.16E+04	11270	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.16E+04	23204	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.16E+04	5705	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.16E+04	4661	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.16E+04	0	18.0	3.01	10.62
Methylcyclopentane	5	TRG	68.1	2.16E+04	1197	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.16E+04	1408	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.16E+04	2775	37.1	7.43	21.34
Cyclohexane	5	TRG	88.2	2.16E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.16E+04	14198	9.1	1.52	5.38
3-Methylhexane	6	TRG	86.2	2.16E+04	4451	7.5	1.24	4.39
2,2,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.16E+04	7491	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.16E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.16E+04	4860	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	1.9	0.32	1.10	
Toluene	7	TRG	100.2	2.16E+04	2318	2.3	0.32	1.32	
2,3-Dimethylhexane	6	TRG	78.1	2.16E+04	0	4.4	0.74	2.37	
2-Methylheptane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.16E+04	0	22.7	3.25	13.33	
Ethylbenzene	7	TRG	100.2	2.16E+04	0	7.1	1.02	4.18	
m,p-xylene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.16E+04	0	12.0	1.71	6.89	
n-propylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.16E+04	0	7.8	0.97	4.55	
3-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.16E+04	0	3.7	0.53	2.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.16E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.16E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.16E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.16E+04	510192	816.4	136.07	480.70	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.16E+04	510192	816.4	816.41	535.35	
Total Volatile Organic Compoun	8	TRG	100.0	2.16E+04	510192	816.4	107.42	440.25	
TPH (gasoline)	7	TRG	95.0	2.16E+04	510192	816.4	116.63	454.09	
TPH (diesel)	15	TRG	198.0	2.16E+04	510192	816.4	54.43	441.66	
TPH (hexane)	6	TRG	86.2	2.16E+04	510192	816.4	136.07	480.70	
TPH (toluene)	7	TRG	92.1	2.16E+04	510192	816.4	116.63	440.42	
TPH (methane)	1	TRG	16.0	2.16E+04	510192	816.4	816.41	535.35	
TPH (Jet A Fuel)	13	TRG	177.0	2.16E+04	510192	816.4	62.80	455.56	
TPH (Mineral Spirits)	8	TRG	117.8	2.16E+04	510192	816.4	102.05	492.73	
C6+ (hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.16E+04		400.8			Sum ID
Paraffins	P	TRG	0.0	2.16E+04		37.4			Sum P
Isoparaffins	I	TRG	0.0	2.16E+04		286.0			Sum I
Aromatics	A	TRG	0.0	2.16E+04		8.1			Sum A
Napthlenes	N	TRG	0.0	2.16E+04		51.0			Sum N
Olefins	O	TRG	0.0	2.16E+04		18.2			Sum O
Oxygenates		TRG	0.0	2.16E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.16E+04	9149	14.6	7.32	9.03	
C3 (propane)	3	TRG	44.1	2.16E+04	11723	18.8	6.25	11.30	
C4 (Butane)	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.16E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.16E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.16E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.16E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.16E+04	20872	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 27

File Name: 2510027A
Description: T-209
Canister: 778
QC_Batch: 040125-GCK

Date Sampled: 03/20/25 **Time:** 11:21
Date Analyzed: 04/01/25 **Time:** 12:16
Can Factor: 1.30
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.30	3.90	1.65	1.50	4.49	1.90	J
74-86-2	Acetylene	1.30	3.90	ND	1.39	4.16	ND	ND
74-84-0	Ethane	1.30	3.90	1.92	1.60	4.81	2.37	J
115-07-1	Propene	0.87	2.60	ND	1.50	4.49	ND	ND
74-98-6	Propane	0.87	2.60	ND	1.57	4.70	ND	ND
75-28-5	i-Butane	0.65	1.95	ND	1.55	4.65	ND	ND
106-98-9	1-Butene	0.65	1.95	1.72	1.50	4.49	3.96	J
106-97-8	n-Butane	0.65	1.95	ND	1.55	4.65	ND	ND
624-64-6	t-2-Butene	0.65	1.95	ND	1.50	4.49	ND	ND
590-18-1	c-2-Butene	0.65	1.95	ND	1.50	4.49	ND	ND
78-78-4	i-Pentane	0.52	1.56	ND	1.54	4.62	ND	ND
109-67-1	1-Pentene	0.52	1.56	ND	1.49	4.48	ND	ND
109-66-0	n-Pentane	0.52	1.56	ND	1.54	4.61	ND	ND
646-04-8	t-2-Pentene	0.52	1.56	ND	1.49	4.48	ND	ND
627-20-3	c-2-Pentene	0.52	1.56	ND	1.49	4.48	ND	ND
75-83-2	2,2-Dimethylbutane	0.43	1.30	ND	1.53	4.59	ND	ND
142-29-0	Cyclopentene	0.52	1.56	ND	1.45	4.36	ND	ND
287-92-3	Cyclopentane	0.52	1.56	ND	1.49	4.48	ND	ND
79-29-8	2,3-Dimethylbutane	0.43	1.30	ND	1.53	4.59	ND	ND
107-83-5	2-Methylpentane	0.43	1.30	ND	1.53	4.59	ND	ND
96-14-0	3-Methylpentane	0.43	1.30	ND	1.53	4.59	ND	ND
592-41-6	1-Hexene	0.43	1.30	ND	1.50	4.49	ND	ND
110-54-3	n-Hexane	0.43	1.30	ND	1.53	4.59	ND	ND
1120-62-3	3-Methylcyclopentene	0.43	1.30	ND	1.46	4.38	ND	ND
96-37-7	Methylcyclopentane	0.43	1.30	ND	1.50	4.49	ND	ND
108-08-7	2,4-Dimethylpentane	0.37	1.11	ND	1.53	4.58	ND	ND
71-43-2	Benzene	0.43	1.30	0.70	1.39	4.16	2.24	J
110-82-7	Cyclohexane	0.43	1.30	ND	1.50	4.49	ND	ND
591-76-4	2-Methylhexane	0.37	1.11	ND	1.53	4.58	ND	ND
565-59-3	2,3-Dimethylpentane	0.37	1.11	ND	1.53	4.58	ND	ND
589-34-4	3-Methylhexane	0.37	1.11	ND	1.53	4.58	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.33	0.98	ND	1.52	4.57	ND	ND
142-82-5	n-Heptane	0.37	1.11	ND	1.53	4.58	ND	ND
108-87-2	Methylcyclohexane	0.37	1.11	ND	1.50	4.49	ND	ND
592-13-2	2,5-Dimethylhexane	0.33	0.98	ND	1.52	4.57	ND	ND
589-43-5	2,4-Dimethylhexane	0.33	0.98	ND	1.52	4.57	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.33	0.98	ND	1.52	4.57	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.37	1.11	ND	1.40	4.21	ND	ND
584-94-1	2,3-Dimethylhexane	0.33	0.98	ND	1.52	4.57	ND	ND
592-27-8	2-Methylheptane	0.33	0.98	ND	1.52	4.57	ND	ND
589-53-7	4-Methylheptane	0.33	0.98	ND	1.52	4.57	ND	ND
589-81-1	3-Methylheptane	0.33	0.98	ND	1.52	4.57	ND	ND
111-65-9	n-Octane	0.33	0.98	ND	1.52	4.57	ND	ND
100-41-4	Ethylbenzene	0.33	0.98	ND	1.42	4.25	ND	ND
108-38-3	m,p-xylene	0.33	0.98	ND	1.42	4.25	ND	ND
100-42-5	Styrene	0.33	0.98	ND	1.39	4.17	ND	ND
95-47-6	o-xylene	0.33	0.98	ND	1.42	4.25	ND	ND
111-84-2	n-Nonane	0.29	0.87	ND	1.52	4.56	ND	ND
98-82-8	i-Propylbenzene	0.29	0.87	ND	1.42	4.27	ND	ND
103-65-1	n-propylbenzene	0.29	0.87	ND	1.42	4.27	ND	ND
620-14-4	3-Ethyltoluene	0.29	0.87	ND	1.42	4.27	ND	ND
622-96-8	4-Ethyltoluene	0.29	0.87	ND	1.42	4.27	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.29	0.87	ND	1.42	4.27	ND	ND
611-14-3	2-Ethyltoluene	0.29	0.87	ND	1.42	4.27	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	0.87	ND	1.42	4.27	ND	ND
124-18-5	n-Decane	0.26	0.78	ND	1.52	4.55	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.29	0.87	ND	1.42	4.27	ND	ND
141-93-5	1,3-Diethylbenzene	0.26	0.78	ND	1.43	4.29	ND	ND
105-05-5	1,4-Diethylbenzene	0.26	0.78	ND	1.43	4.29	ND	ND
104-51-8	n-Butylbenzene	0.26	0.78	ND	1.43	4.29	ND	ND
1120-21-4	Undecane	0.24	0.71	ND	1.51	4.54	ND	ND
91-20-3	Naphthalene	0.26	0.78	ND	1.37	4.10	ND	ND
112-40-3	Dodecane	0.22	0.65	ND	1.51	4.54	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.75	29.26	ND	34.46	103.38	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	58.53	175.58	ND	38.38	115.13	ND	ND

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **27**
File Name: **2510027A**
Sample ID: **T-209**
Sampled: **3/20/2025**
Received: **03/21/25**
Analyzed: **04/01/25**
QCBatch: **040125-GCK**
Can: **778**
Can Factor: **1.30**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **11:21** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **12:16** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **390567**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.08	**4.08**	1991	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.12			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.19**	2317	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.13**		I	I	H	289	290
74-98-6	Propane	P	5.20	**5.20**	**5.25**	1162	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.65**						130	351
67-56-1	Methanol		8.30	8.35						130	401
106-98-9	1-Butene	P	7.29	7.34	**7.28**	4156	I	I	H	366	367
106-99-0	1,3-Butadiene		**7.48**	7.53						130	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75	**8.66**		I	I	H	408	410
590-18-1	c-2-Butene	P	9.63	9.63						199	431
64-17-5	Ethanol		10.85	10.85						199	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.05						199	465
67-64-1	Acetone		11.52	11.52						199	476
78-78-4	i-Pentane	P	11.37	11.37	**11.39**		I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.30						199	495
67-63-0	Isopropanol		12.65	12.65						199	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.36						199	497
109-66-0	n-Pentane	P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.55						162	503
646-04-8	t-2-Pentene	P	12.79	12.79						162	510
627-20-3	c-2-Pentene	P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.55						280	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.62						280	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.77	**13.79**		I	I	H	536	537
142-29-0	Cyclopentene	15	**14.61**	14.61						162	551
71-23-8	n-Propanol		**14.75**	14.75						162	558
287-92-3	Cyclopentane	P	14.88	14.88	**14.92**		I	I	H	566	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.06						162	570
107-83-5	2-Methylpentane	P	15.08	15.08	**15.08**		I	I	H	570	571
96-14-0	3-Methylpentane	P	15.55	15.55	**15.57**		I	I	H	584	583
592-41-6	1-Hexene	P	**15.80**	15.80						162	590
110-54-3	n-Hexane	P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						262	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86	**16.87**		I	I	H	621	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05	**16.99**		I	I	H	625	626
71-43-2	Benzene		P	17.87	**17.87**	**17.88**	2528	I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.15	**18.15**		I	I	H	661	658
591-76-4	2-Methylhexane		P	18.38	18.39						104	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.46	**18.46**		I	I	H	670	671
589-34-4	3-Methylhexane		P	18.66	18.67	**18.68**		I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.76						104	687
994-05-8	Tert amyl methyl ether			**18.80**	18.81						104	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.10	**19.10**		I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.42	**19.43**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.10	**20.11**		I	I	H	723	722
592-13-2	2,5-Dimethylhexane			20.35	20.36						32	734
589-43-5	2,4-Dimethylhexane			20.43	20.44	**20.46**		I	I	H	735	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.94	**20.95**		I	I	H	752	753
108-88-3	Toluene		P	21.12	**21.13**	**21.11**		I	I	H	758	758
584-94-1	2,3-Dimethylhexane			21.20	21.19	**21.22**		I	I	H	762	763
592-27-8	2-Methylheptane		P	21.33	21.32						32	768
589-53-7	4-Methylheptane	48		**21.48**	21.47						32	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.49						32	772
589-81-1	3-Methylheptane		p	21.55	21.54						32	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.09						32	786
111-65-9	n-Octane		P	22.27	22.26	**22.34**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.74						-87	855
108-38-3	m,p-xylene		P	23.95	23.94						-87	863
100-42-5	Styrene		P	24.40	24.39						-87	881
95-47-6	o-xylene		P	24.57	24.56						-87	886
124-11-8	1-Nonene	64		24.60	24.59						-87	889
111-84-2	n-Nonane		P	24.87	24.86	**24.86**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.35						-140	919
103-65-1	n-propylbenzene		P	25.93	25.92						-140	947
80-56-8	a-Pinene			26.09	26.08						-140	950
620-14-4	3-Ethyltoluene		P	26.17	26.16						-140	957
622-96-8	4-Ethyltoluene		P	26.26	26.25						-140	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.44						-140	964
611-14-3	2-Ethyltoluene		P	26.61	26.60						-140	975
127-91-3	b-Pinene			26.80	26.79						-140	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.07						-140	991
124-18-5	n-Decane		P	27.26	27.25	**27.25**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.54						-48	1014
496-11-7	Indan	81		27.55	27.54						-48	1020
5989-27-5	d-Limonene			27.65	27.64						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.09						-48	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.22						-48	1037
104-51-8	n-Butylbenzene			28.45	28.44						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.59						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.74						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.82						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.85**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.44						-35	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.49						-35	1124
91-20-3	Naphthalene		32.25	32.24						-35	1193
112-40-3	Dodecane	P	32.46	6.01	**32.48**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					95311		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					12966		21719			
TNMHC - C1	Total Non-Methane Hydrocarbons					12966		31112			
TVOC	Total Volatile Organic Compounds					12966		29514			
TPH(g)	TPH (gasoline)					12966		0			
TPH(d)	TPH (diesel)					12966		0			
TPH(h)	TPH (hexane)					12966		0			
TPH(t)	TPH (toluene)					12966		0			
TPHC	TPH (methane)					12966		0			
TPH(Jet A)	TPH (Jet A Fuel)					12966		**82345**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					12966					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			4308		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			1162		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**5470**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040125-GCK		
Hexane Std Area:	390567		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.30	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.30		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	3.30	1.65	1.90	3.30	1.65	1.90	1.90	1.90
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	3.84	1.92	2.37	3.84	1.92	2.37	2.37	2.37
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	1.93	0.64	1.16	ND	ND	ND	0	
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	6.89	1.72	3.96	6.89	1.72	3.96	3.96	3.96
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	4.19	0.70	2.24	4.19	0.70	2.24	2.24	2.24
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3
Total Non-Methane Hydrocarbons	86.2	6.0	21.50	3.6	12.7	ND	ND	ND	0
Total Non-Methane Hydrocarbons	16	1.0	21.50	21.5	14.1	ND	ND	ND	0
Total Volatile Organic Compounds	100	7.6	21.50	2.8	11.6	ND	ND	ND	0
TPH (gasoline)	95	7.0	21.50	3.1	12.0	ND	ND	ND	0
TPH (diesel)	198	15.0	21.50	1.4	11.6	ND	ND	ND	0
TPH (hexane)	86.2	6.0	21.50	3.6	12.7	ND	ND	ND	0
TPH (toluene)	92.14	7.0	21.50	3.1	11.6	ND	ND	ND	0
TPH (methane)	16	1.0	21.50	21.5	14.1	ND	ND	ND	0
TPH (Jet A Fuel)	177	13.0	21.50	1.7	12.0	ND	ND	ND	0
TPH (Mineral Spirits)	117.81	8.0	21.50	2.7	13.0	ND	ND	ND	0
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3
Total Identified			20.2	6.6					
Paraffins			5.8						
Isoparaffins			0.0						
Aromatics			4.2						
Napthlenes			0.0						
Olefins			10.2						
Oxygenates			0.0						
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	7.14	3.57	4.41	7.14	3.57	4.41	4.41	4.41
C3 (propane)	44.1	3	1.93	0.64	1.16	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			9.1						
Totals from Identified:									
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00				
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00				
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00				
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00				
Aromatic C8-C10	114.2	9	0.0	0.00	0.00				
Aromatic C10-12	142.3	11	0.0	0.00	0.00				
n-Hexane	86.18	6.0	0.0	0.00	0.00				
TNMHC - C6	86.2	6							
TNMHC - C1	16	1							
TVOC	86.2	6							
TPH(g)	95	7							
TPH(d)	198	15							
TPH(h)	86.2	6							
TPH(t)	92.14	7							
TPHC	16	1							
TPH(Jet A)	177	13							

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	5.8	28.6
Alkenes	10.2	50.6
Alkynes	0.0	0.0
Cycloalkanes	0.0	0.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	4.2	20.8
Terpenes	0.0	0.0

SDG: **225100**
Laboratory Number: **27**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
24.9	2.000	1.00	1.30	1.50	2.60	3.90	4.49	7.8	J	=		Y
0.0	2.000	1.00	1.30	1.39	2.60	3.90	4.16	7.8	U	ND		Y
28.9	2.000	1.00	1.30	1.60	2.60	3.90	4.81	7.8	J	=		Y
0.0	2.000	0.67	0.87	1.50	2.60	2.60	4.49	7.8	U	ND		Y
9.7	2.000	0.67	0.87	1.57	2.60	2.60	4.70	7.8	U	ND		Y
0.0	2.000	0.50	0.65	1.55	2.60	1.95	4.65	7.8	U	ND		Y
0.0	2.000	2.00	2.60	3.41	2.60	7.80	10.23	7.8	U	ND		Y
26.0	2.000	0.50	0.65	1.50	2.60	1.95	4.49	7.8	J	=		Y
0.0	2.000	0.50	0.65	1.44	2.60	1.95	4.33	7.8	U	ND		Y
0.0	2.000	0.50	0.65	1.55	2.60	1.95	4.65	7.8	U	ND		Y
0.0	2.000	0.50	0.65	1.50	2.60	1.95	4.49	7.8	U	ND		Y
0.0	2.000	0.50	0.65	1.50	2.60	1.95	4.49	7.8	U	ND		Y
0.0	2.000	1.00	1.30	2.46	2.60	3.90	7.37	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.49	2.60	1.56	4.48	7.8	U	ND		Y
0.0	2.000	0.67	0.87	2.06	2.60	2.60	6.19	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.54	2.60	1.56	4.62	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.49	2.60	1.56	4.48	7.8	U	ND		Y
0.0	2.000	0.67	0.87	2.14	2.60	2.60	6.41	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.49	2.60	1.56	4.48	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.54	2.60	1.56	4.61	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.45	2.60	1.56	4.36	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.49	2.60	1.56	4.48	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.49	2.60	1.56	4.48	7.8	U	ND		Y
0.0	2.000	0.50	0.65	1.97	2.60	1.95	5.92	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.49	2.60	1.56	4.48	7.8	U	ND		Y
0.0	2.000	0.33	0.43	1.53	2.60	1.30	4.59	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.45	2.60	1.56	4.36	7.8	U	ND		Y
0.0	2.000	0.67	0.87	2.14	2.60	2.60	6.41	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.49	2.60	1.56	4.48	7.8	U	ND		Y
0.0	2.000	0.40	0.52	1.88	2.60	1.56	5.64	7.8	U	ND		Y
0.0	2.000	0.33	0.43	1.53	2.60	1.30	4.59	7.8	U	ND		Y
0.0	2.000	0.33	0.43	1.53	2.60	1.30	4.59	7.8	U	ND		Y
0.0	2.000	0.33	0.43	1.53	2.60	1.30	4.59	7.8	U	ND		Y
0.0	2.000	0.33	0.43	1.50	2.60	1.30	4.49	7.8	U	ND		Y
0.0	2.000	0.33	0.43	1.53	2.60	1.30	4.59	7.8	U	ND		Y
0.0	2.000	0.33	0.43	1.82	2.60	1.30	5.45	7.8	U	ND		Y

0.0	2.000	0.33	0.43	1.46	2.60	1.30	4.38	7.8	U	ND	Y
0.0	2.000	0.33	0.43	1.82	2.60	1.30	5.45	7.8	U	ND	Y
0.0	2.000	0.33	0.43	1.50	2.60	1.30	4.49	7.8	U	ND	Y
0.0	2.000	0.29	0.37	1.53	2.60	1.11	4.58	7.8	U	ND	Y
10.5	2.000	0.33	0.43	1.39	2.60	1.30	4.16	7.8	J	=	Y
0.0	2.000	0.33	0.43	1.50	2.60	1.30	4.49	7.8	U	ND	Y
0.0	2.000	0.29	0.37	1.53	2.60	1.11	4.58	7.8	U	ND	Y
0.0	2.000	0.29	0.37	1.53	2.60	1.11	4.58	7.8	U	ND	Y
0.0	2.000	0.29	0.37	1.53	2.60	1.11	4.58	7.8	U	ND	Y
0.0	2.000	0.29	0.37	1.50	2.60	1.11	4.49	7.8	U	ND	Y
0.0	2.000	0.33	0.43	1.82	2.60	1.30	5.45	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.52	2.60	0.98	4.57	7.8	U	ND	Y
0.0	2.000	0.29	0.37	1.53	2.60	1.11	4.58	7.8	U	ND	Y
0.0	2.000	0.29	0.37	1.50	2.60	1.11	4.49	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.52	2.60	0.98	4.57	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.52	2.60	0.98	4.57	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.52	2.60	0.98	4.57	7.8	U	ND	Y
0.0	2.000	0.29	0.37	1.40	2.60	1.11	4.21	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.52	2.60	0.98	4.57	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.52	2.60	0.98	4.57	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.52	2.60	0.98	4.57	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.52	2.60	0.98	4.57	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.50	2.60	0.98	4.49	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.52	2.60	0.98	4.57	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.42	2.60	0.98	4.25	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.42	2.60	0.98	4.25	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.39	2.60	0.98	4.17	7.8	U	ND	Y
0.0	2.000	0.25	0.33	1.42	2.60	0.98	4.25	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.49	2.60	0.87	4.48	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.52	2.60	0.87	4.56	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.42	2.60	0.87	4.27	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.42	2.60	0.87	4.27	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.45	2.60	0.78	4.36	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.42	2.60	0.87	4.27	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.42	2.60	0.87	4.27	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.42	2.60	0.87	4.27	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.42	2.60	0.87	4.27	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.45	2.60	0.78	4.36	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.42	2.60	0.87	4.27	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.52	2.60	0.78	4.55	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.42	2.60	0.87	4.27	7.8	U	ND	Y
0.0	2.000	0.22	0.29	1.40	2.60	0.87	4.20	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.45	2.60	0.78	4.36	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.43	2.60	0.78	4.29	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.43	2.60	0.78	4.29	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.43	2.60	0.78	4.29	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.43	2.60	0.78	4.29	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.43	2.60	0.78	4.29	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.43	2.60	0.78	4.29	7.8	U	ND	Y
0.0	2.000	0.18	0.24	1.51	2.60	0.71	4.54	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.43	2.60	0.78	4.29	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.43	2.60	0.78	4.29	7.8	U	ND	Y
0.0	2.000	0.20	0.26	1.37	2.60	0.78	4.10	7.8	U	ND	Y

0.0	2.000	0.17	0.22	1.51	2.60	0.65	4.54	7.8	U	ND	Y
%											Y
100.0	45.00	7.5	9.75	34.46	58.53	29.3	103.4	175.6	U	ND	Y
100.0	45.00	45.0	58.53	38.38	58.53	175.6	115.1	175.6	U	ND	Y
100.0	45.00	5.9	7.70	31.56	58.53	23.1	94.7	175.6	U	ND	Y
100.0	45.00	6.4	8.36	32.55	58.53	25.1	97.7	175.6	U	ND	Y
100.0	45.00	3.0	3.90	31.66	58.53	11.7	95.0	175.6	U	ND	Y
100.0	45.00	7.5	9.75	34.46	58.53	29.3	103.4	175.6	U	ND	Y
100.0	45.00	6.4	8.36	31.57	58.53	25.1	94.7	175.6	U	ND	Y
100.0	45.00	45.0	58.53	38.38	58.53	175.6	115.1	175.6	U	ND	Y
100.0	45.00	3.5	4.50	32.66	58.53	13.5	98.0	175.6	U	ND	Y
100.0	45.00	5.6	7.32	35.32	58.53	21.9	106.0	175.6	U	ND	Y
0.0	45.00	7.5	9.75	34.46	58.53	29.3	103.4	175.6	U	ND	Y
0.0	25.000	3.6	4.64	18.08	32.51	13.9	54.3	97.5	U	ND	Y
%											Y
93.7											Y
28.6											Y
0.0											Y
20.8											Y
0.0											Y
50.6											Y
0.0											Y
%											Y
78.7	5.000	2.5	3.25	4.01	6.50	9.8	12.0	19.5	J	=	Y
21.2	5.000	1.7	2.17	3.92	6.50	6.5	11.8	19.5	U	ND	Y
0.0	25.000	6.3	8.13	19.36	32.51	24.4	58.1	97.5	U	ND	Y
0.0	25.000	5.0	6.50	19.23	32.51	19.5	57.7	97.5	U	ND	Y
0.0	25.000	4.2	5.42	19.14	32.51	16.3	57.4	97.5	U	ND	Y
0.0	25.000	3.6	4.64	19.07	32.51	13.9	57.2	97.5	U	ND	Y
0.0	25.000	3.1	4.06	19.02	32.51	12.2	57.1	97.5	U	ND	Y
0.0	25.000	2.8	3.61	18.99	32.51	10.8	57.0	97.5	U	ND	Y
0.0	25.000	2.5	3.25	18.96	32.51	9.8	56.9	97.5	U	ND	Y
0.0	25.000	2.3	2.96	18.93	32.51	8.9	56.8	97.5	U	ND	Y
0.0	25.000	2.1	2.71	18.91	32.51	8.1	56.7	97.5	U	ND	Y
0.0	25.000	2.1	2.71	18.91	32.51	8.1	56.7	97.5	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.30	3.85	7.80	3.9	11.5	23.4			Y
0.0	6.0	0.9	1.11	4.58	7.80	3.3	13.7	23.4			Y
0.0	6.0	0.7	0.87	4.56	7.80	2.6	13.7	23.4			Y
0.0	6.0	0.5	0.71	4.15	7.80	2.1	12.5	23.4			Y
0.0	6.0	0.7	0.87	4.06	7.80	2.6	12.2	23.4			Y
0.0	6.0	0.5	0.71	4.14	7.80	2.1	12.4	23.4			Y
0.0	2.0	0.3	0.43	1.53	2.60	1.3	4.6	7.8	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					3.3		3.30		
					0.0			0.00	
3.8						3.84			
					0.0		0.00		
1.9						1.93			
		0.0				0.00			
						0.0			
					6.9		6.89		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
						0.0			
		0.0				0.00			
					0.0		0.00		
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					0.0		0.00		
0.0						0.00			
					0.0		0.00		
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					0.0		0.00		
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					0.0		0.00		
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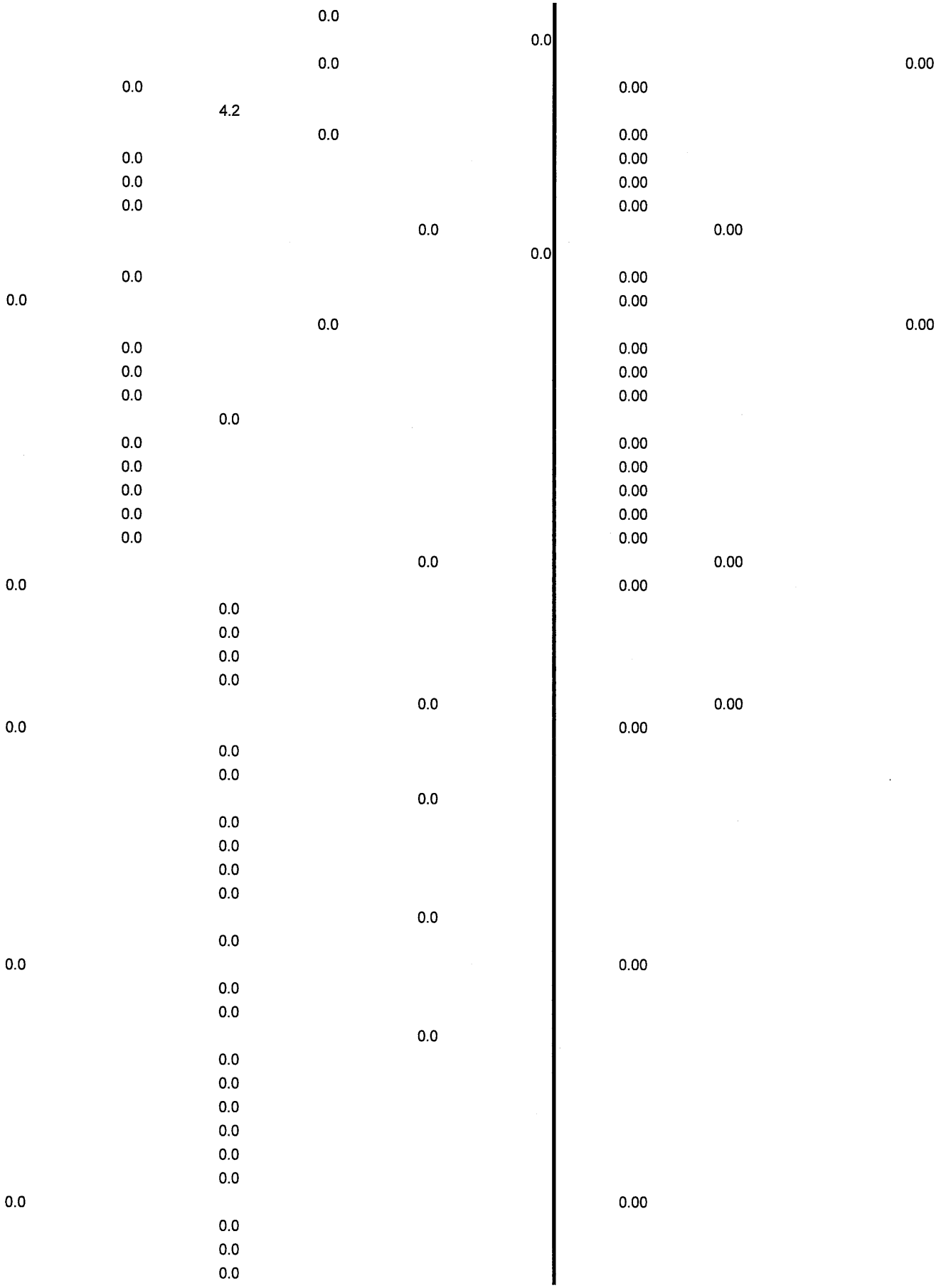
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Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
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SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**27**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.30	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum | (Astdni) / (Cstdni) |i

2) ppbC = (6 Carbons / (Avg RFn)) × (Ansamp / SV) × CDF × 1000 = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.16E+04	1991	3.3	1.65	1.90
Acetylene	2	TRG	26.0	2.16E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.16E+04	2317	3.8	1.92	2.37
Propene	3	TRG	4.5	2.16E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.16E+04	1162	1.9	0.64	1.16
i-Butane	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.16E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.16E+04	4156	6.9	1.72	3.96
n-Butane	4	TRG	54.1	2.16E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.16E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.16E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.16E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.16E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.16E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.16E+04	2528	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.16E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.16E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.16E+04	0	4.2	0.70	2.24	
2-Methylheptane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.16E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.16E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.16E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.16E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.16E+04	12966	21.5	3.58	12.66	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.16E+04	12966	21.5	21.50	14.10	
Total Volatile Organic Compoun	8	TRG	100.0	2.16E+04	12966	21.5	2.83	11.59	
TPH (gasoline)	7	TRG	95.0	2.16E+04	12966	21.5	3.07	11.96	
TPH (diesel)	15	TRG	198.0	2.16E+04	12966	21.5	1.43	11.63	
TPH (hexane)	6	TRG	86.2	2.16E+04	12966	21.5	3.58	12.66	
TPH (toluene)	7	TRG	92.1	2.16E+04	12966	21.5	3.07	11.60	
TPH (methane)	1	TRG	16.0	2.16E+04	12966	21.5	21.50	14.10	
TPH (Jet A Fuel)	13	TRG	177.0	2.16E+04	12966	21.5	1.65	12.00	
TPH (Mineral Spirits)	8	TRG	117.8	2.16E+04	12966	21.5	2.69	12.97	
C6+ (hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.16E+04		20.2			Sum ID
Paraffins	P	TRG	0.0	2.16E+04		5.8			Sum P
Isoparaffins	I	TRG	0.0	2.16E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.16E+04		4.2			Sum A
Napthlenes	N	TRG	0.0	2.16E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.16E+04		10.2			Sum O
Oxygenates		TRG	0.0	2.16E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.16E+04	4308	7.1	3.57	4.41	
C3 (propane)	3	TRG	44.1	2.16E+04	1162	1.9	0.64	1.16	
C4 (Butane)	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.16E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.16E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.16E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.16E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.16E+04	5470	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 28

File Name: 2510028A
Description: T-210
Canister: 714
QC_Batch: 040125-GCK

Date Sampled: 03/20/25 **Time:** 11:21
Date Analyzed: 04/01/25 **Time:** 13:06
Can Factor: 1.27
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.27	3.81	ND	1.46	4.38	ND	ND
74-86-2	Acetylene	1.27	3.81	ND	1.35	4.06	ND	ND
74-84-0	Ethane	1.27	3.81	2.56	1.57	4.70	3.16	J
115-07-1	Propene	0.85	2.54	ND	1.46	4.38	ND	ND
74-98-6	Propane	0.85	2.54	1.08	1.53	4.59	1.95	J
75-28-5	i-Butane	0.63	1.90	ND	1.51	4.53	ND	ND
106-98-9	1-Butene	0.63	1.90	1.68	1.46	4.38	3.86	J
106-97-8	n-Butane	0.63	1.90	ND	1.51	4.53	ND	ND
624-64-6	t-2-Butene	0.63	1.90	ND	1.46	4.38	ND	ND
590-18-1	c-2-Butene	0.63	1.90	ND	1.46	4.38	ND	ND
78-78-4	i-Pentane	0.51	1.52	ND	1.50	4.51	ND	ND
109-67-1	1-Pentene	0.51	1.52	ND	1.46	4.38	ND	ND
109-66-0	n-Pentane	0.51	1.52	ND	1.50	4.50	ND	ND
646-04-8	t-2-Pentene	0.51	1.52	ND	1.46	4.38	ND	ND
627-20-3	c-2-Pentene	0.51	1.52	ND	1.46	4.38	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.27	ND	1.49	4.48	ND	ND
142-29-0	Cyclopentene	0.51	1.52	ND	1.42	4.25	ND	ND
287-92-3	Cyclopentane	0.51	1.52	ND	1.46	4.38	ND	ND
79-29-8	2,3-Dimethylbutane	0.42	1.27	ND	1.49	4.48	ND	ND
107-83-5	2-Methylpentane	0.42	1.27	ND	1.49	4.48	ND	ND
96-14-0	3-Methylpentane	0.42	1.27	ND	1.49	4.48	ND	ND
592-41-6	1-Hexene	0.42	1.27	ND	1.46	4.38	ND	ND
110-54-3	n-Hexane	0.42	1.27	ND	1.49	4.48	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.27	ND	1.42	4.27	ND	ND
96-37-7	Methylcyclopentane	0.42	1.27	ND	1.46	4.38	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.09	ND	1.49	4.47	ND	ND
71-43-2	Benzene	0.42	1.27	1.09	1.35	4.06	3.50	J
110-82-7	Cyclohexane	0.42	1.27	ND	1.46	4.38	ND	ND
591-76-4	2-Methylhexane	0.36	1.09	ND	1.49	4.47	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.09	ND	1.49	4.47	ND	ND
589-34-4	3-Methylhexane	0.36	1.09	ND	1.49	4.47	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.32	0.95	ND	1.48	4.45	ND	ND
142-82-5	n-Heptane	0.36	1.09	ND	1.49	4.47	ND	ND
108-87-2	Methylcyclohexane	0.36	1.09	ND	1.46	4.38	ND	ND
592-13-2	2,5-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.32	0.95	ND	1.48	4.45	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.09	ND	1.37	4.11	ND	ND
584-94-1	2,3-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
592-27-8	2-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
589-53-7	4-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
589-81-1	3-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
111-65-9	n-Octane	0.32	0.95	ND	1.48	4.45	ND	ND
100-41-4	Ethylbenzene	0.32	0.95	ND	1.38	4.14	ND	ND
108-38-3	m,p-xylene	0.32	0.95	ND	1.38	4.14	ND	ND
100-42-5	Styrene	0.32	0.95	ND	1.35	4.06	ND	ND
95-47-6	o-xylene	0.32	0.95	ND	1.38	4.14	ND	ND
111-84-2	n-Nonane	0.28	0.85	ND	1.48	4.45	ND	ND
98-82-8	i-Propylbenzene	0.28	0.85	ND	1.39	4.17	ND	ND
103-65-1	n-propylbenzene	0.28	0.85	ND	1.39	4.17	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.85	ND	1.39	4.17	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.85	ND	1.39	4.17	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.85	ND	1.39	4.17	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.85	ND	1.39	4.17	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.85	ND	1.39	4.17	ND	ND
124-18-5	n-Decane	0.25	0.76	ND	1.48	4.44	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.85	ND	1.39	4.17	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.76	ND	1.40	4.19	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.76	ND	1.40	4.19	ND	ND
104-51-8	n-Butylbenzene	0.25	0.76	ND	1.40	4.19	ND	ND
1120-21-4	Undecane	0.23	0.69	ND	1.48	4.43	ND	ND
91-20-3	Naphthalene	0.25	0.76	ND	1.33	4.00	ND	ND
112-40-3	Dodecane	0.21	0.63	ND	1.48	4.43	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.52	28.55	12.75	33.63	100.88	45.04	J
TNMHC - C1	Total Non-Methane Hydrocarbons	57.11	171.32	76.50	37.45	112.34	50.16	J

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **28**
File Name: **2510028A**
Sample ID: **T-210**
Sampled: **3/20/2025**
Received: **03/21/25**
Analyzed: **04/01/25**
QCBatch: **040125-GCK**
Can: **714**
Can Factor: **1.27**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **11:21** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **13:06** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **390567**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C4 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.06	**4.05**	960	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.10			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.17**	3164	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.13**		I	I	H	289	290
74-98-6	Propane	P	5.20	**5.20**	**5.25**	2000	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.65**						128	351
67-56-1	Methanol		8.30	8.35						128	401
106-98-9	1-Butene	P	7.29	7.34	**7.29**	4146	I	I	H	367	367
106-99-0	1,3-Butadiene		**7.48**	7.53						128	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.31**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.72	**8.63**		I	I	H	408	410
590-18-1	c-2-Butene	P	9.63	9.60						201	431
64-17-5	Ethanol		10.85	10.85						201	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.05						201	465
67-64-1	Acetone		11.52	11.52						201	476
78-78-4	i-Pentane	P	11.37	11.37	**11.39**		I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.30						201	495
67-63-0	Isopropanol		12.65	12.65						201	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.36						201	497
109-66-0	n-Pentane	P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.55						162	503
646-04-8	t-2-Pentene	P	12.79	12.79						162	510
627-20-3	c-2-Pentene	P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.55						280	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.62						280	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.77	**13.79**		I	I	H	536	537
142-29-0	Cyclopentene	15	**14.61**	14.61						162	551
71-23-8	n-Propanol		**14.75**	14.75						162	558
287-92-3	Cyclopentane	P	14.88	14.88	**14.92**		I	I	H	566	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.06						162	570
107-83-5	2-Methylpentane	P	15.08	15.08	**15.08**		I	I	H	570	571
96-14-0	3-Methylpentane	P	15.55	15.55	**15.57**		I	I	H	584	583
592-41-6	1-Hexene	P	**15.80**	15.80						162	590
110-54-3	n-Hexane	P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						262	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86	**16.87**		I	I	H	621	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05	**16.99**		I	I	H	625	626
71-43-2	Benzene		P	17.87	**17.87**	**17.88**	4056	I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.15	**18.15**		I	I	H	661	658
591-76-4	2-Methylhexane		P	18.38	18.39						104	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.46	**18.46**		I	I	H	670	671
589-34-4	3-Methylhexane		P	18.66	18.67	**18.68**		I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.76						104	687
994-05-8	Tert amyl methyl ether			**18.80**	18.81						104	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.10	**19.10**		I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.42	**19.43**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.10	**20.11**		I	I	H	723	722
592-13-2	2,5-Dimethylhexane			20.35	20.36						32	734
589-43-5	2,4-Dimethylhexane			20.43	20.44	**20.46**		I	I	H	735	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.94	**20.95**		I	I	H	752	753
108-88-3	Toluene		P	21.12	**21.13**	**21.11**		I	I	H	758	758
584-94-1	2,3-Dimethylhexane			21.20	21.19	**21.22**		I	I	H	762	763
592-27-8	2-Methylheptane		P	21.33	21.32						32	768
589-53-7	4-Methylheptane	48		**21.48**	21.47						32	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.49						32	772
589-81-1	3-Methylheptane		p	21.55	21.54						32	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.09						32	786
111-65-9	n-Octane		P	22.27	22.26	**22.34**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.74	**23.72**		I	I	H	855	855
108-38-3	m,p-xylene		P	23.95	23.94	**23.92**		I	I	H	863	863
100-42-5	Styrene		P	24.40	24.39						-87	881
95-47-6	o-xylene		P	24.57	24.56	**24.65**		I	O	M	892	886
124-11-8	1-Nonene	64		24.60	24.59						-87	889
111-84-2	n-Nonane		P	24.87	24.86	**24.86**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.35	**25.25**		I	I	H	916	919
103-65-1	n-propylbenzene		P	25.93	25.92	**25.94**		I	I	H	945	947
80-56-8	a-Pinene			26.09	26.08						-129	950
620-14-4	3-Ethyltoluene		P	26.17	26.16	**26.13**		I	O	M	953	957
622-96-8	4-Ethyltoluene		P	26.26	26.25	**26.33**		I	I	H	961	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.44	**26.44**		I	I	H	965	964
611-14-3	2-Ethyltoluene		P	26.61	26.60	**26.61**		I	I	H	972	975
127-91-3	b-Pinene			26.80	26.79						-129	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.07	**27.02**		I	I	H	989	991
124-18-5	n-Decane		P	27.26	27.25	**27.28**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.54	**27.46**		I	O	M	1007	1014
496-11-7	Indan	81		27.55	27.54						-59	1020
5989-27-5	d-Limonene			27.65	27.64						-59	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.09	**28.06**		I	I	H	1030	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.22	**28.20**		I	I	H	1036	1037
104-51-8	n-Butylbenzene			28.45	28.44	**28.34**		I	O	M	1041	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.59						-59	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.74						-59	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.82						-59	1060
1120-21-4	Undecane		P	29.86	29.85	**29.85**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.44						-35	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.49						-35	1124
91-20-3	Naphthalene		32.25	32.24						-35	1193
112-40-3	Dodecane	P	32.46	32.45	**32.48**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					59906		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					47286		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					47286		12620			
TVOC	Total Volatile Organic Compounds					47286		0			
TPH(g)	TPH (gasoline)					47286		0			
TPH(d)	TPH (diesel)					47286		0			
TPH(h)	TPH (hexane)					47286		0			
TPH(t)	TPH (toluene)					47286		0			
TPHC	TPH (methane)					47286		0			
TPH(Jet A)	TPH (Jet A Fuel)					47286		**12620**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					47286					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			4124		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			2000		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**6124**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040125-GCK		
Hexane Std Area:	390567		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.27	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.27		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	1.55	0.78	0.89	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	5.12	2.56	3.16	5.12	2.56	3.16	3.16	3.16
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	3.24	1.08	1.95	3.24	1.08	1.95	1.95	1.95
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	6.71	1.68	3.86	6.71	1.68	3.86	3.86	3.86
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	6.56	1.09	3.50	6.56	1.09	3.50	3.50	3.50
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	76.50	12.7	45.0	76.50	12.75	45.04	45.04	45.04
Total Non-Methane Hydrocarbons	16	1.0	76.50	76.5	50.2	76.50	76.50	50.16	50.16	50.16
Total Volatile Organic Compounds	100	7.6	76.50	10.1	41.3	76.50	10.07	41.25	41.25	41.25
TPH (gasoline)	95	7.0	76.50	10.9	42.5	76.50	10.93	42.55	42.55	42.55
TPH (diesel)	198	15.0	76.50	5.1	41.4	76.50	5.10	41.38	41.38	41.38
TPH (hexane)	86.2	6.0	76.50	12.7	45.0	76.50	12.75	45.04	45.04	45.04
TPH (toluene)	92.14	7.0	76.50	10.9	41.3	76.50	10.93	41.27	41.27	41.27
TPH (methane)	16	1.0	76.50	76.5	50.2	76.50	76.50	50.16	50.16	50.16
TPH (Jet A Fuel)	177	13.0	76.50	5.9	42.7	76.50	5.88	42.69	42.69	42.69
TPH (Mineral Spirits)	117.81	8.0	76.50	9.6	46.2	76.50	9.56	46.17	46.17	46.17
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			23.2	7.2						
Paraffins			8.4							
Isoparaffins			0.0							
Aromatics			6.6							
Napthlenes			0.0							
Olefins			8.3							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	6.67	3.34	4.12	6.67	3.34	4.12	4.12	4.12
C3 (propane)	44.1	3	3.24	1.08	1.95	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			9.9							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			8.4	36.0
Alkenes			8.3	35.6
Alkynes			0.0	0.0
Cycloalkanes			0.0	0.0
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			6.6	28.3
Terpenes			0.0	0.0

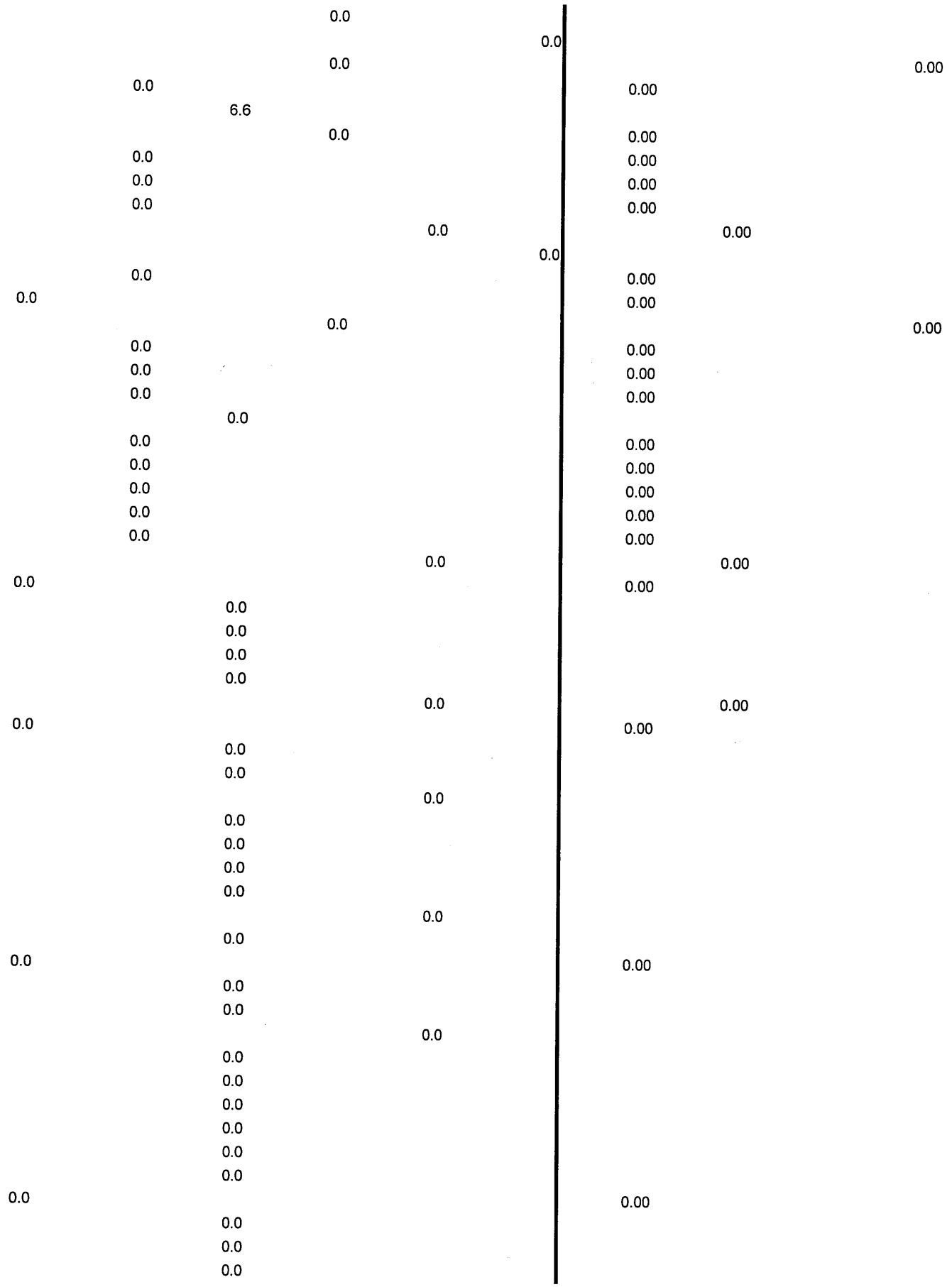
SDG: **225100**
Laboratory Number: **28**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
10.8	2.000	1.00	1.27	1.46	2.54	3.81	4.38	7.6	U	ND		Y
0.0	2.000	1.00	1.27	1.35	2.54	3.81	4.06	7.6	U	ND		Y
35.6	2.000	1.00	1.27	1.57	2.54	3.81	4.70	7.6	J	=		Y
0.0	2.000	0.67	0.85	1.46	2.54	2.54	4.38	7.6	U	ND		Y
15.0	2.000	0.67	0.85	1.53	2.54	2.54	4.59	7.6	J	=		Y
0.0	2.000	0.50	0.63	1.51	2.54	1.90	4.53	7.6	U	ND		Y
0.0	2.000	2.00	2.54	3.33	2.54	7.61	9.99	7.6	U	ND		Y
23.3	2.000	0.50	0.63	1.46	2.54	1.90	4.38	7.6	J	=		Y
0.0	2.000	0.50	0.63	1.41	2.54	1.90	4.22	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.51	2.54	1.90	4.53	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.46	2.54	1.90	4.38	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.46	2.54	1.90	4.38	7.6	U	ND		Y
0.0	2.000	1.00	1.27	2.40	2.54	3.81	7.19	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.54	1.52	4.38	7.6	U	ND		Y
0.0	2.000	0.67	0.85	2.01	2.54	2.54	6.04	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.50	2.54	1.52	4.51	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.54	1.52	4.38	7.6	U	ND		Y
0.0	2.000	0.67	0.85	2.08	2.54	2.54	6.25	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.54	1.52	4.38	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.50	2.54	1.52	4.50	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.42	2.54	1.52	4.25	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.54	1.52	4.38	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.54	1.52	4.38	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.93	2.54	1.90	5.78	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.54	1.52	4.38	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.54	1.27	4.48	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.42	2.54	1.52	4.25	7.6	U	ND		Y
0.0	2.000	0.67	0.85	2.08	2.54	2.54	6.25	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.54	1.52	4.38	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.83	2.54	1.52	5.50	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.54	1.27	4.48	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.54	1.27	4.48	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.54	1.27	4.48	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.46	2.54	1.27	4.38	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.54	1.27	4.48	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.77	2.54	1.27	5.32	7.6	U	ND		Y

0.0	2.000	0.33	0.42	1.42	2.54	1.27	4.27	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.77	2.54	1.27	5.32	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.46	2.54	1.27	4.38	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.54	1.09	4.47	7.6	U	ND	Y
15.2	2.000	0.33	0.42	1.35	2.54	1.27	4.06	7.6	J	=	Y
0.0	2.000	0.33	0.42	1.46	2.54	1.27	4.38	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.54	1.09	4.47	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.54	1.09	4.47	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.54	1.09	4.47	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.46	2.54	1.09	4.38	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.77	2.54	1.27	5.32	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.54	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.54	1.09	4.47	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.46	2.54	1.09	4.38	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.54	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.54	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.54	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.37	2.54	1.09	4.11	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.54	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.54	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.54	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.54	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.54	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.46	2.54	0.95	4.38	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.54	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.38	2.54	0.95	4.14	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.38	2.54	0.95	4.14	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.35	2.54	0.95	4.06	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.38	2.54	0.95	4.14	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.46	2.54	0.85	4.38	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.48	2.54	0.85	4.45	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.54	0.85	4.17	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.54	0.85	4.17	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.42	2.54	0.76	4.25	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.54	0.85	4.17	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.54	0.85	4.17	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.54	0.85	4.17	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.54	0.85	4.17	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.42	2.54	0.76	4.25	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.54	0.85	4.17	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.48	2.54	0.76	4.44	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.54	0.85	4.17	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.54	0.85	4.10	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.42	2.54	0.76	4.25	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.54	0.76	4.19	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.54	0.76	4.19	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.54	0.76	4.19	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.54	0.76	4.19	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.54	0.76	4.19	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.54	0.76	4.19	7.6	U	ND	Y
0.0	2.000	0.18	0.23	1.48	2.54	0.69	4.43	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.54	0.76	4.19	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.54	0.76	4.19	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.33	2.54	0.76	4.00	7.6	U	ND	Y

0.0	2.000	0.17	0.21	1.48	2.54	0.63	4.43	7.6	U	ND	Y
%											Y
100.0	45.00	7.5	9.52	33.63	57.11	28.6	100.9	171.3	J	=	Y
100.0	45.00	45.0	57.11	37.45	57.11	171.3	112.3	171.3	J	=	Y
100.0	45.00	5.9	7.51	30.80	57.11	22.5	92.4	171.3	J	=	Y
100.0	45.00	6.4	8.16	31.76	57.11	24.5	95.3	171.3	J	=	Y
100.0	45.00	3.0	3.81	30.89	57.11	11.4	92.7	171.3	J	=	Y
100.0	45.00	7.5	9.52	33.63	57.11	28.6	100.9	171.3	J	=	Y
100.0	45.00	6.4	8.16	30.81	57.11	24.5	92.4	171.3	J	=	Y
100.0	45.00	45.0	57.11	37.45	57.11	171.3	112.3	171.3	J	=	Y
100.0	45.00	3.5	4.39	31.87	57.11	13.2	95.6	171.3	J	=	Y
100.0	45.00	5.6	7.14	34.47	57.11	21.4	103.4	171.3	J	=	Y
0.0	45.00	7.5	9.52	33.63	57.11	28.6	100.9	171.3	U	ND	Y
0.0	25.000	3.6	4.53	17.65	31.73	13.6	52.9	95.2	U	ND	Y
%											Y
30.3											Y
36.0											Y
0.0											Y
28.3											Y
0.0											Y
35.6											Y
0.0											Y
%											Y
67.3	5.000	2.5	3.17	3.91	6.35	9.5	11.7	19.0	J	=	Y
32.7	5.000	1.7	2.12	3.82	6.35	6.3	11.5	19.0	U	ND	Y
0.0	25.000	6.3	7.93	18.89	31.73	23.8	56.7	95.2	U	ND	Y
0.0	25.000	5.0	6.35	18.76	31.73	19.0	56.3	95.2	U	ND	Y
0.0	25.000	4.2	5.29	18.68	31.73	15.9	56.0	95.2	U	ND	Y
0.0	25.000	3.6	4.53	18.61	31.73	13.6	55.8	95.2	U	ND	Y
0.0	25.000	3.1	3.97	18.56	31.73	11.9	55.7	95.2	U	ND	Y
0.0	25.000	2.8	3.53	18.53	31.73	10.6	55.6	95.2	U	ND	Y
0.0	25.000	2.5	3.17	18.50	31.73	9.5	55.5	95.2	U	ND	Y
0.0	25.000	2.3	2.88	18.48	31.73	8.7	55.4	95.2	U	ND	Y
0.0	25.000	2.1	2.64	18.45	31.73	7.9	55.4	95.2	U	ND	Y
0.0	25.000	2.1	2.64	18.45	31.73	7.9	55.4	95.2	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.27	3.75	7.61	3.8	11.3	22.8			Y
0.0	6.0	0.9	1.09	4.47	7.61	3.3	13.4	22.8			Y
0.0	6.0	0.7	0.85	4.45	7.61	2.5	13.3	22.8			Y
0.0	6.0	0.5	0.69	4.05	7.61	2.1	12.2	22.8			Y
0.0	6.0	0.7	0.85	3.96	7.61	2.5	11.9	22.8			Y
0.0	6.0	0.5	0.69	4.04	7.61	2.1	12.1	22.8			Y
0.0	2.0	0.3	0.42	1.49	2.54	1.3	4.5	7.6	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					1.6		1.55		
					0.0			0.00	
5.1						5.12			
					0.0		0.00		
3.2						3.24			
		0.0				0.00			
					0.0				
					6.7		6.71		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		0.0				0.00			
					0.0		0.00		
					0.0				
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
					0.0				
			0.0						0.00
					0.0				
		0.0				0.00			
		0.0				0.00			
		0.0				0.00			
					0.0		0.00		
0.0						0.00			
					0.0				


0.0
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6.6
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0.0						0.00			
8.4	0.0	6.6	0.0	8.3	0.0	8.4	8.3	0.0	0.0

0.00	0.00		
0.00	0.00		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
	0.00				
	0.00				
	0.00				
				0.00	
				0.00	

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6.56

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0.0	0.0	0.0	0.0	6.6	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**28**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.27
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = $\text{Sum}\left|\frac{(\text{Astdni})}{(\text{Cstdni})}\right|_i$

2) ppbC = $\frac{6\ \text{Carbons} \quad \text{Ansamp} \quad \text{CDF} \quad 1000}{(\text{Avg RFn}) \quad \text{SV}}$ = **Cn**

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = $\frac{(\text{amt(ppbv)} \quad \text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.16E+04	960	1.6	0.78	0.89
Acetylene	2	TRG	26.0	2.16E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.16E+04	3164	5.1	2.56	3.16
Propene	3	TRG	4.5	2.16E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.16E+04	2000	3.2	1.08	1.95
i-Butane	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.16E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.16E+04	4146	6.7	1.68	3.86
n-Butane	4	TRG	54.1	2.16E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.16E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.16E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.16E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.16E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.16E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.16E+04	4056	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.16E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.16E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.16E+04	0	6.6	1.09	3.50	
2-Methylheptane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.16E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.16E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.16E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.16E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.16E+04	47286	76.5	12.75	45.04	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.16E+04	47286	76.5	76.50	50.16	
Total Volatile Organic Compoun	8	TRG	100.0	2.16E+04	47286	76.5	10.07	41.25	
TPH (gasoline)	7	TRG	95.0	2.16E+04	47286	76.5	10.93	42.55	
TPH (diesel)	15	TRG	198.0	2.16E+04	47286	76.5	5.10	41.38	
TPH (hexane)	6	TRG	86.2	2.16E+04	47286	76.5	12.75	45.04	
TPH (toluene)	7	TRG	92.1	2.16E+04	47286	76.5	10.93	41.27	
TPH (methane)	1	TRG	16.0	2.16E+04	47286	76.5	76.50	50.16	
TPH (Jet A Fuel)	13	TRG	177.0	2.16E+04	47286	76.5	5.88	42.69	
TPH (Mineral Spirits)	8	TRG	117.8	2.16E+04	47286	76.5	9.56	46.17	
C6+ (hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.16E+04		23.2			Sum ID
Paraffins	P	TRG	0.0	2.16E+04		8.4			Sum P
Isoparaffins	I	TRG	0.0	2.16E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.16E+04		6.6			Sum A
Napthlenes	N	TRG	0.0	2.16E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.16E+04		8.3			Sum O
Oxygenates		TRG	0.0	2.16E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.16E+04	4124	6.7	3.34	4.12	
C3 (propane)	3	TRG	44.1	2.16E+04	2000	3.2	1.08	1.95	
C4 (Butane)	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.16E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.16E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.16E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.16E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.16E+04	6124	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 29

File Name: 2510029A
Description: T-211
Canister: 629
QC_Batch: 040125-GCK

Date Sampled: 03/20/25 **Time:** 11:26
Date Analyzed: 04/01/25 **Time:** 13:53
Can Factor: 1.29
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.29	3.86	ND	1.48	4.44	ND	ND
74-86-2	Acetylene	1.29	3.86	ND	1.37	4.11	ND	ND
74-84-0	Ethane	1.29	3.86	1.58	1.59	4.76	1.94	J
115-07-1	Propene	0.86	2.57	ND	1.48	4.44	ND	ND
74-98-6	Propane	0.86	2.57	ND	1.55	4.65	ND	ND
75-28-5	i-Butane	0.64	1.93	ND	1.53	4.59	ND	ND
106-98-9	1-Butene	0.64	1.93	ND	1.48	4.44	ND	ND
106-97-8	n-Butane	0.64	1.93	ND	1.53	4.59	ND	ND
624-64-6	t-2-Butene	0.64	1.93	ND	1.48	4.44	ND	ND
590-18-1	c-2-Butene	0.64	1.93	ND	1.48	4.44	ND	ND
78-78-4	i-Pentane	0.51	1.54	ND	1.52	4.57	ND	ND
109-67-1	1-Pentene	0.51	1.54	ND	1.48	4.43	ND	ND
109-66-0	n-Pentane	0.51	1.54	ND	1.52	4.56	ND	ND
646-04-8	t-2-Pentene	0.51	1.54	ND	1.48	4.43	ND	ND
627-20-3	c-2-Pentene	0.51	1.54	ND	1.48	4.43	ND	ND
75-83-2	2,2-Dimethylbutane	0.43	1.29	ND	1.51	4.54	ND	ND
142-29-0	Cyclopentene	0.51	1.54	ND	1.44	4.31	ND	ND
287-92-3	Cyclopentane	0.51	1.54	ND	1.48	4.43	ND	ND
79-29-8	2,3-Dimethylbutane	0.43	1.29	ND	1.51	4.54	ND	ND
107-83-5	2-Methylpentane	0.43	1.29	ND	1.51	4.54	ND	ND
96-14-0	3-Methylpentane	0.43	1.29	ND	1.51	4.54	ND	ND
592-41-6	1-Hexene	0.43	1.29	ND	1.48	4.44	ND	ND
110-54-3	n-Hexane	0.43	1.29	ND	1.51	4.54	ND	ND
1120-62-3	3-Methylcyclopentene	0.43	1.29	ND	1.44	4.33	ND	ND
96-37-7	Methylcyclopentane	0.43	1.29	ND	1.48	4.44	ND	ND
108-08-7	2,4-Dimethylpentane	0.37	1.10	ND	1.51	4.53	ND	ND
71-43-2	Benzene	0.43	1.29	0.44	1.37	4.12	1.40	J
110-82-7	Cyclohexane	0.43	1.29	ND	1.48	4.44	ND	ND
591-76-4	2-Methylhexane	0.37	1.10	ND	1.51	4.53	ND	ND
565-59-3	2,3-Dimethylpentane	0.37	1.10	ND	1.51	4.53	ND	ND
589-34-4	3-Methylhexane	0.37	1.10	ND	1.51	4.53	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.32	0.96	ND	1.50	4.51	ND	ND
142-82-5	n-Heptane	0.37	1.10	ND	1.51	4.53	ND	ND
108-87-2	Methylcyclohexane	0.37	1.10	ND	1.48	4.44	ND	ND
592-13-2	2,5-Dimethylhexane	0.32	0.96	ND	1.50	4.51	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.96	ND	1.50	4.51	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.32	0.96	ND	1.50	4.51	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.37	1.10	ND	1.39	4.16	ND	ND
584-94-1	2,3-Dimethylhexane	0.32	0.96	ND	1.50	4.51	ND	ND
592-27-8	2-Methylheptane	0.32	0.96	ND	1.50	4.51	ND	ND
589-53-7	4-Methylheptane	0.32	0.96	ND	1.50	4.51	ND	ND
589-81-1	3-Methylheptane	0.32	0.96	ND	1.50	4.51	ND	ND
111-65-9	n-Octane	0.32	0.96	ND	1.50	4.51	ND	ND
100-41-4	Ethylbenzene	0.32	0.96	ND	1.40	4.20	ND	ND
108-38-3	m,p-xylene	0.32	0.96	ND	1.40	4.20	ND	ND
100-42-5	Styrene	0.32	0.96	ND	1.37	4.12	ND	ND
95-47-6	o-xylene	0.32	0.96	ND	1.40	4.20	ND	ND
111-84-2	n-Nonane	0.29	0.86	ND	1.50	4.51	ND	ND
98-82-8	i-Propylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
103-65-1	n-propylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
620-14-4	3-Ethyltoluene	0.29	0.86	ND	1.41	4.22	ND	ND
622-96-8	4-Ethyltoluene	0.29	0.86	ND	1.41	4.22	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
611-14-3	2-Ethyltoluene	0.29	0.86	ND	1.41	4.22	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
124-18-5	n-Decane	0.26	0.77	ND	1.50	4.50	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
141-93-5	1,3-Diethylbenzene	0.26	0.77	ND	1.41	4.24	ND	ND
105-05-5	1,4-Diethylbenzene	0.26	0.77	ND	1.41	4.24	ND	ND
104-51-8	n-Butylbenzene	0.26	0.77	ND	1.41	4.24	ND	ND
1120-21-4	Undecane	0.23	0.70	ND	1.50	4.49	ND	ND
91-20-3	Naphthalene	0.26	0.77	ND	1.35	4.05	ND	ND
112-40-3	Dodecane	0.21	0.64	ND	1.50	4.49	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.65	28.94	23.37	34.08	102.23	82.55	J
TNMHC - C1	Total Non-Methane Hydrocarbons	57.88	173.63	140.20	37.95	113.85	91.93	J

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **29**
File Name: **2510029A**
Sample ID: **T-211**
Sampled: **3/20/2025**
Received: **03/21/25**
Analyzed: **04/01/25**
QCBatch: **040125-GCK**
Can: **629**
Can Factor: **1.29**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **11:26** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **13:53** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **390567**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win	C2-C	C5-C12
RT	**0.3**	**0.1**
RTI	**3**	**3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.11	**4.05**		NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.15			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.22**	1922	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.13**		I	I	H	288	290
74-98-6	Propane	P	5.20	**5.20**	**5.25**		I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.65**						128	351
67-56-1	Methanol		8.30	8.35						128	401
106-98-9	1-Butene	P	7.29	7.34	**7.29**	1306	I	I	H	367	367
106-99-0	1,3-Butadiene		**7.48**	7.53						128	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.31**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.72	**8.66**		I	I	H	408	410
590-18-1	c-2-Butene	P	9.63	9.60						201	431
64-17-5	Ethanol		10.85	10.85						201	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.05						201	465
67-64-1	Acetone		11.52	11.52						201	476
78-78-4	i-Pentane	P	11.37	11.37	**11.39**		I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.30						201	495
67-63-0	Isopropanol		12.65	12.65						201	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.36						201	497
109-66-0	n-Pentane	P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.55						162	503
646-04-8	t-2-Pentene	P	12.79	12.79						162	510
627-20-3	c-2-Pentene	P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.55						280	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.62						280	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.77	**13.79**		I	I	H	536	537
142-29-0	Cyclopentene	15	**14.61**	14.61						162	551
71-23-8	n-Propanol		**14.75**	14.75						162	558
287-92-3	Cyclopentane	P	14.88	14.88	**14.92**		I	I	H	566	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.06						162	570
107-83-5	2-Methylpentane	P	15.08	15.08	**15.08**		I	I	H	570	571
96-14-0	3-Methylpentane	P	15.55	15.55	**15.61**		I	I	H	585	583
592-41-6	1-Hexene	P	**15.80**	15.80						162	590
110-54-3	n-Hexane	P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						262	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86	**16.87**		I	I	H	621	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05	**16.99**		I	I	H	625	626
71-43-2	Benzene		P	17.87	**17.87**	**17.91**	1606	I	I	H	653	651
110-82-7	Cyclohexane		P	18.14	18.18	**18.15**		I	I	H	661	658
591-76-4	2-Methylhexane		P	18.38	18.42						104	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.49	**18.46**		I	I	H	670	671
589-34-4	3-Methylhexane		P	18.66	18.70	**18.68**		I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.79						104	687
994-05-8	Tert amyl methyl ether			**18.80**	18.84						104	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.13	**19.10**		I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.45	**19.43**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.13	**20.11**		I	I	H	723	722
592-13-2	2,5-Dimethylhexane			20.35	20.39						32	734
589-43-5	2,4-Dimethylhexane			20.43	20.47	**20.46**		I	I	H	735	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.97	**20.95**		I	I	H	752	753
108-88-3	Toluene		P	21.12	**21.16**	**21.11**		I	I	H	758	758
584-94-1	2,3-Dimethylhexane			21.20	21.19	**21.22**		I	I	H	762	763
592-27-8	2-Methylheptane		P	21.33	21.32						32	768
589-53-7	4-Methylheptane	48		**21.48**	21.47						32	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.49						32	772
589-81-1	3-Methylheptane		p	21.55	21.54						32	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.09						32	786
111-65-9	n-Octane		P	22.27	22.26	**22.34**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.74						-87	855
108-38-3	m,p-xylene		P	23.95	23.94						-87	863
100-42-5	Styrene		P	24.40	24.39						-87	881
95-47-6	o-xylene		P	24.57	24.56						-87	886
124-11-8	1-Nonene	64		24.60	24.59						-87	889
111-84-2	n-Nonane		P	24.87	24.86	**24.86**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.35						-129	919
103-65-1	n-propylbenzene		P	25.93	25.92						-129	947
80-56-8	a-Pinene			26.09	26.08						-129	950
620-14-4	3-Ethyltoluene		P	26.17	26.16						-129	957
622-96-8	4-Ethyltoluene		P	26.26	26.25						-129	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.44						-129	964
611-14-3	2-Ethyltoluene		P	26.61	26.60						-129	975
127-91-3	b-Pinene			26.80	26.79						-129	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.07						-129	991
124-18-5	n-Decane		P	27.26	27.25	**27.28**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.54						-59	1014
496-11-7	Indan	81		27.55	27.54						-59	1020
5989-27-5	d-Limonene			27.65	27.64						-59	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.09						-59	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.22						-59	1037
104-51-8	n-Butylbenzene			28.45	28.44	**28.34**		I	O	M	1041	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.59						-59	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.74						-59	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.82						-59	1060
1120-21-4	Undecane		P	29.86	3.41	**29.85**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.44						-35	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.49						-35	1124
91-20-3	Naphthalene		32.25	32.24						-35	1193
112-40-3	Dodecane	P	32.46	6.01	**32.48**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					0		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					85513		22493			
TNMHC - C1	Total Non-Methane Hydrocarbons					85513		5230			
TVOC	Total Volatile Organic Compounds					-27723		0			
TPH(g)	TPH (gasoline)					-27723		0			
TPH(d)	TPH (diesel)					-27723		0			
TPH(h)	TPH (hexane)					-27723		0			
TPH(t)	TPH (toluene)					-27723		0			
TPHC	TPH (methane)					-27723		0			
TPH(Jet A)	TPH (Jet A Fuel)					-27723		**27723**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					-27723					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			1922		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			0		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**1922**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040125-GCK		
Hexane Std Area:	390567		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.29	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.29		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	3.15	1.58	1.94	3.15	1.58	1.94	1.94	1.94
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	2.14	0.54	1.23	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	2.63	0.44	1.40	2.63	0.44	1.40	1.40	1.4
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	140.20	23.4	82.5	140.20	23.37	82.55	82.55	82.55
Total Non-Methane Hydrocarbons	16	1.0	140.20	140.2	91.9	140.20	140.20	91.93	91.93	91.93
Total Volatile Organic Compounds	100	7.6	-45.45	-6.0	-24.5	ND	ND	ND	0	
TPH (gasoline)	95	7.0	-45.45	-6.5	-25.3	ND	ND	ND	0	
TPH (diesel)	198	15.0	-45.45	-3.0	-24.6	ND	ND	ND	0	
TPH (hexane)	86.2	6.0	-45.45	-7.6	-26.8	ND	ND	ND	0	
TPH (toluene)	92.14	7.0	-45.45	-6.5	-24.5	ND	ND	ND	0	
TPH (methane)	16	1.0	-45.45	-45.5	-29.8	ND	ND	ND	0	
TPH (Jet A Fuel)	177	13.0	-45.45	-3.5	-25.4	ND	ND	ND	0	
TPH (Mineral Spirits)	117.81	8.0	-45.45	-5.7	-27.4	ND	ND	ND	0	
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			7.9	2.6						
Paraffins			3.2							
Isoparaffins			0.0							
Aromatics			2.6							
Napthlenes			0.0							
Olefins			2.1							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	3.15	1.58	1.94	ND	ND	ND	0	
C3 (propane)	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			3.2							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			3.2	39.8
Alkenes			2.1	27.0
Alkynes			0.0	0.0
Cycloalkanes			0.0	0.0
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			2.6	33.2
Terpenes			0.0	0.0

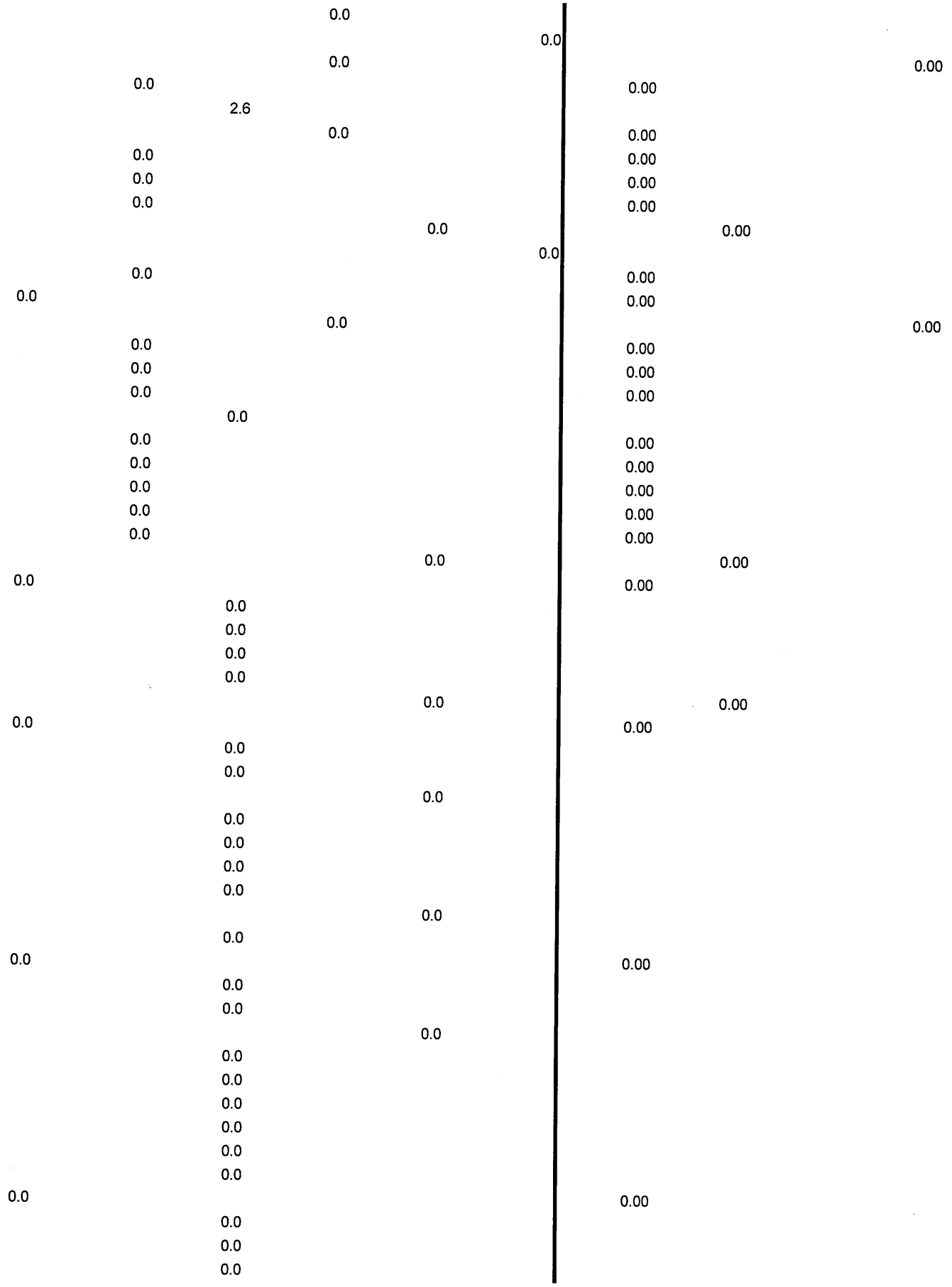
SDG: **225100**
Laboratory Number: **29**

Mole %	(1)	(2)	Calc	Calc	Calc	Calc	Calc	Calc				
Result	MDL	MDL	MDL	MDL	MDL	RL	RL	RL		Detect	EPA	Rept
%	ppbC	ppbV	ppbV	ug/m3	ppbC	ppbV	ug/m3	ppbC	Flag	Flan	Flag	Res
0.0	2.000	1.00	1.29	1.48	2.57	3.86	4.44	7.7	U	ND		Y
0.0	2.000	1.00	1.29	1.37	2.57	3.86	4.11	7.7	U	ND		Y
61.8	2.000	1.00	1.29	1.59	2.57	3.86	4.76	7.7	J	=		Y
0.0	2.000	0.67	0.86	1.48	2.57	2.57	4.44	7.7	U	ND		Y
0.0	2.000	0.67	0.86	1.55	2.57	2.57	4.65	7.7	U	ND		Y
0.0	2.000	0.50	0.64	1.53	2.57	1.93	4.59	7.7	U	ND		Y
0.0	2.000	2.00	2.57	3.37	2.57	7.72	10.12	7.7	U	ND		Y
21.0	2.000	0.50	0.64	1.48	2.57	1.93	4.44	7.7	U	ND		Y
0.0	2.000	0.50	0.64	1.43	2.57	1.93	4.28	7.7	U	ND		Y
0.0	2.000	0.50	0.64	1.53	2.57	1.93	4.59	7.7	U	ND		Y
0.0	2.000	0.50	0.64	1.48	2.57	1.93	4.44	7.7	U	ND		Y
0.0	2.000	0.50	0.64	1.48	2.57	1.93	4.44	7.7	U	ND		Y
0.0	2.000	1.00	1.29	2.43	2.57	3.86	7.29	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.43	7.7	U	ND		Y
0.0	2.000	0.67	0.86	2.04	2.57	2.57	6.12	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.52	2.57	1.54	4.57	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.43	7.7	U	ND		Y
0.0	2.000	0.67	0.86	2.11	2.57	2.57	6.34	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.43	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.52	2.57	1.54	4.56	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.44	2.57	1.54	4.31	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.43	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.43	7.7	U	ND		Y
0.0	2.000	0.50	0.64	1.95	2.57	1.93	5.86	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.43	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.51	2.57	1.29	4.54	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.44	2.57	1.54	4.31	7.7	U	ND		Y
0.0	2.000	0.67	0.86	2.11	2.57	2.57	6.34	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.43	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.86	2.57	1.54	5.58	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.51	2.57	1.29	4.54	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.51	2.57	1.29	4.54	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.51	2.57	1.29	4.54	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.48	2.57	1.29	4.44	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.51	2.57	1.29	4.54	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.80	2.57	1.29	5.39	7.7	U	ND		Y

0.0	2.000	0.33	0.43	1.44	2.57	1.29	4.33	7.7	U	ND	Y
0.0	2.000	0.33	0.43	1.80	2.57	1.29	5.39	7.7	U	ND	Y
0.0	2.000	0.33	0.43	1.48	2.57	1.29	4.44	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.57	1.10	4.53	7.7	U	ND	Y
17.2	2.000	0.33	0.43	1.37	2.57	1.29	4.12	7.7	J	=	Y
0.0	2.000	0.33	0.43	1.48	2.57	1.29	4.44	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.57	1.10	4.53	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.57	1.10	4.53	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.57	1.10	4.53	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.48	2.57	1.10	4.44	7.7	U	ND	Y
0.0	2.000	0.33	0.43	1.80	2.57	1.29	5.39	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.57	1.10	4.53	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.48	2.57	1.10	4.44	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.39	2.57	1.10	4.16	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.57	0.96	4.44	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.40	2.57	0.96	4.20	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.40	2.57	0.96	4.20	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.37	2.57	0.96	4.12	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.40	2.57	0.96	4.20	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.48	2.57	0.86	4.43	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.50	2.57	0.86	4.51	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.22	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.22	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.57	0.77	4.31	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.22	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.22	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.22	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.22	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.57	0.77	4.31	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.22	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.50	2.57	0.77	4.50	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.22	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.38	2.57	0.86	4.15	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.57	0.77	4.31	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.41	2.57	0.77	4.24	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.41	2.57	0.77	4.24	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.41	2.57	0.77	4.24	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.41	2.57	0.77	4.24	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.41	2.57	0.77	4.24	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.41	2.57	0.77	4.24	7.7	U	ND	Y
0.0	2.000	0.18	0.23	1.50	2.57	0.70	4.49	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.41	2.57	0.77	4.24	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.41	2.57	0.77	4.24	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.35	2.57	0.77	4.05	7.7	U	ND	Y

0.0	2.000	0.17	0.21	1.50	2.57	0.64	4.49	7.7	U	ND	Y
%											Y
100.0	45.00	7.5	9.65	34.08	57.88	28.9	102.2	173.6	J	=	Y
100.0	45.00	45.0	57.88	37.95	57.88	173.6	113.9	173.6	J	=	Y
-32.4	45.00	5.9	7.62	31.21	57.88	22.8	93.6	173.6	U	ND	Y
-32.4	45.00	6.4	8.27	32.19	57.88	24.8	96.6	173.6	U	ND	Y
-32.4	45.00	3.0	3.86	31.31	57.88	11.6	93.9	173.6	U	ND	Y
-32.4	45.00	7.5	9.65	34.08	57.88	28.9	102.2	173.6	U	ND	Y
-32.4	45.00	6.4	8.27	31.22	57.88	24.8	93.7	173.6	U	ND	Y
-32.4	45.00	45.0	57.88	37.95	57.88	173.6	113.9	173.6	U	ND	Y
-32.4	45.00	3.5	4.45	32.30	57.88	13.4	96.9	173.6	U	ND	Y
-32.4	45.00	5.6	7.23	34.93	57.88	21.7	104.8	173.6	U	ND	Y
0.0	45.00	7.5	9.65	34.08	57.88	28.9	102.2	173.6	U	ND	Y
0.0	25.000	3.6	4.59	17.88	32.15	13.8	53.7	96.5	U	ND	Y
%											Y
5.7											Y
39.8											Y
0.0											Y
33.2											Y
0.0											Y
27.0											Y
0.0											Y
%											Y
100.0	5.000	2.5	3.22	3.97	6.43	9.6	11.9	19.3	U	ND	Y
0.0	5.000	1.7	2.14	3.87	6.43	6.4	11.6	19.3	U	ND	Y
0.0	25.000	6.3	8.04	19.15	32.15	24.1	57.4	96.5	U	ND	Y
0.0	25.000	5.0	6.43	19.02	32.15	19.3	57.0	96.5	U	ND	Y
0.0	25.000	4.2	5.36	18.93	32.15	16.1	56.8	96.5	U	ND	Y
0.0	25.000	3.6	4.59	18.86	32.15	13.8	56.6	96.5	U	ND	Y
0.0	25.000	3.1	4.02	18.81	32.15	12.1	56.4	96.5	U	ND	Y
0.0	25.000	2.8	3.57	18.78	32.15	10.7	56.3	96.5	U	ND	Y
0.0	25.000	2.5	3.22	18.75	32.15	9.6	56.3	96.5	U	ND	Y
0.0	25.000	2.3	2.92	18.72	32.15	8.8	56.2	96.5	U	ND	Y
0.0	25.000	2.1	2.68	18.70	32.15	8.0	56.1	96.5	U	ND	Y
0.0	25.000	2.1	2.68	18.70	32.15	8.0	56.1	96.5	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.29	3.80	7.72	3.9	11.4	23.2			Y
0.0	6.0	0.9	1.10	4.53	7.72	3.3	13.6	23.2			Y
0.0	6.0	0.7	0.86	4.51	7.72	2.6	13.5	23.2			Y
0.0	6.0	0.5	0.70	4.11	7.72	2.1	12.3	23.2			Y
0.0	6.0	0.7	0.86	4.01	7.72	2.6	12.0	23.2			Y
0.0	6.0	0.5	0.70	4.09	7.72	2.1	12.3	23.2			Y
0.0	2.0	0.3	0.43	1.51	2.57	1.3	4.5	7.7	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
3.2						3.15			
					0.0		0.00		
0.0						0.00			
		0.0				0.00			
					0.0				
					2.1		2.14		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		0.0				0.00			
					0.0		0.00		
					0.0				
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
					0.0				
			0.0						0.00
					0.0				
		0.0				0.00			
		0.0				0.00			
		0.0				0.00			
					0.0		0.00		
0.0						0.00			
					0.0				


0.0
0.0
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2.6
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0.0						0.00			
3.2	0.0	2.6	0.0	2.1	0.0	3.2	2.1	0.0	0.0

0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
		0.00
		0.00

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
	0.00				
	0.00				
	0.00				
				0.00	
				0.00	

0.00

0.00

2.63

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0.00

0.0	0.0	0.0	0.0	2.6	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**29**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.29	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = $\text{Sum}\left|\frac{(\text{Astdni})}{(\text{Cstdni})}\right|_i$

2) ppbC = $\frac{\text{6 Carbons} \quad \text{Ansamp} \quad \text{CDF} \quad 1000}{\text{(Avg RFn)} \quad \text{SV}} = \textbf{Cn}$

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = $\frac{(\text{amt(ppbv)} \quad \text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.16E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.16E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.16E+04	1922	3.2	1.58	1.94
Propene	3	TRG	4.5	2.16E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.16E+04	0	0.0	0.00	0.00
i-Butane	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.16E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.16E+04	1306	2.1	0.54	1.23
n-Butane	4	TRG	54.1	2.16E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.16E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.16E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.16E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.16E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.16E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.16E+04	1606	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.16E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.16E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.16E+04	0	2.6	0.44	1.40	
2-Methylheptane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.16E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.16E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.16E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.16E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.16E+04	85513	140.2	23.37	82.55	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.16E+04	85513	140.2	140.20	91.93	
Total Volatile Organic Compoun	8	TRG	100.0	2.16E+04	-27723	-45.5	-5.98	-24.51	
TPH (gasoline)	7	TRG	95.0	2.16E+04	-27723	-45.5	-6.49	-25.28	
TPH (diesel)	15	TRG	198.0	2.16E+04	-27723	-45.5	-3.03	-24.59	
TPH (hexane)	6	TRG	86.2	2.16E+04	-27723	-45.5	-7.58	-26.76	
TPH (toluene)	7	TRG	92.1	2.16E+04	-27723	-45.5	-6.49	-24.52	
TPH (methane)	1	TRG	16.0	2.16E+04	-27723	-45.5	-45.45	-29.80	
TPH (Jet A Fuel)	13	TRG	177.0	2.16E+04	-27723	-45.5	-3.50	-25.36	
TPH (Mineral Spirits)	8	TRG	117.8	2.16E+04	-27723	-45.5	-5.68	-27.43	
C6+ (hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.16E+04		7.9			Sum ID
Paraffins	P	TRG	0.0	2.16E+04		3.2			Sum P
Isoparaffins	I	TRG	0.0	2.16E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.16E+04		2.6			Sum A
Napthlenes	N	TRG	0.0	2.16E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.16E+04		2.1			Sum O
Oxygenates		TRG	0.0	2.16E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.16E+04	1922	3.2	1.58	1.94	
C3 (propane)	3	TRG	44.1	2.16E+04	0	0.0	0.00	0.00	
C4 (Butane)	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.16E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.16E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.16E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.16E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.16E+04	1922	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 30

File Name: 2510030A
Description: T-212
Canister: 502
QC_Batch: 040125-GCK

Date Sampled: 03/20/25 **Time:** 11:30
Date Analyzed: 04/01/25 **Time:** 14:40
Can Factor: 1.35
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.35	4.06	ND	1.56	4.68	ND	ND
74-86-2	Acetylene	1.35	4.06	ND	1.44	4.33	ND	ND
74-84-0	Ethane	1.35	4.06	ND	1.67	5.01	ND	ND
115-07-1	Propene	0.90	2.71	ND	1.56	4.67	ND	ND
74-98-6	Propane	0.90	2.71	ND	1.63	4.89	ND	ND
75-28-5	i-Butane	0.68	2.03	ND	1.61	4.84	ND	ND
106-98-9	1-Butene	0.68	2.03	ND	1.56	4.67	ND	ND
106-97-8	n-Butane	0.68	2.03	ND	1.61	4.84	ND	ND
624-64-6	t-2-Butene	0.68	2.03	1.84	1.56	4.67	4.24	J
590-18-1	c-2-Butene	0.68	2.03	ND	1.56	4.67	ND	ND
78-78-4	i-Pentane	0.54	1.62	ND	1.60	4.81	ND	ND
109-67-1	1-Pentene	0.54	1.62	ND	1.56	4.67	ND	ND
109-66-0	n-Pentane	0.54	1.62	ND	1.60	4.80	ND	ND
646-04-8	t-2-Pentene	0.54	1.62	ND	1.56	4.67	ND	ND
627-20-3	c-2-Pentene	0.54	1.62	ND	1.56	4.67	ND	ND
75-83-2	2,2-Dimethylbutane	0.45	1.35	ND	1.59	4.78	ND	ND
142-29-0	Cyclopentene	0.54	1.62	ND	1.51	4.53	ND	ND
287-92-3	Cyclopentane	0.54	1.62	ND	1.56	4.67	ND	ND
79-29-8	2,3-Dimethylbutane	0.45	1.35	ND	1.59	4.78	ND	ND
107-83-5	2-Methylpentane	0.45	1.35	ND	1.59	4.78	ND	ND
96-14-0	3-Methylpentane	0.45	1.35	ND	1.59	4.78	ND	ND
592-41-6	1-Hexene	0.45	1.35	ND	1.56	4.67	ND	ND
110-54-3	n-Hexane	0.45	1.35	ND	1.59	4.78	ND	ND
1120-62-3	3-Methylcyclopentene	0.45	1.35	ND	1.52	4.55	ND	ND
96-37-7	Methylcyclopentane	0.45	1.35	ND	1.56	4.67	ND	ND
108-08-7	2,4-Dimethylpentane	0.39	1.16	ND	1.59	4.76	ND	ND
71-43-2	Benzene	0.45	1.35	0.46	1.44	4.33	1.46	J
110-82-7	Cyclohexane	0.45	1.35	ND	1.56	4.67	ND	ND
591-76-4	2-Methylhexane	0.39	1.16	ND	1.59	4.76	ND	ND
565-59-3	2,3-Dimethylpentane	0.39	1.16	ND	1.59	4.76	ND	ND
589-34-4	3-Methylhexane	0.39	1.16	ND	1.59	4.76	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.34	1.02	ND	1.58	4.75	ND	ND
142-82-5	n-Heptane	0.39	1.16	ND	1.59	4.76	ND	ND
108-87-2	Methylcyclohexane	0.39	1.16	ND	1.56	4.67	ND	ND
592-13-2	2,5-Dimethylhexane	0.34	1.02	ND	1.58	4.75	ND	ND
589-43-5	2,4-Dimethylhexane	0.34	1.02	ND	1.58	4.75	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.34	1.02	ND	1.58	4.75	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.39	1.16	ND	1.46	4.38	ND	ND
584-94-1	2,3-Dimethylhexane	0.34	1.02	ND	1.58	4.75	ND	ND
592-27-8	2-Methylheptane	0.34	1.02	ND	1.58	4.75	ND	ND
589-53-7	4-Methylheptane	0.34	1.02	ND	1.58	4.75	ND	ND
589-81-1	3-Methylheptane	0.34	1.02	ND	1.58	4.75	ND	ND
111-65-9	n-Octane	0.34	1.02	ND	1.58	4.75	ND	ND
100-41-4	Ethylbenzene	0.34	1.02	ND	1.47	4.42	ND	ND
108-38-3	m,p-xylene	0.34	1.02	ND	1.47	4.42	ND	ND
100-42-5	Styrene	0.34	1.02	ND	1.45	4.34	ND	ND
95-47-6	o-xylene	0.34	1.02	ND	1.47	4.42	ND	ND
111-84-2	n-Nonane	0.30	0.90	ND	1.58	4.75	ND	ND
98-82-8	i-Propylbenzene	0.30	0.90	ND	1.48	4.45	ND	ND
103-65-1	n-propylbenzene	0.30	0.90	ND	1.48	4.45	ND	ND
620-14-4	3-Ethyltoluene	0.30	0.90	ND	1.48	4.45	ND	ND
622-96-8	4-Ethyltoluene	0.30	0.90	ND	1.48	4.45	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.30	0.90	ND	1.48	4.45	ND	ND
611-14-3	2-Ethyltoluene	0.30	0.90	ND	1.48	4.45	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.30	0.90	ND	1.48	4.45	ND	ND
124-18-5	n-Decane	0.27	0.81	ND	1.58	4.74	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.30	0.90	ND	1.48	4.45	ND	ND
141-93-5	1,3-Diethylbenzene	0.27	0.81	ND	1.49	4.47	ND	ND
105-05-5	1,4-Diethylbenzene	0.27	0.81	ND	1.49	4.47	ND	ND
104-51-8	n-Butylbenzene	0.27	0.81	ND	1.49	4.47	ND	ND
1120-21-4	Undecane	0.25	0.74	ND	1.58	4.73	ND	ND
91-20-3	Naphthalene	0.27	0.81	ND	1.42	4.27	ND	ND
112-40-3	Dodecane	0.23	0.68	ND	1.57	4.72	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	10.15	30.46	26.48	35.87	107.60	93.55	J
TNMHC - C1	Total Non-Methane Hydrocarbons	60.92	182.75	158.88	39.95	119.84	104.19	J

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **30**
File Name: **2510030A**
Sample ID: **T-212**
Sampled: **3/20/2025**
Received: **03/21/25**
Analyzed: **04/01/25**
QCBatch: **040125-GCK**
Can: **502**
Can Factor: **1.35**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **11:30** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **14:40** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **390567**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C5 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.11	**4.05**		NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.15			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.22**	1485	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.13**		I	I	H	288	290
74-98-6	Propane	P	5.20	**5.20**	**5.25**		I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.65**						128	351
67-56-1	Methanol		8.30	8.35						128	401
106-98-9	1-Butene	P	7.29	7.34	**7.30**	1472	I	I	H	367	367
106-99-0	1,3-Butadiene		**7.48**	7.53						128	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.31**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.72	**8.64**	4272	I	I	H	408	410
590-18-1	c-2-Butene	P	9.63	9.60						201	431
64-17-5	Ethanol		10.85	10.85						201	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.05						201	465
67-64-1	Acetone		11.52	11.52						201	476
78-78-4	i-Pentane	P	11.37	11.37	**11.39**		I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.30						201	495
67-63-0	Isopropanol		12.65	12.65						201	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.36						201	497
109-66-0	n-Pentane	P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.55						162	503
646-04-8	t-2-Pentene	P	12.79	12.79						162	510
627-20-3	c-2-Pentene	P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.55						280	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.62						280	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.77	**13.79**		I	I	H	536	537
142-29-0	Cyclopentene	15	**14.61**	14.61						162	551
71-23-8	n-Propanol		**14.75**	14.75						162	558
287-92-3	Cyclopentane	P	14.88	14.88	**14.92**		I	I	H	566	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.06						162	570
107-83-5	2-Methylpentane	P	15.08	15.08	**15.08**		I	I	H	570	571
96-14-0	3-Methylpentane	P	15.55	15.55	**15.61**		I	I	H	585	583
592-41-6	1-Hexene	P	**15.80**	15.80						162	590
110-54-3	n-Hexane	P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						262	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86	**16.87**		I	I	H	621	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05	**16.99**		I	I	H	625	626
71-43-2	Benzene		P	17.87	**17.87**	**17.91**	1588	I	I	H	653	651
110-82-7	Cyclohexane		P	18.14	18.18	**18.15**		I	I	H	661	658
591-76-4	2-Methylhexane		P	18.38	18.42						104	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.49	**18.46**		I	I	H	670	671
589-34-4	3-Methylhexane		P	18.66	18.70	**18.68**		I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.79						104	687
994-05-8	Tert amyl methyl ether			**18.80**	18.84						104	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.13	**19.10**		I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.45	**19.43**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.13	**20.11**		I	I	H	723	722
592-13-2	2,5-Dimethylhexane			20.35	20.39						32	734
589-43-5	2,4-Dimethylhexane			20.43	20.47	**20.46**		I	I	H	735	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.97	**20.95**		I	I	H	752	753
108-88-3	Toluene		P	21.12	**21.16**	**21.11**		I	I	H	758	758
584-94-1	2,3-Dimethylhexane			21.20	21.19	**21.22**		I	I	H	762	763
592-27-8	2-Methylheptane		P	21.33	21.32						32	768
589-53-7	4-Methylheptane	48		**21.48**	21.47						32	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.49						32	772
589-81-1	3-Methylheptane		p	21.55	21.54						32	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.09						32	786
111-65-9	n-Octane		P	22.27	22.26	**22.34**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.74						-63	855
108-38-3	m,p-xylene		P	23.95	23.94						-63	863
100-42-5	Styrene		P	24.40	24.39						-63	881
95-47-6	o-xylene		P	24.57	24.56						-63	886
124-11-8	1-Nonene	64		24.60	24.59						-63	889
111-84-2	n-Nonane		P	24.87	24.86	**24.93**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.35						-163	919
103-65-1	n-propylbenzene		P	25.93	25.92						-163	947
80-56-8	a-Pinene			26.09	26.08						-163	950
620-14-4	3-Ethyltoluene		P	26.17	26.16						-163	957
622-96-8	4-Ethyltoluene		P	26.26	26.25						-163	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.44						-163	964
611-14-3	2-Ethyltoluene		P	26.61	26.60						-163	975
127-91-3	b-Pinene			26.80	26.79						-163	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.07						-163	991
124-18-5	n-Decane		P	27.26	27.25	**27.28**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.54						-59	1014
496-11-7	Indan	81		27.55	27.54						-59	1020
5989-27-5	d-Limonene			27.65	27.64						-59	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.09						-59	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.22						-59	1037
104-51-8	n-Butylbenzene			28.45	28.44						-59	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.59						-59	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.74						-59	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.82						-59	1060
1120-21-4	Undecane		P	29.86	3.41	**29.85**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.44						-35	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.49						-35	1124
91-20-3	Naphthalene		32.25	32.24						-35	1193
112-40-3	Dodecane	P	32.46	6.01	**32.48**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					221953		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					92072		23207			
TNMHC - C1	Total Non-Methane Hydrocarbons					92072		32138			
TVOC	Total Volatile Organic Compounds					92072		31633			
TPH(g)	TPH (gasoline)					92072		28274			
TPH(d)	TPH (diesel)					92072		14629			
TPH(h)	TPH (hexane)					92072		0			
TPH(t)	TPH (toluene)					92072		0			
TPHC	TPH (methane)					92072		0			
TPH(Jet A)	TPH (Jet A Fuel)					92072		**129881**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					92072					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			1485		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			0		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**1485**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040125-GCK		
Hexane Std Area:	390567		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.35	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.35		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	2.56	1.28	1.58	ND	ND	ND	0	
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	2.54	0.64	1.46	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	7.37	1.84	4.24	7.37	1.84	4.24	4.24	4.24
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	2.74	0.46	1.46	2.74	0.46	1.46	1.46	1.46
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	158.88	26.5	93.6	158.88	26.48	93.55	93.55	93.55
Total Non-Methane Hydrocarbons	16	1.0	158.88	158.9	104.2	158.88	158.88	104.19	104.19	104.19
Total Volatile Organic Compounds	100	7.6	158.88	20.9	85.7	158.88	20.91	85.68	85.68	85.68
TPH (gasoline)	95	7.0	158.88	22.7	88.4	158.88	22.70	88.37	88.37	88.37
TPH (diesel)	198	15.0	158.88	10.6	86.0	158.88	10.59	85.95	85.95	85.95
TPH (hexane)	86.2	6.0	158.88	26.5	93.6	158.88	26.48	93.55	93.55	93.55
TPH (toluene)	92.14	7.0	158.88	22.7	85.7	158.88	22.70	85.71	85.71	85.71
TPH (methane)	16	1.0	158.88	158.9	104.2	158.88	158.88	104.19	104.19	104.19
TPH (Jet A Fuel)	177	13.0	158.88	12.2	88.7	158.88	12.22	88.66	88.66	88.66
TPH (Mineral Spirits)	117.81	8.0	158.88	19.9	95.9	158.88	19.86	95.89	95.89	95.89
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			15.2	4.2						
Paraffins			2.6							
Isoparaffins			0.0							
Aromatics			2.7							
Napthlenes			0.0							
Olefins			9.9							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	2.56	1.28	1.58	ND	ND	ND	0	
C3 (propane)	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			2.6							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	2.6	16.8
Alkenes	9.9	65.1
Alkynes	0.0	0.0
Cycloalkanes	0.0	0.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	2.7	18.0
Terpenes	0.0	0.0

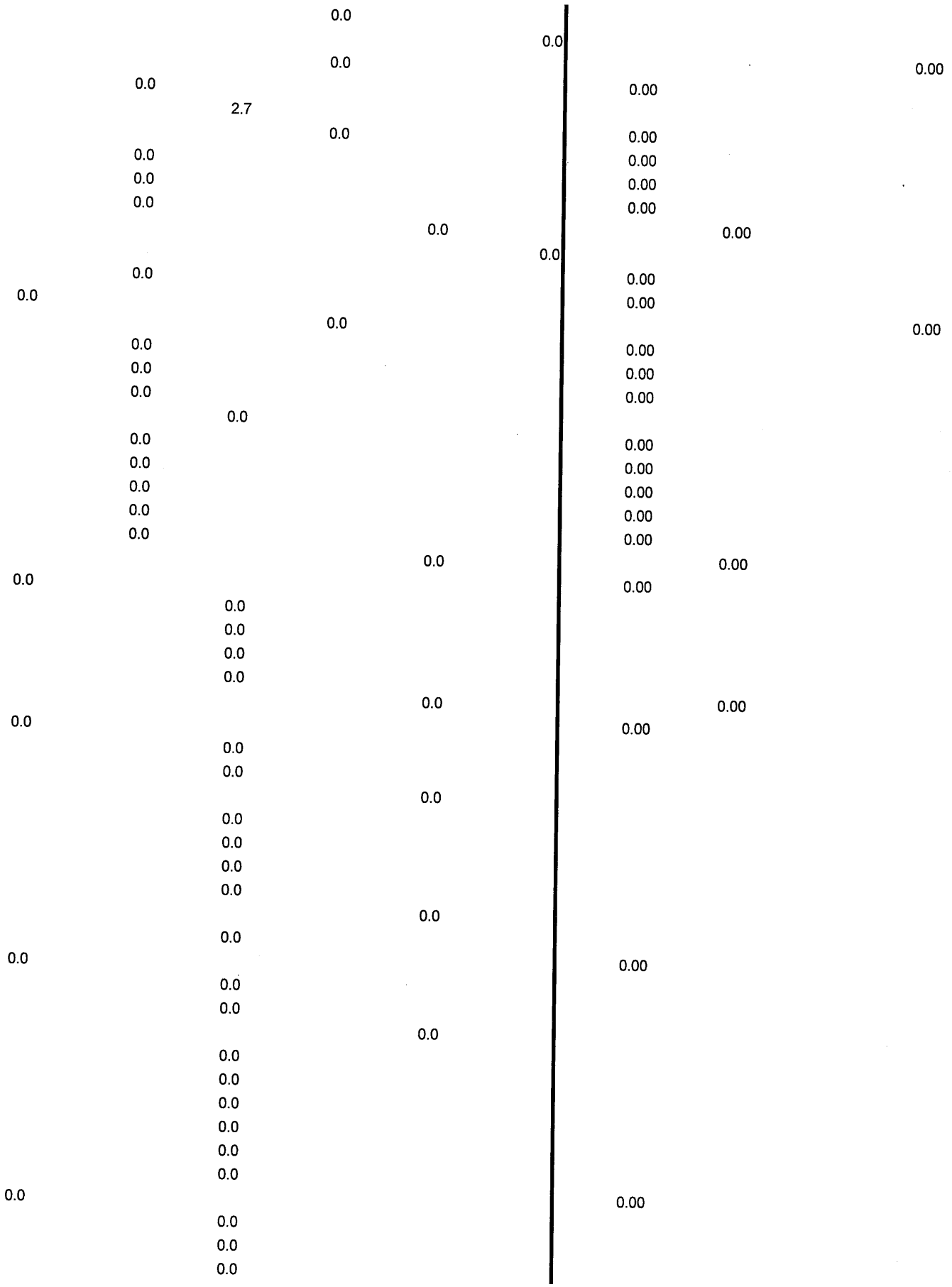
SDG: **225100**
Laboratory Number: **30**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
0.0	2.000	1.00	1.35	1.56	2.71	4.06	4.68	8.1	U	ND		Y
0.0	2.000	1.00	1.35	1.44	2.71	4.06	4.33	8.1	U	ND		Y
30.4	2.000	1.00	1.35	1.67	2.71	4.06	5.01	8.1	U	ND		Y
0.0	2.000	0.67	0.90	1.56	2.71	2.71	4.67	8.1	U	ND		Y
0.0	2.000	0.67	0.90	1.63	2.71	2.71	4.89	8.1	U	ND		Y
0.0	2.000	0.50	0.68	1.61	2.71	2.03	4.84	8.1	U	ND		Y
0.0	2.000	2.00	2.71	3.55	2.71	8.12	10.65	8.1	U	ND		Y
15.1	2.000	0.50	0.68	1.56	2.71	2.03	4.67	8.1	U	ND		Y
0.0	2.000	0.50	0.68	1.50	2.71	2.03	4.50	8.1	U	ND		Y
0.0	2.000	0.50	0.68	1.61	2.71	2.03	4.84	8.1	U	ND		Y
43.7	2.000	0.50	0.68	1.56	2.71	2.03	4.67	8.1	J	=		Y
0.0	2.000	0.50	0.68	1.56	2.71	2.03	4.67	8.1	U	ND		Y
0.0	2.000	1.00	1.35	2.56	2.71	4.06	7.67	8.1	U	ND		Y
0.0	2.000	0.40	0.54	1.56	2.71	1.62	4.67	8.1	U	ND		Y
0.0	2.000	0.67	0.90	2.15	2.71	2.71	6.45	8.1	U	ND		Y
0.0	2.000	0.40	0.54	1.60	2.71	1.62	4.81	8.1	U	ND		Y
0.0	2.000	0.40	0.54	1.56	2.71	1.62	4.67	8.1	U	ND		Y
0.0	2.000	0.67	0.90	2.22	2.71	2.71	6.67	8.1	U	ND		Y
0.0	2.000	0.40	0.54	1.56	2.71	1.62	4.67	8.1	U	ND		Y
0.0	2.000	0.40	0.54	1.60	2.71	1.62	4.80	8.1	U	ND		Y
0.0	2.000	0.40	0.54	1.51	2.71	1.62	4.53	8.1	U	ND		Y
0.0	2.000	0.40	0.54	1.56	2.71	1.62	4.67	8.1	U	ND		Y
0.0	2.000	0.40	0.54	1.56	2.71	1.62	4.67	8.1	U	ND		Y
0.0	2.000	0.50	0.68	2.06	2.71	2.03	6.17	8.1	U	ND		Y
0.0	2.000	0.40	0.54	1.56	2.71	1.62	4.67	8.1	U	ND		Y
0.0	2.000	0.33	0.45	1.59	2.71	1.35	4.78	8.1	U	ND		Y
0.0	2.000	0.40	0.54	1.51	2.71	1.62	4.53	8.1	U	ND		Y
0.0	2.000	0.67	0.90	2.22	2.71	2.71	6.67	8.1	U	ND		Y
0.0	2.000	0.40	0.54	1.56	2.71	1.62	4.67	8.1	U	ND		Y
0.0	2.000	0.40	0.54	1.96	2.71	1.62	5.87	8.1	U	ND		Y
0.0	2.000	0.33	0.45	1.59	2.71	1.35	4.78	8.1	U	ND		Y
0.0	2.000	0.33	0.45	1.59	2.71	1.35	4.78	8.1	U	ND		Y
0.0	2.000	0.33	0.45	1.59	2.71	1.35	4.78	8.1	U	ND		Y
0.0	2.000	0.33	0.45	1.56	2.71	1.35	4.67	8.1	U	ND		Y
0.0	2.000	0.33	0.45	1.59	2.71	1.35	4.78	8.1	U	ND		Y
0.0	2.000	0.33	0.45	1.89	2.71	1.35	5.67	8.1	U	ND		Y

0.0	2.000	0.33	0.45	1.52	2.71	1.35	4.55	8.1	U	ND	Y
0.0	2.000	0.33	0.45	1.89	2.71	1.35	5.67	8.1	U	ND	Y
0.0	2.000	0.33	0.45	1.56	2.71	1.35	4.67	8.1	U	ND	Y
0.0	2.000	0.29	0.39	1.59	2.71	1.16	4.76	8.1	U	ND	Y
10.8	2.000	0.33	0.45	1.44	2.71	1.35	4.33	8.1	J	=	Y
0.0	2.000	0.33	0.45	1.56	2.71	1.35	4.67	8.1	U	ND	Y
0.0	2.000	0.29	0.39	1.59	2.71	1.16	4.76	8.1	U	ND	Y
0.0	2.000	0.29	0.39	1.59	2.71	1.16	4.76	8.1	U	ND	Y
0.0	2.000	0.29	0.39	1.59	2.71	1.16	4.76	8.1	U	ND	Y
0.0	2.000	0.29	0.39	1.56	2.71	1.16	4.67	8.1	U	ND	Y
0.0	2.000	0.33	0.45	1.89	2.71	1.35	5.67	8.1	U	ND	Y
0.0	2.000	0.25	0.34	1.58	2.71	1.02	4.75	8.1	U	ND	Y
0.0	2.000	0.29	0.39	1.59	2.71	1.16	4.76	8.1	U	ND	Y
0.0	2.000	0.29	0.39	1.56	2.71	1.16	4.67	8.1	U	ND	Y
0.0	2.000	0.25	0.34	1.58	2.71	1.02	4.75	8.1	U	ND	Y
0.0	2.000	0.25	0.34	1.58	2.71	1.02	4.75	8.1	U	ND	Y
0.0	2.000	0.25	0.34	1.58	2.71	1.02	4.75	8.1	U	ND	Y
0.0	2.000	0.29	0.39	1.46	2.71	1.16	4.38	8.1	U	ND	Y
0.0	2.000	0.25	0.34	1.58	2.71	1.02	4.75	8.1	U	ND	Y
0.0	2.000	0.25	0.34	1.58	2.71	1.02	4.75	8.1	U	ND	Y
0.0	2.000	0.25	0.34	1.58	2.71	1.02	4.75	8.1	U	ND	Y
0.0	2.000	0.25	0.34	1.58	2.71	1.02	4.75	8.1	U	ND	Y
0.0	2.000	0.25	0.34	1.58	2.71	1.02	4.75	8.1	U	ND	Y
0.0	2.000	0.25	0.34	1.56	2.71	1.02	4.67	8.1	U	ND	Y
0.0	2.000	0.25	0.34	1.58	2.71	1.02	4.75	8.1	U	ND	Y
0.0	2.000	0.25	0.34	1.47	2.71	1.02	4.42	8.1	U	ND	Y
0.0	2.000	0.25	0.34	1.47	2.71	1.02	4.42	8.1	U	ND	Y
0.0	2.000	0.25	0.34	1.45	2.71	1.02	4.34	8.1	U	ND	Y
0.0	2.000	0.25	0.34	1.47	2.71	1.02	4.42	8.1	U	ND	Y
0.0	2.000	0.22	0.30	1.56	2.71	0.90	4.67	8.1	U	ND	Y
0.0	2.000	0.22	0.30	1.58	2.71	0.90	4.75	8.1	U	ND	Y
0.0	2.000	0.22	0.30	1.48	2.71	0.90	4.45	8.1	U	ND	Y
0.0	2.000	0.22	0.30	1.48	2.71	0.90	4.45	8.1	U	ND	Y
0.0	2.000	0.20	0.27	1.51	2.71	0.81	4.53	8.1	U	ND	Y
0.0	2.000	0.22	0.30	1.48	2.71	0.90	4.45	8.1	U	ND	Y
0.0	2.000	0.22	0.30	1.48	2.71	0.90	4.45	8.1	U	ND	Y
0.0	2.000	0.22	0.30	1.48	2.71	0.90	4.45	8.1	U	ND	Y
0.0	2.000	0.22	0.30	1.48	2.71	0.90	4.45	8.1	U	ND	Y
0.0	2.000	0.20	0.27	1.51	2.71	0.81	4.53	8.1	U	ND	Y
0.0	2.000	0.22	0.30	1.48	2.71	0.90	4.45	8.1	U	ND	Y
0.0	2.000	0.20	0.27	1.58	2.71	0.81	4.74	8.1	U	ND	Y
0.0	2.000	0.22	0.30	1.48	2.71	0.90	4.45	8.1	U	ND	Y
0.0	2.000	0.22	0.30	1.46	2.71	0.90	4.37	8.1	U	ND	Y
0.0	2.000	0.20	0.27	1.51	2.71	0.81	4.53	8.1	U	ND	Y
0.0	2.000	0.20	0.27	1.49	2.71	0.81	4.47	8.1	U	ND	Y
0.0	2.000	0.20	0.27	1.49	2.71	0.81	4.47	8.1	U	ND	Y
0.0	2.000	0.20	0.27	1.49	2.71	0.81	4.47	8.1	U	ND	Y
0.0	2.000	0.20	0.27	1.49	2.71	0.81	4.47	8.1	U	ND	Y
0.0	2.000	0.20	0.27	1.49	2.71	0.81	4.47	8.1	U	ND	Y
0.0	2.000	0.20	0.27	1.49	2.71	0.81	4.47	8.1	U	ND	Y
0.0	2.000	0.18	0.25	1.58	2.71	0.74	4.73	8.1	U	ND	Y
0.0	2.000	0.20	0.27	1.49	2.71	0.81	4.47	8.1	U	ND	Y
0.0	2.000	0.20	0.27	1.49	2.71	0.81	4.47	8.1	U	ND	Y
0.0	2.000	0.20	0.27	1.42	2.71	0.81	4.27	8.1	U	ND	Y

0.0	2.000	0.17	0.23	1.57	2.71	0.68	4.72	8.1	U	ND	Y
%											Y
100.0	45.00	7.5	10.15	35.87	60.92	30.5	107.6	182.8	J	=	Y
100.0	45.00	45.0	60.92	39.95	60.92	182.8	119.8	182.8	J	=	Y
100.0	45.00	5.9	8.02	32.85	60.92	24.0	98.5	182.8	J	=	Y
100.0	45.00	6.4	8.70	33.88	60.92	26.1	101.6	182.8	J	=	Y
100.0	45.00	3.0	4.06	32.96	60.92	12.2	98.9	182.8	J	=	Y
100.0	45.00	7.5	10.15	35.87	60.92	30.5	107.6	182.8	J	=	Y
100.0	45.00	6.4	8.70	32.86	60.92	26.1	98.6	182.8	J	=	Y
100.0	45.00	45.0	60.92	39.95	60.92	182.8	119.8	182.8	J	=	Y
100.0	45.00	3.5	4.69	33.99	60.92	14.1	102.0	182.8	J	=	Y
100.0	45.00	5.6	7.61	36.77	60.92	22.8	110.3	182.8	J	=	Y
0.0	45.00	7.5	10.15	35.87	60.92	30.5	107.6	182.8	U	ND	Y
0.0	25.000	3.6	4.83	18.82	33.84	14.5	56.5	101.5	U	ND	Y
%											Y
9.6											Y
16.8											Y
0.0											Y
18.0											Y
0.0											Y
65.1											Y
0.0											Y
%											Y
100.0	5.000	2.5	3.38	4.17	6.77	10.2	12.5	20.3	U	ND	Y
0.0	5.000	1.7	2.26	4.08	6.77	6.8	12.2	20.3	U	ND	Y
0.0	25.000	6.3	8.46	20.15	33.84	25.4	60.5	101.5	U	ND	Y
0.0	25.000	5.0	6.77	20.01	33.84	20.3	60.0	101.5	U	ND	Y
0.0	25.000	4.2	5.64	19.93	33.84	16.9	59.8	101.5	U	ND	Y
0.0	25.000	3.6	4.83	19.85	33.84	14.5	59.6	101.5	U	ND	Y
0.0	25.000	3.1	4.23	19.80	33.84	12.7	59.4	101.5	U	ND	Y
0.0	25.000	2.8	3.76	19.77	33.84	11.3	59.3	101.5	U	ND	Y
0.0	25.000	2.5	3.38	19.74	33.84	10.2	59.2	101.5	U	ND	Y
0.0	25.000	2.3	3.08	19.71	33.84	9.2	59.1	101.5	U	ND	Y
0.0	25.000	2.1	2.82	19.68	33.84	8.5	59.1	101.5	U	ND	Y
0.0	25.000	2.1	2.82	19.68	33.84	8.5	59.1	101.5	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.35	4.00	8.12	4.1	12.0	24.4			Y
0.0	6.0	0.9	1.16	4.76	8.12	3.5	14.3	24.4			Y
0.0	6.0	0.7	0.90	4.75	8.12	2.7	14.2	24.4			Y
0.0	6.0	0.5	0.74	4.32	8.12	2.2	13.0	24.4			Y
0.0	6.0	0.7	0.90	4.22	8.12	2.7	12.7	24.4			Y
0.0	6.0	0.5	0.74	4.31	8.12	2.2	12.9	24.4			Y
0.0	2.0	0.3	0.45	1.59	2.71	1.4	4.8	8.1	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
2.6						2.56			
					0.0		0.00		
0.0						0.00			
		0.0				0.00			
						0.0			
					2.5		2.54		
					0.0		0.00		
0.0						0.00			
					7.4		7.37		
					0.0		0.00		
						0.0			
					0.0		0.00		
						0.0			
		0.0				0.00			
					0.0		0.00		
						0.0			
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
						0.0			
			0.0						0.00
						0.0			
		0.0				0.00			
		0.0				0.00			
		0.0				0.00			
					0.0		0.00		
0.0						0.00			
						0.0			


0.0
0.0
0.0
0.0
2.7
0.0
0.0
0.0

0.0						0.00			
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0.00	0.00		
0.00	0.00		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
0.00					
0.00					
	0.00				
0.00					
0.00					
0.00					
			0.00		
			0.00		

0.00

0.00

2.74

0.00

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0.00

0.00
0.00
0.00

0.0	0.0	0.0	0.0	2.7	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**30**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.35	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum |(Astdni) / (Cstdni)|$_i$

2) ppbC = $\frac{6 \text{ Carbons}}{\text{(Avg RFn)}} \times \frac{\text{Ansamp}}{\text{SV}} \times \text{CDF} \times 1000 = \textbf{Cn}$

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = (amt(ppbv) $\times \frac{\text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.16E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.16E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.16E+04	1485	2.6	1.28	1.58
Propene	3	TRG	4.5	2.16E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.16E+04	0	0.0	0.00	0.00
i-Butane	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.16E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.16E+04	1472	2.5	0.64	1.46
n-Butane	4	TRG	54.1	2.16E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.16E+04	4272	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.16E+04	0	7.4	1.84	4.24
Ethanol	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.16E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.16E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.16E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.16E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.16E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.16E+04	1588	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.16E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.16E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.16E+04	0	2.7	0.46	1.46	
2-Methylheptane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.16E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.16E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.16E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.16E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.16E+04	92072	158.9	26.48	93.55	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.16E+04	92072	158.9	158.88	104.19	
Total Volatile Organic Compoun	8	TRG	100.0	2.16E+04	92072	158.9	20.91	85.68	
TPH (gasoline)	7	TRG	95.0	2.16E+04	92072	158.9	22.70	88.37	
TPH (diesel)	15	TRG	198.0	2.16E+04	92072	158.9	10.59	85.95	
TPH (hexane)	6	TRG	86.2	2.16E+04	92072	158.9	26.48	93.55	
TPH (toluene)	7	TRG	92.1	2.16E+04	92072	158.9	22.70	85.71	
TPH (methane)	1	TRG	16.0	2.16E+04	92072	158.9	158.88	104.19	
TPH (Jet A Fuel)	13	TRG	177.0	2.16E+04	92072	158.9	12.22	88.66	
TPH (Mineral Spirits)	8	TRG	117.8	2.16E+04	92072	158.9	19.86	95.89	
C6+ (hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.16E+04		15.2			Sum ID
Paraffins	P	TRG	0.0	2.16E+04		2.6			Sum P
Isoparaffins	I	TRG	0.0	2.16E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.16E+04		2.7			Sum A
Napthlenes	N	TRG	0.0	2.16E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.16E+04		9.9			Sum O
Oxygenates		TRG	0.0	2.16E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.16E+04	1485	2.6	1.28	1.58	
C3 (propane)	3	TRG	44.1	2.16E+04	0	0.0	0.00	0.00	
C4 (Butane)	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.16E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.16E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.16E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.16E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.16E+04	1485	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 31

File Name: 2510031A
Description: T-213
Canister: 712
QC_Batch: 040125-GCK

Date Sampled: 03/20/25 **Time:** 11:30
Date Analyzed: 04/01/25 **Time:** 15:27
Can Factor: 1.33
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.33	4.00	ND	1.54	4.61	ND	ND
74-86-2	Acetylene	1.33	4.00	ND	1.42	4.27	ND	ND
74-84-0	Ethane	1.33	4.00	1.93	1.65	4.94	2.38	J
115-07-1	Propene	0.89	2.67	ND	1.54	4.61	ND	ND
74-98-6	Propane	0.89	2.67	ND	1.61	4.83	ND	ND
75-28-5	i-Butane	0.67	2.00	ND	1.59	4.77	ND	ND
106-98-9	1-Butene	0.67	2.00	1.56	1.53	4.60	3.58	J
106-97-8	n-Butane	0.67	2.00	ND	1.59	4.77	ND	ND
624-64-6	t-2-Butene	0.67	2.00	ND	1.53	4.60	ND	ND
590-18-1	c-2-Butene	0.67	2.00	ND	1.53	4.60	ND	ND
78-78-4	i-Pentane	0.53	1.60	ND	1.58	4.74	ND	ND
109-67-1	1-Pentene	0.53	1.60	ND	1.53	4.60	ND	ND
109-66-0	n-Pentane	0.53	1.60	ND	1.58	4.73	ND	ND
646-04-8	t-2-Pentene	0.53	1.60	ND	1.53	4.60	ND	ND
627-20-3	c-2-Pentene	0.53	1.60	ND	1.53	4.60	ND	ND
75-83-2	2,2-Dimethylbutane	0.44	1.33	ND	1.57	4.72	ND	ND
142-29-0	Cyclopentene	0.53	1.60	ND	1.49	4.47	ND	ND
287-92-3	Cyclopentane	0.53	1.60	ND	1.53	4.60	ND	ND
79-29-8	2,3-Dimethylbutane	0.44	1.33	ND	1.57	4.72	ND	ND
107-83-5	2-Methylpentane	0.44	1.33	ND	1.57	4.72	ND	ND
96-14-0	3-Methylpentane	0.44	1.33	ND	1.57	4.72	ND	ND
592-41-6	1-Hexene	0.44	1.33	ND	1.54	4.61	ND	ND
110-54-3	n-Hexane	0.44	1.33	ND	1.57	4.72	ND	ND
1120-62-3	3-Methylcyclopentene	0.44	1.33	ND	1.50	4.49	ND	ND
96-37-7	Methylcyclopentane	0.44	1.33	ND	1.54	4.61	ND	ND
108-08-7	2,4-Dimethylpentane	0.38	1.14	ND	1.57	4.70	ND	ND
71-43-2	Benzene	0.44	1.33	0.68	1.42	4.27	2.16	J
110-82-7	Cyclohexane	0.44	1.33	ND	1.54	4.61	ND	ND
591-76-4	2-Methylhexane	0.38	1.14	ND	1.57	4.70	ND	ND
565-59-3	2,3-Dimethylpentane	0.38	1.14	ND	1.57	4.70	ND	ND
589-34-4	3-Methylhexane	0.38	1.14	ND	1.57	4.70	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.33	1.00	ND	1.56	4.69	ND	ND
142-82-5	n-Heptane	0.38	1.14	ND	1.57	4.70	ND	ND
108-87-2	Methylcyclohexane	0.38	1.14	ND	1.53	4.60	ND	ND
592-13-2	2,5-Dimethylhexane	0.33	1.00	ND	1.56	4.69	ND	ND
589-43-5	2,4-Dimethylhexane	0.33	1.00	ND	1.56	4.69	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.33	1.00	ND	1.56	4.69	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.38	1.14	ND	1.44	4.32	ND	ND
584-94-1	2,3-Dimethylhexane	0.33	1.00	ND	1.56	4.69	ND	ND
592-27-8	2-Methylheptane	0.33	1.00	ND	1.56	4.69	ND	ND
589-53-7	4-Methylheptane	0.33	1.00	ND	1.56	4.69	ND	ND
589-81-1	3-Methylheptane	0.33	1.00	ND	1.56	4.69	ND	ND
111-65-9	n-Octane	0.33	1.00	ND	1.56	4.69	ND	ND
100-41-4	Ethylbenzene	0.33	1.00	ND	1.45	4.36	ND	ND
108-38-3	m,p-xylene	0.33	1.00	ND	1.45	4.36	ND	ND
100-42-5	Styrene	0.33	1.00	ND	1.43	4.28	ND	ND
95-47-6	o-xylene	0.33	1.00	ND	1.45	4.36	ND	ND
111-84-2	n-Nonane	0.30	0.89	ND	1.56	4.68	ND	ND
98-82-8	i-Propylbenzene	0.30	0.89	ND	1.46	4.38	ND	ND
103-65-1	n-propylbenzene	0.30	0.89	ND	1.46	4.38	ND	ND
620-14-4	3-Ethyltoluene	0.30	0.89	ND	1.46	4.38	ND	ND
622-96-8	4-Ethyltoluene	0.30	0.89	ND	1.46	4.38	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.30	0.89	ND	1.46	4.38	ND	ND
611-14-3	2-Ethyltoluene	0.30	0.89	ND	1.46	4.38	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.30	0.89	ND	1.46	4.38	ND	ND
124-18-5	n-Decane	0.27	0.80	ND	1.56	4.67	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.30	0.89	ND	1.46	4.38	ND	ND
141-93-5	1,3-Diethylbenzene	0.27	0.80	ND	1.47	4.40	ND	ND
105-05-5	1,4-Diethylbenzene	0.27	0.80	ND	1.47	4.40	ND	ND
104-51-8	n-Butylbenzene	0.27	0.80	ND	1.47	4.40	ND	ND
1120-21-4	Undecane	0.24	0.73	ND	1.55	4.66	ND	ND
91-20-3	Naphthalene	0.27	0.80	ND	1.40	4.21	ND	ND
112-40-3	Dodecane	0.22	0.67	ND	1.55	4.66	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	10.01	30.03	25.65	35.37	106.10	90.63	J
TNMHC - C1	Total Non-Methane Hydrocarbons	60.07	180.20	153.93	39.39	118.16	100.94	J

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **31**
File Name: **2510031A**
Sample ID: **T-213**
Sampled: **3/20/2025**
Received: **03/21/25**
Analyzed: **04/01/25**
QCBatch: **040125-GCK**
Can: **712**
Can Factor: **1.33**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **11:30** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **15:27** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **390567**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C5 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene		P	4.06	4.11	**4.12**	741	NA	NA	NA		
74-86-2	Acetylene		P	4.10	4.15			NA	NA	NA		
74-84-0	Ethane		P	4.17	**4.17**	**4.22**	2268	I	I	H	200	200
115-07-1	Propene		P	5.11	5.11	**5.13**		I	I	H	288	290
74-98-6	Propane		P	5.20	**5.20**	**5.25**	1456	I	I	H	300	300
75-28-5	i-Butane		P	6.60	**6.65**						128	351
67-56-1	Methanol			8.30	8.35						128	401
106-98-9	1-Butene		P	7.29	7.34	**7.30**	3662	I	I	H	367	367
106-99-0	1,3-Butadiene			**7.48**	7.53						128	373
106-97-8	n-Butane		P	8.34	**8.34**	**8.31**		I	I	H	400	400
624-64-6	t-2-Butene		P	8.75	8.72						201	410
590-18-1	c-2-Butene		P	9.63	9.60						201	431
64-17-5	Ethanol			10.85	10.85						201	461
563-45-1	3-Methyl-1-butene	6		**11.05**	11.05						201	465
67-64-1	Acetone			11.52	11.52						201	476
78-78-4	i-Pentane		P	11.37	11.37						201	473
109-67-1	1-Pentene		P	12.30	12.30						201	495
67-63-0	Isopropanol			12.65	12.65						201	504
563-46-2	2-Methyl-1-butene	9		**12.36**	12.36						201	497
109-66-0	n-Pentane		P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene		P	12.55	12.55						162	503
646-04-8	t-2-Pentene		P	12.79	12.79						162	510
627-20-3	c-2-Pentene		P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol			**13.55**	13.55						280	526
513-35-9	2-Methyl-2-butene	13		**13.62**	13.62						280	520
75-83-2	2,2-Dimethylbutane		P	13.77	13.77						162	537
142-29-0	Cyclopentene	15		**14.61**	14.61						162	551
71-23-8	n-Propanol			**14.75**	14.75						162	558
287-92-3	Cyclopentane		P	14.88	14.88						162	567
1634-04-4	Methyl tert butyl ether			**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane		P	15.06	15.06						162	570
107-83-5	2-Methylpentane		P	15.08	15.08						162	571
96-14-0	3-Methylpentane		P	15.55	15.55						162	583
592-41-6	1-Hexene		P	**15.80**	15.80						162	590
110-54-3	n-Hexane		P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether			**16.30**	16.30						262	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86	**16.87**		I	I	H	621	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05	**16.99**		I	I	H	625	626
71-43-2	Benzene		P	17.87	**17.87**	**17.90**	2384	I	I	H	653	651
110-82-7	Cyclohexane		P	18.14	18.17	**18.15**		I	I	H	661	658
591-76-4	2-Methylhexane		P	18.38	18.41						104	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.48	**18.46**		I	I	H	670	671
589-34-4	3-Methylhexane		P	18.66	18.69	**18.68**		I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.78						104	687
994-05-8	Tert amyl methyl ether			**18.80**	18.83						104	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.12	**19.10**		I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.44	**19.43**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.12	**20.11**		I	I	H	723	722
592-13-2	2,5-Dimethylhexane			20.35	20.38						32	734
589-43-5	2,4-Dimethylhexane			20.43	20.46	**20.46**		I	I	H	735	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.96	**20.95**		I	I	H	752	753
108-88-3	Toluene		P	21.12	**21.15**	**21.11**		I	I	H	758	758
584-94-1	2,3-Dimethylhexane			21.20	21.19	**21.22**		I	I	H	762	763
592-27-8	2-Methylheptane		P	21.33	21.32						32	768
589-53-7	4-Methylheptane	48		**21.48**	21.47						32	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.49						32	772
589-81-1	3-Methylheptane		p	21.55	21.54						32	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.09						32	786
111-65-9	n-Octane		P	22.27	22.26	**22.34**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.74						-63	855
108-38-3	m,p-xylene		P	23.95	23.94						-63	863
100-42-5	Styrene		P	24.40	24.39						-63	881
95-47-6	o-xylene		P	24.57	24.56						-63	886
124-11-8	1-Nonene	64		24.60	24.59						-63	889
111-84-2	n-Nonane		P	24.87	24.86	**24.93**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.35						-175	919
103-65-1	n-propylbenzene		P	25.93	25.92						-175	947
80-56-8	a-Pinene			26.09	26.08						-175	950
620-14-4	3-Ethyltoluene		P	26.17	26.16						-175	957
622-96-8	4-Ethyltoluene		P	26.26	26.25						-175	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.44						-175	964
611-14-3	2-Ethyltoluene		P	26.61	26.60						-175	975
127-91-3	b-Pinene			26.80	26.79						-175	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.07						-175	991
124-18-5	n-Decane		P	27.26	27.25	**27.25**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.54						-48	1014
496-11-7	Indan	81		27.55	27.54						-48	1020
5989-27-5	d-Limonene			27.65	27.64						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.09						-48	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.22						-48	1037
104-51-8	n-Butylbenzene			28.45	28.44						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.59						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.74						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.82						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.85**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.44						-35	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.49						-35	1124
91-20-3	Naphthalene		32.25	32.24						-35	1193
112-40-3	Dodecane	P	32.46	6.01	**32.48**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					114030		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					90463		9269			
TNMHC - C1	Total Non-Methane Hydrocarbons					90463		14298			
TVOC	Total Volatile Organic Compounds					90463		0			
TPH(g)	TPH (gasoline)					90463		0			
TPH(d)	TPH (diesel)					90463		0			
TPH(h)	TPH (hexane)					90463		0			
TPH(t)	TPH (toluene)					90463		0			
TPHC	TPH (methane)					90463		0			
TPH(Jet A)	TPH (Jet A Fuel)					90463		**23567**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					90463					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			3009		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			1456		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**4465**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040125-GCK		
Hexane Std Area:	390567		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.33	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.33		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	1.26	0.63	0.73	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	3.86	1.93	2.38	3.86	1.93	2.38	2.38	2.38
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	2.48	0.83	1.49	ND	ND	ND	0	
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	6.23	1.56	3.58	6.23	1.56	3.58	3.58	3.58
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	4.06	0.68	2.16	4.06	0.68	2.16	2.16	2.16
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	153.93	25.7	90.6	153.93	25.65	90.63	90.63	90.63
Total Non-Methane Hydrocarbons	16	1.0	153.93	153.9	100.9	153.93	153.93	100.94	100.94	100.94
Total Volatile Organic Compounds	100	7.6	153.93	20.3	83.0	153.93	20.25	83.01	83.01	83.01
TPH (gasoline)	95	7.0	153.93	22.0	85.6	153.93	21.99	85.62	85.62	85.62
TPH (diesel)	198	15.0	153.93	10.3	83.3	153.93	10.26	83.27	83.27	83.27
TPH (hexane)	86.2	6.0	153.93	25.7	90.6	153.93	25.65	90.63	90.63	90.63
TPH (toluene)	92.14	7.0	153.93	22.0	83.0	153.93	21.99	83.04	83.04	83.04
TPH (methane)	16	1.0	153.93	153.9	100.9	153.93	153.93	100.94	100.94	100.94
TPH (Jet A Fuel)	177	13.0	153.93	11.8	85.9	153.93	11.84	85.89	85.89	85.89
TPH (Mineral Spirits)	117.81	8.0	153.93	19.2	92.9	153.93	19.24	92.90	92.90	92.90
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			17.9	5.6						
Paraffins			6.3							
Isoparaffins			0.0							
Aromatics			4.1							
Napthlenes			0.0							
Olefins			7.5							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	5.12	2.56	3.16	ND	ND	ND	0	
C3 (propane)	44.1	3	2.48	0.83	1.49	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			7.6							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			6.3	35.4
Alkenes			7.5	41.9
Alkynes			0.0	0.0
Cycloalkanes			0.0	0.0
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			4.1	22.7
Terpenes			0.0	0.0

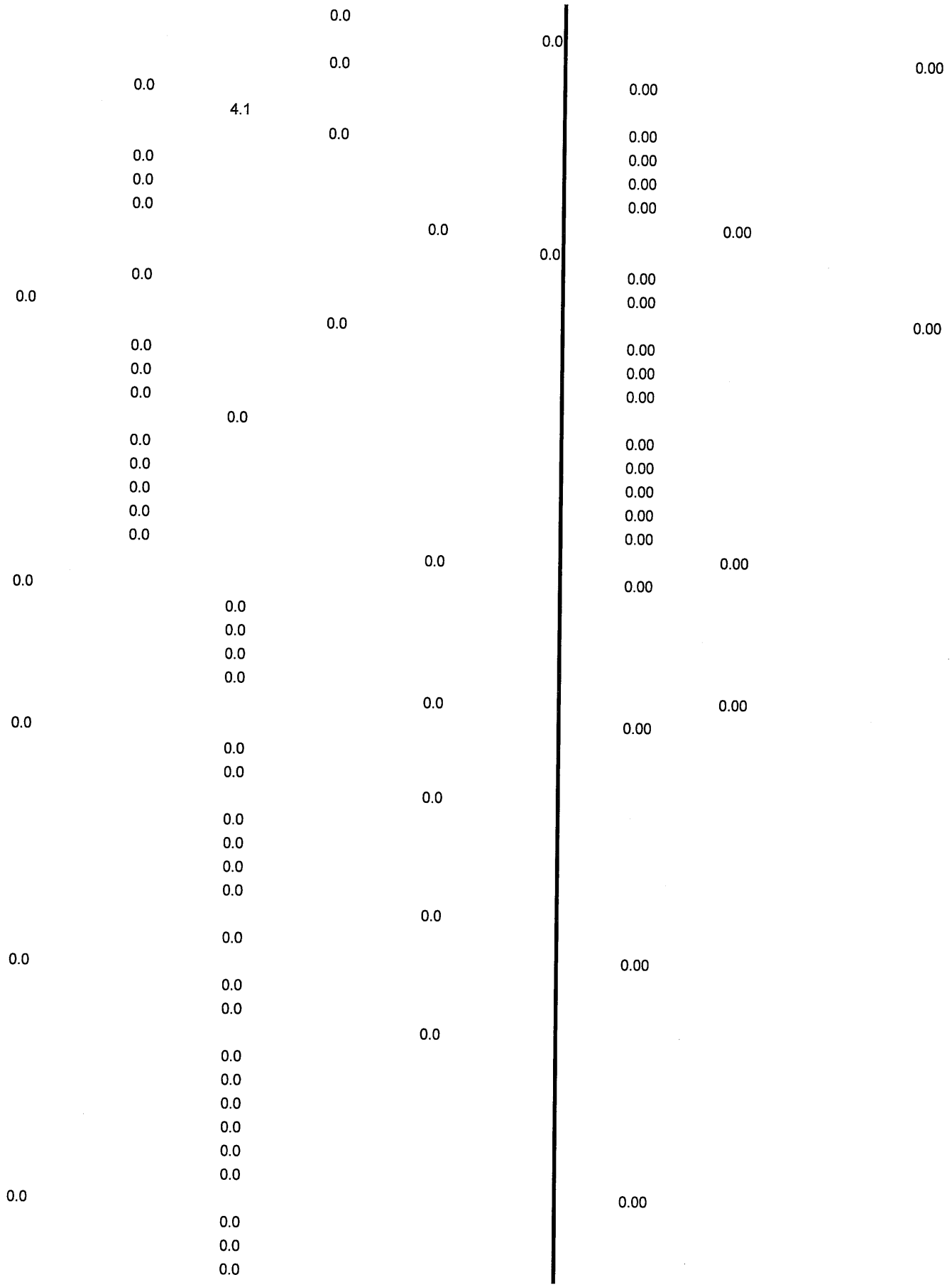
SDG: **225100**
Laboratory Number: **31**

Mole %	(1)	(2)	Calc	Calc	Calc	Calc	Calc	Calc				
Result	MDL	MDL	MDL	MDL	MDL	RL	RL	RL		Detect	EPA	Rept
%	ppbC	ppbV	ppbV	ug/m3	ppbC	ppbV	ug/m3	ppbC	Flag	Flan	Flag	Res
11.2	2.000	1.00	1.33	1.54	2.67	4.00	4.61	8.0	U	ND		Y
0.0	2.000	1.00	1.33	1.42	2.67	4.00	4.27	8.0	U	ND		Y
34.3	2.000	1.00	1.33	1.65	2.67	4.00	4.94	8.0	J	=		Y
0.0	2.000	0.67	0.89	1.54	2.67	2.67	4.61	8.0	U	ND		Y
14.7	2.000	0.67	0.89	1.61	2.67	2.67	4.83	8.0	U	ND		Y
0.0	2.000	0.50	0.67	1.59	2.67	2.00	4.77	8.0	U	ND		Y
0.0	2.000	2.00	2.67	3.50	2.67	8.01	10.50	8.0	U	ND		Y
27.7	2.000	0.50	0.67	1.53	2.67	2.00	4.60	8.0	J	=		Y
0.0	2.000	0.50	0.67	1.48	2.67	2.00	4.44	8.0	U	ND		Y
0.0	2.000	0.50	0.67	1.59	2.67	2.00	4.77	8.0	U	ND		Y
0.0	2.000	0.50	0.67	1.53	2.67	2.00	4.60	8.0	U	ND		Y
0.0	2.000	0.50	0.67	1.53	2.67	2.00	4.60	8.0	U	ND		Y
0.0	2.000	1.00	1.33	2.52	2.67	4.00	7.57	8.0	U	ND		Y
0.0	2.000	0.40	0.53	1.53	2.67	1.60	4.60	8.0	U	ND		Y
0.0	2.000	0.67	0.89	2.12	2.67	2.67	6.36	8.0	U	ND		Y
0.0	2.000	0.40	0.53	1.58	2.67	1.60	4.74	8.0	U	ND		Y
0.0	2.000	0.40	0.53	1.53	2.67	1.60	4.60	8.0	U	ND		Y
0.0	2.000	0.67	0.89	2.19	2.67	2.67	6.58	8.0	U	ND		Y
0.0	2.000	0.40	0.53	1.53	2.67	1.60	4.60	8.0	U	ND		Y
0.0	2.000	0.40	0.53	1.58	2.67	1.60	4.73	8.0	U	ND		Y
0.0	2.000	0.40	0.53	1.49	2.67	1.60	4.47	8.0	U	ND		Y
0.0	2.000	0.40	0.53	1.53	2.67	1.60	4.60	8.0	U	ND		Y
0.0	2.000	0.40	0.53	1.53	2.67	1.60	4.60	8.0	U	ND		Y
0.0	2.000	0.50	0.67	2.03	2.67	2.00	6.08	8.0	U	ND		Y
0.0	2.000	0.40	0.53	1.53	2.67	1.60	4.60	8.0	U	ND		Y
0.0	2.000	0.33	0.44	1.57	2.67	1.33	4.72	8.0	U	ND		Y
0.0	2.000	0.40	0.53	1.49	2.67	1.60	4.47	8.0	U	ND		Y
0.0	2.000	0.67	0.89	2.19	2.67	2.67	6.58	8.0	U	ND		Y
0.0	2.000	0.40	0.53	1.53	2.67	1.60	4.60	8.0	U	ND		Y
0.0	2.000	0.40	0.53	1.93	2.67	1.60	5.79	8.0	U	ND		Y
0.0	2.000	0.33	0.44	1.57	2.67	1.33	4.72	8.0	U	ND		Y
0.0	2.000	0.33	0.44	1.57	2.67	1.33	4.72	8.0	U	ND		Y
0.0	2.000	0.33	0.44	1.57	2.67	1.33	4.72	8.0	U	ND		Y
0.0	2.000	0.33	0.44	1.54	2.67	1.33	4.61	8.0	U	ND		Y
0.0	2.000	0.33	0.44	1.57	2.67	1.33	4.72	8.0	U	ND		Y
0.0	2.000	0.33	0.44	1.86	2.67	1.33	5.59	8.0	U	ND		Y

0.0	2.000	0.33	0.44	1.50	2.67	1.33	4.49	8.0	U	ND	Y
0.0	2.000	0.33	0.44	1.86	2.67	1.33	5.59	8.0	U	ND	Y
0.0	2.000	0.33	0.44	1.54	2.67	1.33	4.61	8.0	U	ND	Y
0.0	2.000	0.29	0.38	1.57	2.67	1.14	4.70	8.0	U	ND	Y
12.0	2.000	0.33	0.44	1.42	2.67	1.33	4.27	8.0	J	=	Y
0.0	2.000	0.33	0.44	1.54	2.67	1.33	4.61	8.0	U	ND	Y
0.0	2.000	0.29	0.38	1.57	2.67	1.14	4.70	8.0	U	ND	Y
0.0	2.000	0.29	0.38	1.57	2.67	1.14	4.70	8.0	U	ND	Y
0.0	2.000	0.29	0.38	1.57	2.67	1.14	4.70	8.0	U	ND	Y
0.0	2.000	0.29	0.38	1.53	2.67	1.14	4.60	8.0	U	ND	Y
0.0	2.000	0.33	0.44	1.86	2.67	1.33	5.59	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.56	2.67	1.00	4.69	8.0	U	ND	Y
0.0	2.000	0.29	0.38	1.57	2.67	1.14	4.70	8.0	U	ND	Y
0.0	2.000	0.29	0.38	1.53	2.67	1.14	4.60	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.56	2.67	1.00	4.69	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.56	2.67	1.00	4.69	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.56	2.67	1.00	4.69	8.0	U	ND	Y
0.0	2.000	0.29	0.38	1.44	2.67	1.14	4.32	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.56	2.67	1.00	4.69	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.56	2.67	1.00	4.69	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.56	2.67	1.00	4.69	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.56	2.67	1.00	4.69	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.56	2.67	1.00	4.69	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.53	2.67	1.00	4.60	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.56	2.67	1.00	4.69	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.45	2.67	1.00	4.36	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.45	2.67	1.00	4.36	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.43	2.67	1.00	4.28	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.45	2.67	1.00	4.36	8.0	U	ND	Y
0.0	2.000	0.22	0.30	1.53	2.67	0.89	4.60	8.0	U	ND	Y
0.0	2.000	0.22	0.30	1.56	2.67	0.89	4.68	8.0	U	ND	Y
0.0	2.000	0.22	0.30	1.46	2.67	0.89	4.38	8.0	U	ND	Y
0.0	2.000	0.22	0.30	1.46	2.67	0.89	4.38	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.49	2.67	0.80	4.47	8.0	U	ND	Y
0.0	2.000	0.22	0.30	1.46	2.67	0.89	4.38	8.0	U	ND	Y
0.0	2.000	0.22	0.30	1.46	2.67	0.89	4.38	8.0	U	ND	Y
0.0	2.000	0.22	0.30	1.46	2.67	0.89	4.38	8.0	U	ND	Y
0.0	2.000	0.22	0.30	1.46	2.67	0.89	4.38	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.49	2.67	0.80	4.47	8.0	U	ND	Y
0.0	2.000	0.22	0.30	1.46	2.67	0.89	4.38	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.56	2.67	0.80	4.67	8.0	U	ND	Y
0.0	2.000	0.22	0.30	1.46	2.67	0.89	4.38	8.0	U	ND	Y
0.0	2.000	0.22	0.30	1.44	2.67	0.89	4.31	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.49	2.67	0.80	4.47	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.47	2.67	0.80	4.40	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.47	2.67	0.80	4.40	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.47	2.67	0.80	4.40	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.47	2.67	0.80	4.40	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.47	2.67	0.80	4.40	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.47	2.67	0.80	4.40	8.0	U	ND	Y
0.0	2.000	0.18	0.24	1.55	2.67	0.73	4.66	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.47	2.67	0.80	4.40	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.47	2.67	0.80	4.40	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.40	2.67	0.80	4.21	8.0	U	ND	Y

0.0	2.000	0.17	0.22	1.55	2.67	0.67	4.66	8.0	U	ND	Y
%											Y
100.0	45.00	7.5	10.01	35.37	60.07	30.0	106.1	180.2	J	=	Y
100.0	45.00	45.0	60.07	39.39	60.07	180.2	118.2	180.2	J	=	Y
100.0	45.00	5.9	7.90	32.39	60.07	23.7	97.2	180.2	J	=	Y
100.0	45.00	6.4	8.58	33.41	60.07	25.7	100.2	180.2	J	=	Y
100.0	45.00	3.0	4.00	32.49	60.07	12.0	97.5	180.2	J	=	Y
100.0	45.00	7.5	10.01	35.37	60.07	30.0	106.1	180.2	J	=	Y
100.0	45.00	6.4	8.58	32.40	60.07	25.7	97.2	180.2	J	=	Y
100.0	45.00	45.0	60.07	39.39	60.07	180.2	118.2	180.2	J	=	Y
100.0	45.00	3.5	4.62	33.52	60.07	13.9	100.6	180.2	J	=	Y
100.0	45.00	5.6	7.51	36.25	60.07	22.5	108.8	180.2	J	=	Y
0.0	45.00	7.5	10.01	35.37	60.07	30.0	106.1	180.2	U	ND	Y
0.0	25.000	3.6	4.77	18.56	33.37	14.3	55.7	100.1	U	ND	Y
%											Y
11.6											Y
35.4											Y
0.0											Y
22.7											Y
0.0											Y
41.9											Y
0.0											Y
%											Y
67.4	5.000	2.5	3.34	4.12	6.67	10.0	12.3	20.0	U	ND	Y
32.6	5.000	1.7	2.22	4.02	6.67	6.7	12.1	20.0	U	ND	Y
0.0	25.000	6.3	8.34	19.87	33.37	25.0	59.6	100.1	U	ND	Y
0.0	25.000	5.0	6.67	19.73	33.37	20.0	59.2	100.1	U	ND	Y
0.0	25.000	4.2	5.56	19.65	33.37	16.7	58.9	100.1	U	ND	Y
0.0	25.000	3.6	4.77	19.58	33.37	14.3	58.7	100.1	U	ND	Y
0.0	25.000	3.1	4.17	19.52	33.37	12.5	58.6	100.1	U	ND	Y
0.0	25.000	2.8	3.71	19.49	33.37	11.1	58.5	100.1	U	ND	Y
0.0	25.000	2.5	3.34	19.46	33.37	10.0	58.4	100.1	U	ND	Y
0.0	25.000	2.3	3.03	19.43	33.37	9.1	58.3	100.1	U	ND	Y
0.0	25.000	2.1	2.78	19.41	33.37	8.3	58.2	100.1	U	ND	Y
0.0	25.000	2.1	2.78	19.41	33.37	8.3	58.2	100.1	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.33	3.95	8.01	4.0	11.8	24.0			Y
0.0	6.0	0.9	1.14	4.70	8.01	3.4	14.1	24.0			Y
0.0	6.0	0.7	0.89	4.68	8.01	2.7	14.0	24.0			Y
0.0	6.0	0.5	0.73	4.26	8.01	2.2	12.8	24.0			Y
0.0	6.0	0.7	0.89	4.16	8.01	2.7	12.5	24.0			Y
0.0	6.0	0.5	0.73	4.25	8.01	2.2	12.7	24.0			Y
0.0	2.0	0.3	0.44	1.57	2.67	1.3	4.7	8.0	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					1.3		1.26		
					0.0			0.00	
	3.9					3.86			
					0.0		0.00		
	2.5					2.48			
		0.0				0.00			
					0.0				
					6.2		6.23		
					0.0		0.00		
	0.0					0.00			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		0.0				0.00			
					0.0		0.00		
					0.0				
					0.0		0.00		
	0.0					0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
					0.0				
			0.0						0.00
					0.0				
		0.0				0.00			
		0.0				0.00			
		0.0				0.00			
					0.0		0.00		
	0.0					0.00			
					0.0				


0.0
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0.0
4.1
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0.0						0.00			
6.3	0.0	4.1	0.0	7.5	0.0	6.3	7.5	0.0	0.0

0.00	0.00		
0.00	0.00		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
0.00	0.00	0.00	0.00	0.00	0.00

0.00

0.00

4.06

0.00

0.00

0.00
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0.0	0.0	0.0	0.0	4.1	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**31**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.33
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = $\frac{\text{Sum } \frac{(\text{Astdni})}{(\text{Cstdni})_i}}{}$

2) ppbC = $\frac{\text{6 Carbons} \times \text{Ansamp} \times \text{CDF} \times 1000}{\text{(Avg RFn)} \times \text{SV}}$ = **Cn**

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = $\frac{\text{(amt(ppbv)} \times \text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.16E+04	741	1.3	0.63	0.73
Acetylene	2	TRG	26.0	2.16E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.16E+04	2268	3.9	1.93	2.38
Propene	3	TRG	4.5	2.16E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.16E+04	1456	2.5	0.83	1.49
i-Butane	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.16E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.16E+04	3662	6.2	1.56	3.58
n-Butane	4	TRG	54.1	2.16E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.16E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.16E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.16E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.16E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.16E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.16E+04	2384	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.16E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.16E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.16E+04	0	4.1	0.68	2.16	
2-Methylheptane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.16E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.16E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.16E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.16E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.16E+04	90463	153.9	25.65	90.63	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.16E+04	90463	153.9	153.93	100.94	
Total Volatile Organic Compoun	8	TRG	100.0	2.16E+04	90463	153.9	20.25	83.01	
TPH (gasoline)	7	TRG	95.0	2.16E+04	90463	153.9	21.99	85.62	
TPH (diesel)	15	TRG	198.0	2.16E+04	90463	153.9	10.26	83.27	
TPH (hexane)	6	TRG	86.2	2.16E+04	90463	153.9	25.65	90.63	
TPH (toluene)	7	TRG	92.1	2.16E+04	90463	153.9	21.99	83.04	
TPH (methane)	1	TRG	16.0	2.16E+04	90463	153.9	153.93	100.94	
TPH (Jet A Fuel)	13	TRG	177.0	2.16E+04	90463	153.9	11.84	85.89	
TPH (Mineral Spirits)	8	TRG	117.8	2.16E+04	90463	153.9	19.24	92.90	
C6+ (hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.16E+04		17.9			Sum ID
Paraffins	P	TRG	0.0	2.16E+04		6.3			Sum P
Isoparaffins	I	TRG	0.0	2.16E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.16E+04		4.1			Sum A
Napthlenes	N	TRG	0.0	2.16E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.16E+04		7.5			Sum O
Oxygenates		TRG	0.0	2.16E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.16E+04	3009	5.1	2.56	3.16	
C3 (propane)	3	TRG	44.1	2.16E+04	1456	2.5	0.83	1.49	
C4 (Butane)	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.16E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.16E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.16E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.16E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.16E+04	4465	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 32

File Name: 2510032A
Description: T-214
Canister: 610
QC_Batch: 033125-GCK

Date Sampled: 03/20/25 **Time:** 12:57
Date Analyzed: 03/31/25 **Time:** 13:08
Can Factor: 1.11
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.11	3.34	ND	1.28	3.85	ND	ND
74-86-2	Acetylene	1.11	3.34	ND	1.19	3.56	ND	ND
74-84-0	Ethane	1.11	3.34	ND	1.37	4.12	ND	ND
115-07-1	Propene	0.74	2.23	ND	1.28	3.84	ND	ND
74-98-6	Propane	0.74	2.23	ND	1.34	4.02	ND	ND
75-28-5	i-Butane	0.56	1.67	ND	1.33	3.98	ND	ND
106-98-9	1-Butene	0.56	1.67	ND	1.28	3.84	ND	ND
106-97-8	n-Butane	0.56	1.67	ND	1.33	3.98	ND	ND
624-64-6	t-2-Butene	0.56	1.67	ND	1.28	3.84	ND	ND
590-18-1	c-2-Butene	0.56	1.67	ND	1.28	3.84	ND	ND
78-78-4	i-Pentane	0.45	1.34	ND	1.32	3.95	ND	ND
109-67-1	1-Pentene	0.45	1.34	ND	1.28	3.84	ND	ND
109-66-0	n-Pentane	0.45	1.34	ND	1.32	3.95	ND	ND
646-04-8	t-2-Pentene	0.45	1.34	ND	1.28	3.84	ND	ND
627-20-3	c-2-Pentene	0.45	1.34	ND	1.28	3.84	ND	ND
75-83-2	2,2-Dimethylbutane	0.37	1.11	ND	1.31	3.93	ND	ND
142-29-0	Cyclopentene	0.45	1.34	ND	1.24	3.73	ND	ND
287-92-3	Cyclopentane	0.45	1.34	ND	1.28	3.84	ND	ND
79-29-8	2,3-Dimethylbutane	0.37	1.11	ND	1.31	3.93	ND	ND
107-83-5	2-Methylpentane	0.37	1.11	ND	1.31	3.93	ND	ND
96-14-0	3-Methylpentane	0.37	1.11	ND	1.31	3.93	ND	ND
592-41-6	1-Hexene	0.37	1.11	ND	1.28	3.84	ND	ND
110-54-3	n-Hexane	0.37	1.11	ND	1.31	3.93	ND	ND
1120-62-3	3-Methylcyclopentene	0.37	1.11	ND	1.25	3.75	ND	ND
96-37-7	Methylcyclopentane	0.37	1.11	ND	1.28	3.84	ND	ND
108-08-7	2,4-Dimethylpentane	0.32	0.95	ND	1.31	3.92	ND	ND
71-43-2	Benzene	0.37	1.11	ND	1.19	3.56	ND	ND
110-82-7	Cyclohexane	0.37	1.11	ND	1.28	3.84	ND	ND
591-76-4	2-Methylhexane	0.32	0.95	ND	1.31	3.92	ND	ND
565-59-3	2,3-Dimethylpentane	0.32	0.95	ND	1.31	3.92	ND	ND
589-34-4	3-Methylhexane	0.32	0.95	ND	1.31	3.92	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.28	0.83	ND	1.30	3.91	ND	ND
142-82-5	n-Heptane	0.32	0.95	ND	1.31	3.92	ND	ND
108-87-2	Methylcyclohexane	0.32	0.95	ND	1.28	3.84	ND	ND
592-13-2	2,5-Dimethylhexane	0.28	0.83	ND	1.30	3.91	ND	ND
589-43-5	2,4-Dimethylhexane	0.28	0.83	ND	1.30	3.91	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.28	0.83	ND	1.30	3.91	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.32	0.95	ND	1.20	3.60	ND	ND
584-94-1	2,3-Dimethylhexane	0.28	0.83	ND	1.30	3.91	ND	ND
592-27-8	2-Methylheptane	0.28	0.83	ND	1.30	3.91	ND	ND
589-53-7	4-Methylheptane	0.28	0.83	ND	1.30	3.91	ND	ND
589-81-1	3-Methylheptane	0.28	0.83	ND	1.30	3.91	ND	ND
111-65-9	n-Octane	0.28	0.83	ND	1.30	3.91	ND	ND
100-41-4	Ethylbenzene	0.28	0.83	ND	1.21	3.63	ND	ND
108-38-3	m,p-xylene	0.28	0.83	ND	1.21	3.63	ND	ND
100-42-5	Styrene	0.28	0.83	ND	1.19	3.57	ND	ND
95-47-6	o-xylene	0.28	0.83	ND	1.21	3.63	ND	ND
111-84-2	n-Nonane	0.25	0.74	ND	1.30	3.90	ND	ND
98-82-8	i-Propylbenzene	0.25	0.74	ND	1.22	3.66	ND	ND
103-65-1	n-propylbenzene	0.25	0.74	ND	1.22	3.66	ND	ND
620-14-4	3-Ethyltoluene	0.25	0.74	ND	1.22	3.66	ND	ND
622-96-8	4-Ethyltoluene	0.25	0.74	ND	1.22	3.66	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.25	0.74	ND	1.22	3.66	ND	ND
611-14-3	2-Ethyltoluene	0.25	0.74	ND	1.22	3.66	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.25	0.74	ND	1.22	3.66	ND	ND
124-18-5	n-Decane	0.22	0.67	ND	1.30	3.90	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.25	0.74	ND	1.22	3.66	ND	ND
141-93-5	1,3-Diethylbenzene	0.22	0.67	ND	1.22	3.67	ND	ND
105-05-5	1,4-Diethylbenzene	0.22	0.67	ND	1.22	3.67	ND	ND
104-51-8	n-Butylbenzene	0.22	0.67	ND	1.22	3.67	ND	ND
1120-21-4	Undecane	0.20	0.61	ND	1.30	3.89	ND	ND
91-20-3	Naphthalene	0.22	0.67	ND	1.17	3.51	ND	ND
112-40-3	Dodecane	0.19	0.56	ND	1.29	3.88	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	8.35	25.05	ND	29.50	88.49	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	50.10	150.29	ND	32.85	98.55	ND	ND

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **32**
File Name: **2510032A**
Sample ID: **T-214**
Sampled: **3/20/2025**
Received: **03/21/25**
Analyzed: **03/31/25**
QCBatch: **033125-GCK**
Can: **610**
Can Factor: **1.11**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **12:57** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **13:08** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **377602**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.06	**4.07**	1270	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.10			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.17**	1532	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11						-229	290
74-98-6	Propane	P	5.20	**5.20**	**5.14**	1353	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.54**						139	351
67-56-1	Methanol		8.30	8.24						139	401
106-98-9	1-Butene	P	7.29	7.23	**7.32**		I	I	H	368	367
106-99-0	1,3-Butadiene		**7.48**	7.42						139	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75						198	410
590-18-1	c-2-Butene	P	9.63	9.63						198	431
64-17-5	Ethanol		10.85	10.85						198	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.05						198	465
67-64-1	Acetone		11.52	11.52						198	476
78-78-4	i-Pentane	P	11.37	11.37						198	473
109-67-1	1-Pentene	P	12.30	12.30	**12.32**		I	I	H	496	495
67-63-0	Isopropanol		12.65	12.65						198	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.36						198	497
109-66-0	n-Pentane	P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.55						162	503
646-04-8	t-2-Pentene	P	12.79	12.79						162	510
627-20-3	c-2-Pentene	P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.55						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.62						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.77						162	537
142-29-0	Cyclopentene	15	**14.61**	14.61						162	551
71-23-8	n-Propanol		**14.75**	14.75						162	558
287-92-3	Cyclopentane	P	14.88	14.88						162	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.06						162	570
107-83-5	2-Methylpentane	P	15.08	15.08						162	571
96-14-0	3-Methylpentane	P	15.55	15.55						162	583
592-41-6	1-Hexene	P	**15.80**	15.80						162	590
110-54-3	n-Hexane	P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						101	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						101	626
71-43-2	Benzene		P	17.87	**17.87**	**17.91**		I	I	H	654	651
110-82-7	Cyclohexane		P	18.14	18.18						101	658
591-76-4	2-Methylhexane		P	18.38	18.42						101	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.49						101	671
589-34-4	3-Methylhexane		P	18.66	18.70						101	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.79						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.84						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.13						101	690
142-82-5	n-Heptane		P	19.41	19.45	**19.41**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.13						21	722
592-13-2	2,5-Dimethylhexane			20.35	20.39						21	734
589-43-5	2,4-Dimethylhexane			20.43	20.47						21	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.97						21	753
108-88-3	Toluene		P	21.12	**21.16**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						21	763
592-27-8	2-Methylheptane		P	21.33	21.33						21	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						21	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						21	772
589-81-1	3-Methylheptane		p	21.55	21.55						21	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						21	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75						-57	855
108-38-3	m,p-xylene		P	23.95	23.95						-57	863
100-42-5	Styrene		P	24.40	24.40						-57	881
95-47-6	o-xylene		P	24.57	24.57						-57	886
124-11-8	1-Nonene	64		24.60	24.60						-57	889
111-84-2	n-Nonane		P	24.87	24.87	**24.87**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36						-141	919
103-65-1	n-propylbenzene		P	25.93	25.93						-141	947
80-56-8	a-Pinene			26.09	26.09						-141	950
620-14-4	3-Ethyltoluene		P	26.17	26.17						-141	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-141	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45						-141	964
611-14-3	2-Ethyltoluene		P	26.61	26.61						-141	975
127-91-3	b-Pinene			26.80	26.80						-141	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08						-141	991
124-18-5	n-Decane		P	27.26	27.26	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-48	1014
496-11-7	Indan	81		27.55	27.55						-48	1020
5989-27-5	d-Limonene			27.65	27.65						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10						-48	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-48	1037
104-51-8	n-Butylbenzene			28.45	28.45						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					33740		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					33740		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					33740		0			
TVOC	Total Volatile Organic Compounds					33740		0			
TPH(g)	TPH (gasoline)					33740		0			
TPH(d)	TPH (diesel)					33740		0			
TPH(h)	TPH (hexane)					33740		0			
TPH(t)	TPH (toluene)					33740		0			
TPHC	TPH (methane)					33740		0			
TPH(Jet A)	TPH (Jet A Fuel)					33740		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					33740					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			2802		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			1353		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**4155**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	033125-GCK		
Hexane Std Area:	377602		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.11	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.11		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	1.80	0.90	1.04	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	2.17	1.09	1.34	ND	ND	ND	0	
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	1.92	0.64	1.16	ND	ND	ND	0	
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3
Total Non-Methane Hydrocarbons	86.2	6.0	47.88	8.0	28.2	ND	ND	ND	0
Total Non-Methane Hydrocarbons	16	1.0	47.88	47.9	31.4	ND	ND	ND	0
Total Volatile Organic Compounds	100	7.6	47.88	6.3	25.8	ND	ND	ND	0
TPH (gasoline)	95	7.0	47.88	6.8	26.6	ND	ND	ND	0
TPH (diesel)	198	15.0	47.88	3.2	25.9	ND	ND	ND	0
TPH (hexane)	86.2	6.0	47.88	8.0	28.2	ND	ND	ND	0
TPH (toluene)	92.14	7.0	47.88	6.8	25.8	ND	ND	ND	0
TPH (methane)	16	1.0	47.88	47.9	31.4	ND	ND	ND	0
TPH (Jet A Fuel)	177	13.0	47.88	3.7	26.7	ND	ND	ND	0
TPH (Mineral Spirits)	117.81	8.0	47.88	6.0	28.9	ND	ND	ND	0
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3
Total Identified			5.9	2.6					
Paraffins			4.1						
Isoparaffins			0.0						
Aromatics			0.0						
Napthlenes			0.0						
Olefins			1.8						
Oxygenates			0.0						
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	3.98	1.99	2.45	ND	ND	ND	0
C3 (propane)	44.1	3	1.92	0.64	1.16	ND	ND	ND	0
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0
			5.9						
Totals from Identified:									
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00				
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00				
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00				
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00				
Aromatic C8-C10	114.2	9	0.0	0.00	0.00				
Aromatic C10-12	142.3	11	0.0	0.00	0.00				
n-Hexane	86.18	6.0	0.0	0.00	0.00				
TNMHC - C6	86.2	6							
TNMHC - C1	16	1							
TVOC	86.2	6							
TPH(g)	95	7							
TPH(d)	198	15							
TPH(h)	86.2	6							
TPH(t)	92.14	7							
TPHC	16	1							
TPH(Jet A)	177	13							

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			4.1	69.4
Alkenes			1.8	30.6
Alkynes			0.0	0.0
Cycloalkanes			0.0	0.0
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			0.0	0.0
Terpenes			0.0	0.0

SDG: **225100**
Laboratory Number: **32**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
34.3	2.000	1.00	1.11	1.28	2.23	3.34	3.85	6.7	U	ND		Y
0.0	2.000	1.00	1.11	1.19	2.23	3.34	3.56	6.7	U	ND		Y
41.3	2.000	1.00	1.11	1.37	2.23	3.34	4.12	6.7	U	ND		Y
0.0	2.000	0.67	0.74	1.28	2.23	2.23	3.84	6.7	U	ND		Y
24.3	2.000	0.67	0.74	1.34	2.23	2.23	4.02	6.7	U	ND		Y
0.0	2.000	0.50	0.56	1.33	2.23	1.67	3.98	6.7	U	ND		Y
0.0	2.000	2.00	2.23	2.92	2.23	6.68	8.76	6.7	U	ND		Y
0.0	2.000	0.50	0.56	1.28	2.23	1.67	3.84	6.7	U	ND		Y
0.0	2.000	0.50	0.56	1.23	2.23	1.67	3.70	6.7	U	ND		Y
0.0	2.000	0.50	0.56	1.33	2.23	1.67	3.98	6.7	U	ND		Y
0.0	2.000	0.50	0.56	1.28	2.23	1.67	3.84	6.7	U	ND		Y
0.0	2.000	0.50	0.56	1.28	2.23	1.67	3.84	6.7	U	ND		Y
0.0	2.000	1.00	1.11	2.10	2.23	3.34	6.31	6.7	U	ND		Y
0.0	2.000	0.40	0.45	1.28	2.23	1.34	3.84	6.7	U	ND		Y
0.0	2.000	0.67	0.74	1.77	2.23	2.23	5.30	6.7	U	ND		Y
0.0	2.000	0.40	0.45	1.32	2.23	1.34	3.95	6.7	U	ND		Y
0.0	2.000	0.40	0.45	1.28	2.23	1.34	3.84	6.7	U	ND		Y
0.0	2.000	0.67	0.74	1.83	2.23	2.23	5.48	6.7	U	ND		Y
0.0	2.000	0.40	0.45	1.28	2.23	1.34	3.84	6.7	U	ND		Y
0.0	2.000	0.40	0.45	1.32	2.23	1.34	3.95	6.7	U	ND		Y
0.0	2.000	0.40	0.45	1.24	2.23	1.34	3.73	6.7	U	ND		Y
0.0	2.000	0.40	0.45	1.28	2.23	1.34	3.84	6.7	U	ND		Y
0.0	2.000	0.40	0.45	1.28	2.23	1.34	3.84	6.7	U	ND		Y
0.0	2.000	0.50	0.56	1.69	2.23	1.67	5.07	6.7	U	ND		Y
0.0	2.000	0.40	0.45	1.28	2.23	1.34	3.84	6.7	U	ND		Y
0.0	2.000	0.33	0.37	1.31	2.23	1.11	3.93	6.7	U	ND		Y
0.0	2.000	0.40	0.45	1.24	2.23	1.34	3.73	6.7	U	ND		Y
0.0	2.000	0.67	0.74	1.83	2.23	2.23	5.48	6.7	U	ND		Y
0.0	2.000	0.40	0.45	1.28	2.23	1.34	3.84	6.7	U	ND		Y
0.0	2.000	0.40	0.45	1.61	2.23	1.34	4.83	6.7	U	ND		Y
0.0	2.000	0.33	0.37	1.31	2.23	1.11	3.93	6.7	U	ND		Y
0.0	2.000	0.33	0.37	1.31	2.23	1.11	3.93	6.7	U	ND		Y
0.0	2.000	0.33	0.37	1.31	2.23	1.11	3.93	6.7	U	ND		Y
0.0	2.000	0.33	0.37	1.28	2.23	1.11	3.84	6.7	U	ND		Y
0.0	2.000	0.33	0.37	1.31	2.23	1.11	3.93	6.7	U	ND		Y
0.0	2.000	0.33	0.37	1.55	2.23	1.11	4.66	6.7	U	ND		Y

0.0	2.000	0.33	0.37	1.25	2.23	1.11	3.75	6.7	U	ND	Y
0.0	2.000	0.33	0.37	1.55	2.23	1.11	4.66	6.7	U	ND	Y
0.0	2.000	0.33	0.37	1.28	2.23	1.11	3.84	6.7	U	ND	Y
0.0	2.000	0.29	0.32	1.31	2.23	0.95	3.92	6.7	U	ND	Y
0.0	2.000	0.33	0.37	1.19	2.23	1.11	3.56	6.7	U	ND	Y
0.0	2.000	0.33	0.37	1.28	2.23	1.11	3.84	6.7	U	ND	Y
0.0	2.000	0.29	0.32	1.31	2.23	0.95	3.92	6.7	U	ND	Y
0.0	2.000	0.29	0.32	1.31	2.23	0.95	3.92	6.7	U	ND	Y
0.0	2.000	0.29	0.32	1.31	2.23	0.95	3.92	6.7	U	ND	Y
0.0	2.000	0.29	0.32	1.28	2.23	0.95	3.84	6.7	U	ND	Y
0.0	2.000	0.33	0.37	1.55	2.23	1.11	4.66	6.7	U	ND	Y
0.0	2.000	0.25	0.28	1.30	2.23	0.83	3.91	6.7	U	ND	Y
0.0	2.000	0.29	0.32	1.31	2.23	0.95	3.92	6.7	U	ND	Y
0.0	2.000	0.29	0.32	1.28	2.23	0.95	3.84	6.7	U	ND	Y
0.0	2.000	0.25	0.28	1.30	2.23	0.83	3.91	6.7	U	ND	Y
0.0	2.000	0.25	0.28	1.30	2.23	0.83	3.91	6.7	U	ND	Y
0.0	2.000	0.25	0.28	1.30	2.23	0.83	3.91	6.7	U	ND	Y
0.0	2.000	0.29	0.32	1.20	2.23	0.95	3.60	6.7	U	ND	Y
0.0	2.000	0.25	0.28	1.30	2.23	0.83	3.91	6.7	U	ND	Y
0.0	2.000	0.25	0.28	1.30	2.23	0.83	3.91	6.7	U	ND	Y
0.0	2.000	0.25	0.28	1.30	2.23	0.83	3.91	6.7	U	ND	Y
0.0	2.000	0.25	0.28	1.30	2.23	0.83	3.91	6.7	U	ND	Y
0.0	2.000	0.25	0.28	1.30	2.23	0.83	3.91	6.7	U	ND	Y
0.0	2.000	0.25	0.28	1.28	2.23	0.83	3.84	6.7	U	ND	Y
0.0	2.000	0.25	0.28	1.30	2.23	0.83	3.91	6.7	U	ND	Y
0.0	2.000	0.25	0.28	1.21	2.23	0.83	3.63	6.7	U	ND	Y
0.0	2.000	0.25	0.28	1.21	2.23	0.83	3.63	6.7	U	ND	Y
0.0	2.000	0.25	0.28	1.19	2.23	0.83	3.57	6.7	U	ND	Y
0.0	2.000	0.25	0.28	1.21	2.23	0.83	3.63	6.7	U	ND	Y
0.0	2.000	0.22	0.25	1.28	2.23	0.74	3.84	6.7	U	ND	Y
0.0	2.000	0.22	0.25	1.30	2.23	0.74	3.90	6.7	U	ND	Y
0.0	2.000	0.22	0.25	1.22	2.23	0.74	3.66	6.7	U	ND	Y
0.0	2.000	0.22	0.25	1.22	2.23	0.74	3.66	6.7	U	ND	Y
0.0	2.000	0.20	0.22	1.24	2.23	0.67	3.73	6.7	U	ND	Y
0.0	2.000	0.22	0.25	1.22	2.23	0.74	3.66	6.7	U	ND	Y
0.0	2.000	0.22	0.25	1.22	2.23	0.74	3.66	6.7	U	ND	Y
0.0	2.000	0.22	0.25	1.22	2.23	0.74	3.66	6.7	U	ND	Y
0.0	2.000	0.22	0.25	1.22	2.23	0.74	3.66	6.7	U	ND	Y
0.0	2.000	0.20	0.22	1.24	2.23	0.67	3.73	6.7	U	ND	Y
0.0	2.000	0.22	0.25	1.22	2.23	0.74	3.66	6.7	U	ND	Y
0.0	2.000	0.20	0.22	1.30	2.23	0.67	3.90	6.7	U	ND	Y
0.0	2.000	0.22	0.25	1.22	2.23	0.74	3.66	6.7	U	ND	Y
0.0	2.000	0.22	0.25	1.20	2.23	0.74	3.60	6.7	U	ND	Y
0.0	2.000	0.20	0.22	1.24	2.23	0.67	3.73	6.7	U	ND	Y
0.0	2.000	0.20	0.22	1.22	2.23	0.67	3.67	6.7	U	ND	Y
0.0	2.000	0.20	0.22	1.22	2.23	0.67	3.67	6.7	U	ND	Y
0.0	2.000	0.20	0.22	1.22	2.23	0.67	3.67	6.7	U	ND	Y
0.0	2.000	0.20	0.22	1.22	2.23	0.67	3.67	6.7	U	ND	Y
0.0	2.000	0.20	0.22	1.22	2.23	0.67	3.67	6.7	U	ND	Y
0.0	2.000	0.20	0.22	1.22	2.23	0.67	3.67	6.7	U	ND	Y
0.0	2.000	0.18	0.20	1.30	2.23	0.61	3.89	6.7	U	ND	Y
0.0	2.000	0.20	0.22	1.22	2.23	0.67	3.67	6.7	U	ND	Y
0.0	2.000	0.20	0.22	1.22	2.23	0.67	3.67	6.7	U	ND	Y
0.0	2.000	0.20	0.22	1.17	2.23	0.67	3.51	6.7	U	ND	Y

0.0	2.000	0.17	0.19	1.29	2.23	0.56	3.88	6.7	U	ND	Y
%											Y
100.0	45.00	7.5	8.35	29.50	50.10	25.0	88.5	150.3	U	ND	Y
100.0	45.00	45.0	50.10	32.85	50.10	150.3	98.5	150.3	U	ND	Y
100.0	45.00	5.9	6.59	27.01	50.10	19.8	81.0	150.3	U	ND	Y
100.0	45.00	6.4	7.16	27.86	50.10	21.5	83.6	150.3	U	ND	Y
100.0	45.00	3.0	3.34	27.10	50.10	10.0	81.3	150.3	U	ND	Y
100.0	45.00	7.5	8.35	29.50	50.10	25.0	88.5	150.3	U	ND	Y
100.0	45.00	6.4	7.16	27.02	50.10	21.5	81.1	150.3	U	ND	Y
100.0	45.00	45.0	50.10	32.85	50.10	150.3	98.5	150.3	U	ND	Y
100.0	45.00	3.5	3.85	27.95	50.10	11.6	83.9	150.3	U	ND	Y
100.0	45.00	5.6	6.26	30.23	50.10	18.8	90.7	150.3	U	ND	Y
0.0	45.00	7.5	8.35	29.50	50.10	25.0	88.5	150.3	U	ND	Y
0.0	25.000	3.6	3.98	15.48	27.83	11.9	46.4	83.5	U	ND	Y
%											Y
12.3											Y
69.4											Y
0.0											Y
0.0											Y
0.0											Y
30.6											Y
0.0											Y
%											Y
67.4	5.000	2.5	2.78	3.43	5.57	8.3	10.3	16.7	U	ND	Y
32.6	5.000	1.7	1.86	3.35	5.57	5.6	10.1	16.7	U	ND	Y
0.0	25.000	6.3	6.96	16.57	27.83	20.9	49.7	83.5	U	ND	Y
0.0	25.000	5.0	5.57	16.46	27.83	16.7	49.4	83.5	U	ND	Y
0.0	25.000	4.2	4.64	16.39	27.83	13.9	49.2	83.5	U	ND	Y
0.0	25.000	3.6	3.98	16.33	27.83	11.9	49.0	83.5	U	ND	Y
0.0	25.000	3.1	3.48	16.28	27.83	10.4	48.8	83.5	U	ND	Y
0.0	25.000	2.8	3.09	16.25	27.83	9.3	48.8	83.5	U	ND	Y
0.0	25.000	2.5	2.78	16.23	27.83	8.3	48.7	83.5	U	ND	Y
0.0	25.000	2.3	2.53	16.21	27.83	7.6	48.6	83.5	U	ND	Y
0.0	25.000	2.1	2.32	16.19	27.83	7.0	48.6	83.5	U	ND	Y
0.0	25.000	2.1	2.32	16.19	27.83	7.0	48.6	83.5	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.11	3.29	6.68	3.3	9.9	20.0			Y
0.0	6.0	0.9	0.95	3.92	6.68	2.9	11.8	20.0			Y
0.0	6.0	0.7	0.74	3.90	6.68	2.2	11.7	20.0			Y
0.0	6.0	0.5	0.61	3.55	6.68	1.8	10.7	20.0			Y
0.0	6.0	0.7	0.74	3.47	6.68	2.2	10.4	20.0			Y
0.0	6.0	0.5	0.61	3.54	6.68	1.8	10.6	20.0			Y
0.0	2.0	0.3	0.37	1.31	2.23	1.1	3.9	6.7	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					1.8		1.80		
					0.0			0.00	
	2.2					2.17			
					0.0		0.00		
	1.9					1.92			
		0.0				0.00			
					0.0				
					0.0		0.00		
					0.0		0.00		
	0.0					0.00			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		0.0				0.00			
					0.0		0.00		
					0.0				
	0.0					0.00			
					0.0		0.00		
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					0.0		0.00		
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		0.0				0.00			
			0.0						0.00
					0.0				
			0.0						0.00
					0.0				
		0.0				0.00			
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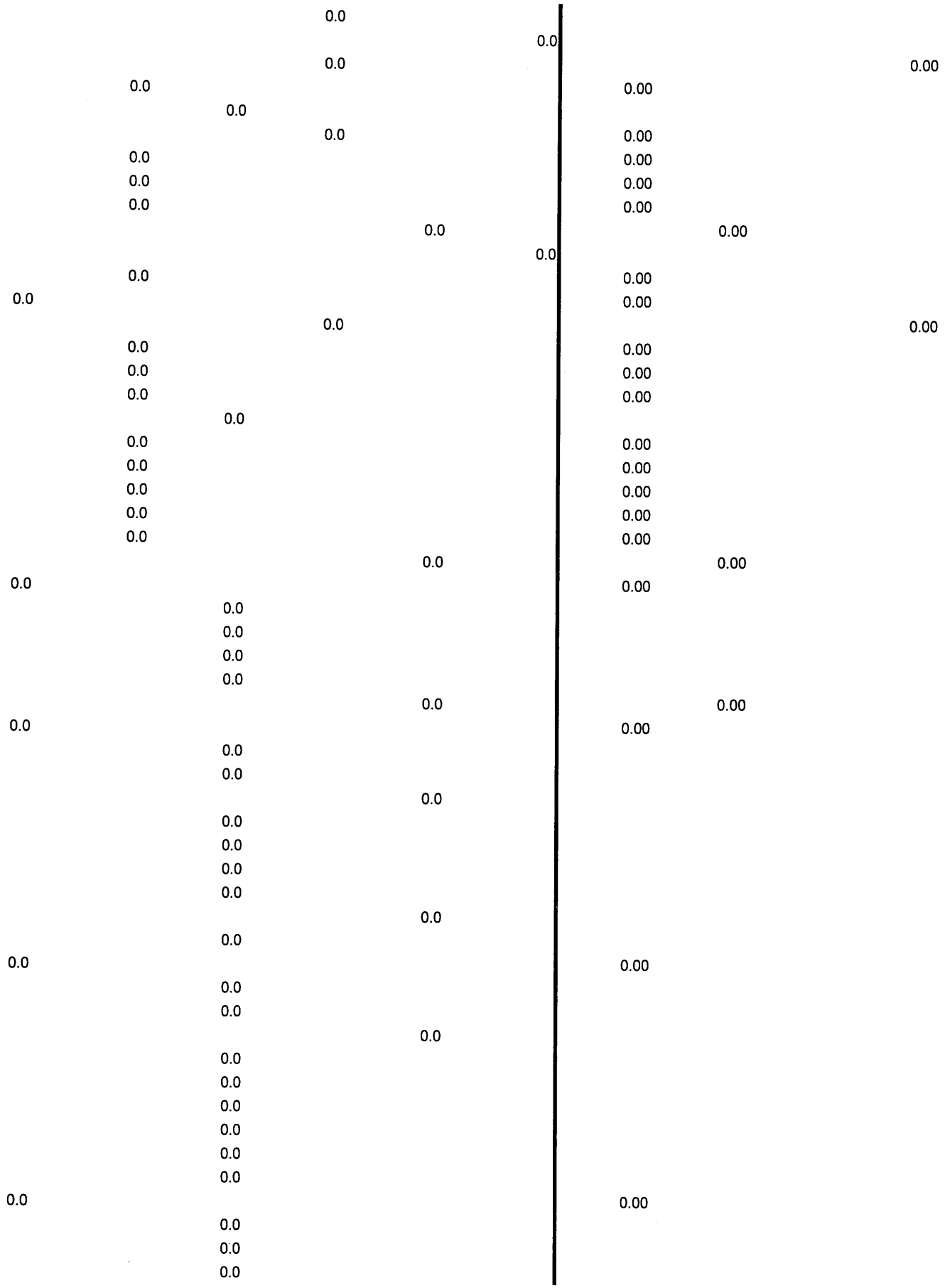
		0.0				0.00			
					0.0		0.00		
	0.0					0.00			
					0.0				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4.1	0.0	0.0	0.0	1.8	0.0	4.1	1.8	0.0	0.0

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0.00	0.00		
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		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
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				0.00	
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SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**32**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.11
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = $\text{Sum}\left|\frac{(\text{Astdni})}{(\text{Cstdni})}\right|_i$

2) ppbC = $\frac{\text{6 Carbons} \times \text{Ansamp} \times \text{CDF} \times 1000}{\text{(Avg RFn)} \times \text{SV}} = \textbf{Cn}$

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = $\frac{\text{(amt(ppbv)} \times \text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.09E+04	1270	1.8	0.90	1.04
Acetylene	2	TRG	26.0	2.09E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.09E+04	1532	2.2	1.09	1.34
Propene	3	TRG	4.5	2.09E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.09E+04	1353	1.9	0.64	1.16
i-Butane	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.09E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.09E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.09E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.09E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.09E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.09E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.09E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.09E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.09E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.09E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.09E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.09E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.09E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.09E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.09E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.09E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.09E+04	33740	47.9	7.98	28.19	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.09E+04	33740	47.9	47.88	31.40	
Total Volatile Organic Compoun	8	TRG	100.0	2.09E+04	33740	47.9	6.30	25.82	
TPH (gasoline)	7	TRG	95.0	2.09E+04	33740	47.9	6.84	26.63	
TPH (diesel)	15	TRG	198.0	2.09E+04	33740	47.9	3.19	25.90	
TPH (hexane)	6	TRG	86.2	2.09E+04	33740	47.9	7.98	28.19	
TPH (toluene)	7	TRG	92.1	2.09E+04	33740	47.9	6.84	25.83	
TPH (methane)	1	TRG	16.0	2.09E+04	33740	47.9	47.88	31.40	
TPH (Jet A Fuel)	13	TRG	177.0	2.09E+04	33740	47.9	3.68	26.72	
TPH (Mineral Spirits)	8	TRG	117.8	2.09E+04	33740	47.9	5.99	28.90	
C6+ (hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.09E+04		5.9			Sum ID
Paraffins	P	TRG	0.0	2.09E+04		4.1			Sum P
Isoparaffins	I	TRG	0.0	2.09E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.09E+04		0.0			Sum A
Napthlenes	N	TRG	0.0	2.09E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.09E+04		1.8			Sum O
Oxygenates		TRG	0.0	2.09E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.09E+04	2802	4.0	1.99	2.45	
C3 (propane)	3	TRG	44.1	2.09E+04	1353	1.9	0.64	1.16	
C4 (Butane)	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.09E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.09E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.09E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.09E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.09E+04	4155	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 33

File Name: 2510033A
Description: T-215
Canister: 751
QC_Batch: 040125-GCK

Date Sampled: 03/20/25 **Time:** 12:44
Date Analyzed: 04/01/25 **Time:** 16:15
Can Factor: 1.29
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.29	3.87	2.16	1.49	4.46	2.49	J
74-86-2	Acetylene	1.29	3.87	ND	1.38	4.13	ND	ND
74-84-0	Ethane	1.29	3.87	3.00	1.59	4.78	3.69	J
115-07-1	Propene	0.86	2.58	ND	1.48	4.45	ND	ND
74-98-6	Propane	0.86	2.58	1.82	1.56	4.67	3.29	J
75-28-5	i-Butane	0.65	1.94	ND	1.54	4.61	ND	ND
106-98-9	1-Butene	0.65	1.94	ND	1.48	4.45	ND	ND
106-97-8	n-Butane	0.65	1.94	ND	1.54	4.61	ND	ND
624-64-6	t-2-Butene	0.65	1.94	ND	1.48	4.45	ND	ND
590-18-1	c-2-Butene	0.65	1.94	ND	1.48	4.45	ND	ND
78-78-4	i-Pentane	0.52	1.55	ND	1.53	4.58	ND	ND
109-67-1	1-Pentene	0.52	1.55	ND	1.48	4.45	ND	ND
109-66-0	n-Pentane	0.52	1.55	ND	1.53	4.58	ND	ND
646-04-8	t-2-Pentene	0.52	1.55	ND	1.48	4.45	ND	ND
627-20-3	c-2-Pentene	0.52	1.55	ND	1.48	4.45	ND	ND
75-83-2	2,2-Dimethylbutane	0.43	1.29	ND	1.52	4.56	ND	ND
142-29-0	Cyclopentene	0.52	1.55	ND	1.44	4.32	ND	ND
287-92-3	Cyclopentane	0.52	1.55	0.53	1.48	4.45	1.53	J
79-29-8	2,3-Dimethylbutane	0.43	1.29	ND	1.52	4.56	ND	ND
107-83-5	2-Methylpentane	0.43	1.29	ND	1.52	4.56	ND	ND
96-14-0	3-Methylpentane	0.43	1.29	2.44	1.52	4.56	8.63	
592-41-6	1-Hexene	0.43	1.29	ND	1.48	4.45	ND	ND
110-54-3	n-Hexane	0.43	1.29	ND	1.52	4.56	ND	ND
1120-62-3	3-Methylcyclopentene	0.43	1.29	ND	1.45	4.34	ND	ND
96-37-7	Methylcyclopentane	0.43	1.29	ND	1.48	4.45	ND	ND
108-08-7	2,4-Dimethylpentane	0.37	1.11	ND	1.51	4.54	ND	ND
71-43-2	Benzene	0.43	1.29	0.64	1.38	4.13	2.06	J
110-82-7	Cyclohexane	0.43	1.29	ND	1.48	4.45	ND	ND
591-76-4	2-Methylhexane	0.37	1.11	ND	1.51	4.54	ND	ND
565-59-3	2,3-Dimethylpentane	0.37	1.11	ND	1.51	4.54	ND	ND
589-34-4	3-Methylhexane	0.37	1.11	ND	1.51	4.54	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.32	0.97	ND	1.51	4.53	ND	ND
142-82-5	n-Heptane	0.37	1.11	ND	1.51	4.54	ND	ND
108-87-2	Methylcyclohexane	0.37	1.11	ND	1.48	4.45	ND	ND
592-13-2	2,5-Dimethylhexane	0.32	0.97	ND	1.51	4.53	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.97	ND	1.51	4.53	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.32	0.97	ND	1.51	4.53	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.37	1.11	ND	1.39	4.18	ND	ND
584-94-1	2,3-Dimethylhexane	0.32	0.97	ND	1.51	4.53	ND	ND
592-27-8	2-Methylheptane	0.32	0.97	ND	1.51	4.53	ND	ND
589-53-7	4-Methylheptane	0.32	0.97	ND	1.51	4.53	ND	ND
589-81-1	3-Methylheptane	0.32	0.97	ND	1.51	4.53	ND	ND
111-65-9	n-Octane	0.32	0.97	ND	1.51	4.53	ND	ND
100-41-4	Ethylbenzene	0.32	0.97	ND	1.40	4.21	ND	ND
108-38-3	m,p-xylene	0.32	0.97	ND	1.40	4.21	ND	ND
100-42-5	Styrene	0.32	0.97	ND	1.38	4.13	ND	ND
95-47-6	o-xylene	0.32	0.97	ND	1.40	4.21	ND	ND
111-84-2	n-Nonane	0.29	0.86	ND	1.51	4.53	ND	ND
98-82-8	i-Propylbenzene	0.29	0.86	ND	1.41	4.24	ND	ND
103-65-1	n-propylbenzene	0.29	0.86	ND	1.41	4.24	ND	ND
620-14-4	3-Ethyltoluene	0.29	0.86	ND	1.41	4.24	ND	ND
622-96-8	4-Ethyltoluene	0.29	0.86	ND	1.41	4.24	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.29	0.86	ND	1.41	4.24	ND	ND
611-14-3	2-Ethyltoluene	0.29	0.86	ND	1.41	4.24	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	0.86	ND	1.41	4.24	ND	ND
124-18-5	n-Decane	0.26	0.77	ND	1.51	4.52	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.29	0.86	ND	1.41	4.24	ND	ND
141-93-5	1,3-Diethylbenzene	0.26	0.77	ND	1.42	4.26	ND	ND
105-05-5	1,4-Diethylbenzene	0.26	0.77	ND	1.42	4.26	ND	ND
104-51-8	n-Butylbenzene	0.26	0.77	ND	1.42	4.26	ND	ND
1120-21-4	Undecane	0.23	0.70	ND	1.50	4.51	ND	ND
91-20-3	Naphthalene	0.26	0.77	ND	1.36	4.07	ND	ND
112-40-3	Dodecane	0.22	0.65	ND	1.50	4.51	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.68	29.05	22.88	34.21	102.62	80.82	J
TNMHC - C1	Total Non-Methane Hydrocarbons	58.09	174.28	137.26	38.09	114.28	90.01	J

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **33**
File Name: **2510033A**
Sample ID: **T-215**
Sampled: **3/20/2025**
Received: **03/21/25**
Analyzed: **04/01/25**
QCBatch: **040125-GCK**
Can: **751**
Can Factor: **1.29**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **12:44** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **16:15** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **390567**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C5 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.09	**4.07**	2624	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.13			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.20**	3640	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.19**	1258	I	O	M	294	290
74-98-6	Propane	P	5.20	**5.20**	**5.25**	3323	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.65**						128	351
67-56-1	Methanol		8.30	8.35						128	401
106-98-9	1-Butene	P	7.29	7.34	**7.30**		I	I	H	367	367
106-99-0	1,3-Butadiene		**7.48**	7.53						128	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.31**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.72	**8.73**		I	I	H	410	410
590-18-1	c-2-Butene	P	9.63	9.60						201	431
64-17-5	Ethanol		10.85	10.85						201	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.05						201	465
67-64-1	Acetone		11.52	11.52						201	476
78-78-4	i-Pentane	P	11.37	11.37	**11.39**		I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.30						201	495
67-63-0	Isopropanol		12.65	12.65						201	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.36						201	497
109-66-0	n-Pentane	P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.55						162	503
646-04-8	t-2-Pentene	P	12.79	12.79						162	510
627-20-3	c-2-Pentene	P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.55						280	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.62						280	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.77	**13.79**		I	I	H	536	537
142-29-0	Cyclopentene	15	**14.61**	14.61						162	551
71-23-8	n-Propanol		**14.75**	14.75						162	558
287-92-3	Cyclopentane	P	14.88	14.88	**14.98**	1615	I	I	H	568	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.06						162	570
107-83-5	2-Methylpentane	P	15.08	15.08	**15.08**		I	I	H	570	571
96-14-0	3-Methylpentane	P	15.55	15.55	**15.51**	8907	I	I	H	582	583
592-41-6	1-Hexene	P	**15.80**	15.80						162	590
110-54-3	n-Hexane	P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						262	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86	**16.87**		I	I	H	621	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05	**16.99**		I	I	H	625	626
71-43-2	Benzene		P	17.87	**17.87**	**17.92**	2345	I	I	H	654	651
110-82-7	Cyclohexane		P	18.14	18.19	**18.15**		I	I	H	661	658
591-76-4	2-Methylhexane		P	18.38	18.43						104	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.50	**18.46**		I	I	H	670	671
589-34-4	3-Methylhexane		P	18.66	18.71	**18.68**		I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.80						104	687
994-05-8	Tert amyl methyl ether			**18.80**	18.85						104	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.14	**19.10**		I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.46	**19.43**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.14	**20.11**		I	I	H	723	722
592-13-2	2,5-Dimethylhexane			20.35	20.40						32	734
589-43-5	2,4-Dimethylhexane			20.43	20.48	**20.46**		I	I	H	735	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.98	**20.95**		I	I	H	752	753
108-88-3	Toluene		P	21.12	**21.17**	**21.11**		I	I	H	758	758
584-94-1	2,3-Dimethylhexane			21.20	21.19	**21.22**		I	I	H	762	763
592-27-8	2-Methylheptane		P	21.33	21.32						32	768
589-53-7	4-Methylheptane	48		**21.48**	21.47						32	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.49						32	772
589-81-1	3-Methylheptane		p	21.55	21.54						32	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.09						32	786
111-65-9	n-Octane		P	22.27	22.26	**22.34**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.74	**23.72**		I	I	H	853	855
108-38-3	m,p-xylene		P	23.95	23.94	**23.92**		I	I	H	861	863
100-42-5	Styrene		P	24.40	24.39						-63	881
95-47-6	o-xylene		P	24.57	24.56	**24.65**		I	O	M	889	886
124-11-8	1-Nonene	64		24.60	24.59						-63	889
111-84-2	n-Nonane		P	24.87	24.86	**24.93**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.35	**25.28**		I	O	M	915	919
103-65-1	n-propylbenzene		P	25.93	25.92	**25.95**		I	O	M	944	947
80-56-8	a-Pinene			26.09	26.08						-175	950
620-14-4	3-Ethyltoluene		P	26.17	26.16	**26.13**		I	O	M	952	957
622-96-8	4-Ethyltoluene		P	26.26	26.25	**26.34**		I	I	H	961	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.44	**26.44**		I	I	H	965	964
611-14-3	2-Ethyltoluene		P	26.61	26.60	**26.61**		I	I	H	972	975
127-91-3	b-Pinene			26.80	26.79	**26.78**		I	I	H	980	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.07	**27.02**		I	I	H	990	991
124-18-5	n-Decane		P	27.26	27.25	**27.25**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.54	**27.46**		I	O	M	1008	1014
496-11-7	Indan	81		27.55	27.54						-48	1020
5989-27-5	d-Limonene			27.65	27.64						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.09	**28.06**		I	I	H	1031	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.22	**28.20**		I	I	H	1037	1037
104-51-8	n-Butylbenzene			28.45	28.44	**28.34**		I	O	M	1042	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.59						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.74						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.82						-48	1060
1120-21-4	Undecane		P	29.86	29.85	**29.85**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.44						-35	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.49						-35	1124
91-20-3	Naphthalene		32.25	32.24						-35	1193
112-40-3	Dodecane	P	32.46	32.45	**32.48**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					169522		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					83408		51750			
TNMHC - C1	Total Non-Methane Hydrocarbons					83408		11455			
TVOC	Total Volatile Organic Compounds					83408		22909			
TPH(g)	TPH (gasoline)					83408		0			
TPH(d)	TPH (diesel)					83408		0			
TPH(h)	TPH (hexane)					83408		0			
TPH(t)	TPH (toluene)					83408		0			
TPHC	TPH (methane)					83408		0			
TPH(Jet A)	TPH (Jet A Fuel)					83408		**86114**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					83408					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			6264		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			4581		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**10845**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040125-GCK		
Hexane Std Area:	390567		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.29	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.29		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	4.32	2.16	2.49	4.32	2.16	2.49	2.49	2.49
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	5.99	3.00	3.69	5.99	3.00	3.69	3.69	3.69
Propene	42.1	3	2.07	0.69	1.19	ND	ND	ND	0	
Propane	44.1	3	5.47	1.82	3.29	5.47	1.82	3.29	3.29	3.29
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	2.66	0.53	1.53	2.66	0.53	1.53	1.53	1.53
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	14.66	2.44	8.63	14.66	2.44	8.63	8.63	8.63
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	3.86	0.64	2.06	3.86	0.64	2.06	2.06	2.06
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	137.26	22.9	80.8	137.26	22.88	80.82	80.82	80.82
Total Non-Methane Hydrocarbons	16	1.0	137.26	137.3	90.0	137.26	137.26	90.01	90.01	90.01
Total Volatile Organic Compounds	100	7.6	137.26	18.1	74.0	137.26	18.06	74.02	74.02	74.02
TPH (gasoline)	95	7.0	137.26	19.6	76.3	137.26	19.61	76.35	76.35	76.35
TPH (diesel)	198	15.0	137.26	9.2	74.3	137.26	9.15	74.26	74.26	74.26
TPH (hexane)	86.2	6.0	137.26	22.9	80.8	137.26	22.88	80.82	80.82	80.82
TPH (toluene)	92.14	7.0	137.26	19.6	74.0	137.26	19.61	74.05	74.05	74.05
TPH (methane)	16	1.0	137.26	137.3	90.0	137.26	137.26	90.01	90.01	90.01
TPH (Jet A Fuel)	177	13.0	137.26	10.6	76.6	137.26	10.56	76.59	76.59	76.59
TPH (Mineral Spirits)	117.81	8.0	137.26	17.2	82.8	137.26	17.16	82.84	82.84	82.84
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			39.0	11.3						
Paraffins			11.5							
Isoparaffins			14.7							
Aromatics			3.9							
Napthlenes			2.7							
Olefins			6.4							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	10.31	5.15	6.36	10.31	5.15	6.36	6.36	6.36
C3 (propane)	44.1	3	7.54	2.51	4.54	7.54	2.51	4.54	4.54	4.54
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			17.8							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	26.1	66.9
Alkenes	6.4	16.4
Alkynes	0.0	0.0
Cycloalkanes	2.7	6.8
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	3.9	9.9
Terpenes	0.0	0.0

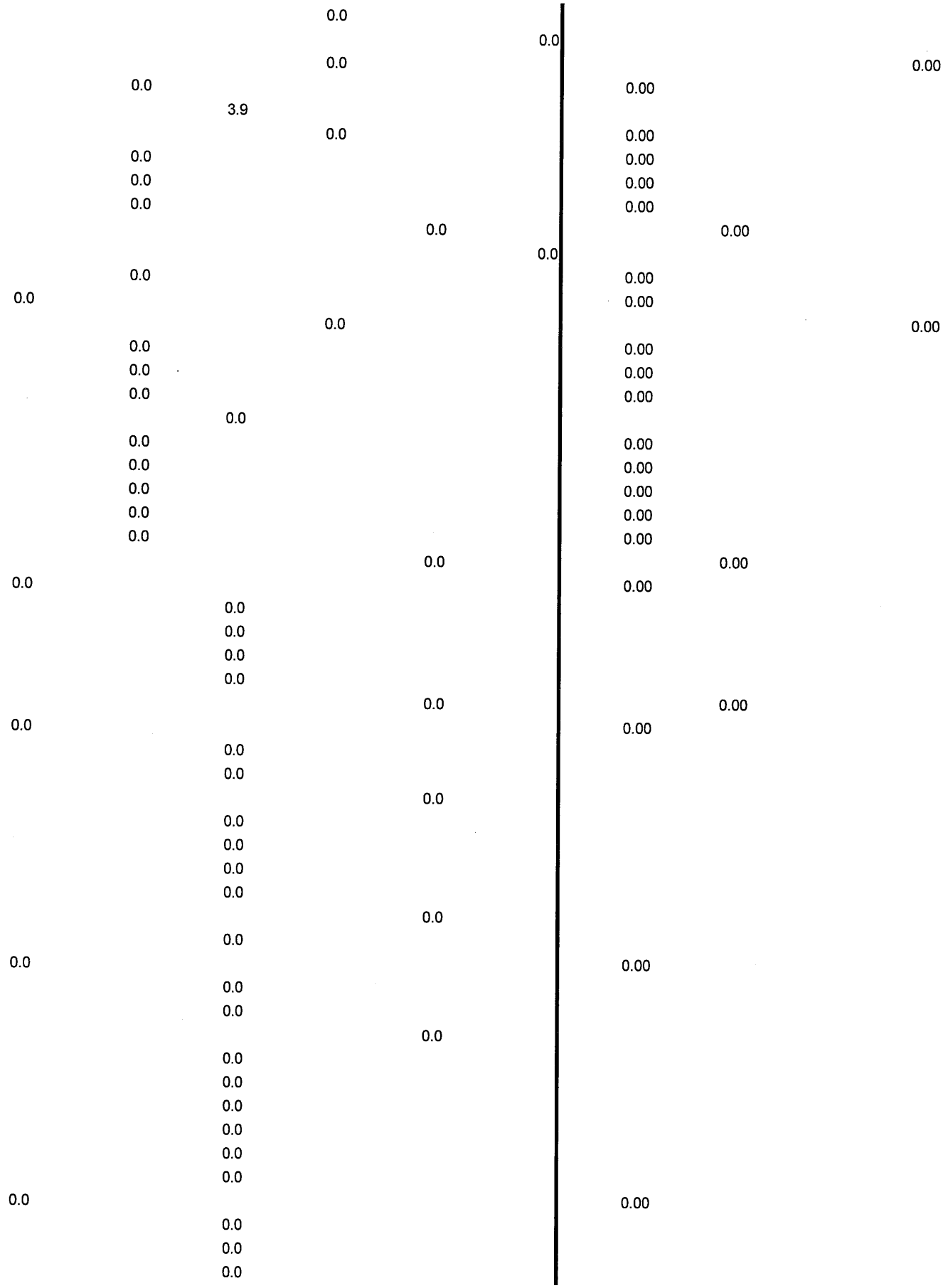
SDG: **225100**
Laboratory Number: **33**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
19.1	2.000	1.00	1.29	1.49	2.58	3.87	4.46	7.7	J	=		Y
0.0	2.000	1.00	1.29	1.38	2.58	3.87	4.13	7.7	U	ND		Y
26.5	2.000	1.00	1.29	1.59	2.58	3.87	4.78	7.7	J	=		Y
6.1	2.000	0.67	0.86	1.48	2.58	2.58	4.45	7.7	U	ND		Y
16.2	2.000	0.67	0.86	1.56	2.58	2.58	4.67	7.7	J	=		Y
0.0	2.000	0.50	0.65	1.54	2.58	1.94	4.61	7.7	U	ND		Y
0.0	2.000	2.00	2.58	3.39	2.58	7.75	10.16	7.7	U	ND		Y
0.0	2.000	0.50	0.65	1.48	2.58	1.94	4.45	7.7	U	ND		Y
0.0	2.000	0.50	0.65	1.43	2.58	1.94	4.29	7.7	U	ND		Y
0.0	2.000	0.50	0.65	1.54	2.58	1.94	4.61	7.7	U	ND		Y
0.0	2.000	0.50	0.65	1.48	2.58	1.94	4.45	7.7	U	ND		Y
0.0	2.000	0.50	0.65	1.48	2.58	1.94	4.45	7.7	U	ND		Y
0.0	2.000	1.00	1.29	2.44	2.58	3.87	7.32	7.7	U	ND		Y
0.0	2.000	0.40	0.52	1.48	2.58	1.55	4.45	7.7	U	ND		Y
0.0	2.000	0.67	0.86	2.05	2.58	2.58	6.15	7.7	U	ND		Y
0.0	2.000	0.40	0.52	1.53	2.58	1.55	4.58	7.7	U	ND		Y
0.0	2.000	0.40	0.52	1.48	2.58	1.55	4.45	7.7	U	ND		Y
0.0	2.000	0.67	0.86	2.12	2.58	2.58	6.36	7.7	U	ND		Y
0.0	2.000	0.40	0.52	1.48	2.58	1.55	4.45	7.7	U	ND		Y
0.0	2.000	0.40	0.52	1.53	2.58	1.55	4.58	7.7	U	ND		Y
0.0	2.000	0.40	0.52	1.44	2.58	1.55	4.32	7.7	U	ND		Y
0.0	2.000	0.40	0.52	1.48	2.58	1.55	4.45	7.7	U	ND		Y
0.0	2.000	0.40	0.52	1.48	2.58	1.55	4.45	7.7	U	ND		Y
0.0	2.000	0.50	0.65	1.96	2.58	1.94	5.88	7.7	U	ND		Y
0.0	2.000	0.40	0.52	1.48	2.58	1.55	4.45	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.52	2.58	1.29	4.56	7.7	U	ND		Y
0.0	2.000	0.40	0.52	1.44	2.58	1.55	4.32	7.7	U	ND		Y
0.0	2.000	0.67	0.86	2.12	2.58	2.58	6.36	7.7	U	ND		Y
4.7	2.000	0.40	0.52	1.48	2.58	1.55	4.45	7.7	J	=		Y
0.0	2.000	0.40	0.52	1.87	2.58	1.55	5.60	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.52	2.58	1.29	4.56	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.52	2.58	1.29	4.56	7.7	U	ND		Y
21.6	2.000	0.33	0.43	1.52	2.58	1.29	4.56	7.7		=		Y
0.0	2.000	0.33	0.43	1.48	2.58	1.29	4.45	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.52	2.58	1.29	4.56	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.80	2.58	1.29	5.41	7.7	U	ND		Y

0.0	2.000	0.33	0.43	1.45	2.58	1.29	4.34	7.7	U	ND	Y
0.0	2.000	0.33	0.43	1.80	2.58	1.29	5.41	7.7	U	ND	Y
0.0	2.000	0.33	0.43	1.48	2.58	1.29	4.45	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.58	1.11	4.54	7.7	U	ND	Y
5.7	2.000	0.33	0.43	1.38	2.58	1.29	4.13	7.7	J	=	Y
0.0	2.000	0.33	0.43	1.48	2.58	1.29	4.45	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.58	1.11	4.54	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.58	1.11	4.54	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.58	1.11	4.54	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.48	2.58	1.11	4.45	7.7	U	ND	Y
0.0	2.000	0.33	0.43	1.80	2.58	1.29	5.41	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.58	0.97	4.53	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.58	1.11	4.54	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.48	2.58	1.11	4.45	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.58	0.97	4.53	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.58	0.97	4.53	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.58	0.97	4.53	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.39	2.58	1.11	4.18	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.58	0.97	4.53	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.58	0.97	4.53	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.58	0.97	4.53	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.58	0.97	4.53	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.58	0.97	4.53	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.58	0.97	4.45	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.58	0.97	4.53	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.40	2.58	0.97	4.21	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.40	2.58	0.97	4.21	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.38	2.58	0.97	4.13	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.40	2.58	0.97	4.21	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.48	2.58	0.86	4.45	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.51	2.58	0.86	4.53	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.58	0.86	4.24	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.58	0.86	4.24	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.58	0.77	4.32	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.58	0.86	4.24	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.58	0.86	4.24	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.58	0.86	4.24	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.58	0.86	4.24	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.58	0.77	4.32	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.58	0.86	4.24	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.51	2.58	0.77	4.52	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.58	0.86	4.24	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.39	2.58	0.86	4.17	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.58	0.77	4.32	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.42	2.58	0.77	4.26	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.42	2.58	0.77	4.26	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.42	2.58	0.77	4.26	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.42	2.58	0.77	4.26	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.42	2.58	0.77	4.26	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.42	2.58	0.77	4.26	7.7	U	ND	Y
0.0	2.000	0.18	0.23	1.50	2.58	0.70	4.51	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.42	2.58	0.77	4.26	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.42	2.58	0.77	4.26	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.36	2.58	0.77	4.07	7.7	U	ND	Y

0.0	2.000	0.17	0.22	1.50	2.58	0.65	4.51	7.7	U	ND	Y
%											Y
100.0	45.00	7.5	9.68	34.21	58.09	29.0	102.6	174.3	J	=	Y
100.0	45.00	45.0	58.09	38.09	58.09	174.3	114.3	174.3	J	=	Y
100.0	45.00	5.9	7.64	31.33	58.09	22.9	94.0	174.3	J	=	Y
100.0	45.00	6.4	8.30	32.31	58.09	24.9	96.9	174.3	J	=	Y
100.0	45.00	3.0	3.87	31.43	58.09	11.6	94.3	174.3	J	=	Y
100.0	45.00	7.5	9.68	34.21	58.09	29.0	102.6	174.3	J	=	Y
100.0	45.00	6.4	8.30	31.34	58.09	24.9	94.0	174.3	J	=	Y
100.0	45.00	45.0	58.09	38.09	58.09	174.3	114.3	174.3	J	=	Y
100.0	45.00	3.5	4.47	32.42	58.09	13.4	97.3	174.3	J	=	Y
100.0	45.00	5.6	7.26	35.06	58.09	21.8	105.2	174.3	J	=	Y
0.0	45.00	7.5	9.68	34.21	58.09	29.0	102.6	174.3	U	ND	Y
0.0	25.000	3.6	4.61	17.95	32.27	13.8	53.9	96.8	U	ND	Y
%											Y
28.4											Y
29.4											Y
37.6											Y
9.9											Y
6.8											Y
16.4											Y
0.0											Y
%											Y
57.8	5.000	2.5	3.23	3.98	6.45	9.7	11.9	19.4	J	=	Y
42.2	5.000	1.7	2.15	3.89	6.45	6.5	11.7	19.4	J	=	Y
0.0	25.000	6.3	8.07	19.22	32.27	24.2	57.7	96.8	U	ND	Y
0.0	25.000	5.0	6.45	19.09	32.27	19.4	57.3	96.8	U	ND	Y
0.0	25.000	4.2	5.38	19.00	32.27	16.1	57.0	96.8	U	ND	Y
0.0	25.000	3.6	4.61	18.93	32.27	13.8	56.8	96.8	U	ND	Y
0.0	25.000	3.1	4.03	18.88	32.27	12.1	56.6	96.8	U	ND	Y
0.0	25.000	2.8	3.59	18.85	32.27	10.8	56.6	96.8	U	ND	Y
0.0	25.000	2.5	3.23	18.82	32.27	9.7	56.5	96.8	U	ND	Y
0.0	25.000	2.3	2.93	18.79	32.27	8.8	56.4	96.8	U	ND	Y
0.0	25.000	2.1	2.69	18.77	32.27	8.1	56.3	96.8	U	ND	Y
0.0	25.000	2.1	2.69	18.77	32.27	8.1	56.3	96.8	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.29	3.82	7.75	3.9	11.5	23.2			Y
0.0	6.0	0.9	1.11	4.54	7.75	3.3	13.6	23.2			Y
0.0	6.0	0.7	0.86	4.53	7.75	2.6	13.6	23.2			Y
0.0	6.0	0.5	0.70	4.12	7.75	2.1	12.4	23.2			Y
0.0	6.0	0.7	0.86	4.03	7.75	2.6	12.1	23.2			Y
0.0	6.0	0.5	0.70	4.11	7.75	2.1	12.3	23.2			Y
0.0	2.0	0.3	0.43	1.52	2.58	1.3	4.6	7.7	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					4.3		4.32		
					0.0			0.00	
6.0						5.99			
					2.1		2.07		
5.5						5.47			
		0.0				0.00			
					0.0				
					0.0		0.00		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		0.0				0.00			
					0.0		0.00		
					0.0				
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
					0.0				
			2.7						2.66
					0.0				
		0.0				0.00			
		0.0				0.00			
		14.7				14.66			
					0.0		0.00		
0.0						0.00			
					0.0				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0.0						0.00			
11.5	14.7	3.9	2.7	6.4	0.0	26.1	6.4	0.0	2.7

0.00	14.66		
0.00	0.00		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
	0.00				
	0.00				
	0.00				
				0.00	
				0.00	

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0.0	0.0	0.0	0.0	3.9	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**33**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.29
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum $\left|\frac{(Astdni)}{(Cstdni)}\right|_i$

2) ppbC = $\frac{6\ \text{Carbons} \times \text{Ansamp} \times \text{CDF} \times 1000}{(\text{Avg RFn}) \times \text{SV}}$ = **Cn**

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = (amt(ppbv) $\frac{\text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.16E+04	2624	4.3	2.16	2.49
Acetylene	2	TRG	26.0	2.16E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.16E+04	3640	6.0	3.00	3.69
Propene	3	TRG	4.5	2.16E+04	4	2.1	0.69	1.19
Propane	3	TRG	44.1	2.16E+04	3323	5.5	1.82	3.29
i-Butane	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.16E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.16E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.16E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.16E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.16E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.16E+04	1615	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.16E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.16E+04	8907	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.16E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.16E+04	2345	2.7	0.53	1.53
Cyclohexane	5	TRG	88.2	2.16E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.16E+04	0	14.7	2.44	8.63
2,2,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.16E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.16E+04	0	3.9	0.64	2.06	
2-Methylheptane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.16E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.16E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.16E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.16E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.16E+04	83408	137.3	22.88	80.82	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.16E+04	83408	137.3	137.26	90.01	
Total Volatile Organic Compoun	8	TRG	100.0	2.16E+04	83408	137.3	18.06	74.02	
TPH (gasoline)	7	TRG	95.0	2.16E+04	83408	137.3	19.61	76.35	
TPH (diesel)	15	TRG	198.0	2.16E+04	83408	137.3	9.15	74.26	
TPH (hexane)	6	TRG	86.2	2.16E+04	83408	137.3	22.88	80.82	
TPH (toluene)	7	TRG	92.1	2.16E+04	83408	137.3	19.61	74.05	
TPH (methane)	1	TRG	16.0	2.16E+04	83408	137.3	137.26	90.01	
TPH (Jet A Fuel)	13	TRG	177.0	2.16E+04	83408	137.3	10.56	76.59	
TPH (Mineral Spirits)	8	TRG	117.8	2.16E+04	83408	137.3	17.16	82.84	
C6+ (hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.16E+04		39.0			Sum ID
Paraffins	P	TRG	0.0	2.16E+04		11.5			Sum P
Isoparaffins	I	TRG	0.0	2.16E+04		14.7			Sum I
Aromatics	A	TRG	0.0	2.16E+04		3.9			Sum A
Napthlenes	N	TRG	0.0	2.16E+04		2.7			Sum N
Olefins	O	TRG	0.0	2.16E+04		6.4			Sum O
Oxygenates		TRG	0.0	2.16E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.16E+04	6264	10.3	5.15	6.36	
C3 (propane)	3	TRG	44.1	2.16E+04	4581	7.5	2.51	4.54	
C4 (Butane)	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.16E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.16E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.16E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.16E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.16E+04	10845	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 34

File Name: 2510034A
Description: T-216
Canister: 896
QC_Batch: 040125-GCK

Date Sampled: 03/20/25 **Time:** 12:46
Date Analyzed: 04/01/25 **Time:** 19:35
Can Factor: 1.38
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.38	4.15	ND	1.59	4.78	ND	ND
74-86-2	Acetylene	1.38	4.15	ND	1.47	4.42	ND	ND
74-84-0	Ethane	1.38	4.15	2.42	1.71	5.12	2.99	J
115-07-1	Propene	0.92	2.77	ND	1.59	4.77	ND	ND
74-98-6	Propane	0.92	2.77	ND	1.67	5.00	ND	ND
75-28-5	i-Butane	0.69	2.07	ND	1.65	4.94	ND	ND
106-98-9	1-Butene	0.69	2.07	0.80	1.59	4.77	1.83	J
106-97-8	n-Butane	0.69	2.07	1.27	1.65	4.94	3.02	J
624-64-6	t-2-Butene	0.69	2.07	ND	1.59	4.77	ND	ND
590-18-1	c-2-Butene	0.69	2.07	ND	1.59	4.77	ND	ND
78-78-4	i-Pentane	0.55	1.66	ND	1.64	4.91	ND	ND
109-67-1	1-Pentene	0.55	1.66	ND	1.59	4.77	ND	ND
109-66-0	n-Pentane	0.55	1.66	ND	1.63	4.90	ND	ND
646-04-8	t-2-Pentene	0.55	1.66	ND	1.59	4.77	ND	ND
627-20-3	c-2-Pentene	0.55	1.66	ND	1.59	4.77	ND	ND
75-83-2	2,2-Dimethylbutane	0.46	1.38	ND	1.63	4.89	ND	ND
142-29-0	Cyclopentene	0.55	1.66	ND	1.54	4.63	ND	ND
287-92-3	Cyclopentane	0.55	1.66	0.60	1.59	4.77	1.71	J
79-29-8	2,3-Dimethylbutane	0.46	1.38	ND	1.63	4.89	ND	ND
107-83-5	2-Methylpentane	0.46	1.38	ND	1.63	4.89	ND	ND
96-14-0	3-Methylpentane	0.46	1.38	ND	1.63	4.89	ND	ND
592-41-6	1-Hexene	0.46	1.38	ND	1.59	4.77	ND	ND
110-54-3	n-Hexane	0.46	1.38	ND	1.63	4.89	ND	ND
1120-62-3	3-Methylcyclopentene	0.46	1.38	ND	1.55	4.65	ND	ND
96-37-7	Methylcyclopentane	0.46	1.38	ND	1.59	4.77	ND	ND
108-08-7	2,4-Dimethylpentane	0.40	1.19	ND	1.62	4.87	ND	ND
71-43-2	Benzene	0.46	1.38	ND	1.48	4.43	ND	ND
110-82-7	Cyclohexane	0.46	1.38	ND	1.59	4.77	ND	ND
591-76-4	2-Methylhexane	0.40	1.19	ND	1.62	4.87	ND	ND
565-59-3	2,3-Dimethylpentane	0.40	1.19	ND	1.62	4.87	ND	ND
589-34-4	3-Methylhexane	0.40	1.19	ND	1.62	4.87	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.35	1.04	ND	1.62	4.85	ND	ND
142-82-5	n-Heptane	0.40	1.19	ND	1.62	4.87	ND	ND
108-87-2	Methylcyclohexane	0.40	1.19	ND	1.59	4.77	ND	ND
592-13-2	2,5-Dimethylhexane	0.35	1.04	ND	1.62	4.85	ND	ND
589-43-5	2,4-Dimethylhexane	0.35	1.04	ND	1.62	4.85	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.35	1.04	ND	1.62	4.85	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.40	1.19	ND	1.49	4.47	ND	ND
584-94-1	2,3-Dimethylhexane	0.35	1.04	ND	1.62	4.85	ND	ND
592-27-8	2-Methylheptane	0.35	1.04	ND	1.62	4.85	ND	ND
589-53-7	4-Methylheptane	0.35	1.04	ND	1.62	4.85	ND	ND
589-81-1	3-Methylheptane	0.35	1.04	ND	1.62	4.85	ND	ND
111-65-9	n-Octane	0.35	1.04	ND	1.62	4.85	ND	ND
100-41-4	Ethylbenzene	0.35	1.04	ND	1.50	4.51	ND	ND
108-38-3	m,p-xylene	0.35	1.04	ND	1.50	4.51	ND	ND
100-42-5	Styrene	0.35	1.04	ND	1.48	4.43	ND	ND
95-47-6	o-xylene	0.35	1.04	ND	1.50	4.51	ND	ND
111-84-2	n-Nonane	0.31	0.92	ND	1.62	4.85	ND	ND
98-82-8	i-Propylbenzene	0.31	0.92	ND	1.51	4.54	ND	ND
103-65-1	n-propylbenzene	0.31	0.92	ND	1.51	4.54	ND	ND
620-14-4	3-Ethyltoluene	0.31	0.92	ND	1.51	4.54	ND	ND
622-96-8	4-Ethyltoluene	0.31	0.92	ND	1.51	4.54	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.31	0.92	ND	1.51	4.54	ND	ND
611-14-3	2-Ethyltoluene	0.31	0.92	ND	1.51	4.54	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.31	0.92	ND	1.51	4.54	ND	ND
124-18-5	n-Decane	0.28	0.83	ND	1.61	4.84	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.31	0.92	ND	1.51	4.54	ND	ND
141-93-5	1,3-Diethylbenzene	0.28	0.83	ND	1.52	4.56	ND	ND
105-05-5	1,4-Diethylbenzene	0.28	0.83	ND	1.52	4.56	ND	ND
104-51-8	n-Butylbenzene	0.28	0.83	ND	1.52	4.56	ND	ND
1120-21-4	Undecane	0.25	0.75	ND	1.61	4.83	ND	ND
91-20-3	Naphthalene	0.28	0.83	ND	1.45	4.36	ND	ND
112-40-3	Dodecane	0.23	0.69	ND	1.61	4.83	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	10.37	31.12	ND	36.64	109.92	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	62.23	186.69	ND	40.81	122.42	ND	ND

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **34**
File Name: **2510034A**
Sample ID: **T-216**
Sampled: **3/20/2025**
Received: **03/21/25**
Analyzed: **04/01/25**
QCBatch: **040125-GCK**
Can: **896**
Can Factor: **1.38**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **12:46** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **19:35** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **390567**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.01	**4.07**		NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.05			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.12**	2749	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11						-200	290
74-98-6	Propane	P	5.20	**5.20**	**5.15**	1189	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.55**						138	351
67-56-1	Methanol		8.30	8.25						138	401
106-98-9	1-Butene	P	7.29	7.24	**7.27**	1808	I	I	H	367	367
106-99-0	1,3-Butadiene		**7.48**	7.43						138	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**	2881	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75	**8.70**		I	I	H	409	410
590-18-1	c-2-Butene	P	9.63	9.63						199	431
64-17-5	Ethanol		10.85	10.85						199	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.05						199	465
67-64-1	Acetone		11.52	11.52						199	476
78-78-4	i-Pentane	P	11.37	11.37	**11.42**	973	I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.30						199	495
67-63-0	Isopropanol		12.65	12.65						199	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.36						199	497
109-66-0	n-Pentane	P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.55						162	503
646-04-8	t-2-Pentene	P	12.79	12.79						162	510
627-20-3	c-2-Pentene	P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.55						280	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.62						280	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.77	**13.79**		I	I	H	536	537
142-29-0	Cyclopentene	15	**14.61**	14.61						162	551
71-23-8	n-Propanol		**14.75**	14.75						162	558
287-92-3	Cyclopentane	P	14.88	14.88	**14.80**	1689	I	O	M	563	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.06						162	570
107-83-5	2-Methylpentane	P	15.08	15.08	**15.08**		I	I	H	570	571
96-14-0	3-Methylpentane	P	15.55	15.55	**15.51**		I	I	H	582	583
592-41-6	1-Hexene	P	**15.80**	15.80						162	590
110-54-3	n-Hexane	P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						262	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86	**16.87**		I	I	H	621	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05	**16.99**		I	I	H	625	626
71-43-2	Benzene		P	17.87	**17.87**	**17.92**		I	I	H	654	651
110-82-7	Cyclohexane		P	18.14	18.19	**18.15**		I	I	H	661	658
591-76-4	2-Methylhexane		P	18.38	18.43						104	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.50	**18.46**		I	I	H	670	671
589-34-4	3-Methylhexane		P	18.66	18.71	**18.68**		I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.80						104	687
994-05-8	Tert amyl methyl ether			**18.80**	18.85						104	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.14	**19.10**		I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.46	**19.43**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.14	**20.11**		I	I	H	723	722
592-13-2	2,5-Dimethylhexane			20.35	20.40						32	734
589-43-5	2,4-Dimethylhexane			20.43	20.48	**20.46**		I	I	H	735	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.98	**20.95**		I	I	H	752	753
108-88-3	Toluene		P	21.12	**21.17**	**21.11**		I	I	H	758	758
584-94-1	2,3-Dimethylhexane			21.20	21.19	**21.22**		I	I	H	762	763
592-27-8	2-Methylheptane		P	21.33	21.32						32	768
589-53-7	4-Methylheptane	48		**21.48**	21.47						32	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.49						32	772
589-81-1	3-Methylheptane		p	21.55	21.54						32	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.09						32	786
111-65-9	n-Octane		P	22.27	22.26	**22.34**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.74	**23.72**		I	I	H	853	855
108-38-3	m,p-xylene		P	23.95	23.94	**23.92**		I	I	H	861	863
100-42-5	Styrene		P	24.40	24.39						-63	881
95-47-6	o-xylene		P	24.57	24.56	**24.65**		I	O	M	889	886
124-11-8	1-Nonene	64		24.60	24.59						-63	889
111-84-2	n-Nonane		P	24.87	24.86	**24.93**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.35	**25.28**		I	O	M	915	919
103-65-1	n-propylbenzene		P	25.93	25.92	**25.95**		I	O	M	944	947
80-56-8	a-Pinene			26.09	26.08						-175	950
620-14-4	3-Ethyltoluene		P	26.17	26.16	**26.13**		I	O	M	952	957
622-96-8	4-Ethyltoluene		P	26.26	26.25	**26.34**		I	I	H	961	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.44	**26.44**		I	I	H	965	964
611-14-3	2-Ethyltoluene		P	26.61	26.60	**26.61**		I	I	H	972	975
127-91-3	b-Pinene			26.80	26.79	**26.78**		I	I	H	980	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.07	**27.01**		I	I	H	990	991
124-18-5	n-Decane		P	27.26	27.25	**27.25**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.54	**27.46**		I	O	M	1008	1014
496-11-7	Indan	81		27.55	27.54						-48	1020
5989-27-5	d-Limonene			27.65	27.64						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.09	**28.09**		I	I	H	1032	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.22	**28.20**		I	I	H	1037	1037
104-51-8	n-Butylbenzene			28.45	28.44	**28.34**		I	O	M	1042	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.59						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.74						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.82						-48	1060
1120-21-4	Undecane		P	29.86	29.85	**29.85**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.44						-35	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.49						-35	1124
91-20-3	Naphthalene		32.25	32.24						-35	1193
112-40-3	Dodecane	P	32.46	32.45	**32.48**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					56236		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					31967		24269			
TNMHC - C1	Total Non-Methane Hydrocarbons					31967		0			
TVOC	Total Volatile Organic Compounds					31967		0			
TPH(g)	TPH (gasoline)					31967		0			
TPH(d)	TPH (diesel)					31967		0			
TPH(h)	TPH (hexane)					31967		0			
TPH(t)	TPH (toluene)					31967		0			
TPHC	TPH (methane)					31967		0			
TPH(Jet A)	TPH (Jet A Fuel)					31967		**24269**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					31967					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			2749		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			1189		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**3938**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040125-GCK		
Hexane Std Area:	390567		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.38	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.38		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	4.85	2.42	2.99	4.85	2.42	2.99	2.99	2.99
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	2.10	0.70	1.26	ND	ND	ND	0	
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	3.19	0.80	1.83	3.19	0.80	1.83	1.83	1.83
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	5.08	1.27	3.02	5.08	1.27	3.02	3.02	3.02
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	1.72	0.34	1.02	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	2.98	0.60	1.71	2.98	0.60	1.71	1.71	1.7
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	56.35	9.4	33.2	ND	ND	ND	0	
Total Non-Methane Hydrocarbons	16	1.0	56.35	56.4	37.0	ND	ND	ND	0	
Total Volatile Organic Compounds	100	7.6	56.35	7.4	30.4	ND	ND	ND	0	
TPH (gasoline)	95	7.0	56.35	8.1	31.3	ND	ND	ND	0	
TPH (diesel)	198	15.0	56.35	3.8	30.5	ND	ND	ND	0	
TPH (hexane)	86.2	6.0	56.35	9.4	33.2	ND	ND	ND	0	
TPH (toluene)	92.14	7.0	56.35	8.1	30.4	ND	ND	ND	0	
TPH (methane)	16	1.0	56.35	56.4	37.0	ND	ND	ND	0	
TPH (Jet A Fuel)	177	13.0	56.35	4.3	31.4	ND	ND	ND	0	
TPH (Mineral Spirits)	117.81	8.0	56.35	7.0	34.0	ND	ND	ND	0	
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			19.9	6.1						
Paraffins			12.0							
Isoparaffins			1.7							
Aromatics			0.0							
Napthlenes			3.0							
Olefins			3.2							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	4.85	2.42	2.99	ND	ND	ND	0	
C3 (propane)	44.1	3	2.10	0.70	1.26	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			6.9							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	13.7	69.0
Alkenes	3.2	16.0
Alkynes	0.0	0.0
Cycloalkanes	3.0	15.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	0.0	0.0
Terpenes	0.0	0.0

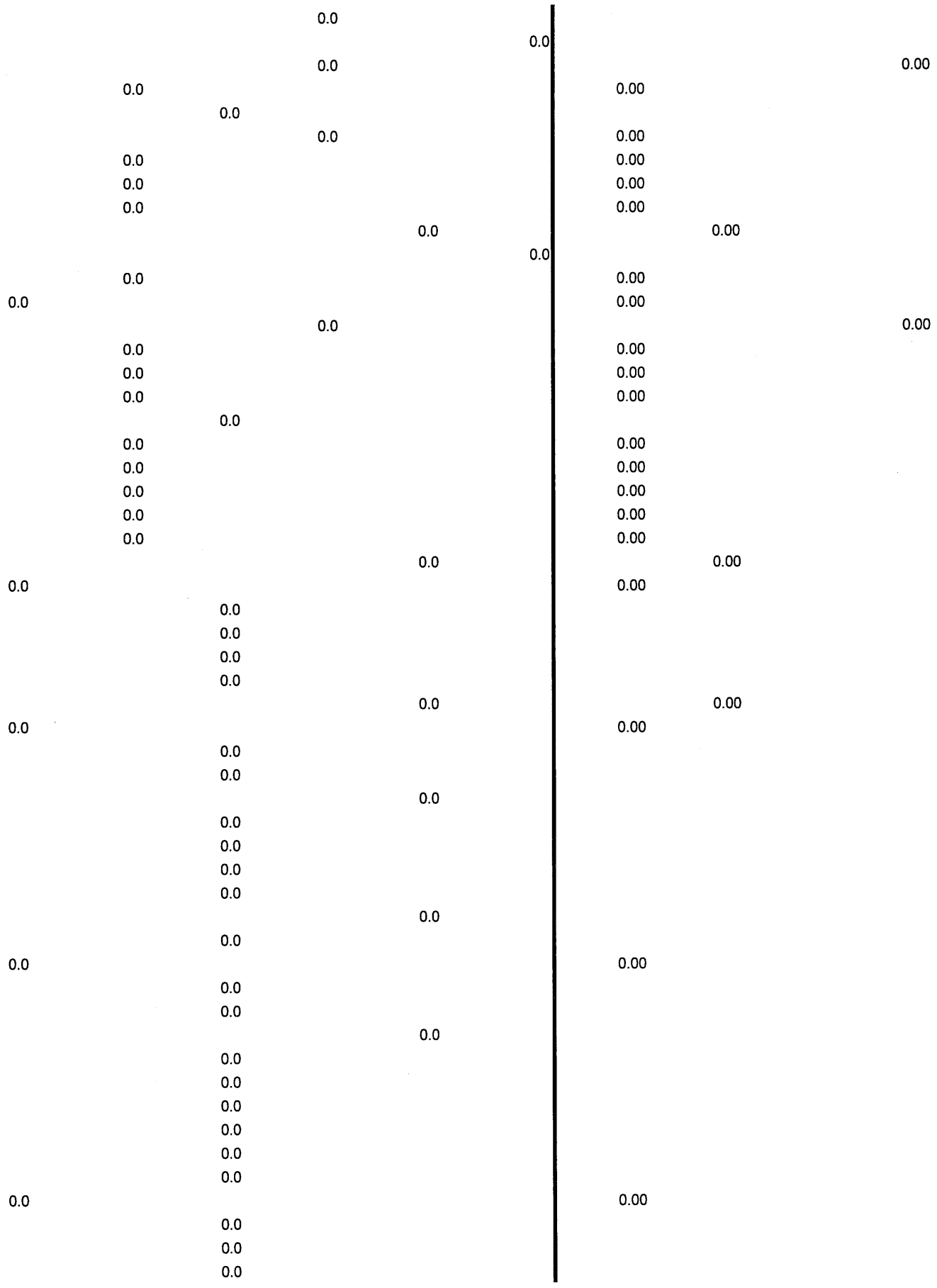
SDG: **225100**
Laboratory Number: **34**

Mole %	(1)	(2)	Calc	Calc	Calc	Calc	Calc	Calc				
Result	MDL	MDL	MDL	MDL	MDL	RL	RL	RL		Detect	EPA	Rept
%	ppbC	ppbV	ppbV	ug/m3	ppbC	ppbV	ug/m3	ppbC	Flag	Flan	Flag	Res
0.0	2.000	1.00	1.38	1.59	2.77	4.15	4.78	8.3	U	ND		Y
0.0	2.000	1.00	1.38	1.47	2.77	4.15	4.42	8.3	U	ND		Y
39.5	2.000	1.00	1.38	1.71	2.77	4.15	5.12	8.3	J	=		Y
0.0	2.000	0.67	0.92	1.59	2.77	2.77	4.77	8.3	U	ND		Y
11.4	2.000	0.67	0.92	1.67	2.77	2.77	5.00	8.3	U	ND		Y
0.0	2.000	0.50	0.69	1.65	2.77	2.07	4.94	8.3	U	ND		Y
0.0	2.000	2.00	2.77	3.63	2.77	8.30	10.88	8.3	U	ND		Y
13.0	2.000	0.50	0.69	1.59	2.77	2.07	4.77	8.3	J	=		Y
0.0	2.000	0.50	0.69	1.53	2.77	2.07	4.60	8.3	U	ND		Y
20.7	2.000	0.50	0.69	1.65	2.77	2.07	4.94	8.3	J	=		Y
0.0	2.000	0.50	0.69	1.59	2.77	2.07	4.77	8.3	U	ND		Y
0.0	2.000	0.50	0.69	1.59	2.77	2.07	4.77	8.3	U	ND		Y
0.0	2.000	1.00	1.38	2.61	2.77	4.15	7.84	8.3	U	ND		Y
0.0	2.000	0.40	0.55	1.59	2.77	1.66	4.77	8.3	U	ND		Y
0.0	2.000	0.67	0.92	2.20	2.77	2.77	6.59	8.3	U	ND		Y
5.6	2.000	0.40	0.55	1.64	2.77	1.66	4.91	8.3	U	ND		Y
0.0	2.000	0.40	0.55	1.59	2.77	1.66	4.77	8.3	U	ND		Y
0.0	2.000	0.67	0.92	2.27	2.77	2.77	6.81	8.3	U	ND		Y
0.0	2.000	0.40	0.55	1.59	2.77	1.66	4.77	8.3	U	ND		Y
0.0	2.000	0.40	0.55	1.63	2.77	1.66	4.90	8.3	U	ND		Y
0.0	2.000	0.40	0.55	1.54	2.77	1.66	4.63	8.3	U	ND		Y
0.0	2.000	0.40	0.55	1.59	2.77	1.66	4.77	8.3	U	ND		Y
0.0	2.000	0.40	0.55	1.59	2.77	1.66	4.77	8.3	U	ND		Y
0.0	2.000	0.50	0.69	2.10	2.77	2.07	6.30	8.3	U	ND		Y
0.0	2.000	0.40	0.55	1.59	2.77	1.66	4.77	8.3	U	ND		Y
0.0	2.000	0.33	0.46	1.63	2.77	1.38	4.89	8.3	U	ND		Y
0.0	2.000	0.40	0.55	1.54	2.77	1.66	4.63	8.3	U	ND		Y
0.0	2.000	0.67	0.92	2.27	2.77	2.77	6.81	8.3	U	ND		Y
9.7	2.000	0.40	0.55	1.59	2.77	1.66	4.77	8.3	J	=		Y
0.0	2.000	0.40	0.55	2.00	2.77	1.66	6.00	8.3	U	ND		Y
0.0	2.000	0.33	0.46	1.63	2.77	1.38	4.89	8.3	U	ND		Y
0.0	2.000	0.33	0.46	1.63	2.77	1.38	4.89	8.3	U	ND		Y
0.0	2.000	0.33	0.46	1.63	2.77	1.38	4.89	8.3	U	ND		Y
0.0	2.000	0.33	0.46	1.59	2.77	1.38	4.77	8.3	U	ND		Y
0.0	2.000	0.33	0.46	1.63	2.77	1.38	4.89	8.3	U	ND		Y
0.0	2.000	0.33	0.46	1.93	2.77	1.38	5.79	8.3	U	ND		Y

0.0	2.000	0.33	0.46	1.55	2.77	1.38	4.65	8.3	U	ND	Y
0.0	2.000	0.33	0.46	1.93	2.77	1.38	5.79	8.3	U	ND	Y
0.0	2.000	0.33	0.46	1.59	2.77	1.38	4.77	8.3	U	ND	Y
0.0	2.000	0.29	0.40	1.62	2.77	1.19	4.87	8.3	U	ND	Y
0.0	2.000	0.33	0.46	1.48	2.77	1.38	4.43	8.3	U	ND	Y
0.0	2.000	0.33	0.46	1.59	2.77	1.38	4.77	8.3	U	ND	Y
0.0	2.000	0.29	0.40	1.62	2.77	1.19	4.87	8.3	U	ND	Y
0.0	2.000	0.29	0.40	1.62	2.77	1.19	4.87	8.3	U	ND	Y
0.0	2.000	0.29	0.40	1.62	2.77	1.19	4.87	8.3	U	ND	Y
0.0	2.000	0.29	0.40	1.59	2.77	1.19	4.77	8.3	U	ND	Y
0.0	2.000	0.33	0.46	1.93	2.77	1.38	5.79	8.3	U	ND	Y
0.0	2.000	0.25	0.35	1.62	2.77	1.04	4.85	8.3	U	ND	Y
0.0	2.000	0.29	0.40	1.62	2.77	1.19	4.87	8.3	U	ND	Y
0.0	2.000	0.29	0.40	1.59	2.77	1.19	4.77	8.3	U	ND	Y
0.0	2.000	0.25	0.35	1.62	2.77	1.04	4.85	8.3	U	ND	Y
0.0	2.000	0.25	0.35	1.62	2.77	1.04	4.85	8.3	U	ND	Y
0.0	2.000	0.25	0.35	1.62	2.77	1.04	4.85	8.3	U	ND	Y
0.0	2.000	0.29	0.40	1.49	2.77	1.19	4.47	8.3	U	ND	Y
0.0	2.000	0.25	0.35	1.62	2.77	1.04	4.85	8.3	U	ND	Y
0.0	2.000	0.25	0.35	1.62	2.77	1.04	4.85	8.3	U	ND	Y
0.0	2.000	0.25	0.35	1.62	2.77	1.04	4.85	8.3	U	ND	Y
0.0	2.000	0.25	0.35	1.62	2.77	1.04	4.85	8.3	U	ND	Y
0.0	2.000	0.25	0.35	1.62	2.77	1.04	4.85	8.3	U	ND	Y
0.0	2.000	0.25	0.35	1.59	2.77	1.04	4.77	8.3	U	ND	Y
0.0	2.000	0.25	0.35	1.62	2.77	1.04	4.85	8.3	U	ND	Y
0.0	2.000	0.25	0.35	1.50	2.77	1.04	4.51	8.3	U	ND	Y
0.0	2.000	0.25	0.35	1.50	2.77	1.04	4.51	8.3	U	ND	Y
0.0	2.000	0.25	0.35	1.48	2.77	1.04	4.43	8.3	U	ND	Y
0.0	2.000	0.25	0.35	1.50	2.77	1.04	4.51	8.3	U	ND	Y
0.0	2.000	0.22	0.31	1.59	2.77	0.92	4.77	8.3	U	ND	Y
0.0	2.000	0.22	0.31	1.62	2.77	0.92	4.85	8.3	U	ND	Y
0.0	2.000	0.22	0.31	1.51	2.77	0.92	4.54	8.3	U	ND	Y
0.0	2.000	0.22	0.31	1.51	2.77	0.92	4.54	8.3	U	ND	Y
0.0	2.000	0.20	0.28	1.54	2.77	0.83	4.63	8.3	U	ND	Y
0.0	2.000	0.22	0.31	1.51	2.77	0.92	4.54	8.3	U	ND	Y
0.0	2.000	0.22	0.31	1.51	2.77	0.92	4.54	8.3	U	ND	Y
0.0	2.000	0.22	0.31	1.51	2.77	0.92	4.54	8.3	U	ND	Y
0.0	2.000	0.22	0.31	1.51	2.77	0.92	4.54	8.3	U	ND	Y
0.0	2.000	0.20	0.28	1.54	2.77	0.83	4.63	8.3	U	ND	Y
0.0	2.000	0.22	0.31	1.51	2.77	0.92	4.54	8.3	U	ND	Y
0.0	2.000	0.20	0.28	1.61	2.77	0.83	4.84	8.3	U	ND	Y
0.0	2.000	0.22	0.31	1.51	2.77	0.92	4.54	8.3	U	ND	Y
0.0	2.000	0.22	0.31	1.49	2.77	0.92	4.47	8.3	U	ND	Y
0.0	2.000	0.20	0.28	1.54	2.77	0.83	4.63	8.3	U	ND	Y
0.0	2.000	0.20	0.28	1.52	2.77	0.83	4.56	8.3	U	ND	Y
0.0	2.000	0.20	0.28	1.52	2.77	0.83	4.56	8.3	U	ND	Y
0.0	2.000	0.20	0.28	1.52	2.77	0.83	4.56	8.3	U	ND	Y
0.0	2.000	0.20	0.28	1.52	2.77	0.83	4.56	8.3	U	ND	Y
0.0	2.000	0.20	0.28	1.52	2.77	0.83	4.56	8.3	U	ND	Y
0.0	2.000	0.20	0.28	1.52	2.77	0.83	4.56	8.3	U	ND	Y
0.0	2.000	0.18	0.25	1.61	2.77	0.75	4.83	8.3	U	ND	Y
0.0	2.000	0.20	0.28	1.52	2.77	0.83	4.56	8.3	U	ND	Y
0.0	2.000	0.20	0.28	1.52	2.77	0.83	4.56	8.3	U	ND	Y
0.0	2.000	0.20	0.28	1.45	2.77	0.83	4.36	8.3	U	ND	Y

0.0	2.000	0.17	0.23	1.61	2.77	0.69	4.83	8.3	U	ND	Y
%											Y
100.0	45.00	7.5	10.37	36.64	62.23	31.1	109.9	186.7	U	ND	Y
100.0	45.00	45.0	62.23	40.81	62.23	186.7	122.4	186.7	U	ND	Y
100.0	45.00	5.9	8.19	33.56	62.23	24.6	100.7	186.7	U	ND	Y
100.0	45.00	6.4	8.89	34.61	62.23	26.7	103.8	186.7	U	ND	Y
100.0	45.00	3.0	4.15	33.67	62.23	12.4	101.0	186.7	U	ND	Y
100.0	45.00	7.5	10.37	36.64	62.23	31.1	109.9	186.7	U	ND	Y
100.0	45.00	6.4	8.89	33.57	62.23	26.7	100.7	186.7	U	ND	Y
100.0	45.00	45.0	62.23	40.81	62.23	186.7	122.4	186.7	U	ND	Y
100.0	45.00	3.5	4.79	34.73	62.23	14.4	104.2	186.7	U	ND	Y
100.0	45.00	5.6	7.78	37.56	62.23	23.3	112.7	186.7	U	ND	Y
0.0	45.00	7.5	10.37	36.64	62.23	31.1	109.9	186.7	U	ND	Y
0.0	25.000	3.6	4.94	19.23	34.57	14.8	57.7	103.7	U	ND	Y
%											Y
35.3											Y
60.4											Y
8.6											Y
0.0											Y
15.0											Y
16.0											Y
0.0											Y
%											Y
69.8	5.000	2.5	3.46	4.26	6.91	10.4	12.8	20.7	U	ND	Y
30.2	5.000	1.7	2.30	4.17	6.91	6.9	12.5	20.7	U	ND	Y
0.0	25.000	6.3	8.64	20.59	34.57	25.9	61.8	103.7	U	ND	Y
0.0	25.000	5.0	6.91	20.45	34.57	20.7	61.3	103.7	U	ND	Y
0.0	25.000	4.2	5.76	20.36	34.57	17.3	61.1	103.7	U	ND	Y
0.0	25.000	3.6	4.94	20.28	34.57	14.8	60.8	103.7	U	ND	Y
0.0	25.000	3.1	4.32	20.23	34.57	13.0	60.7	103.7	U	ND	Y
0.0	25.000	2.8	3.84	20.19	34.57	11.5	60.6	103.7	U	ND	Y
0.0	25.000	2.5	3.46	20.16	34.57	10.4	60.5	103.7	U	ND	Y
0.0	25.000	2.3	3.14	20.13	34.57	9.4	60.4	103.7	U	ND	Y
0.0	25.000	2.1	2.88	20.11	34.57	8.6	60.3	103.7	U	ND	Y
0.0	25.000	2.1	2.88	20.11	34.57	8.6	60.3	103.7	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.38	4.09	8.30	4.1	12.3	24.9			Y
0.0	6.0	0.9	1.19	4.87	8.30	3.6	14.6	24.9			Y
0.0	6.0	0.7	0.92	4.85	8.30	2.8	14.5	24.9			Y
0.0	6.0	0.5	0.75	4.41	8.30	2.3	13.2	24.9			Y
0.0	6.0	0.7	0.92	4.31	8.30	2.8	12.9	24.9			Y
0.0	6.0	0.5	0.75	4.40	8.30	2.3	13.2	24.9			Y
0.0	2.0	0.3	0.46	1.63	2.77	1.4	4.9	8.3	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
	4.8					4.85			
					0.0		0.00		
	2.1					2.10			
		0.0				0.00			
					0.0				
					3.2		3.19		
					0.0		0.00		
	5.1					5.08			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		1.7				1.72			
					0.0		0.00		
					0.0				
					0.0		0.00		
	0.0					0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
					0.0				
			3.0						2.98
					0.0				
		0.0				0.00			
		0.0				0.00			
		0.0				0.00			
					0.0		0.00		
	0.0					0.00			
					0.0				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0.00	0.00		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
		0.00			
	0.00				
	0.00				
	0.00				
			0.00		
			0.00		

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SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**34**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.38
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.16E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.16E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.16E+04	2749	4.8	2.42	2.99
Propene	3	TRG	4.5	2.16E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.16E+04	1189	2.1	0.70	1.26
i-Butane	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.16E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.16E+04	1808	3.2	0.80	1.83
n-Butane	4	TRG	54.1	2.16E+04	2881	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.16E+04	0	5.1	1.27	3.02
c-2-Butene	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.16E+04	973	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.16E+04	0	1.7	0.34	1.02
n-Pentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.16E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.16E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.16E+04	1689	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.16E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.16E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.16E+04	0	3.0	0.60	1.71
Cyclohexane	5	TRG	88.2	2.16E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.16E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.16E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.16E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.16E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.16E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.16E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.16E+04	31967	56.4	9.39	33.18	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.16E+04	31967	56.4	56.35	36.95	
Total Volatile Organic Compoun	8	TRG	100.0	2.16E+04	31967	56.4	7.42	30.39	
TPH (gasoline)	7	TRG	95.0	2.16E+04	31967	56.4	8.05	31.34	
TPH (diesel)	15	TRG	198.0	2.16E+04	31967	56.4	3.76	30.49	
TPH (hexane)	6	TRG	86.2	2.16E+04	31967	56.4	9.39	33.18	
TPH (toluene)	7	TRG	92.1	2.16E+04	31967	56.4	8.05	30.40	
TPH (methane)	1	TRG	16.0	2.16E+04	31967	56.4	56.35	36.95	
TPH (Jet A Fuel)	13	TRG	177.0	2.16E+04	31967	56.4	4.33	31.45	
TPH (Mineral Spirits)	8	TRG	117.8	2.16E+04	31967	56.4	7.04	34.01	
C6+ (hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.16E+04		19.9			Sum ID
Paraffins	P	TRG	0.0	2.16E+04		12.0			Sum P
Isoparaffins	I	TRG	0.0	2.16E+04		1.7			Sum I
Aromatics	A	TRG	0.0	2.16E+04		0.0			Sum A
Napthlenes	N	TRG	0.0	2.16E+04		3.0			Sum N
Olefins	O	TRG	0.0	2.16E+04		3.2			Sum O
Oxygenates		TRG	0.0	2.16E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.16E+04	2749	4.8	2.42	2.99	
C3 (propane)	3	TRG	44.1	2.16E+04	1189	2.1	0.70	1.26	
C4 (Butane)	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.16E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.16E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.16E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.16E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.16E+04	3938	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 35

File Name: 2510035A
Description: T-217
Canister: 634
QC_Batch: 040325-GCK

Date Sampled: 03/20/25 **Time:** 12:48
Date Analyzed: 04/03/25 **Time:** 12:54
Can Factor: 1.27
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.27	3.81	ND	1.46	4.39	ND	ND
74-86-2	Acetylene	1.27	3.81	ND	1.35	4.06	ND	ND
74-84-0	Ethane	1.27	3.81	2.38	1.57	4.70	2.93	J
115-07-1	Propene	0.85	2.54	ND	1.46	4.39	ND	ND
74-98-6	Propane	0.85	2.54	1.55	1.53	4.60	2.80	J
75-28-5	i-Butane	0.64	1.91	ND	1.51	4.54	ND	ND
106-98-9	1-Butene	0.64	1.91	ND	1.46	4.38	ND	ND
106-97-8	n-Butane	0.64	1.91	ND	1.51	4.54	ND	ND
624-64-6	t-2-Butene	0.64	1.91	ND	1.46	4.38	ND	ND
590-18-1	c-2-Butene	0.64	1.91	ND	1.46	4.38	ND	ND
78-78-4	i-Pentane	0.51	1.53	ND	1.50	4.51	ND	ND
109-67-1	1-Pentene	0.51	1.53	ND	1.46	4.38	ND	ND
109-66-0	n-Pentane	0.51	1.53	ND	1.50	4.51	ND	ND
646-04-8	t-2-Pentene	0.51	1.53	ND	1.46	4.38	ND	ND
627-20-3	c-2-Pentene	0.51	1.53	ND	1.46	4.38	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.27	ND	1.50	4.49	ND	ND
142-29-0	Cyclopentene	0.51	1.53	ND	1.42	4.26	ND	ND
287-92-3	Cyclopentane	0.51	1.53	ND	1.46	4.38	ND	ND
79-29-8	2,3-Dimethylbutane	0.42	1.27	ND	1.50	4.49	ND	ND
107-83-5	2-Methylpentane	0.42	1.27	ND	1.50	4.49	ND	ND
96-14-0	3-Methylpentane	0.42	1.27	1.26	1.50	4.49	4.46	J
592-41-6	1-Hexene	0.42	1.27	ND	1.46	4.39	ND	ND
110-54-3	n-Hexane	0.42	1.27	ND	1.50	4.49	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.27	ND	1.43	4.28	ND	ND
96-37-7	Methylcyclopentane	0.42	1.27	ND	1.46	4.39	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.09	ND	1.49	4.47	ND	ND
71-43-2	Benzene	0.42	1.27	0.66	1.36	4.07	2.10	J
110-82-7	Cyclohexane	0.42	1.27	ND	1.46	4.39	ND	ND
591-76-4	2-Methylhexane	0.36	1.09	ND	1.49	4.47	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.09	ND	1.49	4.47	ND	ND
589-34-4	3-Methylhexane	0.36	1.09	ND	1.49	4.47	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.32	0.95	ND	1.49	4.46	ND	ND
142-82-5	n-Heptane	0.36	1.09	ND	1.49	4.47	ND	ND
108-87-2	Methylcyclohexane	0.36	1.09	ND	1.46	4.39	ND	ND
592-13-2	2,5-Dimethylhexane	0.32	0.95	ND	1.49	4.46	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.95	ND	1.49	4.46	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.32	0.95	ND	1.49	4.46	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.09	ND	1.37	4.11	ND	ND
584-94-1	2,3-Dimethylhexane	0.32	0.95	ND	1.49	4.46	ND	ND
592-27-8	2-Methylheptane	0.32	0.95	ND	1.49	4.46	ND	ND
589-53-7	4-Methylheptane	0.32	0.95	ND	1.49	4.46	ND	ND
589-81-1	3-Methylheptane	0.32	0.95	ND	1.49	4.46	ND	ND
111-65-9	n-Octane	0.32	0.95	ND	1.49	4.46	ND	ND
100-41-4	Ethylbenzene	0.32	0.95	ND	1.38	4.15	ND	ND
108-38-3	m,p-xylene	0.32	0.95	ND	1.38	4.15	ND	ND
100-42-5	Styrene	0.32	0.95	ND	1.36	4.07	ND	ND
95-47-6	o-xylene	0.32	0.95	ND	1.38	4.15	ND	ND
111-84-2	n-Nonane	0.28	0.85	ND	1.49	4.46	ND	ND
98-82-8	i-Propylbenzene	0.28	0.85	ND	1.39	4.18	ND	ND
103-65-1	n-propylbenzene	0.28	0.85	ND	1.39	4.18	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.85	ND	1.39	4.18	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.85	ND	1.39	4.18	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.85	ND	1.39	4.18	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.85	ND	1.39	4.18	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.85	ND	1.39	4.18	ND	ND
124-18-5	n-Decane	0.25	0.76	ND	1.48	4.45	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.85	ND	1.39	4.18	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.76	ND	1.40	4.20	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.76	ND	1.40	4.20	ND	ND
104-51-8	n-Butylbenzene	0.25	0.76	ND	1.40	4.20	ND	ND
1120-21-4	Undecane	0.23	0.69	ND	1.48	4.44	ND	ND
91-20-3	Naphthalene	0.25	0.76	ND	1.34	4.01	ND	ND
112-40-3	Dodecane	0.21	0.64	ND	1.48	4.44	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.53	28.60	28.86	33.68	101.05	101.96	
TNMHC - C1	Total Non-Methane Hydrocarbons	57.21	171.62	173.17	37.51	112.54	113.55	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **35**
File Name: **2510035A**
Sample ID: **T-217**
Sampled: **3/20/2025**
Received: **03/21/25**
Analyzed: **04/03/25**
QCBatch: **040325-GCK**
Can: **634**
Can Factor: **1.27**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **12:48** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **12:54** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **402031**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C5 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.06			NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.10			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.17**	2936	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11						-185	290
74-98-6	Propane	P	5.20	**5.20**	**5.25**	2866	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.65**						130	351
67-56-1	Methanol		8.30	8.35						130	401
106-98-9	1-Butene	P	7.29	7.34	**7.27**	1310	I	I	H	365	367
106-99-0	1,3-Butadiene		**7.48**	7.53						130	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75	**8.87**		O	I	M	413	410
590-18-1	c-2-Butene	P	9.63	9.63	**9.62**		I	I	H	431	431
64-17-5	Ethanol		10.85	10.86						199	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.06						199	465
67-64-1	Acetone		11.52	11.53						199	476
78-78-4	i-Pentane	P	11.37	11.38	**11.40**		I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.31	**12.34**		I	I	H	496	495
67-63-0	Isopropanol		12.65	12.66						199	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.37						199	497
109-66-0	n-Pentane	P	12.48	**12.49**	**12.49**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.56						161	503
646-04-8	t-2-Pentene	P	12.79	12.80						161	510
627-20-3	c-2-Pentene	P	13.08	13.09						161	518
75-65-0	Tert butyl alcohol		**13.55**	13.56						280	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.63						280	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.78	**13.79**		I	I	H	535	537
142-29-0	Cyclopentene	15	**14.61**	14.62						161	551
71-23-8	n-Propanol		**14.75**	14.76						161	558
287-92-3	Cyclopentane	P	14.88	14.89	**14.91**		I	I	H	566	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.01						161	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.07						161	570
107-83-5	2-Methylpentane	P	15.08	15.09	**15.10**		I	I	H	571	571
96-14-0	3-Methylpentane	P	15.55	15.56	**15.47**	4679	I	I	H	581	583
592-41-6	1-Hexene	P	**15.80**	15.81						161	590
110-54-3	n-Hexane	P	16.17	**16.18**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						261	606

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21	**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether		**16.80**	16.80						700	623
96-37-7	Methylcyclopentane	P	16.86	16.86						104	622
108-08-7	2,4-Dimethylpentane	P	17.05	17.05						104	626
71-43-2	Benzene	P	17.87	**17.87**	**17.85**	2430	I	I	H	652	651
110-82-7	Cyclohexane	P	18.14	18.12	**18.15**		I	I	H	661	658
591-76-4	2-Methylhexane	P	18.38	18.36						104	670
565-59-3	2,3-Dimethylpentane	P	18.45	18.43	**18.47**		I	I	H	671	671
589-34-4	3-Methylhexane	P	18.66	18.64						104	678
6094-02-6	2-Methyl-1hexene	33	**18.75**	18.73						104	687
994-05-8	Tert amyl methyl ether		**18.80**	18.78						104	674
540-84-1	2,2,4-Trimethylpentane	P	19.09	19.07	**19.10**		I	I	H	690	690
142-82-5	n-Heptane	P	19.41	19.39	**19.43**		I	I	H	700	700
108-87-2	Methylcyclohexane	P	20.09	20.07	**20.12**		I	I	H	724	722
592-13-2	2,5-Dimethylhexane		20.35	20.33						30	734
589-43-5	2,4-Dimethylhexane		20.43	20.41						30	737
565-75-3	2,3,4-Trimethylpentane	P	20.93	20.91	**20.95**		I	I	H	752	753
108-88-3	Toluene	P	21.12	**21.10**	**21.10**		I	I	H	758	758
584-94-1	2,3-Dimethylhexane		21.20	21.18	**21.22**		I	I	H	762	763
592-27-8	2-Methylheptane	P	21.33	21.31						30	768
589-53-7	4-Methylheptane	48	**21.48**	21.46						30	775
1067-08-9	3-Ethyl-3-methylpentane		**21.50**	21.48						30	772
589-81-1	3-Methylheptane	p	21.55	21.53						30	775
15870-10-7	2-Methyl-1-heptene	52	**22.10**	22.08						30	786
111-65-9	n-Octane	P	22.27	22.25	**22.33**		I	I	H	800	800
100-41-4	Ethylbenzene	P	23.75	23.73	**23.71**		I	I	H	853	855
108-38-3	m,p-xylene	P	23.95	23.93						-66	863
100-42-5	Styrene	P	24.40	24.38						-66	881
95-47-6	o-xylene	P	24.57	24.55	**24.48**		I	I	H	883	886
124-11-8	1-Nonene	64	24.60	24.58						-66	889
111-84-2	n-Nonane	P	24.87	24.85	**24.91**		I	I	H	900	900
98-82-8	i-Propylbenzene	P	25.36	25.34	**25.26**		I	O	M	915	919
103-65-1	n-propylbenzene	P	25.93	25.91	**25.94**		I	O	M	944	947
80-56-8	a-Pinene		26.09	26.07						-165	950
620-14-4	3-Ethyltoluene	P	26.17	26.15	**26.11**		I	O	M	951	957
622-96-8	4-Ethyltoluene	P	26.26	26.24	**26.33**		I	I	H	961	959
108-67-8	1,3,5-Trimethylbenzene	P	26.45	26.43	**26.52**		I	O	M	969	964
611-14-3	2-Ethyltoluene	P	26.61	26.59	**26.60**		I	I	H	972	975
127-91-3	b-Pinene		26.80	26.78						-165	979
95-63-6	1,2,4-Trimethylbenzene	P	27.08	27.06	**27.01**		I	I	H	990	991
124-18-5	n-Decane	P	27.26	27.24	**27.25**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene	P	27.55	27.53	**27.49**		I	O	M	1009	1014
496-11-7	Indan	81	27.55	27.53						-44	1020
5989-27-5	d-Limonene		27.65	27.63						-44	1017
141-93-5	1,3-Diethylbenzene	P	28.10	28.08	**28.04**		I	I	H	1030	1032
105-05-5	1,4-Diethylbenzene	P	28.23	28.21						-44	1037
104-51-8	n-Butylbenzene		28.45	28.43						-44	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87	28.60	28.58						-44	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88	28.75	28.73						-44	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89	28.83	28.81						-44	1060
1120-21-4	Undecane	P	29.86	29.93	**29.86**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene		30.45	30.43						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.48						-48	1124
91-20-3	Naphthalene		32.25	32.23						-48	1193
112-40-3	Dodecane	P	32.46	32.53	**32.46**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					198804		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					106855		13196			
TNMHC - C1	Total Non-Methane Hydrocarbons					106855		39538			
TVOC	Total Volatile Organic Compounds					106855		16273			
TPH(g)	TPH (gasoline)					106855		11020			
TPH(d)	TPH (diesel)					106855		11922			
TPH(h)	TPH (hexane)					106855		0			
TPH(t)	TPH (toluene)					106855		0			
TPHC	TPH (methane)					106855		0			
TPH(Jet A)	TPH (Jet A Fuel)					106855		**91949**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					106855					
C6+	**C6+ (hexane)**		16.17	16.18	16.17	**0**		Sum from	16.18	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			2936		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			2866		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**5802**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040325-GCK		
Hexane Std Area:	402031		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.27	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.27		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	4.76	2.38	2.93	4.76	2.38	2.93	2.93	2.93
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	4.64	1.55	2.80	4.64	1.55	2.80	2.80	2.80
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	2.12	0.53	1.22	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	7.58	1.26	4.46	7.58	1.26	4.46	4.46	4.46
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	3.94	0.66	2.10	3.94	0.66	2.10	2.10	2.10
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	173.17	28.9	102.0	173.17	28.86	101.96	101.96	101.96
Total Non-Methane Hydrocarbons	16	1.0	173.17	173.2	113.6	173.17	173.17	113.55	113.55	113.55
Total Volatile Organic Compounds	100	7.6	173.17	22.8	93.4	173.17	22.79	93.38	93.38	93.38
TPH (gasoline)	95	7.0	173.17	24.7	96.3	173.17	24.74	96.32	96.32	96.32
TPH (diesel)	198	15.0	173.17	11.5	93.7	173.17	11.54	93.68	93.68	93.68
TPH (hexane)	86.2	6.0	173.17	28.9	102.0	173.17	28.86	101.96	101.96	101.96
TPH (toluene)	92.14	7.0	173.17	24.7	93.4	173.17	24.74	93.42	93.42	93.42
TPH (methane)	16	1.0	173.17	173.2	113.6	173.17	173.17	113.55	113.55	113.55
TPH (Jet A Fuel)	177	13.0	173.17	13.3	96.6	173.17	13.32	96.63	96.63	96.63
TPH (Mineral Spirits)	117.81	8.0	173.17	21.6	104.5	173.17	21.65	104.51	104.51	104.51
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			23.0	6.4						
Paraffins			9.4							
Isoparaffins			7.6							
Aromatics			3.9							
Napthlenes			0.0							
Olefins			2.1							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	4.76	2.38	2.93	ND	ND	ND	0	
C3 (propane)	44.1	3	4.64	1.55	2.80	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			9.4							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			17.0	73.7
Alkenes			2.1	9.2
Alkynes			0.0	0.0
Cycloalkanes			0.0	0.0
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			3.9	17.1
Terpenes			0.0	0.0

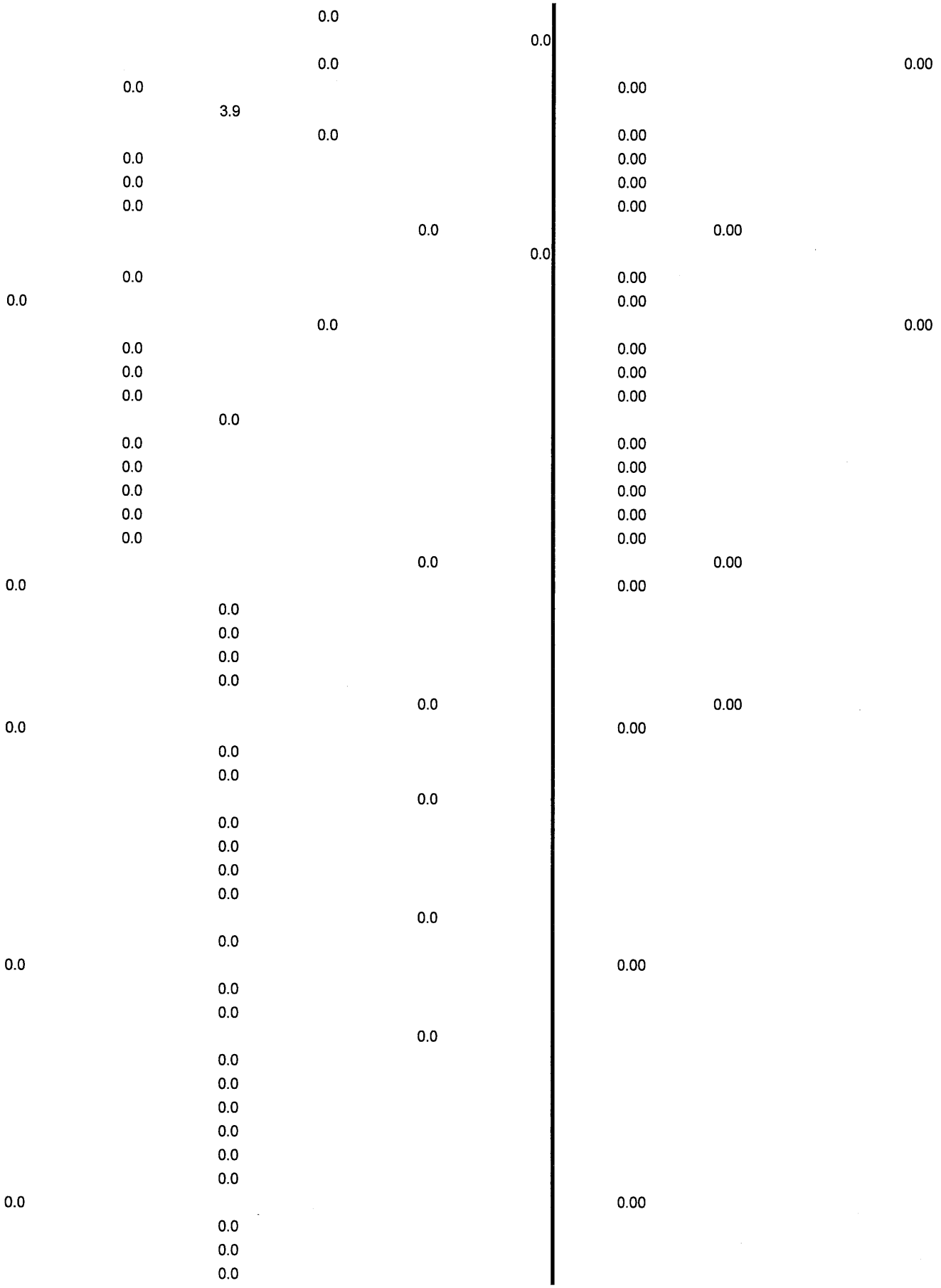
SDG: **225100**
Laboratory Number: **35**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
0.0	2.000	1.00	1.27	1.46	2.54	3.81	4.39	7.6	U	ND		Y
0.0	2.000	1.00	1.27	1.35	2.54	3.81	4.06	7.6	U	ND		Y
37.3	2.000	1.00	1.27	1.57	2.54	3.81	4.70	7.6	J	=		Y
0.0	2.000	0.67	0.85	1.46	2.54	2.54	4.39	7.6	U	ND		Y
24.3	2.000	0.67	0.85	1.53	2.54	2.54	4.60	7.6	J	=		Y
0.0	2.000	0.50	0.64	1.51	2.54	1.91	4.54	7.6	U	ND		Y
0.0	2.000	2.00	2.54	3.33	2.54	7.63	10.00	7.6	U	ND		Y
8.3	2.000	0.50	0.64	1.46	2.54	1.91	4.38	7.6	U	ND		Y
0.0	2.000	0.50	0.64	1.41	2.54	1.91	4.23	7.6	U	ND		Y
0.0	2.000	0.50	0.64	1.51	2.54	1.91	4.54	7.6	U	ND		Y
0.0	2.000	0.50	0.64	1.46	2.54	1.91	4.38	7.6	U	ND		Y
0.0	2.000	0.50	0.64	1.46	2.54	1.91	4.38	7.6	U	ND		Y
0.0	2.000	1.00	1.27	2.40	2.54	3.81	7.21	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.54	1.53	4.38	7.6	U	ND		Y
0.0	2.000	0.67	0.85	2.02	2.54	2.54	6.05	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.50	2.54	1.53	4.51	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.54	1.53	4.38	7.6	U	ND		Y
0.0	2.000	0.67	0.85	2.09	2.54	2.54	6.26	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.54	1.53	4.38	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.50	2.54	1.53	4.51	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.42	2.54	1.53	4.26	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.54	1.53	4.38	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.54	1.53	4.38	7.6	U	ND		Y
0.0	2.000	0.50	0.64	1.93	2.54	1.91	5.79	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.54	1.53	4.38	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.50	2.54	1.27	4.49	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.42	2.54	1.53	4.26	7.6	U	ND		Y
0.0	2.000	0.67	0.85	2.09	2.54	2.54	6.26	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.54	1.53	4.38	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.84	2.54	1.53	5.51	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.50	2.54	1.27	4.49	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.50	2.54	1.27	4.49	7.6	U	ND		Y
19.8	2.000	0.33	0.42	1.50	2.54	1.27	4.49	7.6	J	=		Y
0.0	2.000	0.33	0.42	1.46	2.54	1.27	4.39	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.50	2.54	1.27	4.49	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.77	2.54	1.27	5.32	7.6	U	ND		Y

0.0	2.000	0.33	0.42	1.43	2.54	1.27	4.28	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.77	2.54	1.27	5.32	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.46	2.54	1.27	4.39	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.54	1.09	4.47	7.6	U	ND	Y
10.3	2.000	0.33	0.42	1.36	2.54	1.27	4.07	7.6	J	=	Y
0.0	2.000	0.33	0.42	1.46	2.54	1.27	4.39	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.54	1.09	4.47	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.54	1.09	4.47	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.54	1.09	4.47	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.46	2.54	1.09	4.39	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.77	2.54	1.27	5.32	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.49	2.54	0.95	4.46	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.49	2.54	1.09	4.47	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.46	2.54	1.09	4.39	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.49	2.54	0.95	4.46	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.49	2.54	0.95	4.46	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.49	2.54	0.95	4.46	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.37	2.54	1.09	4.11	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.49	2.54	0.95	4.46	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.49	2.54	0.95	4.46	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.49	2.54	0.95	4.46	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.49	2.54	0.95	4.46	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.49	2.54	0.95	4.46	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.46	2.54	0.95	4.38	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.49	2.54	0.95	4.46	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.38	2.54	0.95	4.15	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.38	2.54	0.95	4.15	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.36	2.54	0.95	4.07	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.38	2.54	0.95	4.15	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.46	2.54	0.85	4.38	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.49	2.54	0.85	4.46	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.54	0.85	4.18	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.54	0.85	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.42	2.54	0.76	4.26	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.54	0.85	4.18	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.54	0.85	4.18	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.54	0.85	4.18	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.54	0.85	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.42	2.54	0.76	4.26	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.54	0.85	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.48	2.54	0.76	4.45	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.54	0.85	4.18	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.54	0.85	4.11	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.42	2.54	0.76	4.26	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.54	0.76	4.20	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.54	0.76	4.20	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.54	0.76	4.20	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.54	0.76	4.20	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.54	0.76	4.20	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.54	0.76	4.20	7.6	U	ND	Y
0.0	2.000	0.18	0.23	1.48	2.54	0.69	4.44	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.54	0.76	4.20	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.54	0.76	4.20	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.34	2.54	0.76	4.01	7.6	U	ND	Y

0.0	2.000	0.17	0.21	1.48	2.54	0.64	4.44	7.6	U	ND	Y
%											Y
100.0	45.00	7.5	9.53	33.68	57.21	28.6	101.1	171.6		=	Y
100.0	45.00	45.0	57.21	37.51	57.21	171.6	112.5	171.6		=	Y
100.0	45.00	5.9	7.53	30.85	57.21	22.6	92.5	171.6		=	Y
100.0	45.00	6.4	8.17	31.82	57.21	24.5	95.5	171.6		=	Y
100.0	45.00	3.0	3.81	30.95	57.21	11.4	92.8	171.6		=	Y
100.0	45.00	7.5	9.53	33.68	57.21	28.6	101.1	171.6		=	Y
100.0	45.00	6.4	8.17	30.86	57.21	24.5	92.6	171.6		=	Y
100.0	45.00	45.0	57.21	37.51	57.21	171.6	112.5	171.6		=	Y
100.0	45.00	3.5	4.40	31.92	57.21	13.2	95.8	171.6		=	Y
100.0	45.00	5.6	7.15	34.53	57.21	21.5	103.6	171.6		=	Y
0.0	45.00	7.5	9.53	33.68	57.21	28.6	101.1	171.6	U	ND	Y
0.0	25.000	3.6	4.54	17.68	31.78	13.6	53.0	95.3	U	ND	Y
%											Y
13.3											Y
40.8											Y
32.9											Y
17.1											Y
0.0											Y
9.2											Y
0.0											Y
%											Y
50.6	5.000	2.5	3.18	3.92	6.36	9.5	11.8	19.1	U	ND	Y
49.4	5.000	1.7	2.12	3.83	6.36	6.4	11.5	19.1	U	ND	Y
0.0	25.000	6.3	7.95	18.93	31.78	23.8	56.8	95.3	U	ND	Y
0.0	25.000	5.0	6.36	18.80	31.78	19.1	56.4	95.3	U	ND	Y
0.0	25.000	4.2	5.30	18.71	31.78	15.9	56.1	95.3	U	ND	Y
0.0	25.000	3.6	4.54	18.65	31.78	13.6	55.9	95.3	U	ND	Y
0.0	25.000	3.1	3.97	18.59	31.78	11.9	55.8	95.3	U	ND	Y
0.0	25.000	2.8	3.53	18.56	31.78	10.6	55.7	95.3	U	ND	Y
0.0	25.000	2.5	3.18	18.54	31.78	9.5	55.6	95.3	U	ND	Y
0.0	25.000	2.3	2.89	18.51	31.78	8.7	55.5	95.3	U	ND	Y
0.0	25.000	2.1	2.65	18.49	31.78	7.9	55.5	95.3	U	ND	Y
0.0	25.000	2.1	2.65	18.49	31.78	7.9	55.5	95.3	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.27	3.76	7.63	3.8	11.3	22.9			Y
0.0	6.0	0.9	1.09	4.47	7.63	3.3	13.4	22.9			Y
0.0	6.0	0.7	0.85	4.46	7.63	2.5	13.4	22.9			Y
0.0	6.0	0.5	0.69	4.06	7.63	2.1	12.2	22.9			Y
0.0	6.0	0.7	0.85	3.97	7.63	2.5	11.9	22.9			Y
0.0	6.0	0.5	0.69	4.04	7.63	2.1	12.1	22.9			Y
0.0	2.0	0.3	0.42	1.50	2.54	1.3	4.5	7.6	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
4.8						4.76			
					0.0		0.00		
4.6						4.64			
		0.0				0.00			
					0.0				
					2.1		2.12		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		0.0				0.00			
					0.0		0.00		
					0.0				
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
					0.0				
			0.0						0.00
					0.0				
		0.0				0.00			
		0.0				0.00			
		7.6				7.58			
					0.0		0.00		
0.0						0.00			
					0.0				


0.0
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3.9
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0.0

0.0						0.00			
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0.00	7.58	
0.00	0.00	
0.00	0.00	
0.00	0.00	
		0.00
		0.00

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
	0.00				
	0.00				
	0.00				
				0.00	
				0.00	

0.00

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0.0	0.0	0.0	0.0	3.9	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**35**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.27
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = Cn

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	Cn ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.23E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.23E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.23E+04	2936	4.8	2.38	2.93
Propene	3	TRG	4.5	2.23E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.23E+04	2866	4.6	1.55	2.80
i-Butane	4	TRG	58.1	2.23E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.23E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.23E+04	1310	2.1	0.53	1.22
n-Butane	4	TRG	54.1	2.23E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.23E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.23E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.23E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.23E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.23E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.23E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.23E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.23E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.23E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.23E+04	4679	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.23E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.23E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.23E+04	2430	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.23E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.23E+04	0	7.6	1.26	4.46
2,2,4-Trimethylpentane	6	TRG	84.2	2.23E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.23E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.23E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.23E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.23E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.23E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.23E+04	0	3.9	0.66	2.10	
2-Methylheptane	6	TRG	84.2	2.23E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.23E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.23E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.23E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.23E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.23E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.23E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.23E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.23E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.23E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.23E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.23E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.23E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.23E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.23E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.23E+04	106855	173.2	28.86	101.96	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.23E+04	106855	173.2	173.17	113.55	
Total Volatile Organic Compoun	8	TRG	100.0	2.23E+04	106855	173.2	22.79	93.38	
TPH (gasoline)	7	TRG	95.0	2.23E+04	106855	173.2	24.74	96.32	
TPH (diesel)	15	TRG	198.0	2.23E+04	106855	173.2	11.54	93.68	
TPH (hexane)	6	TRG	86.2	2.23E+04	106855	173.2	28.86	101.96	
TPH (toluene)	7	TRG	92.1	2.23E+04	106855	173.2	24.74	93.42	
TPH (methane)	1	TRG	16.0	2.23E+04	106855	173.2	173.17	113.55	
TPH (Jet A Fuel)	13	TRG	177.0	2.23E+04	106855	173.2	13.32	96.63	
TPH (Mineral Spirits)	8	TRG	117.8	2.23E+04	106855	173.2	21.65	104.51	
C6+ (hexane)	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.23E+04		23.0			Sum ID
Paraffins	P	TRG	0.0	2.23E+04		9.4			Sum P
Isoparaffins	I	TRG	0.0	2.23E+04		7.6			Sum I
Aromatics	A	TRG	0.0	2.23E+04		3.9			Sum A
Napthlenes	N	TRG	0.0	2.23E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.23E+04		2.1			Sum O
Oxygenates		TRG	0.0	2.23E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.23E+04	2936	4.8	2.38	2.93	
C3 (propane)	3	TRG	44.1	2.23E+04	2866	4.6	1.55	2.80	
C4 (Butane)	4	TRG	58.1	2.23E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.23E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.23E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.23E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.23E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.23E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.23E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.23E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.23E+04	5802	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 36

File Name: 2510036A
Description: T-218
Canister: 698
QC_Batch: 040125-GCK

Date Sampled: 03/20/25 **Time:** 12:42
Date Analyzed: 04/01/25 **Time:** 20:23
Can Factor: 1.27
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.27	3.80	ND	1.46	4.38	ND	ND
74-86-2	Acetylene	1.27	3.80	ND	1.35	4.05	ND	ND
74-84-0	Ethane	1.27	3.80	261.79	1.56	4.69	322.94	
115-07-1	Propene	0.84	2.53	ND	1.46	4.37	ND	ND
74-98-6	Propane	0.84	2.53	1,458.73	1.53	4.58	2,636.48	
75-28-5	i-Butane	0.63	1.90	4.99	1.51	4.53	11.89	
106-98-9	1-Butene	0.63	1.90	ND	1.46	4.37	ND	ND
106-97-8	n-Butane	0.63	1.90	1,050.07	1.51	4.53	2,500.36	
624-64-6	t-2-Butene	0.63	1.90	1.94	1.46	4.37	4.46	
590-18-1	c-2-Butene	0.63	1.90	6.12	1.46	4.37	14.06	
78-78-4	i-Pentane	0.51	1.52	323.12	1.50	4.50	956.13	
109-67-1	1-Pentene	0.51	1.52	ND	1.46	4.37	ND	ND
109-66-0	n-Pentane	0.51	1.52	65.13	1.50	4.49	192.45	
646-04-8	t-2-Pentene	0.51	1.52	3.57	1.46	4.37	10.26	
627-20-3	c-2-Pentene	0.51	1.52	0.69	1.46	4.37	1.97	J
75-83-2	2,2-Dimethylbutane	0.42	1.27	49.55	1.49	4.48	175.04	
142-29-0	Cyclopentene	0.51	1.52	ND	1.41	4.24	ND	ND
287-92-3	Cyclopentane	0.51	1.52	10.67	1.46	4.37	30.67	
79-29-8	2,3-Dimethylbutane	0.42	1.27	ND	1.49	4.48	ND	ND
107-83-5	2-Methylpentane	0.42	1.27	10.50	1.49	4.48	37.08	
96-14-0	3-Methylpentane	0.42	1.27	5.26	1.49	4.48	18.59	
592-41-6	1-Hexene	0.42	1.27	ND	1.46	4.37	ND	ND
110-54-3	n-Hexane	0.42	1.27	3.69	1.49	4.48	13.03	
1120-62-3	3-Methylcyclopentene	0.42	1.27	ND	1.42	4.26	ND	ND
96-37-7	Methylcyclopentane	0.42	1.27	ND	1.46	4.37	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.09	2.02	1.49	4.46	8.31	
71-43-2	Benzene	0.42	1.27	2.95	1.35	4.06	9.46	
110-82-7	Cyclohexane	0.42	1.27	5.22	1.46	4.37	18.00	
591-76-4	2-Methylhexane	0.36	1.09	1.74	1.49	4.46	7.14	
565-59-3	2,3-Dimethylpentane	0.36	1.09	3.58	1.49	4.46	14.71	
589-34-4	3-Methylhexane	0.36	1.09	2.57	1.49	4.46	10.56	
540-84-1	2,2,4-Trimethylpentane	0.32	0.95	9.91	1.48	4.45	46.36	
142-82-5	n-Heptane	0.36	1.09	ND	1.49	4.46	ND	ND
108-87-2	Methylcyclohexane	0.36	1.09	1.03	1.46	4.37	4.13	J
592-13-2	2,5-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.95	1.10	1.48	4.45	5.17	
565-75-3	2,3,4-Trimethylpentane	0.32	0.95	ND	1.48	4.45	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.09	ND	1.37	4.10	ND	ND
584-94-1	2,3-Dimethylhexane	0.32	0.95	ND	1.48	4.45	ND	ND
592-27-8	2-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
589-53-7	4-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
589-81-1	3-Methylheptane	0.32	0.95	ND	1.48	4.45	ND	ND
111-65-9	n-Octane	0.32	0.95	ND	1.48	4.45	ND	ND
100-41-4	Ethylbenzene	0.32	0.95	ND	1.38	4.14	ND	ND
108-38-3	m,p-xylene	0.32	0.95	ND	1.38	4.14	ND	ND
100-42-5	Styrene	0.32	0.95	ND	1.35	4.06	ND	ND
95-47-6	o-xylene	0.32	0.95	ND	1.38	4.14	ND	ND
111-84-2	n-Nonane	0.28	0.84	ND	1.48	4.44	ND	ND
98-82-8	i-Propylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
103-65-1	n-propylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.84	ND	1.39	4.16	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
124-18-5	n-Decane	0.25	0.76	ND	1.48	4.43	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.84	ND	1.39	4.16	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
104-51-8	n-Butylbenzene	0.25	0.76	ND	1.39	4.18	ND	ND
1120-21-4	Undecane	0.23	0.69	ND	1.48	4.43	ND	ND
91-20-3	Naphthalene	0.25	0.76	ND	1.33	4.00	ND	ND
112-40-3	Dodecane	0.21	0.63	ND	1.47	4.42	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.51	28.52	2,543.51	33.58	100.74	8,985.68	
TNMHC - C1	Total Non-Methane Hydrocarbons	57.03	171.09	15,261.06	37.40	112.19	10,007.25	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **36**
File Name: **2510036A**
Sample ID: **T-218**
Sampled: **3/20/2025**
Received: **03/21/25**
Analyzed: **04/01/25**
QCBatch: **040125-GCK**
Can: **698**
Can Factor: **1.27**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **12:42** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **20:23** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **390567**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	3.99	**4.07**		NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.03			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.10**	324084	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11						-210	290
74-98-6	Propane	P	5.20	**5.20**	**5.10**	2708783	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.50**	**6.43**	12364	I	O	M	342	351
67-56-1	Methanol		8.30	8.20						139	401
106-98-9	1-Butene	P	7.29	7.19	**6.91**		I	O	M	357	367
106-99-0	1,3-Butadiene		**7.48**	7.38						139	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.26**	2599887	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.67	**8.67**	4801	I	I	H	410	410
590-18-1	c-2-Butene	P	9.63	9.55	**9.49**	15144	I	I	H	429	431
64-17-5	Ethanol		10.85	10.81						202	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.01						202	465
67-64-1	Acetone		11.52	11.48						202	476
78-78-4	i-Pentane	P	11.37	11.33	**11.38**	1000039	I	I	H	475	473
109-67-1	1-Pentene	P	12.30	12.26						202	495
67-63-0	Isopropanol		12.65	12.61						202	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.32						202	497
109-66-0	n-Pentane	P	12.48	**12.44**	**12.44**	201569	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.51						167	503
646-04-8	t-2-Pentene	P	12.79	12.75	**12.80**	11054	I	I	H	510	510
627-20-3	c-2-Pentene	P	13.08	13.04	**13.10**	2124	I	I	H	518	518
75-65-0	Tert butyl alcohol		**13.55**	13.51						282	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.58						282	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.73	**13.77**	184016	I	I	H	536	537
142-29-0	Cyclopentene	15	**14.61**	14.57						167	551
71-23-8	n-Propanol		**14.75**	14.71						167	558
287-92-3	Cyclopentane	P	14.88	14.84	**14.89**	33036	I	I	H	566	567
1634-04-4	Methyl tert butyl ether		**15.00**	14.96						167	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.02						167	570
107-83-5	2-Methylpentane	P	15.08	15.04	**15.07**	38984	I	I	H	570	571
96-14-0	3-Methylpentane	P	15.55	15.51	**15.57**	19543	I	I	H	584	583
592-41-6	1-Hexene	P	**15.80**	15.76						167	590
110-54-3	n-Hexane	P	16.17	**16.13**	**16.18**	13699	I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.31						261	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.46						215	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.81						215	623
96-37-7	Methylcyclopentane		P	16.86	16.87	**16.87**	1159	I	I	H	621	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.06	**17.06**	8768	I	I	H	627	626
71-43-2	Benzene		P	17.87	**17.88**	**17.90**	10972	I	I	H	653	651
110-82-7	Cyclohexane		P	18.14	18.17	**18.15**	19372	I	I	H	661	658
591-76-4	2-Methylhexane		P	18.38	18.41	**18.40**	7535	I	I	H	668	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.48	**18.46**	15525	I	I	H	670	671
589-34-4	3-Methylhexane		P	18.66	18.69	**18.68**	11138	I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.78						102	687
994-05-8	Tert amyl methyl ether			**18.80**	18.83						102	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.12	**19.10**	49050	I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.44	**19.43**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.12	**20.11**	4446	I	I	H	723	722
592-13-2	2,5-Dimethylhexane			20.35	20.38	**20.38**	1065	I	I	H	733	734
589-43-5	2,4-Dimethylhexane			20.43	20.46	**20.47**	5469	I	I	H	736	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.96	**20.95**		I	I	H	752	753
108-88-3	Toluene		P	21.12	**21.15**	**21.11**		I	I	H	757	758
584-94-1	2,3-Dimethylhexane			21.20	21.19	**21.22**		I	I	H	761	763
592-27-8	2-Methylheptane		P	21.33	21.32						35	768
589-53-7	4-Methylheptane	48		**21.48**	21.47						35	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.49						35	772
589-81-1	3-Methylheptane		p	21.55	21.54						35	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.09						35	786
111-65-9	n-Octane		P	22.27	22.26	**22.35**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.74	**23.70**		I	I	H	854	855
108-38-3	m,p-xylene		P	23.95	23.94	**23.85**		I	O	M	860	863
100-42-5	Styrene		P	24.40	24.39						-90	881
95-47-6	o-xylene		P	24.57	24.56	**24.58**		I	I	H	889	886
124-11-8	1-Nonene	64		24.60	24.59						-90	889
111-84-2	n-Nonane		P	24.87	24.86	**24.86**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.35	**25.26**		I	I	H	917	919
103-65-1	n-propylbenzene		P	25.93	25.92	**25.94**		I	I	H	945	947
80-56-8	a-Pinene			26.09	26.08						-140	950
620-14-4	3-Ethyltoluene		P	26.17	26.16						-140	957
622-96-8	4-Ethyltoluene		P	26.26	26.25	**26.22**		I	I	H	957	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.44	**26.44**		I	I	H	966	964
611-14-3	2-Ethyltoluene		P	26.61	26.60	**26.60**		I	I	H	973	975
127-91-3	b-Pinene			26.80	26.79	**26.78**		I	I	H	980	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.07	**27.02**		I	I	H	990	991
124-18-5	n-Decane		P	27.26	27.25	**27.25**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.54	**27.46**		I	O	M	1008	1014
496-11-7	Indan	81		27.55	27.54						-48	1020
5989-27-5	d-Limonene			27.65	27.64						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.09	**28.09**		I	I	H	1032	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.22	**28.22**		I	I	H	1037	1037
104-51-8	n-Butylbenzene			28.45	28.44	**28.34**		I	O	M	1042	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.59						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.74						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.82						-48	1060
1120-21-4	Undecane		P	29.86	29.85	**29.85**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.44						-35	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.49						-35	1124
91-20-3	Naphthalene		32.25	32.24						-35	1193
112-40-3	Dodecane	P	32.46	32.45	**32.48**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					12556500		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					9446308		102634			
TNMHC - C1	Total Non-Methane Hydrocarbons					9446308		30917			
TVOC	Total Volatile Organic Compounds					9446308		2009852			
TPH(g)	TPH (gasoline)					9446308		772143			
TPH(d)	TPH (diesel)					9446308		194646			
TPH(h)	TPH (hexane)					9446308		0			
TPH(t)	TPH (toluene)					9446308		0			
TPHC	TPH (methane)					9446308		0			
TPH(Jet A)	TPH (Jet A Fuel)					9446308		**3110192** Total Subtracted			
TPH (MS)	TPH (Mineral Spirits)					9446308					
C6+	**C6+ (hexane)**		16.17	16.13	16.18	**0**		Sum from	16.13	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			324084		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			2708783		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**3032867**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040125-GCK		
Hexane Std Area:	390567		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.27	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.27		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	523.58	261.79	322.94	523.58	261.79	322.94	322.94	322.94
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	4376.20	1458.73	2636.48	4,376.20	1,458.73	2,636.48	2,636.48	2,636.48
i-Butane	58.1	4	19.97	4.99	11.89	19.97	4.99	11.89	11.89	11.89
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	4200.27	1050.07	2500.36	4,200.27	1,050.07	2,500.36	2,500.36	2,500.36
t-2-Butene	56.1	4	7.76	1.94	4.46	7.76	1.94	4.46	4.46	4.46
c-2-Butene	56.1	4	24.47	6.12	14.06	24.47	6.12	14.06	14.06	14.06
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	1615.62	323.12	956.13	1,615.62	323.12	956.13	956.13	956.13
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	325.65	65.13	192.45	325.65	65.13	192.45	192.45	192.45
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	17.86	3.57	10.26	17.86	3.57	10.26	10.26	10.26
c-2-Pentene	70.1	5	3.43	0.69	1.97	3.43	0.69	1.97	1.97	1.97
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	297.29	49.55	175.04	297.29	49.55	175.04	175.04	175.04
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	53.37	10.67	30.67	53.37	10.67	30.67	30.67	30.67
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	62.98	10.50	37.08	62.98	10.50	37.08	37.08	37.08
3-Methylpentane	86.2	6	31.57	5.26	18.59	31.57	5.26	18.59	18.59	18.59
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	22.13	**3.69**	13.03	22.13	3.69	13.03	13.03	13.03
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	1.87	0.31	1.08	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	14.17	2.02	8.31	14.17	2.02	8.31	8.31	8.31
Benzene	78.1	6	17.73	2.95	9.46	17.73	2.95	9.46	9.46	9.46
Cyclohexane	84.2	6	31.30	5.22	18.00	31.30	5.22	18.00	18.00	18.00
2-Methylhexane	100.2	7	12.17	1.74	7.14	12.17	1.74	7.14	7.14	7.14
2,3-Dimethylpentane	100.2	7	25.08	3.58	14.71	25.08	3.58	14.71	14.71	14.71
3-Methylhexane	100.2	7	17.99	2.57	10.56	17.99	2.57	10.56	10.56	10.56
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	79.24	9.91	46.36	79.24	9.91	46.36	46.36	46.36
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	7.18	1.03	4.13	7.18	1.03	4.13	4.13	4.13
2,5-Dimethylhexane	114.2	8	1.72	0.22	1.01	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	8.84	1.10	5.17	8.84	1.10	5.17	5.17	5.17
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	15261.06	2543.5	8985.7	15,261.06	2,543.51	8,985.68	8,985.68	8,985.68
Total Non-Methane Hydrocarbons	16	1.0	15261.06	15261.1	10007.3	15,261.06	15,261.06	10,007.25	10,007.25	10,007.25
Total Volatile Organic Compounds	100	7.6	15261.06	2008.0	8229.6	15,261.06	2,008.03	8,229.65	8,229.65	8,229.65
TPH (gasoline)	95	7.0	15261.06	2180.2	8488.3	15,261.06	2,180.15	8,488.29	8,488.29	8,488.29
TPH (diesel)	198	15.0	15261.06	1017.4	8256.0	15,261.06	1,017.40	8,255.98	8,255.98	8,255.98
TPH (hexane)	86.2	6.0	15261.06	2543.5	8985.7	15,261.06	2,543.51	8,985.68	8,985.68	8,985.68
TPH (toluene)	92.14	7.0	15261.06	2180.2	8232.8	15,261.06	2,180.15	8,232.75	8,232.75	8,232.75
TPH (methane)	16	1.0	15261.06	15261.1	10007.3	15,261.06	15,261.06	10,007.25	10,007.25	10,007.25
TPH (Jet A Fuel)	177	13.0	15261.06	1173.9	8515.8	15,261.06	1,173.93	8,515.79	8,515.79	8,515.79
TPH (Mineral Spirits)	117.81	8.0	15261.06	1907.6	9210.6	15,261.06	1,907.63	9,210.58	9,210.58	9,210.58
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			11799.4	3286.5						
Paraffins			9447.8							
Isoparaffins			2186.7							
Aromatics			17.7							
Napthlenes			93.7							
Olefins			53.5							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	523.58	261.79	322.94	523.58	261.79	322.94	322.94	322.94
C3 (propane)	44.1	3	4376.20	1458.73	2636.48	4,376.20	1,458.73	2,636.48	2,636.48	2,636.48
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			4899.8							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	325.6	54.27	160.49					
Aliphatic C6-C8	100.2	7	22.1	3.16	12.98					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	297.3	49.55	175.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	11665.8	98.9
Alkenes	53.5	0.5
Alkynes	0.0	0.0
Cycloalkanes	62.4	0.5
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	17.7	0.2
Terpenes	0.0	0.0

SDG: **225100**
Laboratory Number: **36**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
0.0	2.000	1.00	1.27	1.46	2.53	3.80	4.38	7.6	U	ND		Y
0.0	2.000	1.00	1.27	1.35	2.53	3.80	4.05	7.6	U	ND		Y
8.0	2.000	1.00	1.27	1.56	2.53	3.80	4.69	7.6		=		Y
0.0	2.000	0.67	0.84	1.46	2.53	2.53	4.37	7.6	U	ND		Y
44.4	2.000	0.67	0.84	1.53	2.53	2.53	4.58	7.6		=		Y
0.2	2.000	0.50	0.63	1.51	2.53	1.90	4.53	7.6		=		Y
0.0	2.000	2.00	2.53	3.32	2.53	7.60	9.97	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.46	2.53	1.90	4.37	7.6	U	ND		Y
0.0	2.000	0.50	0.63	1.40	2.53	1.90	4.21	7.6	U	ND		Y
32.0	2.000	0.50	0.63	1.51	2.53	1.90	4.53	7.6		=		Y
0.1	2.000	0.50	0.63	1.46	2.53	1.90	4.37	7.6		=		Y
0.2	2.000	0.50	0.63	1.46	2.53	1.90	4.37	7.6		=		Y
0.0	2.000	1.00	1.27	2.39	2.53	3.80	7.18	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6	U	ND		Y
0.0	2.000	0.67	0.84	2.01	2.53	2.53	6.04	7.6	U	ND		Y
9.8	2.000	0.40	0.51	1.50	2.53	1.52	4.50	7.6		=		Y
0.0	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6	U	ND		Y
0.0	2.000	0.67	0.84	2.08	2.53	2.53	6.24	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6	U	ND		Y
2.0	2.000	0.40	0.51	1.50	2.53	1.52	4.49	7.6		=		Y
0.0	2.000	0.40	0.51	1.41	2.53	1.52	4.24	7.6	U	ND		Y
0.1	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6		=		Y
0.0	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6	J	=		Y
0.0	2.000	0.50	0.63	1.92	2.53	1.90	5.77	7.6	U	ND		Y
0.0	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6	U	ND		Y
1.5	2.000	0.33	0.42	1.49	2.53	1.27	4.48	7.6		=		Y
0.0	2.000	0.40	0.51	1.41	2.53	1.52	4.24	7.6	U	ND		Y
0.0	2.000	0.67	0.84	2.08	2.53	2.53	6.24	7.6	U	ND		Y
0.3	2.000	0.40	0.51	1.46	2.53	1.52	4.37	7.6		=		Y
0.0	2.000	0.40	0.51	1.83	2.53	1.52	5.50	7.6	U	ND		Y
0.0	2.000	0.33	0.42	1.49	2.53	1.27	4.48	7.6	U	ND		Y
0.3	2.000	0.33	0.42	1.49	2.53	1.27	4.48	7.6		=		Y
0.2	2.000	0.33	0.42	1.49	2.53	1.27	4.48	7.6		=		Y
0.0	2.000	0.33	0.42	1.46	2.53	1.27	4.37	7.6	U	ND		Y
0.1	2.000	0.33	0.42	1.49	2.53	1.27	4.48	7.6		=		Y
0.0	2.000	0.33	0.42	1.77	2.53	1.27	5.31	7.6	U	ND		Y

0.0	2.000	0.33	0.42	1.42	2.53	1.27	4.26	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.77	2.53	1.27	5.31	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.46	2.53	1.27	4.37	7.6	U	ND	Y
0.1	2.000	0.29	0.36	1.49	2.53	1.09	4.46	7.6		=	Y
0.1	2.000	0.33	0.42	1.35	2.53	1.27	4.06	7.6		=	Y
0.2	2.000	0.33	0.42	1.46	2.53	1.27	4.37	7.6		=	Y
0.1	2.000	0.29	0.36	1.49	2.53	1.09	4.46	7.6		=	Y
0.1	2.000	0.29	0.36	1.49	2.53	1.09	4.46	7.6		=	Y
0.1	2.000	0.29	0.36	1.49	2.53	1.09	4.46	7.6		=	Y
0.0	2.000	0.29	0.36	1.46	2.53	1.09	4.37	7.6	U	ND	Y
0.0	2.000	0.33	0.42	1.77	2.53	1.27	5.31	7.6	U	ND	Y
0.3	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6		=	Y
0.0	2.000	0.29	0.36	1.49	2.53	1.09	4.46	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.46	2.53	1.09	4.37	7.6	J	=	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6		=	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.29	0.36	1.37	2.53	1.09	4.10	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.46	2.53	0.95	4.37	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.53	0.95	4.45	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.38	2.53	0.95	4.14	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.38	2.53	0.95	4.14	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.35	2.53	0.95	4.06	7.6	U	ND	Y
0.0	2.000	0.25	0.32	1.38	2.53	0.95	4.14	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.46	2.53	0.84	4.37	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.48	2.53	0.84	4.44	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.41	2.53	0.76	4.24	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.41	2.53	0.76	4.24	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.48	2.53	0.76	4.43	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.39	2.53	0.84	4.16	7.6	U	ND	Y
0.0	2.000	0.22	0.28	1.36	2.53	0.84	4.09	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.41	2.53	0.76	4.24	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.18	0.23	1.48	2.53	0.69	4.43	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.39	2.53	0.76	4.18	7.6	U	ND	Y
0.0	2.000	0.20	0.25	1.33	2.53	0.76	4.00	7.6	U	ND	Y

0.0	2.000	0.17	0.21	1.47	2.53	0.63	4.42	7.6	U	ND	Y
%											Y
100.0	45.00	7.5	9.51	33.58	57.03	28.5	100.7	171.1		=	Y
100.0	45.00	45.0	57.03	37.40	57.03	171.1	112.2	171.1		=	Y
100.0	45.00	5.9	7.50	30.75	57.03	22.5	92.3	171.1		=	Y
100.0	45.00	6.4	8.15	31.72	57.03	24.4	95.2	171.1		=	Y
100.0	45.00	3.0	3.80	30.85	57.03	11.4	92.6	171.1		=	Y
100.0	45.00	7.5	9.51	33.58	57.03	28.5	100.7	171.1		=	Y
100.0	45.00	6.4	8.15	30.77	57.03	24.4	92.3	171.1		=	Y
100.0	45.00	45.0	57.03	37.40	57.03	171.1	112.2	171.1		=	Y
100.0	45.00	3.5	4.39	31.82	57.03	13.2	95.5	171.1		=	Y
100.0	45.00	5.6	7.13	34.42	57.03	21.4	103.3	171.1		=	Y
0.0	45.00	7.5	9.51	33.58	57.03	28.5	100.7	171.1	U	ND	Y
0.0	25.000	3.6	4.53	17.62	31.68	13.6	52.9	95.1	U	ND	Y
%											Y
77.3											Y
80.1											Y
18.5											Y
0.2											Y
0.8											Y
0.5											Y
0.0											Y
%											Y
10.7	5.000	2.5	3.17	3.91	6.34	9.5	11.7	19.0		=	Y
89.3	5.000	1.7	2.11	3.82	6.34	6.3	11.5	19.0		=	Y
0.0	25.000	6.3	7.92	18.87	31.68	23.8	56.6	95.1	U	ND	Y
0.0	25.000	5.0	6.34	18.74	31.68	19.0	56.2	95.1	U	ND	Y
0.0	25.000	4.2	5.28	18.66	31.68	15.8	56.0	95.1	U	ND	Y
0.0	25.000	3.6	4.53	18.59	31.68	13.6	55.8	95.1	U	ND	Y
0.0	25.000	3.1	3.96	18.54	31.68	11.9	55.6	95.1	U	ND	Y
0.0	25.000	2.8	3.52	18.51	31.68	10.6	55.5	95.1	U	ND	Y
0.0	25.000	2.5	3.17	18.48	31.68	9.5	55.4	95.1	U	ND	Y
0.0	25.000	2.3	2.88	18.45	31.68	8.6	55.4	95.1	U	ND	Y
0.0	25.000	2.1	2.64	18.43	31.68	7.9	55.3	95.1	U	ND	Y
0.0	25.000	2.1	2.64	18.43	31.68	7.9	55.3	95.1	U	ND	Y
100.0											Y
											Y
2.1	6.0	1.0	1.27	3.75	7.60	3.8	11.2	22.8			Y
0.1	6.0	0.9	1.09	4.46	7.60	3.3	13.4	22.8			Y
0.0	6.0	0.7	0.84	4.44	7.60	2.5	13.3	22.8			Y
0.0	6.0	0.5	0.69	4.05	7.60	2.1	12.1	22.8			Y
0.0	6.0	0.7	0.84	3.95	7.60	2.5	11.9	22.8			Y
0.0	6.0	0.5	0.69	4.03	7.60	2.1	12.1	22.8			Y
1.5	2.0	0.3	0.42	1.49	2.53	1.3	4.5	7.6		=	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
523.6						523.58			
					0.0		0.00		
4376.2						4376.20			
	20.0					19.97			
					0.0				
					0.0		0.00		
					0.0		0.00		
4200.3						4200.27			
					7.8		7.76		
					24.5		24.47		
					0.0				
					0.0		0.00		
					0.0				
	1615.6					1615.62			
					0.0		0.00		
					0.0				
					0.0		0.00		
325.6						325.65			
					0.0		0.00		
					17.9		17.86		
					3.4		3.43		
					0.0				
					0.0		0.00		
	297.3					297.29			
			0.0						0.00
					0.0				
			53.4						53.37
					0.0				
	0.0					0.00			
	63.0					62.98			
	31.6					31.57			
					0.0		0.00		
22.1						22.13			
					0.0				

| | | |

0.0						0.00			
9447.8	2186.7	17.7	93.7	53.5	0.0	11665.8	53.5	0.0	62.4

325.65	391.84		
22.13	159.21		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
	0.00				
	0.00				
	0.00				
				0.00	
				0.00	

0.00

0.00

17.73

0.00

0.00

0.00
0.00
0.00
0.00

0.00
0.00

0.00

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0.00

0.00
0.00
0.00
0.00
0.00
0.00

0.00
0.00
0.00

0.0	0.0	0.0	0.0	17.7	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**36**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.27	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.16E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.16E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.16E+04	324084	523.6	261.79	322.94
Propene	3	TRG	4.5	2.16E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.16E+04	2708783	4376.2	1458.73	2636.48
i-Butane	4	TRG	58.1	2.16E+04	12364	20.0	4.99	11.89
Methanol	1	TRG	32.0	2.16E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.16E+04	2599887	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.16E+04	4801	4200.3	1050.07	2500.36
c-2-Butene	4	TRG	56.1	2.16E+04	15144	7.8	1.94	4.46
Ethanol	4	TRG	56.1	2.16E+04	0	24.5	6.12	14.06
i-Pentane	5	TRG	70.1	2.16E+04	1000039	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.16E+04	0	1615.6	323.12	956.13
n-Pentane	5	TRG	70.1	2.16E+04	201569	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.16E+04	11054	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.16E+04	2124	325.6	65.13	192.45
2,2-Dimethylbutane	5	TRG	68.1	2.16E+04	184016	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.16E+04	33036	17.9	3.57	10.26
2,3-Dimethylbutane	5	TRG	70.1	2.16E+04	0	3.4	0.69	1.97
2-Methylpentane	4	TRG	74.1	2.16E+04	38984	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.16E+04	19543	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.16E+04	13699	297.3	49.55	175.04
Methylcyclopentane	5	TRG	68.1	2.16E+04	1159	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.16E+04	8768	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.16E+04	10972	53.4	10.67	30.67
Cyclohexane	5	TRG	88.2	2.16E+04	19372	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.16E+04	7535	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.16E+04	15525	63.0	10.50	37.08
3-Methylhexane	6	TRG	86.2	2.16E+04	11138	31.6	5.26	18.59
2,2,4-Trimethylpentane	6	TRG	84.2	2.16E+04	49050	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.16E+04	0	22.1	3.69	13.03
Methylcyclohexane	6	TRG	102.2	2.16E+04	4446	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.16E+04	1065	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.16E+04	5469	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	1.9	0.31	1.08	
Toluene	7	TRG	100.2	2.16E+04	0	14.2	2.02	8.31	
2,3-Dimethylhexane	6	TRG	78.1	2.16E+04	0	17.7	2.95	9.46	
2-Methylheptane	6	TRG	84.2	2.16E+04	0	31.3	5.22	18.00	
3-Methylheptane	7	TRG	100.2	2.16E+04	0	12.2	1.74	7.14	
n-Octane	7	TRG	100.2	2.16E+04	0	25.1	3.58	14.71	
Ethylbenzene	7	TRG	100.2	2.16E+04	0	18.0	2.57	10.56	
m,p-xylene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.16E+04	0	79.2	9.91	46.36	
n-Nonane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.16E+04	0	7.2	1.03	4.13	
n-propylbenzene	8	TRG	114.2	2.16E+04	0	1.7	0.22	1.01	
a-Pinene	8	TRG	114.2	2.16E+04	0	8.8	1.10	5.17	
3-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.16E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.16E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.16E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.16E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.16E+04	9446308	15261.1	2543.51	8985.68	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.16E+04	9446308	15261.1	15261.06	10007.25	
Total Volatile Organic Compoun	8	TRG	100.0	2.16E+04	9446308	15261.1	2008.03	8229.65	
TPH (gasoline)	7	TRG	95.0	2.16E+04	9446308	15261.1	2180.15	8488.29	
TPH (diesel)	15	TRG	198.0	2.16E+04	9446308	15261.1	1017.40	8255.98	
TPH (hexane)	6	TRG	86.2	2.16E+04	9446308	15261.1	2543.51	8985.68	
TPH (toluene)	7	TRG	92.1	2.16E+04	9446308	15261.1	2180.15	8232.75	
TPH (methane)	1	TRG	16.0	2.16E+04	9446308	15261.1	15261.06	10007.25	
TPH (Jet A Fuel)	13	TRG	177.0	2.16E+04	9446308	15261.1	1173.93	8515.79	
TPH (Mineral Spirits)	8	TRG	117.8	2.16E+04	9446308	15261.1	1907.63	9210.58	
C6+ (hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.16E+04		11799.4			Sum ID
Paraffins	P	TRG	0.0	2.16E+04		9447.8			Sum P
Isoparaffins	I	TRG	0.0	2.16E+04		2186.7			Sum I
Aromatics	A	TRG	0.0	2.16E+04		17.7			Sum A
Napthlenes	N	TRG	0.0	2.16E+04		93.7			Sum N
Olefins	O	TRG	0.0	2.16E+04		53.5			Sum O
Oxygenates		TRG	0.0	2.16E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.16E+04	324084	523.6	261.79	322.94	
C3 (propane)	3	TRG	44.1	2.16E+04	2708783	4376.2	1458.73	2636.48	
C4 (Butane)	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.16E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.16E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.16E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.16E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.16E+04	3032867	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 37

File Name: 2510037A
Description: T-301
Canister: 638
QC_Batch: 040125-GCK

Date Sampled: 03/21/25 **Time:** 7:58
Date Analyzed: 04/01/25 **Time:** 21:09
Can Factor: 1.19
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.19	3.57	ND	1.37	4.12	ND	ND
74-86-2	Acetylene	1.19	3.57	ND	1.27	3.81	ND	ND
74-84-0	Ethane	1.19	3.57	2.68	1.47	4.41	3.31	J
115-07-1	Propene	0.79	2.38	ND	1.37	4.11	ND	ND
74-98-6	Propane	0.79	2.38	1.09	1.44	4.31	1.97	J
75-28-5	i-Butane	0.60	1.79	ND	1.42	4.25	ND	ND
106-98-9	1-Butene	0.60	1.79	0.71	1.37	4.11	1.63	J
106-97-8	n-Butane	0.60	1.79	ND	1.42	4.25	ND	ND
624-64-6	t-2-Butene	0.60	1.79	ND	1.37	4.11	ND	ND
590-18-1	c-2-Butene	0.60	1.79	ND	1.37	4.11	ND	ND
78-78-4	i-Pentane	0.48	1.43	ND	1.41	4.23	ND	ND
109-67-1	1-Pentene	0.48	1.43	ND	1.37	4.11	ND	ND
109-66-0	n-Pentane	0.48	1.43	ND	1.41	4.22	ND	ND
646-04-8	t-2-Pentene	0.48	1.43	ND	1.37	4.11	ND	ND
627-20-3	c-2-Pentene	0.48	1.43	ND	1.37	4.11	ND	ND
75-83-2	2,2-Dimethylbutane	0.40	1.19	ND	1.40	4.21	ND	ND
142-29-0	Cyclopentene	0.48	1.43	ND	1.33	3.99	ND	ND
287-92-3	Cyclopentane	0.48	1.43	0.52	1.37	4.11	1.49	J
79-29-8	2,3-Dimethylbutane	0.40	1.19	ND	1.40	4.21	ND	ND
107-83-5	2-Methylpentane	0.40	1.19	ND	1.40	4.21	ND	ND
96-14-0	3-Methylpentane	0.40	1.19	ND	1.40	4.21	ND	ND
592-41-6	1-Hexene	0.40	1.19	ND	1.37	4.11	ND	ND
110-54-3	n-Hexane	0.40	1.19	ND	1.40	4.21	ND	ND
1120-62-3	3-Methylcyclopentene	0.40	1.19	ND	1.34	4.01	ND	ND
96-37-7	Methylcyclopentane	0.40	1.19	ND	1.37	4.11	ND	ND
108-08-7	2,4-Dimethylpentane	0.34	1.02	ND	1.40	4.19	ND	ND
71-43-2	Benzene	0.40	1.19	ND	1.27	3.81	ND	ND
110-82-7	Cyclohexane	0.40	1.19	ND	1.37	4.11	ND	ND
591-76-4	2-Methylhexane	0.34	1.02	ND	1.40	4.19	ND	ND
565-59-3	2,3-Dimethylpentane	0.34	1.02	ND	1.40	4.19	ND	ND
589-34-4	3-Methylhexane	0.34	1.02	ND	1.40	4.19	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.89	ND	1.39	4.18	ND	ND
142-82-5	n-Heptane	0.34	1.02	ND	1.40	4.19	ND	ND
108-87-2	Methylcyclohexane	0.34	1.02	ND	1.37	4.11	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.89	ND	1.39	4.18	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.89	ND	1.39	4.18	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.89	ND	1.39	4.18	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.34	1.02	ND	1.28	3.85	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.89	ND	1.39	4.18	ND	ND
592-27-8	2-Methylheptane	0.30	0.89	ND	1.39	4.18	ND	ND
589-53-7	4-Methylheptane	0.30	0.89	ND	1.39	4.18	ND	ND
589-81-1	3-Methylheptane	0.30	0.89	ND	1.39	4.18	ND	ND
111-65-9	n-Octane	0.30	0.89	ND	1.39	4.18	ND	ND
100-41-4	Ethylbenzene	0.30	0.89	ND	1.30	3.89	ND	ND
108-38-3	m,p-xylene	0.30	0.89	ND	1.30	3.89	ND	ND
100-42-5	Styrene	0.30	0.89	ND	1.27	3.81	ND	ND
95-47-6	o-xylene	0.30	0.89	ND	1.30	3.89	ND	ND
111-84-2	n-Nonane	0.26	0.79	ND	1.39	4.18	ND	ND
98-82-8	i-Propylbenzene	0.26	0.79	ND	1.30	3.91	ND	ND
103-65-1	n-propylbenzene	0.26	0.79	ND	1.30	3.91	ND	ND
620-14-4	3-Ethyltoluene	0.26	0.79	ND	1.30	3.91	ND	ND
622-96-8	4-Ethyltoluene	0.26	0.79	ND	1.30	3.91	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.26	0.79	ND	1.30	3.91	ND	ND
611-14-3	2-Ethyltoluene	0.26	0.79	ND	1.30	3.91	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.26	0.79	ND	1.30	3.91	ND	ND
124-18-5	n-Decane	0.24	0.71	ND	1.39	4.17	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.26	0.79	ND	1.30	3.91	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.71	ND	1.31	3.93	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.71	ND	1.31	3.93	ND	ND
104-51-8	n-Butylbenzene	0.24	0.71	ND	1.31	3.93	ND	ND
1120-21-4	Undecane	0.22	0.65	ND	1.39	4.16	ND	ND
91-20-3	Naphthalene	0.24	0.71	ND	1.25	3.75	ND	ND
112-40-3	Dodecane	0.20	0.60	ND	1.39	4.16	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	8.93	26.80	16.60	31.56	94.67	58.64	J
TNMHC - C1	Total Non-Methane Hydrocarbons	53.60	160.79	99.58	35.15	105.44	65.30	J

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **37**
File Name: **2510037A**
Sample ID: **T-301**
Sampled: **3/21/2025**
Received: **03/21/25**
Analyzed: **04/01/25**
QCBatch: **040125-GCK**
Can: **638**
Can Factor: **1.19**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **7:58** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **21:09** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **390567**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

				RT Win	C2-C	C5-C12
				RT	**0.3**	**0.1**
				RTI	**3**	**3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.01	**4.02**	1083	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.05			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.12**	3533	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11						-190	290
74-98-6	Propane	P	5.20	**5.20**	**5.18**	2149	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.58**	**6.43**		I	O	M	339	351
67-56-1	Methanol		8.30	8.28						138	401
106-98-9	1-Butene	P	7.29	7.27	**7.27**	1864	I	I	H	365	367
106-99-0	1,3-Butadiene		**7.48**	7.46						138	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.37**	808	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.78	**8.68**		O	I	M	408	410
590-18-1	c-2-Butene	P	9.63	9.66	**9.58**		I	I	H	430	431
64-17-5	Ethanol		10.85	10.78						193	461
563-45-1	3-Methyl-1-butene	6	**11.05**	10.98						193	465
67-64-1	Acetone		11.52	11.45						193	476
78-78-4	i-Pentane	P	11.37	11.30	**11.38**		I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.23	**12.27**	1437	I	I	H	497	495
67-63-0	Isopropanol		12.65	12.58						193	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.29						193	497
109-66-0	n-Pentane	P	12.48	**12.41**	**12.41**	1564	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.48						171	503
646-04-8	t-2-Pentene	P	12.79	12.72	**12.80**		I	I	H	510	510
627-20-3	c-2-Pentene	P	13.08	13.01	**13.10**		I	I	H	518	518
75-65-0	Tert butyl alcohol		**13.55**	13.48						284	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.55						284	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.70	**13.77**		I	I	H	536	537
142-29-0	Cyclopentene	15	**14.61**	14.54						171	551
71-23-8	n-Propanol		**14.75**	14.68						171	558
287-92-3	Cyclopentane	P	14.88	14.81	**14.81**	1703	I	O	M	564	567
1634-04-4	Methyl tert butyl ether		**15.00**	14.93						171	569
79-29-8	2,3-Dimethylbutane	P	15.06	14.99						171	570
107-83-5	2-Methylpentane	P	15.08	15.01	**15.07**		I	I	H	571	571
96-14-0	3-Methylpentane	P	15.55	15.48	**15.57**		I	I	H	584	583
592-41-6	1-Hexene	P	**15.80**	15.73						171	590
110-54-3	n-Hexane	P	16.17	**16.10**	**16.18**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.31						261	606

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21	**16.45**	16.46						215	609
637-92-3	Ethyl tert butyl ether		**16.80**	16.81						215	623
96-37-7	Methylcyclopentane	P	16.86	16.87	**16.87**		I	I	H	621	622
108-08-7	2,4-Dimethylpentane	P	17.05	17.06	**17.06**		I	I	H	627	626
71-43-2	Benzene	P	17.87	**17.88**	**17.90**		I	I	H	653	651
110-82-7	Cyclohexane	P	18.14	18.17	**18.15**		I	I	H	661	658
591-76-4	2-Methylhexane	P	18.38	18.41	**18.40**		I	I	H	668	670
565-59-3	2,3-Dimethylpentane	P	18.45	18.48	**18.46**		I	I	H	670	671
589-34-4	3-Methylhexane	P	18.66	18.69	**18.68**		I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33	**18.75**	18.78						102	687
994-05-8	Tert amyl methyl ether		**18.80**	18.83						102	674
540-84-1	2,2,4-Trimethylpentane	P	19.09	19.12	**19.10**		I	I	H	690	690
142-82-5	n-Heptane	P	19.41	19.44	**19.43**		I	I	H	700	700
108-87-2	Methylcyclohexane	P	20.09	20.12	**20.11**		I	I	H	723	722
592-13-2	2,5-Dimethylhexane		20.35	20.38	**20.38**		I	I	H	733	734
589-43-5	2,4-Dimethylhexane		20.43	20.46	**20.47**		I	I	H	736	737
565-75-3	2,3,4-Trimethylpentane	P	20.93	20.96	**20.95**		I	I	H	752	753
108-88-3	Toluene	P	21.12	**21.15**	**21.11**		I	I	H	757	758
584-94-1	2,3-Dimethylhexane		21.20	21.19	**21.22**		I	I	H	761	763
592-27-8	2-Methylheptane	P	21.33	21.32						35	768
589-53-7	4-Methylheptane	48	**21.48**	21.47						35	775
1067-08-9	3-Ethyl-3-methylpentane		**21.50**	21.49						35	772
589-81-1	3-Methylheptane	p	21.55	21.54						35	775
15870-10-7	2-Methyl-1-heptene	52	**22.10**	22.09						35	786
111-65-9	n-Octane	P	22.27	22.26	**22.35**		I	I	H	800	800
100-41-4	Ethylbenzene	P	23.75	23.74	**23.70**		I	I	H	854	855
108-38-3	m,p-xylene	P	23.95	23.94	**23.85**		I	O	M	860	863
100-42-5	Styrene	P	24.40	24.39						-90	881
95-47-6	o-xylene	P	24.57	24.56	**24.58**		I	I	H	889	886
124-11-8	1-Nonene	64	24.60	24.59						-90	889
111-84-2	n-Nonane	P	24.87	24.86	**24.86**		I	I	H	900	900
98-82-8	i-Propylbenzene	P	25.36	25.35	**25.26**		I	I	H	917	919
103-65-1	n-propylbenzene	P	25.93	25.92	**25.94**		I	I	H	945	947
80-56-8	a-Pinene		26.09	26.08						-140	950
620-14-4	3-Ethyltoluene	P	26.17	26.16						-140	957
622-96-8	4-Ethyltoluene	P	26.26	26.25	**26.22**		I	I	H	957	959
108-67-8	1,3,5-Trimethylbenzene	P	26.45	26.44	**26.44**		I	I	H	966	964
611-14-3	2-Ethyltoluene	P	26.61	26.60	**26.60**		I	I	H	973	975
127-91-3	b-Pinene		26.80	26.79	**26.78**		I	I	H	980	979
95-63-6	1,2,4-Trimethylbenzene	P	27.08	27.07	**27.02**		I	I	H	990	991
124-18-5	n-Decane	P	27.26	27.25	**27.25**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene	P	27.55	27.54	**27.46**		I	O	M	1008	1014
496-11-7	Indan	81	27.55	27.54						-48	1020
5989-27-5	d-Limonene		27.65	27.64						-48	1017
141-93-5	1,3-Diethylbenzene	P	28.10	28.09	**28.08**		I	I	H	1032	1032
105-05-5	1,4-Diethylbenzene	P	28.23	28.22	**28.22**		I	I	H	1037	1037
104-51-8	n-Butylbenzene		28.45	28.44	**28.34**		I	O	M	1042	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87	28.60	28.59						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88	28.75	28.74						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89	28.83	28.82						-48	1060
1120-21-4	Undecane	P	29.86	29.85	**29.85**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene		30.45	30.44						-35	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.49						-35	1124
91-20-3	Naphthalene		32.25	32.24						-35	1193
112-40-3	Dodecane	P	32.46	32.45	**32.48**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					65589		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					65589		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					65589		0			
TVOC	Total Volatile Organic Compounds					65589		0			
TPH(g)	TPH (gasoline)					65589		0			
TPH(d)	TPH (diesel)					65589		0			
TPH(h)	TPH (hexane)					65589		0			
TPH(t)	TPH (toluene)					65589		0			
TPHC	TPH (methane)					65589		0			
TPH(Jet A)	TPH (Jet A Fuel)					65589		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					65589					
C6+	**C6+ (hexane)**		16.17	16.10	16.18	**0**		Sum from	16.10	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			4616		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			2149		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**6765**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040125-GCK		
Hexane Std Area:	390567		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.19	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.19		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	1.64	0.82	0.95	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	5.36	2.68	3.31	5.36	2.68	3.31	3.31	3.31
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	3.26	1.09	1.97	3.26	1.09	1.97	1.97	1.97
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	2.83	0.71	1.63	2.83	0.71	1.63	1.63	1.63
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	1.23	0.31	0.73	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	2.18	0.44	1.25	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	2.37	0.47	1.40	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	2.59	0.52	1.49	2.59	0.52	1.49	1.49	1.49
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	99.58	16.6	58.6	99.58	16.60	58.64	58.64	58.64
Total Non-Methane Hydrocarbons	16	1.0	99.58	99.6	65.3	99.58	99.58	65.30	65.30	65.30
Total Volatile Organic Compounds	100	7.6	99.58	13.1	53.7	99.58	13.10	53.70	53.70	53.70
TPH (gasoline)	95	7.0	99.58	14.2	55.4	99.58	14.23	55.39	55.39	55.39
TPH (diesel)	198	15.0	99.58	6.6	53.9	99.58	6.64	53.87	53.87	53.87
TPH (hexane)	86.2	6.0	99.58	16.6	58.6	99.58	16.60	58.64	58.64	58.64
TPH (toluene)	92.14	7.0	99.58	14.2	53.7	99.58	14.23	53.72	53.72	53.72
TPH (methane)	16	1.0	99.58	99.6	65.3	99.58	99.58	65.30	65.30	65.30
TPH (Jet A Fuel)	177	13.0	99.58	7.7	55.6	99.58	7.66	55.57	55.57	55.57
TPH (Mineral Spirits)	117.81	8.0	99.58	12.4	60.1	99.58	12.45	60.10	60.10	60.10
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			21.5	7.0						
Paraffins			12.2							
Isoparaffins			0.0							
Aromatics			0.0							
Napthlenes			2.6							
Olefins			6.7							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	7.01	3.50	4.32	7.01	3.50	4.32	4.32	4.32
C3 (propane)	44.1	3	3.26	1.09	1.97	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			10.3							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	2.4	0.40	1.17					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			12.2	57.0
Alkenes			6.7	31.0
Alkynes			0.0	0.0
Cycloalkanes			2.6	12.0
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			0.0	0.0
Terpenes			0.0	0.0

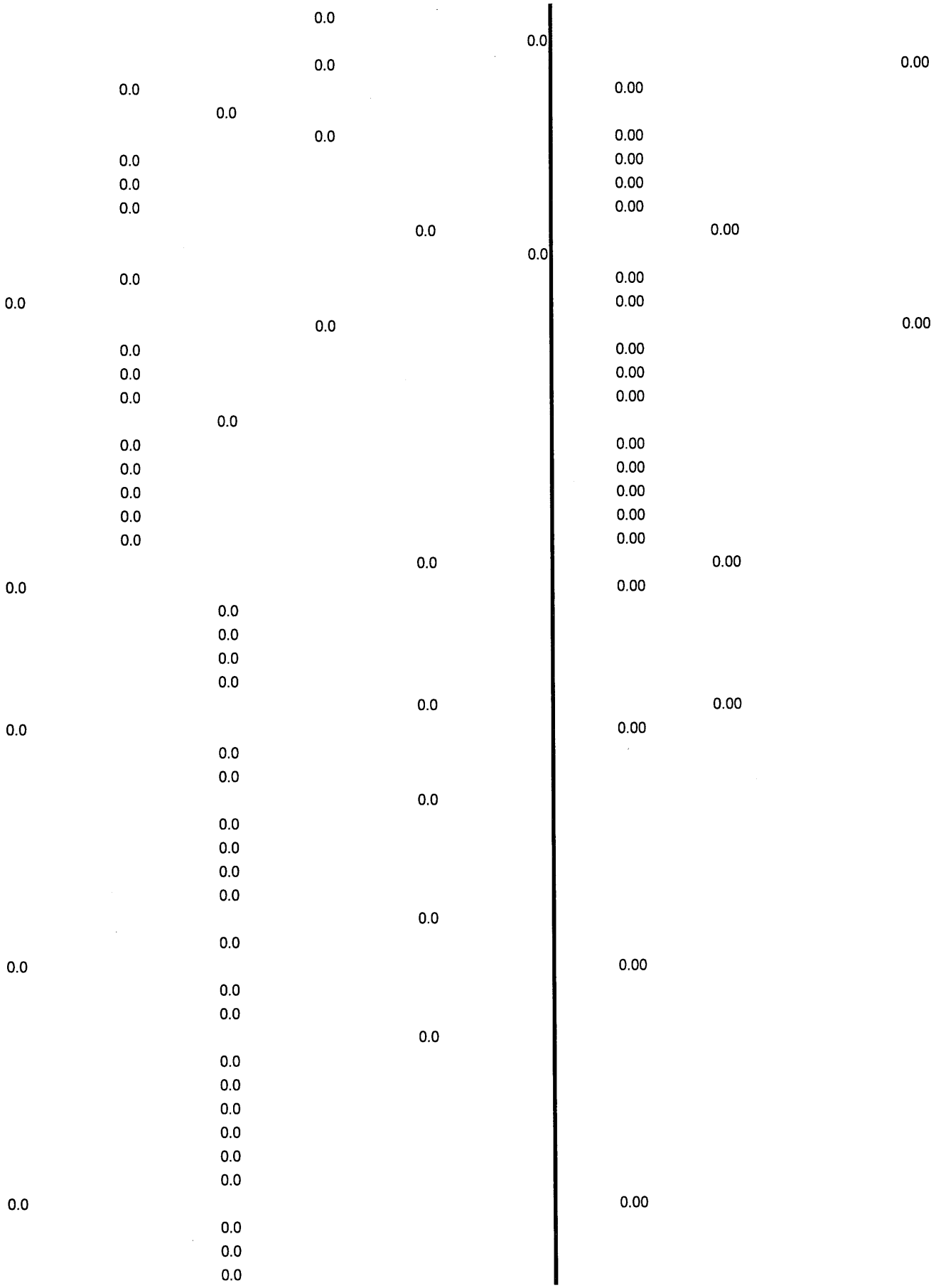
SDG: **225100**
Laboratory Number: **37**

Mole %	(1)	(2)	Calc	Calc	Calc	Calc	Calc	Calc				
Result	MDL	MDL	MDL	MDL	MDL	RL	RL	RL		Detect	EPA	Rept
%	ppbC	ppbV	ppbV	ug/m3	ppbC	ppbV	ug/m3	ppbC	Flag	Flan	Flag	Res
11.7	2.000	1.00	1.19	1.37	2.38	3.57	4.12	7.1	U	ND		Y
0.0	2.000	1.00	1.19	1.27	2.38	3.57	3.81	7.1	U	ND		Y
38.1	2.000	1.00	1.19	1.47	2.38	3.57	4.41	7.1	J	=		Y
0.0	2.000	0.67	0.79	1.37	2.38	2.38	4.11	7.1	U	ND		Y
15.5	2.000	0.67	0.79	1.44	2.38	2.38	4.31	7.1	J	=		Y
0.0	2.000	0.50	0.60	1.42	2.38	1.79	4.25	7.1	U	ND		Y
0.0	2.000	2.00	2.38	3.12	2.38	7.15	9.37	7.1	U	ND		Y
10.1	2.000	0.50	0.60	1.37	2.38	1.79	4.11	7.1	J	=		Y
0.0	2.000	0.50	0.60	1.32	2.38	1.79	3.96	7.1	U	ND		Y
4.4	2.000	0.50	0.60	1.42	2.38	1.79	4.25	7.1	U	ND		Y
0.0	2.000	0.50	0.60	1.37	2.38	1.79	4.11	7.1	U	ND		Y
0.0	2.000	0.50	0.60	1.37	2.38	1.79	4.11	7.1	U	ND		Y
0.0	2.000	1.00	1.19	2.25	2.38	3.57	6.75	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.38	1.43	4.11	7.1	U	ND		Y
0.0	2.000	0.67	0.79	1.89	2.38	2.38	5.67	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.41	2.38	1.43	4.23	7.1	U	ND		Y
6.2	2.000	0.40	0.48	1.37	2.38	1.43	4.11	7.1	U	ND		Y
0.0	2.000	0.67	0.79	1.96	2.38	2.38	5.87	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.38	1.43	4.11	7.1	U	ND		Y
6.8	2.000	0.40	0.48	1.41	2.38	1.43	4.22	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.33	2.38	1.43	3.99	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.38	1.43	4.11	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.38	1.43	4.11	7.1	U	ND		Y
0.0	2.000	0.50	0.60	1.81	2.38	1.79	5.43	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.38	1.43	4.11	7.1	U	ND		Y
0.0	2.000	0.33	0.40	1.40	2.38	1.19	4.21	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.33	2.38	1.43	3.99	7.1	U	ND		Y
0.0	2.000	0.67	0.79	1.96	2.38	2.38	5.87	7.1	U	ND		Y
7.4	2.000	0.40	0.48	1.37	2.38	1.43	4.11	7.1	J	=		Y
0.0	2.000	0.40	0.48	1.72	2.38	1.43	5.17	7.1	U	ND		Y
0.0	2.000	0.33	0.40	1.40	2.38	1.19	4.21	7.1	U	ND		Y
0.0	2.000	0.33	0.40	1.40	2.38	1.19	4.21	7.1	U	ND		Y
0.0	2.000	0.33	0.40	1.40	2.38	1.19	4.21	7.1	U	ND		Y
0.0	2.000	0.33	0.40	1.37	2.38	1.19	4.11	7.1	U	ND		Y
0.0	2.000	0.33	0.40	1.40	2.38	1.19	4.21	7.1	U	ND		Y
0.0	2.000	0.33	0.40	1.66	2.38	1.19	4.99	7.1	U	ND		Y

0.0	2.000	0.33	0.40	1.34	2.38	1.19	4.01	7.1	U	ND	Y
0.0	2.000	0.33	0.40	1.66	2.38	1.19	4.99	7.1	U	ND	Y
0.0	2.000	0.33	0.40	1.37	2.38	1.19	4.11	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.40	2.38	1.02	4.19	7.1	U	ND	Y
0.0	2.000	0.33	0.40	1.27	2.38	1.19	3.81	7.1	U	ND	Y
0.0	2.000	0.33	0.40	1.37	2.38	1.19	4.11	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.40	2.38	1.02	4.19	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.40	2.38	1.02	4.19	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.40	2.38	1.02	4.19	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.37	2.38	1.02	4.11	7.1	U	ND	Y
0.0	2.000	0.33	0.40	1.66	2.38	1.19	4.99	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.18	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.40	2.38	1.02	4.19	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.37	2.38	1.02	4.11	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.18	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.18	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.18	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.28	2.38	1.02	3.85	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.18	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.18	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.18	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.18	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.18	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.37	2.38	0.89	4.11	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.18	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.30	2.38	0.89	3.89	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.30	2.38	0.89	3.89	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.27	2.38	0.89	3.81	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.30	2.38	0.89	3.89	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.37	2.38	0.79	4.11	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.39	2.38	0.79	4.18	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.30	2.38	0.79	3.91	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.30	2.38	0.79	3.91	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.38	0.71	3.99	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.30	2.38	0.79	3.91	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.30	2.38	0.79	3.91	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.30	2.38	0.79	3.91	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.30	2.38	0.79	3.91	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.38	0.71	3.99	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.30	2.38	0.79	3.91	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.39	2.38	0.71	4.17	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.30	2.38	0.79	3.91	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.28	2.38	0.79	3.85	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.38	0.71	3.99	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.38	0.71	3.93	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.38	0.71	3.93	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.38	0.71	3.93	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.38	0.71	3.93	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.38	0.71	3.93	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.38	0.71	3.93	7.1	U	ND	Y
0.0	2.000	0.18	0.22	1.39	2.38	0.65	4.16	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.38	0.71	3.93	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.38	0.71	3.93	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.25	2.38	0.71	3.75	7.1	U	ND	Y

0.0	2.000	0.17	0.20	1.39	2.38	0.60	4.16	7.1	U	ND	Y
%											Y
100.0	45.00	7.5	8.93	31.56	53.60	26.8	94.7	160.8	J	=	Y
100.0	45.00	45.0	53.60	35.15	53.60	160.8	105.4	160.8	J	=	Y
100.0	45.00	5.9	7.05	28.90	53.60	21.2	86.7	160.8	J	=	Y
100.0	45.00	6.4	7.66	29.81	53.60	23.0	89.4	160.8	J	=	Y
100.0	45.00	3.0	3.57	29.00	53.60	10.7	87.0	160.8	J	=	Y
100.0	45.00	7.5	8.93	31.56	53.60	26.8	94.7	160.8	J	=	Y
100.0	45.00	6.4	7.66	28.91	53.60	23.0	86.7	160.8	J	=	Y
100.0	45.00	45.0	53.60	35.15	53.60	160.8	105.4	160.8	J	=	Y
100.0	45.00	3.5	4.12	29.91	53.60	12.4	89.7	160.8	J	=	Y
100.0	45.00	5.6	6.70	32.35	53.60	20.1	97.0	160.8	J	=	Y
0.0	45.00	7.5	8.93	31.56	53.60	26.8	94.7	160.8	U	ND	Y
0.0	25.000	3.6	4.25	16.56	29.78	12.8	49.7	89.3	U	ND	Y
%											Y
21.6											Y
56.9											Y
0.0											Y
0.0											Y
12.0											Y
31.0											Y
0.0											Y
%											Y
68.2	5.000	2.5	2.98	3.67	5.96	8.9	11.0	17.9	J	=	Y
31.8	5.000	1.7	1.99	3.59	5.96	6.0	10.8	17.9	U	ND	Y
0.0	25.000	6.3	7.44	17.73	29.78	22.3	53.2	89.3	U	ND	Y
0.0	25.000	5.0	5.96	17.61	29.78	17.9	52.8	89.3	U	ND	Y
0.0	25.000	4.2	4.96	17.53	29.78	14.9	52.6	89.3	U	ND	Y
0.0	25.000	3.6	4.25	17.47	29.78	12.8	52.4	89.3	U	ND	Y
0.0	25.000	3.1	3.72	17.42	29.78	11.2	52.3	89.3	U	ND	Y
0.0	25.000	2.8	3.31	17.39	29.78	9.9	52.2	89.3	U	ND	Y
0.0	25.000	2.5	2.98	17.37	29.78	8.9	52.1	89.3	U	ND	Y
0.0	25.000	2.3	2.71	17.34	29.78	8.1	52.0	89.3	U	ND	Y
0.0	25.000	2.1	2.48	17.32	29.78	7.4	52.0	89.3	U	ND	Y
0.0	25.000	2.1	2.48	17.32	29.78	7.4	52.0	89.3	U	ND	Y
100.0											Y
											Y
2.4	6.0	1.0	1.19	3.52	7.15	3.6	10.6	21.4			Y
0.0	6.0	0.9	1.02	4.19	7.15	3.1	12.6	21.4			Y
0.0	6.0	0.7	0.79	4.18	7.15	2.4	12.5	21.4			Y
0.0	6.0	0.5	0.65	3.80	7.15	1.9	11.4	21.4			Y
0.0	6.0	0.7	0.79	3.72	7.15	2.4	11.1	21.4			Y
0.0	6.0	0.5	0.65	3.79	7.15	1.9	11.4	21.4			Y
0.0	2.0	0.3	0.40	1.40	2.38	1.2	4.2	7.1	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					1.6		1.64		
					0.0			0.00	
	5.4					5.36			
					0.0		0.00		
	3.3					3.26			
		0.0				0.00			
					0.0				
					2.8		2.83		
					0.0		0.00		
	1.2					1.23			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		0.0				0.00			
					2.2		2.18		
					0.0				
					0.0		0.00		
	2.4					2.37			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
					0.0				
			2.6						2.59
					0.0				
		0.0				0.00			
		0.0				0.00			
		0.0				0.00			
					0.0		0.00		
	0.0					0.00			
					0.0				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12.2	0.0	0.0	2.6	6.7	0.0	12.2	6.7	0.0	2.6

2.37	0.00		
0.00	0.00		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
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			0.00		
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SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**37**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.19	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons / (Avg RFn) × Ansamp × SV × CDF × 1000 = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.16E+04	1083	1.6	0.82	0.95
Acetylene	2	TRG	26.0	2.16E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.16E+04	3533	5.4	2.68	3.31
Propene	3	TRG	4.5	2.16E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.16E+04	2149	3.3	1.09	1.97
i-Butane	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.16E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.16E+04	1864	2.8	0.71	1.63
n-Butane	4	TRG	54.1	2.16E+04	808	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.16E+04	0	1.2	0.31	0.73
c-2-Butene	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.16E+04	1437	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.16E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.16E+04	1564	2.2	0.44	1.25
Isoprene	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.16E+04	0	2.4	0.47	1.40
2,2-Dimethylbutane	5	TRG	68.1	2.16E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.16E+04	1703	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.16E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.16E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.16E+04	0	2.6	0.52	1.49
Cyclohexane	5	TRG	88.2	2.16E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.16E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.16E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.16E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.16E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.16E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.16E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.16E+04	65589	99.6	16.60	58.64	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.16E+04	65589	99.6	99.58	65.30	
Total Volatile Organic Compoun	8	TRG	100.0	2.16E+04	65589	99.6	13.10	53.70	
TPH (gasoline)	7	TRG	95.0	2.16E+04	65589	99.6	14.23	55.39	
TPH (diesel)	15	TRG	198.0	2.16E+04	65589	99.6	6.64	53.87	
TPH (hexane)	6	TRG	86.2	2.16E+04	65589	99.6	16.60	58.64	
TPH (toluene)	7	TRG	92.1	2.16E+04	65589	99.6	14.23	53.72	
TPH (methane)	1	TRG	16.0	2.16E+04	65589	99.6	99.58	65.30	
TPH (Jet A Fuel)	13	TRG	177.0	2.16E+04	65589	99.6	7.66	55.57	
TPH (Mineral Spirits)	8	TRG	117.8	2.16E+04	65589	99.6	12.45	60.10	
C6+ (hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.16E+04		21.5			Sum ID
Paraffins	P	TRG	0.0	2.16E+04		12.2			Sum P
Isoparaffins	I	TRG	0.0	2.16E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.16E+04		0.0			Sum A
Napthlenes	N	TRG	0.0	2.16E+04		2.6			Sum N
Olefins	O	TRG	0.0	2.16E+04		6.7			Sum O
Oxygenates		TRG	0.0	2.16E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.16E+04	4616	7.0	3.50	4.32	
C3 (propane)	3	TRG	44.1	2.16E+04	2149	3.3	1.09	1.97	
C4 (Butane)	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.16E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.16E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.16E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.16E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.16E+04	6765	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 38

File Name: 2510038A
Description: T-302
Canister: 857
QC_Batch: 040225-GCK

Date Sampled: 03/21/25 **Time:** 8:04
Date Analyzed: 04/02/25 **Time:** 11:25
Can Factor: 1.19
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.19	3.56	ND	1.37	4.10	ND	ND
74-86-2	Acetylene	1.19	3.56	ND	1.27	3.80	ND	ND
74-84-0	Ethane	1.19	3.56	4.40	1.47	4.40	5.42	
115-07-1	Propene	0.79	2.38	ND	1.37	4.10	ND	ND
74-98-6	Propane	0.79	2.38	1.67	1.43	4.29	3.01	J
75-28-5	i-Butane	0.59	1.78	ND	1.41	4.24	ND	ND
106-98-9	1-Butene	0.59	1.78	ND	1.37	4.10	ND	ND
106-97-8	n-Butane	0.59	1.78	ND	1.41	4.24	ND	ND
624-64-6	t-2-Butene	0.59	1.78	ND	1.37	4.10	ND	ND
590-18-1	c-2-Butene	0.59	1.78	ND	1.37	4.10	ND	ND
78-78-4	i-Pentane	0.48	1.43	ND	1.41	4.22	ND	ND
109-67-1	1-Pentene	0.48	1.43	ND	1.37	4.10	ND	ND
109-66-0	n-Pentane	0.48	1.43	ND	1.40	4.21	ND	ND
646-04-8	t-2-Pentene	0.48	1.43	ND	1.37	4.10	ND	ND
627-20-3	c-2-Pentene	0.48	1.43	ND	1.37	4.10	ND	ND
75-83-2	2,2-Dimethylbutane	0.40	1.19	ND	1.40	4.20	ND	ND
142-29-0	Cyclopentene	0.48	1.43	ND	1.33	3.98	ND	ND
287-92-3	Cyclopentane	0.48	1.43	ND	1.37	4.10	ND	ND
79-29-8	2,3-Dimethylbutane	0.40	1.19	ND	1.40	4.20	ND	ND
107-83-5	2-Methylpentane	0.40	1.19	ND	1.40	4.20	ND	ND
96-14-0	3-Methylpentane	0.40	1.19	0.55	1.40	4.20	1.93	J
592-41-6	1-Hexene	0.40	1.19	ND	1.37	4.10	ND	ND
110-54-3	n-Hexane	0.40	1.19	ND	1.40	4.20	ND	ND
1120-62-3	3-Methylcyclopentene	0.40	1.19	ND	1.33	4.00	ND	ND
96-37-7	Methylcyclopentane	0.40	1.19	ND	1.37	4.10	ND	ND
108-08-7	2,4-Dimethylpentane	0.34	1.02	ND	1.39	4.18	ND	ND
71-43-2	Benzene	0.40	1.19	ND	1.27	3.80	ND	ND
110-82-7	Cyclohexane	0.40	1.19	ND	1.37	4.10	ND	ND
591-76-4	2-Methylhexane	0.34	1.02	ND	1.39	4.18	ND	ND
565-59-3	2,3-Dimethylpentane	0.34	1.02	ND	1.39	4.18	ND	ND
589-34-4	3-Methylhexane	0.34	1.02	ND	1.39	4.18	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.89	ND	1.39	4.17	ND	ND
142-82-5	n-Heptane	0.34	1.02	ND	1.39	4.18	ND	ND
108-87-2	Methylcyclohexane	0.34	1.02	ND	1.37	4.10	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.89	ND	1.39	4.17	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.89	ND	1.39	4.17	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.89	ND	1.39	4.17	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.34	1.02	ND	1.28	3.84	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.89	ND	1.39	4.17	ND	ND
592-27-8	2-Methylheptane	0.30	0.89	ND	1.39	4.17	ND	ND
589-53-7	4-Methylheptane	0.30	0.89	ND	1.39	4.17	ND	ND
589-81-1	3-Methylheptane	0.30	0.89	ND	1.39	4.17	ND	ND
111-65-9	n-Octane	0.30	0.89	ND	1.39	4.17	ND	ND
100-41-4	Ethylbenzene	0.30	0.89	ND	1.29	3.88	ND	ND
108-38-3	m,p-xylene	0.30	0.89	ND	1.29	3.88	ND	ND
100-42-5	Styrene	0.30	0.89	ND	1.27	3.81	ND	ND
95-47-6	o-xylene	0.30	0.89	ND	1.29	3.88	ND	ND
111-84-2	n-Nonane	0.26	0.79	ND	1.39	4.16	ND	ND
98-82-8	i-Propylbenzene	0.26	0.79	ND	1.30	3.90	ND	ND
103-65-1	n-propylbenzene	0.26	0.79	ND	1.30	3.90	ND	ND
620-14-4	3-Ethyltoluene	0.26	0.79	ND	1.30	3.90	ND	ND
622-96-8	4-Ethyltoluene	0.26	0.79	ND	1.30	3.90	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.26	0.79	ND	1.30	3.90	ND	ND
611-14-3	2-Ethyltoluene	0.26	0.79	ND	1.30	3.90	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.26	0.79	ND	1.30	3.90	ND	ND
124-18-5	n-Decane	0.24	0.71	ND	1.39	4.16	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.26	0.79	ND	1.30	3.90	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.71	ND	1.31	3.92	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.71	ND	1.31	3.92	ND	ND
104-51-8	n-Butylbenzene	0.24	0.71	ND	1.31	3.92	ND	ND
1120-21-4	Undecane	0.22	0.65	ND	1.38	4.15	ND	ND
91-20-3	Naphthalene	0.24	0.71	ND	1.25	3.75	ND	ND
112-40-3	Dodecane	0.20	0.59	ND	1.38	4.15	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	8.91	26.73	ND	31.48	94.43	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	53.46	160.38	ND	35.06	105.17	ND	ND

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **38**
File Name: **2510038A**
Sample ID: **T-302**
Sampled: **3/21/2025**
Received: **03/21/25**
Analyzed: **04/02/25**
QCBatch: **040225-GCK**
Can: **857**
Can Factor: **1.19**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **8:04** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **11:25** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **385895**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.11	**4.10**	1315	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.15			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.22**	5807	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11						-208	290
74-98-6	Propane	P	5.20	**5.20**	**5.26**	3303	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.66**						130	351
67-56-1	Methanol		8.30	8.36						130	401
106-98-9	1-Butene	P	7.29	7.35						130	367
106-99-0	1,3-Butadiene		**7.48**	7.54						130	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75						198	410
590-18-1	c-2-Butene	P	9.63	9.63						198	431
64-17-5	Ethanol		10.85	10.85						198	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.05						198	465
67-64-1	Acetone		11.52	11.52						198	476
78-78-4	i-Pentane	P	11.37	11.37						198	473
109-67-1	1-Pentene	P	12.30	12.30						198	495
67-63-0	Isopropanol		12.65	12.65						198	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.36						198	497
109-66-0	n-Pentane	P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.55						162	503
646-04-8	t-2-Pentene	P	12.79	12.79						162	510
627-20-3	c-2-Pentene	P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.55						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.62						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.77						162	537
142-29-0	Cyclopentene	15	**14.61**	14.61						162	551
71-23-8	n-Propanol		**14.75**	14.75						162	558
287-92-3	Cyclopentane	P	14.88	14.88						162	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.06						162	570
107-83-5	2-Methylpentane	P	15.08	15.08						162	571
96-14-0	3-Methylpentane	P	15.55	15.55	**15.61**	2167	I	I	H	585	583
592-41-6	1-Hexene	P	**15.80**	15.80						162	590
110-54-3	n-Hexane	P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						101	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						101	626
71-43-2	Benzene		P	17.87	**17.87**	**17.87**		I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.14						101	658
591-76-4	2-Methylhexane		P	18.38	18.38						101	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.45						101	671
589-34-4	3-Methylhexane		P	18.66	18.66						101	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.75						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.80						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.09						101	690
142-82-5	n-Heptane		P	19.41	19.41	**19.41**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.09						21	722
592-13-2	2,5-Dimethylhexane			20.35	20.35						21	734
589-43-5	2,4-Dimethylhexane			20.43	20.43						21	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.93						21	753
108-88-3	Toluene		P	21.12	**21.12**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						21	763
592-27-8	2-Methylheptane		P	21.33	21.33						21	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						21	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						21	772
589-81-1	3-Methylheptane		p	21.55	21.55						21	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						21	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75						-57	855
108-38-3	m,p-xylene		P	23.95	23.95						-57	863
100-42-5	Styrene		P	24.40	24.40						-57	881
95-47-6	o-xylene		P	24.57	24.57						-57	886
124-11-8	1-Nonene	64		24.60	24.60						-57	889
111-84-2	n-Nonane		P	24.87	24.87	**24.87**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36						-141	919
103-65-1	n-propylbenzene		P	25.93	25.93						-141	947
80-56-8	a-Pinene			26.09	26.09						-141	950
620-14-4	3-Ethyltoluene		P	26.17	26.17						-141	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-141	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45						-141	964
611-14-3	2-Ethyltoluene		P	26.61	26.61						-141	975
127-91-3	b-Pinene			26.80	26.80						-141	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08	**27.02**	1026	I	I	H	990	991
124-18-5	n-Decane		P	27.26	27.26	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-48	1014
496-11-7	Indan	81		27.55	27.55						-48	1020
5989-27-5	d-Limonene			27.65	27.65						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10						-48	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-48	1037
104-51-8	n-Butylbenzene			28.45	28.45						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					26629		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					26629		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					26629		0			
TVOC	Total Volatile Organic Compounds					26629		0			
TPH(g)	TPH (gasoline)					26629		0			
TPH(d)	TPH (diesel)					26629		0			
TPH(h)	TPH (hexane)					26629		0			
TPH(t)	TPH (toluene)					26629		0			
TPHC	TPH (methane)					26629		0			
TPH(Jet A)	TPH (Jet A Fuel)					26629		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					26629					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			7122		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			3303		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**10425**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040225-GCK		
Hexane Std Area:	385895		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.19	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.19		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	1.99	1.00	1.15	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	8.79	4.40	5.42	8.79	4.40	5.42	5.42	5.42
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	5.00	1.67	3.01	5.00	1.67	3.01	3.01	3.01
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	3.28	0.55	1.93	3.28	0.55	1.93	1.93	1.93
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,4-Trimethylbenzene	120.2	9	1.55	0.17	0.85	ND	ND	ND	0
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	40.33	6.7	23.7	ND	ND	ND	0	
Total Non-Methane Hydrocarbons	16	1.0	40.33	40.3	26.4	ND	ND	ND	0	
Total Volatile Organic Compounds	100	7.6	40.33	5.3	21.7	ND	ND	ND	0	
TPH (gasoline)	95	7.0	40.33	5.8	22.4	ND	ND	ND	0	
TPH (diesel)	198	15.0	40.33	2.7	21.8	ND	ND	ND	0	
TPH (hexane)	86.2	6.0	40.33	6.7	23.7	ND	ND	ND	0	
TPH (toluene)	92.14	7.0	40.33	5.8	21.8	ND	ND	ND	0	
TPH (methane)	16	1.0	40.33	40.3	26.4	ND	ND	ND	0	
TPH (Jet A Fuel)	177	13.0	40.33	3.1	22.5	ND	ND	ND	0	
TPH (Mineral Spirits)	117.81	8.0	40.33	5.0	24.3	ND	ND	ND	0	
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			19.1	7.8						
Paraffins			13.8							
Isoparaffins			3.3							
Aromatics			1.6							
Napthlenes			0.0							
Olefins			2.0							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	10.79	5.39	6.65	10.79	5.39	6.65	6.65	6.65
C3 (propane)	44.1	3	5.00	1.67	3.01	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			15.8							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			17.1	89.6
Alkenes			2.0	10.4
Alkynes			0.0	0.0
Cycloalkanes			0.0	0.0
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			1.6	8.1
Terpenes			0.0	0.0

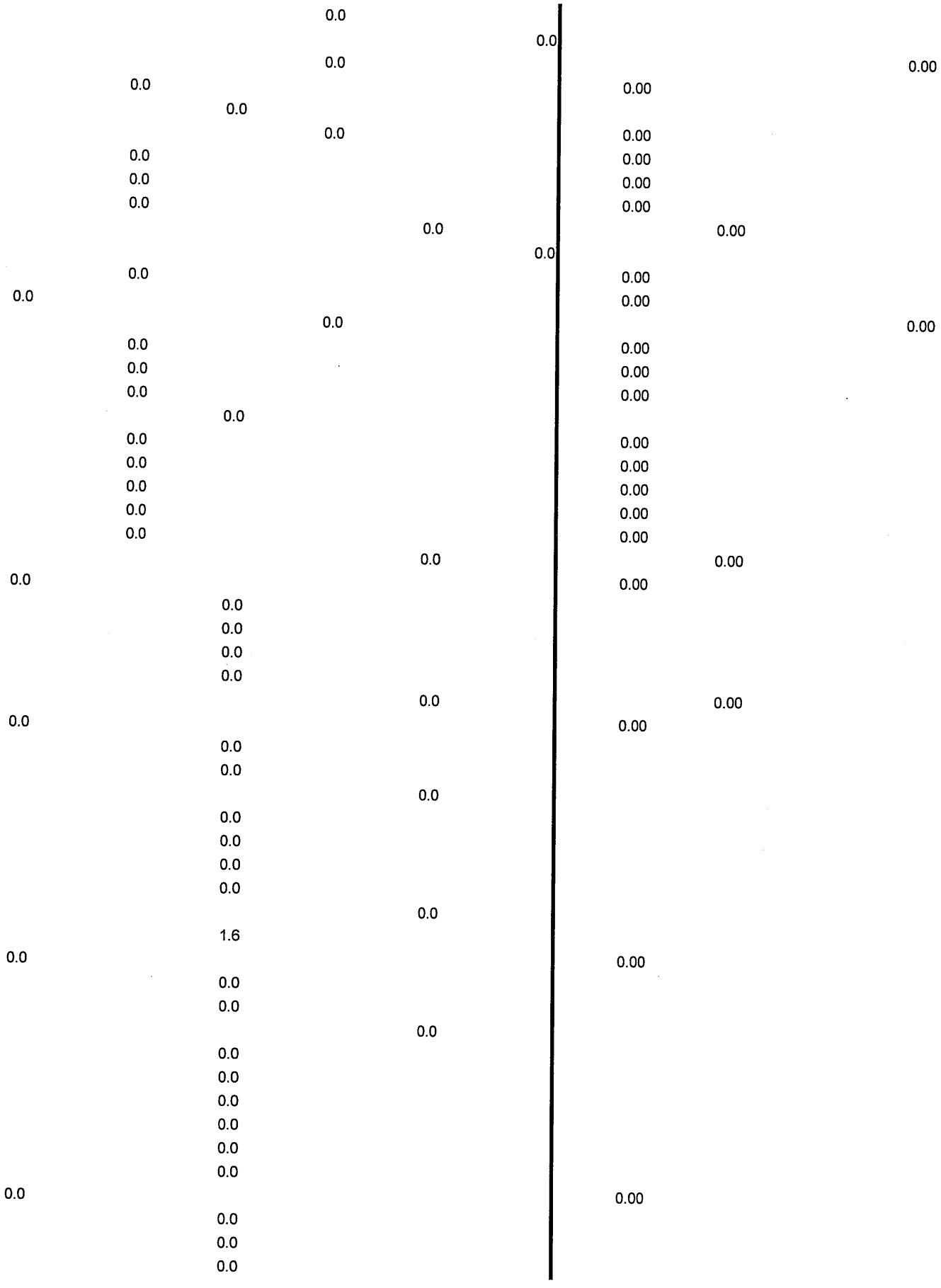
SDG: **225100**
Laboratory Number: **38**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
12.8	2.000	1.00	1.19	1.37	2.38	3.56	4.10	7.1	U	ND		Y
0.0	2.000	1.00	1.19	1.27	2.38	3.56	3.80	7.1	U	ND		Y
56.5	2.000	1.00	1.19	1.47	2.38	3.56	4.40	7.1		=		Y
0.0	2.000	0.67	0.79	1.37	2.38	2.38	4.10	7.1	U	ND		Y
21.4	2.000	0.67	0.79	1.43	2.38	2.38	4.29	7.1	J	=		Y
0.0	2.000	0.50	0.59	1.41	2.38	1.78	4.24	7.1	U	ND		Y
0.0	2.000	2.00	2.38	3.12	2.38	7.13	9.35	7.1	U	ND		Y
0.0	2.000	0.50	0.59	1.37	2.38	1.78	4.10	7.1	U	ND		Y
0.0	2.000	0.50	0.59	1.32	2.38	1.78	3.95	7.1	U	ND		Y
0.0	2.000	0.50	0.59	1.41	2.38	1.78	4.24	7.1	U	ND		Y
0.0	2.000	0.50	0.59	1.37	2.38	1.78	4.10	7.1	U	ND		Y
0.0	2.000	0.50	0.59	1.37	2.38	1.78	4.10	7.1	U	ND		Y
0.0	2.000	1.00	1.19	2.24	2.38	3.56	6.73	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.38	1.43	4.10	7.1	U	ND		Y
0.0	2.000	0.67	0.79	1.89	2.38	2.38	5.66	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.41	2.38	1.43	4.22	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.38	1.43	4.10	7.1	U	ND		Y
0.0	2.000	0.67	0.79	1.95	2.38	2.38	5.85	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.38	1.43	4.10	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.40	2.38	1.43	4.21	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.33	2.38	1.43	3.98	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.38	1.43	4.10	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.38	1.43	4.10	7.1	U	ND		Y
0.0	2.000	0.50	0.59	1.80	2.38	1.78	5.41	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.38	1.43	4.10	7.1	U	ND		Y
0.0	2.000	0.33	0.40	1.40	2.38	1.19	4.20	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.33	2.38	1.43	3.98	7.1	U	ND		Y
0.0	2.000	0.67	0.79	1.95	2.38	2.38	5.85	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.37	2.38	1.43	4.10	7.1	U	ND		Y
0.0	2.000	0.40	0.48	1.72	2.38	1.43	5.15	7.1	U	ND		Y
0.0	2.000	0.33	0.40	1.40	2.38	1.19	4.20	7.1	U	ND		Y
0.0	2.000	0.33	0.40	1.40	2.38	1.19	4.20	7.1	U	ND		Y
7.0	2.000	0.33	0.40	1.40	2.38	1.19	4.20	7.1	J	=		Y
0.0	2.000	0.33	0.40	1.37	2.38	1.19	4.10	7.1	U	ND		Y
0.0	2.000	0.33	0.40	1.40	2.38	1.19	4.20	7.1	U	ND		Y
0.0	2.000	0.33	0.40	1.66	2.38	1.19	4.98	7.1	U	ND		Y

0.0	2.000	0.33	0.40	1.33	2.38	1.19	4.00	7.1	U	ND	Y
0.0	2.000	0.33	0.40	1.66	2.38	1.19	4.98	7.1	U	ND	Y
0.0	2.000	0.33	0.40	1.37	2.38	1.19	4.10	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.39	2.38	1.02	4.18	7.1	U	ND	Y
0.0	2.000	0.33	0.40	1.27	2.38	1.19	3.80	7.1	U	ND	Y
0.0	2.000	0.33	0.40	1.37	2.38	1.19	4.10	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.39	2.38	1.02	4.18	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.39	2.38	1.02	4.18	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.39	2.38	1.02	4.18	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.37	2.38	1.02	4.10	7.1	U	ND	Y
0.0	2.000	0.33	0.40	1.66	2.38	1.19	4.98	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.17	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.39	2.38	1.02	4.18	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.37	2.38	1.02	4.10	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.17	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.17	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.17	7.1	U	ND	Y
0.0	2.000	0.29	0.34	1.28	2.38	1.02	3.84	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.17	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.17	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.17	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.17	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.17	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.37	2.38	0.89	4.10	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.38	0.89	4.17	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.29	2.38	0.89	3.88	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.29	2.38	0.89	3.88	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.27	2.38	0.89	3.81	7.1	U	ND	Y
0.0	2.000	0.25	0.30	1.29	2.38	0.89	3.88	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.37	2.38	0.79	4.10	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.39	2.38	0.79	4.16	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.30	2.38	0.79	3.90	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.30	2.38	0.79	3.90	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.38	0.71	3.98	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.30	2.38	0.79	3.90	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.30	2.38	0.79	3.90	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.30	2.38	0.79	3.90	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.30	2.38	0.79	3.90	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.38	0.71	3.98	7.1	U	ND	Y
2.2	2.000	0.22	0.26	1.30	2.38	0.79	3.90	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.39	2.38	0.71	4.16	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.30	2.38	0.79	3.90	7.1	U	ND	Y
0.0	2.000	0.22	0.26	1.28	2.38	0.79	3.84	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.38	0.71	3.98	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.38	0.71	3.92	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.38	0.71	3.92	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.38	0.71	3.92	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.38	0.71	3.92	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.38	0.71	3.92	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.38	0.71	3.92	7.1	U	ND	Y
0.0	2.000	0.18	0.22	1.38	2.38	0.65	4.15	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.38	0.71	3.92	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.31	2.38	0.71	3.92	7.1	U	ND	Y
0.0	2.000	0.20	0.24	1.25	2.38	0.71	3.75	7.1	U	ND	Y

0.0	2.000	0.17	0.20	1.38	2.38	0.59	4.15	7.1	U	ND	Y
%											Y
100.0	45.00	7.5	8.91	31.48	53.46	26.7	94.4	160.4	U	ND	Y
100.0	45.00	45.0	53.46	35.06	53.46	160.4	105.2	160.4	U	ND	Y
100.0	45.00	5.9	7.03	28.83	53.46	21.1	86.5	160.4	U	ND	Y
100.0	45.00	6.4	7.64	29.74	53.46	22.9	89.2	160.4	U	ND	Y
100.0	45.00	3.0	3.56	28.92	53.46	10.7	86.8	160.4	U	ND	Y
100.0	45.00	7.5	8.91	31.48	53.46	26.7	94.4	160.4	U	ND	Y
100.0	45.00	6.4	7.64	28.84	53.46	22.9	86.5	160.4	U	ND	Y
100.0	45.00	45.0	53.46	35.06	53.46	160.4	105.2	160.4	U	ND	Y
100.0	45.00	3.5	4.11	29.83	53.46	12.3	89.5	160.4	U	ND	Y
100.0	45.00	5.6	6.68	32.27	53.46	20.0	96.8	160.4	U	ND	Y
0.0	45.00	7.5	8.91	31.48	53.46	26.7	94.4	160.4	U	ND	Y
0.0	25.000	3.6	4.24	16.52	29.70	12.7	49.6	89.1	U	ND	Y
%											Y
47.3											Y
72.3											Y
17.2											Y
8.1											Y
0.0											Y
10.4											Y
0.0											Y
%											Y
68.3	5.000	2.5	2.97	3.66	5.94	8.9	11.0	17.8	J	=	Y
31.7	5.000	1.7	1.98	3.58	5.94	5.9	10.7	17.8	U	ND	Y
0.0	25.000	6.3	7.43	17.69	29.70	22.3	53.1	89.1	U	ND	Y
0.0	25.000	5.0	5.94	17.56	29.70	17.8	52.7	89.1	U	ND	Y
0.0	25.000	4.2	4.95	17.49	29.70	14.9	52.5	89.1	U	ND	Y
0.0	25.000	3.6	4.24	17.42	29.70	12.7	52.3	89.1	U	ND	Y
0.0	25.000	3.1	3.71	17.38	29.70	11.1	52.1	89.1	U	ND	Y
0.0	25.000	2.8	3.30	17.35	29.70	9.9	52.0	89.1	U	ND	Y
0.0	25.000	2.5	2.97	17.32	29.70	8.9	52.0	89.1	U	ND	Y
0.0	25.000	2.3	2.70	17.30	29.70	8.1	51.9	89.1	U	ND	Y
0.0	25.000	2.1	2.48	17.27	29.70	7.4	51.8	89.1	U	ND	Y
0.0	25.000	2.1	2.48	17.27	29.70	7.4	51.8	89.1	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.19	3.51	7.13	3.6	10.5	21.4			Y
0.0	6.0	0.9	1.02	4.18	7.13	3.1	12.5	21.4			Y
0.0	6.0	0.7	0.79	4.16	7.13	2.4	12.5	21.4			Y
0.0	6.0	0.5	0.65	3.79	7.13	1.9	11.4	21.4			Y
0.0	6.0	0.7	0.79	3.71	7.13	2.4	11.1	21.4			Y
0.0	6.0	0.5	0.65	3.78	7.13	1.9	11.3	21.4			Y
0.0	2.0	0.3	0.40	1.40	2.38	1.2	4.2	7.1	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					2.0		1.99		
					0.0			0.00	
8.8						8.79			
					0.0		0.00		
5.0						5.00			
		0.0				0.00			
					0.0				
					0.0		0.00		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		0.0				0.00			
					0.0		0.00		
					0.0				
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
					0.0				
			0.0						0.00
					0.0				
		0.0				0.00			
		0.0				0.00			
		3.3				3.28			
					0.0		0.00		
0.0						0.00			
					0.0				


0.0
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0.0						0.00			
13.8	3.3	1.6	0.0	2.0	0.0	17.1	2.0	0.0	0.0

0.00	3.28	
0.00	0.00	
0.00	0.00	
0.00	0.00	
		0.00
		0.00

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
0.00					
0.00					
		0.00			
0.00					
0.00					
0.00					
				0.00	
				0.00	

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0.00
0.00
0.00

0.0	0.0	0.0	0.0	1.6	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**38**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.19	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = Cn

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	Cn ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.14E+04	1315	2.0	1.00	1.15
Acetylene	2	TRG	26.0	2.14E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.14E+04	5807	8.8	4.40	5.42
Propene	3	TRG	4.5	2.14E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.14E+04	3303	5.0	1.67	3.01
i-Butane	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.14E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.14E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.14E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.14E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.14E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.14E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.14E+04	2167	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.14E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.14E+04	0	3.3	0.55	1.93
2,2,4-Trimethylpentane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.14E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.14E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.14E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.14E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.14E+04	1026	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.14E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.14E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.14E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.14E+04	26629	40.3	6.72	23.74	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.14E+04	26629	40.3	40.33	26.44	
Total Volatile Organic Compoun	8	TRG	100.0	2.14E+04	26629	40.3	5.31	21.75	
TPH (gasoline)	7	TRG	95.0	2.14E+04	26629	40.3	5.76	22.43	
TPH (diesel)	15	TRG	198.0	2.14E+04	26629	40.3	2.69	21.82	
TPH (hexane)	6	TRG	86.2	2.14E+04	26629	40.3	6.72	23.74	
TPH (toluene)	7	TRG	92.1	2.14E+04	26629	40.3	5.76	21.76	
TPH (methane)	1	TRG	16.0	2.14E+04	26629	40.3	40.33	26.44	
TPH (Jet A Fuel)	13	TRG	177.0	2.14E+04	26629	40.3	3.10	22.50	
TPH (Mineral Spirits)	8	TRG	117.8	2.14E+04	26629	40.3	5.04	24.34	
C6+ (hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.14E+04		19.1			Sum ID
Paraffins	P	TRG	0.0	2.14E+04		13.8			Sum P
Isoparaffins	I	TRG	0.0	2.14E+04		3.3			Sum I
Aromatics	A	TRG	0.0	2.14E+04		1.6			Sum A
Napthlenes	N	TRG	0.0	2.14E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.14E+04		2.0			Sum O
Oxygenates		TRG	0.0	2.14E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.14E+04	7122	10.8	5.39	6.65	
C3 (propane)	3	TRG	44.1	2.14E+04	3303	5.0	1.67	3.01	
C4 (Butane)	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.14E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.14E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.14E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.14E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.14E+04	10425	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 39

File Name: 2510039A
Description: T-303
Canister: 552
QC_Batch: 040225-GCK

Date Sampled: 03/21/25 **Time:** 8:05
Date Analyzed: 04/02/25 **Time:** 12:14
Can Factor: 1.21
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.21	3.62	1.43	1.39	4.17	1.65	J
74-86-2	Acetylene	1.21	3.62	ND	1.29	3.86	ND	ND
74-84-0	Ethane	1.21	3.62	5.03	1.49	4.46	6.21	
115-07-1	Propene	0.80	2.41	ND	1.39	4.16	ND	ND
74-98-6	Propane	0.80	2.41	1.46	1.45	4.36	2.63	J
75-28-5	i-Butane	0.60	1.81	ND	1.44	4.31	ND	ND
106-98-9	1-Butene	0.60	1.81	ND	1.39	4.16	ND	ND
106-97-8	n-Butane	0.60	1.81	ND	1.44	4.31	ND	ND
624-64-6	t-2-Butene	0.60	1.81	ND	1.39	4.16	ND	ND
590-18-1	c-2-Butene	0.60	1.81	ND	1.39	4.16	ND	ND
78-78-4	i-Pentane	0.48	1.45	ND	1.43	4.28	ND	ND
109-67-1	1-Pentene	0.48	1.45	ND	1.39	4.16	ND	ND
109-66-0	n-Pentane	0.48	1.45	2.24	1.43	4.28	6.63	
646-04-8	t-2-Pentene	0.48	1.45	ND	1.39	4.16	ND	ND
627-20-3	c-2-Pentene	0.48	1.45	ND	1.39	4.16	ND	ND
75-83-2	2,2-Dimethylbutane	0.40	1.21	ND	1.42	4.26	ND	ND
142-29-0	Cyclopentene	0.48	1.45	ND	1.35	4.04	ND	ND
287-92-3	Cyclopentane	0.48	1.45	ND	1.39	4.16	ND	ND
79-29-8	2,3-Dimethylbutane	0.40	1.21	ND	1.42	4.26	ND	ND
107-83-5	2-Methylpentane	0.40	1.21	ND	1.42	4.26	ND	ND
96-14-0	3-Methylpentane	0.40	1.21	0.77	1.42	4.26	2.73	J
592-41-6	1-Hexene	0.40	1.21	ND	1.39	4.16	ND	ND
110-54-3	n-Hexane	0.40	1.21	ND	1.42	4.26	ND	ND
1120-62-3	3-Methylcyclopentene	0.40	1.21	ND	1.35	4.06	ND	ND
96-37-7	Methylcyclopentane	0.40	1.21	ND	1.39	4.16	ND	ND
108-08-7	2,4-Dimethylpentane	0.34	1.03	ND	1.42	4.25	ND	ND
71-43-2	Benzene	0.40	1.21	0.56	1.29	3.86	1.79	J
110-82-7	Cyclohexane	0.40	1.21	ND	1.39	4.16	ND	ND
591-76-4	2-Methylhexane	0.34	1.03	ND	1.42	4.25	ND	ND
565-59-3	2,3-Dimethylpentane	0.34	1.03	ND	1.42	4.25	ND	ND
589-34-4	3-Methylhexane	0.34	1.03	ND	1.42	4.25	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.90	ND	1.41	4.23	ND	ND
142-82-5	n-Heptane	0.34	1.03	ND	1.42	4.25	ND	ND
108-87-2	Methylcyclohexane	0.34	1.03	ND	1.39	4.16	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.90	ND	1.41	4.23	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.90	ND	1.41	4.23	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.90	ND	1.41	4.23	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.34	1.03	ND	1.30	3.90	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.90	ND	1.41	4.23	ND	ND
592-27-8	2-Methylheptane	0.30	0.90	ND	1.41	4.23	ND	ND
589-53-7	4-Methylheptane	0.30	0.90	ND	1.41	4.23	ND	ND
589-81-1	3-Methylheptane	0.30	0.90	ND	1.41	4.23	ND	ND
111-65-9	n-Octane	0.30	0.90	ND	1.41	4.23	ND	ND
100-41-4	Ethylbenzene	0.30	0.90	ND	1.31	3.94	ND	ND
108-38-3	m,p-xylene	0.30	0.90	ND	1.31	3.94	ND	ND
100-42-5	Styrene	0.30	0.90	ND	1.29	3.86	ND	ND
95-47-6	o-xylene	0.30	0.90	ND	1.31	3.94	ND	ND
111-84-2	n-Nonane	0.27	0.80	ND	1.41	4.23	ND	ND
98-82-8	i-Propylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
103-65-1	n-propylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.80	ND	1.32	3.96	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.80	ND	1.32	3.96	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.80	ND	1.32	3.96	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
124-18-5	n-Decane	0.24	0.72	ND	1.41	4.22	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.72	ND	1.33	3.98	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.72	ND	1.33	3.98	ND	ND
104-51-8	n-Butylbenzene	0.24	0.72	ND	1.33	3.98	ND	ND
1120-21-4	Undecane	0.22	0.66	ND	1.40	4.21	ND	ND
91-20-3	Naphthalene	0.24	0.72	ND	1.27	3.80	ND	ND
112-40-3	Dodecane	0.20	0.60	ND	1.40	4.21	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.05	27.14	11.85	31.96	95.89	41.85	J
TNMHC - C1	Total Non-Methane Hydrocarbons	54.28	162.85	71.07	35.60	106.79	46.61	J

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **39**
File Name: **2510039A**
Sample ID: **T-303**
Sampled: **3/21/2025**
Received: **03/21/25**
Analyzed: **04/02/25**
QCBatch: **040225-GCK**
Can: **552**
Can Factor: **1.21**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **8:05** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **12:14** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **385895**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C5 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.09	**4.07**	1865	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.13			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.20**	6542	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11						-204	290
74-98-6	Propane	P	5.20	**5.20**	**5.24**	2841	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.64**						131	351
67-56-1	Methanol		8.30	8.34						131	401
106-98-9	1-Butene	P	7.29	7.33						131	367
106-99-0	1,3-Butadiene		**7.48**	7.52						131	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75	**8.67**		I	I	H	408	410
590-18-1	c-2-Butene	P	9.63	9.63						201	431
64-17-5	Ethanol		10.85	10.90						201	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.10						201	465
67-64-1	Acetone		11.52	11.57						201	476
78-78-4	i-Pentane	P	11.37	11.42						201	473
109-67-1	1-Pentene	P	12.30	12.35						201	495
67-63-0	Isopropanol		12.65	12.70						201	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.41						201	497
109-66-0	n-Pentane	P	12.48	**12.53**	**12.53**	7291	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.60						156	503
646-04-8	t-2-Pentene	P	12.79	12.84						156	510
627-20-3	c-2-Pentene	P	13.08	13.13						156	518
75-65-0	Tert butyl alcohol		**13.55**	13.60						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.67						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.82						156	537
142-29-0	Cyclopentene	15	**14.61**	14.66						156	551
71-23-8	n-Propanol		**14.75**	14.80						156	558
287-92-3	Cyclopentane	P	14.88	14.93						156	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.05						156	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.11						156	570
107-83-5	2-Methylpentane	P	15.08	15.13						156	571
96-14-0	3-Methylpentane	P	15.55	15.60	**15.63**	3020	I	I	H	585	583
592-41-6	1-Hexene	P	**15.80**	15.85						156	590
110-54-3	n-Hexane	P	16.17	**16.22**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						101	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						101	626
71-43-2	Benzene		P	17.87	**17.87**	**17.93**	2177	I	O	M	654	651
110-82-7	Cyclohexane		P	18.14	18.20						101	658
591-76-4	2-Methylhexane		P	18.38	18.44						101	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.51						101	671
589-34-4	3-Methylhexane		P	18.66	18.72						101	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.81						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.86						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.15						101	690
142-82-5	n-Heptane		P	19.41	19.47	**19.41**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.15						21	722
592-13-2	2,5-Dimethylhexane			20.35	20.41						21	734
589-43-5	2,4-Dimethylhexane			20.43	20.49						21	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.99						21	753
108-88-3	Toluene		P	21.12	**21.18**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						21	763
592-27-8	2-Methylheptane		P	21.33	21.33						21	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						21	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						21	772
589-81-1	3-Methylheptane		p	21.55	21.55						21	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						21	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75						-57	855
108-38-3	m,p-xylene		P	23.95	23.95						-57	863
100-42-5	Styrene		P	24.40	24.40						-57	881
95-47-6	o-xylene		P	24.57	24.57						-57	886
124-11-8	1-Nonene	64		24.60	24.60						-57	889
111-84-2	n-Nonane		P	24.87	24.87	**24.87**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36						-141	919
103-65-1	n-propylbenzene		P	25.93	25.93						-141	947
80-56-8	a-Pinene			26.09	26.09						-141	950
620-14-4	3-Ethyltoluene		P	26.17	26.17						-141	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-141	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45						-141	964
611-14-3	2-Ethyltoluene		P	26.61	26.61						-141	975
127-91-3	b-Pinene			26.80	26.80						-141	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08	**27.01**	1157	I	I	H	990	991
124-18-5	n-Decane		P	27.26	27.26	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-48	1014
496-11-7	Indan	81		27.55	27.55						-48	1020
5989-27-5	d-Limonene			27.65	27.65						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10						-48	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-48	1037
104-51-8	n-Butylbenzene			28.45	28.45						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					46219		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					46219		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					46219		0			
TVOC	Total Volatile Organic Compounds					46219		0			
TPH(g)	TPH (gasoline)					46219		0			
TPH(d)	TPH (diesel)					46219		0			
TPH(h)	TPH (hexane)					46219		0			
TPH(t)	TPH (toluene)					46219		0			
TPHC	TPH (methane)					46219		0			
TPH(Jet A)	TPH (Jet A Fuel)					46219		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					46219					
C6+	**C6+ (hexane)**		16.17	16.22	16.17	**0**		Sum from	16.22	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			8407		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			2841		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**11248**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040225-GCK		
Hexane Std Area:	385895		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.21	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.21		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	2.87	1.43	1.65	2.87	1.43	1.65	1.65	1.65
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	10.06	5.03	6.21	10.06	5.03	6.21	6.21	6.21
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	4.37	1.46	2.63	4.37	1.46	2.63	2.63	2.63
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	11.21	2.24	6.63	11.21	2.24	6.63	6.63	6.63
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	4.64	0.77	2.73	4.64	0.77	2.73	2.73	2.73
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	3.35	0.56	1.79	3.35	0.56	1.79	1.79	1.79
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	1.78	0.20	0.97	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	71.07	11.8	41.8	71.07	11.85	41.85	41.85	41.85
Total Non-Methane Hydrocarbons	16	1.0	71.07	71.1	46.6	71.07	71.07	46.61	46.61	46.61
Total Volatile Organic Compounds	100	7.6	71.07	9.4	38.3	71.07	9.35	38.33	38.33	38.33
TPH (gasoline)	95	7.0	71.07	10.2	39.5	71.07	10.15	39.53	39.53	39.53
TPH (diesel)	198	15.0	71.07	4.7	38.5	71.07	4.74	38.45	38.45	38.45
TPH (hexane)	86.2	6.0	71.07	11.8	41.8	71.07	11.85	41.85	41.85	41.85
TPH (toluene)	92.14	7.0	71.07	10.2	38.3	71.07	10.15	38.34	38.34	38.34
TPH (methane)	16	1.0	71.07	71.1	46.6	71.07	71.07	46.61	46.61	46.61
TPH (Jet A Fuel)	177	13.0	71.07	5.5	39.7	71.07	5.47	39.66	39.66	39.66
TPH (Mineral Spirits)	117.81	8.0	71.07	8.9	42.9	71.07	8.88	42.90	42.90	42.90
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			36.5	11.7						
Paraffins			25.6							
Isoparaffins			4.6							
Aromatics			5.1							
Napthlenes			0.0							
Olefins			2.9							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	12.93	6.46	7.97	12.93	6.46	7.97	7.97	7.97
C3 (propane)	44.1	3	4.37	1.46	2.63	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			17.3							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	11.2	1.87	5.53					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			30.3	83.0
Alkenes			2.9	7.9
Alkynes			0.0	0.0
Cycloalkanes			0.0	0.0
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			5.1	14.0
Terpenes			0.0	0.0

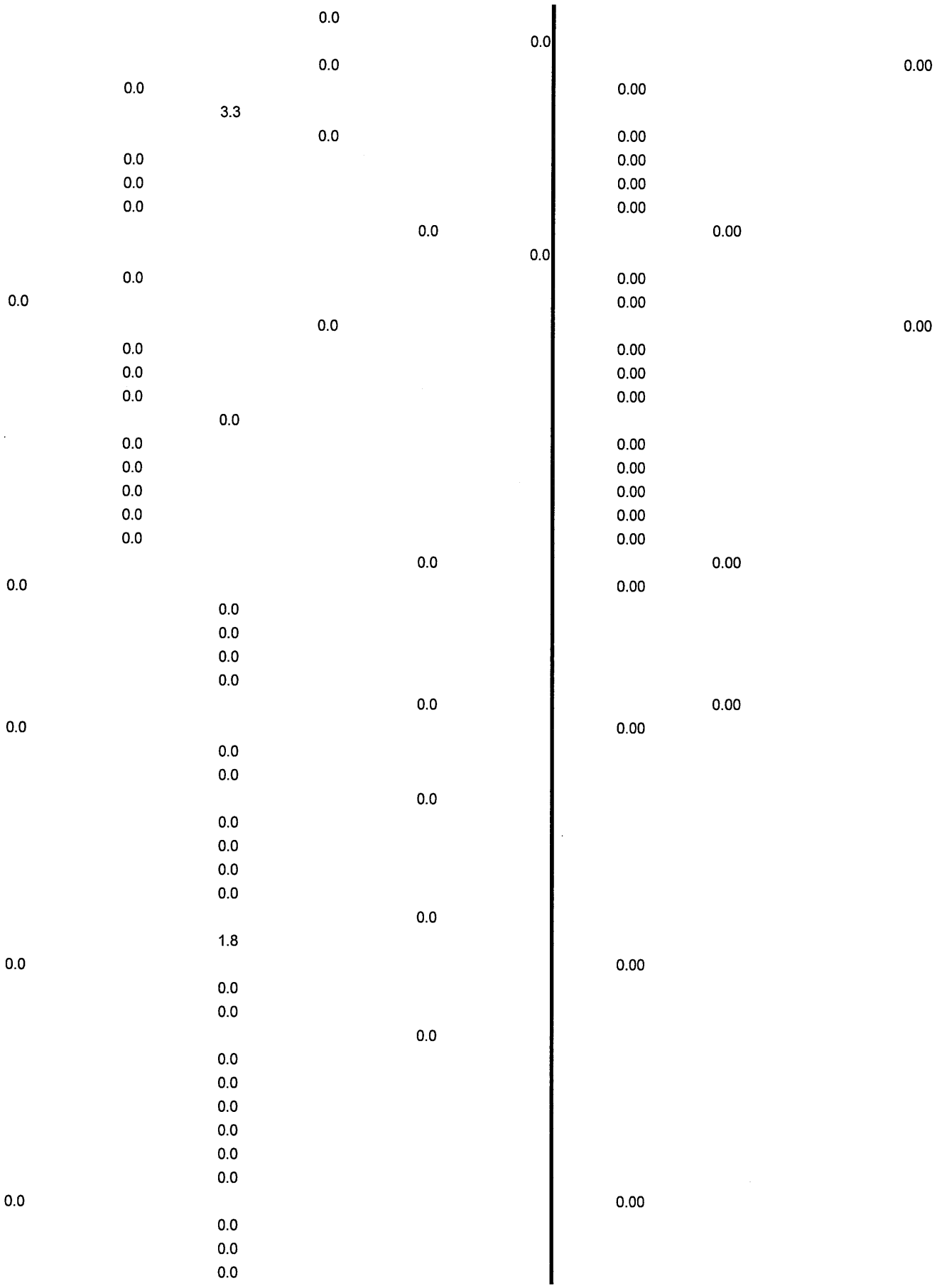
SDG: **225100**
Laboratory Number: **39**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
12.3	2.000	1.00	1.21	1.39	2.41	3.62	4.17	7.2	J	=		Y
0.0	2.000	1.00	1.21	1.29	2.41	3.62	3.86	7.2	U	ND		Y
43.0	2.000	1.00	1.21	1.49	2.41	3.62	4.46	7.2		=		Y
0.0	2.000	0.67	0.80	1.39	2.41	2.41	4.16	7.2	U	ND		Y
12.5	2.000	0.67	0.80	1.45	2.41	2.41	4.36	7.2	J	=		Y
0.0	2.000	0.50	0.60	1.44	2.41	1.81	4.31	7.2	U	ND		Y
0.0	2.000	2.00	2.41	3.16	2.41	7.24	9.49	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.39	2.41	1.81	4.16	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.34	2.41	1.81	4.01	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.44	2.41	1.81	4.31	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.39	2.41	1.81	4.16	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.39	2.41	1.81	4.16	7.2	U	ND		Y
0.0	2.000	1.00	1.21	2.28	2.41	3.62	6.84	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.41	1.45	4.16	7.2	U	ND		Y
0.0	2.000	0.67	0.80	1.91	2.41	2.41	5.74	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.43	2.41	1.45	4.28	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.41	1.45	4.16	7.2	U	ND		Y
0.0	2.000	0.67	0.80	1.98	2.41	2.41	5.94	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.41	1.45	4.16	7.2	U	ND		Y
19.2	2.000	0.40	0.48	1.43	2.41	1.45	4.28	7.2		=		Y
0.0	2.000	0.40	0.48	1.35	2.41	1.45	4.04	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.41	1.45	4.16	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.41	1.45	4.16	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.83	2.41	1.81	5.50	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.41	1.45	4.16	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.42	2.41	1.21	4.26	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.35	2.41	1.45	4.04	7.2	U	ND		Y
0.0	2.000	0.67	0.80	1.98	2.41	2.41	5.94	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.41	1.45	4.16	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.74	2.41	1.45	5.23	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.42	2.41	1.21	4.26	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.42	2.41	1.21	4.26	7.2	U	ND		Y
6.6	2.000	0.33	0.40	1.42	2.41	1.21	4.26	7.2	J	=		Y
0.0	2.000	0.33	0.40	1.39	2.41	1.21	4.16	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.42	2.41	1.21	4.26	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.68	2.41	1.21	5.05	7.2	U	ND		Y

0.0	2.000	0.33	0.40	1.35	2.41	1.21	4.06	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.68	2.41	1.21	5.05	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.39	2.41	1.21	4.16	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.42	2.41	1.03	4.25	7.2	U	ND	Y
4.8	2.000	0.33	0.40	1.29	2.41	1.21	3.86	7.2	J	=	Y
0.0	2.000	0.33	0.40	1.39	2.41	1.21	4.16	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.42	2.41	1.03	4.25	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.42	2.41	1.03	4.25	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.42	2.41	1.03	4.25	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.39	2.41	1.03	4.16	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.68	2.41	1.21	5.05	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.42	2.41	1.03	4.25	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.39	2.41	1.03	4.16	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.30	2.41	1.03	3.90	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.41	0.90	4.16	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.31	2.41	0.90	3.94	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.31	2.41	0.90	3.94	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.29	2.41	0.90	3.86	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.31	2.41	0.90	3.94	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.39	2.41	0.80	4.16	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.41	2.41	0.80	4.23	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.35	2.41	0.72	4.04	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.35	2.41	0.72	4.04	7.2	U	ND	Y
1.7	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.41	2.41	0.72	4.22	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.30	2.41	0.80	3.90	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.35	2.41	0.72	4.04	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.18	0.22	1.40	2.41	0.66	4.21	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.27	2.41	0.72	3.80	7.2	U	ND	Y

0.0	2.000	0.17	0.20	1.40	2.41	0.60	4.21	7.2	U	ND	Y
%											Y
100.0	45.00	7.5	9.05	31.96	54.28	27.1	95.9	162.9	J	=	Y
100.0	45.00	45.0	54.28	35.60	54.28	162.9	106.8	162.9	J	=	Y
100.0	45.00	5.9	7.14	29.27	54.28	21.4	87.8	162.9	J	=	Y
100.0	45.00	6.4	7.75	30.19	54.28	23.3	90.6	162.9	J	=	Y
100.0	45.00	3.0	3.62	29.37	54.28	10.9	88.1	162.9	J	=	Y
100.0	45.00	7.5	9.05	31.96	54.28	27.1	95.9	162.9	J	=	Y
100.0	45.00	6.4	7.75	29.28	54.28	23.3	87.9	162.9	J	=	Y
100.0	45.00	45.0	54.28	35.60	54.28	162.9	106.8	162.9	J	=	Y
100.0	45.00	3.5	4.18	30.29	54.28	12.5	90.9	162.9	J	=	Y
100.0	45.00	5.6	6.79	32.76	54.28	20.4	98.3	162.9	J	=	Y
0.0	45.00	7.5	9.05	31.96	54.28	27.1	95.9	162.9	U	ND	Y
0.0	25.000	3.6	4.31	16.77	30.16	12.9	50.3	90.5	U	ND	Y
%											Y
51.4											Y
70.2											Y
12.7											Y
14.0											Y
0.0											Y
7.9											Y
0.0											Y
%											Y
74.7	5.000	2.5	3.02	3.72	6.03	9.0	11.2	18.1	J	=	Y
25.3	5.000	1.7	2.01	3.63	6.03	6.0	10.9	18.1	U	ND	Y
0.0	25.000	6.3	7.54	17.96	30.16	22.6	53.9	90.5	U	ND	Y
0.0	25.000	5.0	6.03	17.84	30.16	18.1	53.5	90.5	U	ND	Y
0.0	25.000	4.2	5.03	17.76	30.16	15.1	53.3	90.5	U	ND	Y
0.0	25.000	3.6	4.31	17.69	30.16	12.9	53.1	90.5	U	ND	Y
0.0	25.000	3.1	3.77	17.64	30.16	11.3	52.9	90.5	U	ND	Y
0.0	25.000	2.8	3.35	17.61	30.16	10.1	52.8	90.5	U	ND	Y
0.0	25.000	2.5	3.02	17.59	30.16	9.0	52.8	90.5	U	ND	Y
0.0	25.000	2.3	2.74	17.56	30.16	8.2	52.7	90.5	U	ND	Y
0.0	25.000	2.1	2.51	17.54	30.16	7.5	52.6	90.5	U	ND	Y
0.0	25.000	2.1	2.51	17.54	30.16	7.5	52.6	90.5	U	ND	Y
100.0											Y
											Y
15.8	6.0	1.0	1.21	3.57	7.24	3.6	10.7	21.7			Y
0.0	6.0	0.9	1.03	4.25	7.24	3.1	12.7	21.7			Y
0.0	6.0	0.7	0.80	4.23	7.24	2.4	12.7	21.7			Y
0.0	6.0	0.5	0.66	3.85	7.24	2.0	11.6	21.7			Y
0.0	6.0	0.7	0.80	3.76	7.24	2.4	11.3	21.7			Y
0.0	6.0	0.5	0.66	3.84	7.24	2.0	11.5	21.7			Y
0.0	2.0	0.3	0.40	1.42	2.41	1.2	4.3	7.2	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					2.9		2.87		
					0.0			0.00	
10.1						10.06			
					0.0		0.00		
4.4						4.37			
		0.0				0.00			
					0.0				
					0.0		0.00		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		0.0				0.00			
					0.0		0.00		
					0.0				
					0.0		0.00		
11.2						11.21			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
					0.0				
			0.0						0.00
					0.0				
		0.0				0.00			
		0.0				0.00			
		4.6				4.64			
					0.0		0.00		
0.0						0.00			
					0.0				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3.3
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0.0						0.00			
25.6	4.6	5.1	0.0	2.9	0.0	30.3	2.9	0.0	0.0

11.21	4.64	
0.00	0.00	
0.00	0.00	
0.00	0.00	
		0.00
		0.00

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
	0.00				
	0.00				
	0.00				
				0.00	
				0.00	

0.00

0.00

3.35

0.00

0.00

0.00
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0.00

0.00
0.00
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0.00

0.00

1.78

0.00
0.00

0.00

0.00
0.00
0.00
0.00
0.00
0.00

0.00
0.00
0.00

0.0	0.0	0.0	0.0	5.1	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**39**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.21	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum $\left|\frac{(Astdni)}{(Cstdni)}\right|_i$

2) ppbC = $\frac{6 \text{ Carbons} \quad \text{Ansamp} \quad \text{CDF} \quad 1000}{(\text{Avg RFn}) \quad \text{SV}}$ = **Cn**

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = $\frac{(\text{amt(ppbv)} \quad \text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.14E+04	1865	2.9	1.43	1.65
Acetylene	2	TRG	26.0	2.14E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.14E+04	6542	10.1	5.03	6.21
Propene	3	TRG	4.5	2.14E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.14E+04	2841	4.4	1.46	2.63
i-Butane	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.14E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.14E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.14E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.14E+04	7291	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.14E+04	0	11.2	2.24	6.63
2,2-Dimethylbutane	5	TRG	68.1	2.14E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.14E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.14E+04	3020	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.14E+04	2177	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.14E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.14E+04	0	4.6	0.77	2.73
2,2,4-Trimethylpentane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.14E+04	0	3.3	0.56	1.79	
2-Methylheptane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.14E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.14E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.14E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.14E+04	1157	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.14E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.14E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.14E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.14E+04	46219	71.1	11.85	41.85	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.14E+04	46219	71.1	71.07	46.61	
Total Volatile Organic Compoun	8	TRG	100.0	2.14E+04	46219	71.1	9.35	38.33	
TPH (gasoline)	7	TRG	95.0	2.14E+04	46219	71.1	10.15	39.53	
TPH (diesel)	15	TRG	198.0	2.14E+04	46219	71.1	4.74	38.45	
TPH (hexane)	6	TRG	86.2	2.14E+04	46219	71.1	11.85	41.85	
TPH (toluene)	7	TRG	92.1	2.14E+04	46219	71.1	10.15	38.34	
TPH (methane)	1	TRG	16.0	2.14E+04	46219	71.1	71.07	46.61	
TPH (Jet A Fuel)	13	TRG	177.0	2.14E+04	46219	71.1	5.47	39.66	
TPH (Mineral Spirits)	8	TRG	117.8	2.14E+04	46219	71.1	8.88	42.90	
C6+ (hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.14E+04		36.5			Sum ID
Paraffins	P	TRG	0.0	2.14E+04		25.6			Sum P
Isoparaffins	I	TRG	0.0	2.14E+04		4.6			Sum I
Aromatics	A	TRG	0.0	2.14E+04		5.1			Sum A
Napthlenes	N	TRG	0.0	2.14E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.14E+04		2.9			Sum O
Oxygenates		TRG	0.0	2.14E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.14E+04	8407	12.9	6.46	7.97	
C3 (propane)	3	TRG	44.1	2.14E+04	2841	4.4	1.46	2.63	
C4 (Butane)	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.14E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.14E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.14E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.14E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.14E+04	11248	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 40

File Name: 2510040A
Description: T-304
Canister: 529
QC_Batch: 040325-GCK

Date Sampled: 03/21/25 **Time:** 7:58
Date Analyzed: 04/03/25 **Time:** 13:49
Can Factor: 1.21
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.21	3.62	6.37	1.39	4.17	7.33	
74-86-2	Acetylene	1.21	3.62	ND	1.29	3.86	ND	ND
74-84-0	Ethane	1.21	3.62	9.23	1.49	4.46	11.39	
115-07-1	Propene	0.80	2.41	15.27	1.39	4.16	26.35	
74-98-6	Propane	0.80	2.41	10.37	1.45	4.36	18.75	
75-28-5	i-Butane	0.60	1.81	ND	1.44	4.31	ND	ND
106-98-9	1-Butene	0.60	1.81	ND	1.39	4.16	ND	ND
106-97-8	n-Butane	0.60	1.81	4.53	1.44	4.31	10.78	
624-64-6	t-2-Butene	0.60	1.81	ND	1.39	4.16	ND	ND
590-18-1	c-2-Butene	0.60	1.81	ND	1.39	4.16	ND	ND
78-78-4	i-Pentane	0.48	1.45	1.95	1.43	4.28	5.77	
109-67-1	1-Pentene	0.48	1.45	ND	1.39	4.16	ND	ND
109-66-0	n-Pentane	0.48	1.45	1.39	1.43	4.28	4.12	J
646-04-8	t-2-Pentene	0.48	1.45	ND	1.39	4.16	ND	ND
627-20-3	c-2-Pentene	0.48	1.45	ND	1.39	4.16	ND	ND
75-83-2	2,2-Dimethylbutane	0.40	1.21	ND	1.42	4.26	ND	ND
142-29-0	Cyclopentene	0.48	1.45	ND	1.35	4.04	ND	ND
287-92-3	Cyclopentane	0.48	1.45	ND	1.39	4.16	ND	ND
79-29-8	2,3-Dimethylbutane	0.40	1.21	ND	1.42	4.26	ND	ND
107-83-5	2-Methylpentane	0.40	1.21	ND	1.42	4.26	ND	ND
96-14-0	3-Methylpentane	0.40	1.21	ND	1.42	4.26	ND	ND
592-41-6	1-Hexene	0.40	1.21	ND	1.39	4.16	ND	ND
110-54-3	n-Hexane	0.40	1.21	ND	1.42	4.26	ND	ND
1120-62-3	3-Methylcyclopentene	0.40	1.21	ND	1.35	4.06	ND	ND
96-37-7	Methylcyclopentane	0.40	1.21	ND	1.39	4.16	ND	ND
108-08-7	2,4-Dimethylpentane	0.34	1.03	ND	1.42	4.25	ND	ND
71-43-2	Benzene	0.40	1.21	0.69	1.29	3.86	2.21	J
110-82-7	Cyclohexane	0.40	1.21	0.59	1.39	4.16	2.03	J
591-76-4	2-Methylhexane	0.34	1.03	0.35	1.42	4.25	1.46	J
565-59-3	2,3-Dimethylpentane	0.34	1.03	ND	1.42	4.25	ND	ND
589-34-4	3-Methylhexane	0.34	1.03	0.65	1.42	4.25	2.68	J
540-84-1	2,2,4-Trimethylpentane	0.30	0.90	0.34	1.41	4.23	1.61	J
142-82-5	n-Heptane	0.34	1.03	ND	1.42	4.25	ND	ND
108-87-2	Methylcyclohexane	0.34	1.03	0.80	1.39	4.16	3.20	J
592-13-2	2,5-Dimethylhexane	0.30	0.90	ND	1.41	4.23	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.90	ND	1.41	4.23	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.90	0.42	1.41	4.23	1.98	J

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.34	1.03	0.61	1.30	3.90	2.30	J
584-94-1	2,3-Dimethylhexane	0.30	0.90	ND	1.41	4.23	ND	ND
592-27-8	2-Methylheptane	0.30	0.90	ND	1.41	4.23	ND	ND
589-53-7	4-Methylheptane	0.30	0.90	ND	1.41	4.23	ND	ND
589-81-1	3-Methylheptane	0.30	0.90	ND	1.41	4.23	ND	ND
111-65-9	n-Octane	0.30	0.90	0.35	1.41	4.23	1.62	J
100-41-4	Ethylbenzene	0.30	0.90	ND	1.31	3.94	ND	ND
108-38-3	m,p-xylene	0.30	0.90	ND	1.31	3.94	ND	ND
100-42-5	Styrene	0.30	0.90	0.77	1.29	3.86	3.27	J
95-47-6	o-xylene	0.30	0.90	0.43	1.31	3.94	1.89	J
111-84-2	n-Nonane	0.27	0.80	ND	1.41	4.23	ND	ND
98-82-8	i-Propylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
103-65-1	n-propylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.80	ND	1.32	3.96	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.80	ND	1.32	3.96	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.80	ND	1.32	3.96	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
124-18-5	n-Decane	0.24	0.72	ND	1.41	4.22	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.80	ND	1.32	3.96	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.72	ND	1.33	3.98	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.72	ND	1.33	3.98	ND	ND
104-51-8	n-Butylbenzene	0.24	0.72	ND	1.33	3.98	ND	ND
1120-21-4	Undecane	0.22	0.66	ND	1.40	4.21	ND	ND
91-20-3	Naphthalene	0.24	0.72	ND	1.27	3.80	ND	ND
112-40-3	Dodecane	0.20	0.60	ND	1.40	4.21	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.05	27.14	81.53	31.96	95.89	288.04	
TNMHC - C1	Total Non-Methane Hydrocarbons	54.28	162.85	489.21	35.60	106.79	320.79	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **40**
File Name: **2510040A**
Sample ID: **T-304**
Sampled: **3/21/2025**
Received: **03/21/25**
Analyzed: **04/03/25**
QCBatch: **040325-GCK**
Can: **529**
Can Factor: **1.21**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **7:58** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **13:49** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **402031**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C4 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.02	**4.01**	8281	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.06			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.13**	12006	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11		29788				-195	290
74-98-6	Propane	P	5.20	**5.20**	**5.18**	20238	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.58**						139	351
67-56-1	Methanol		8.30	8.28						139	401
106-98-9	1-Butene	P	7.29	7.27	**7.25**	1181	I	I	H	364	367
106-99-0	1,3-Butadiene		**7.48**	7.46						139	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.39**	11771	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.80	**8.73**		I	I	H	408	410
590-18-1	c-2-Butene	P	9.63	9.68	**9.62**		I	I	H	430	431
64-17-5	Ethanol		10.85	10.87						196	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.07						196	465
67-64-1	Acetone		11.52	11.54						196	476
78-78-4	i-Pentane	P	11.37	11.39	**11.43**	6336	I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.32	**12.35**		I	I	H	496	495
67-63-0	Isopropanol		12.65	12.67						196	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.38						196	497
109-66-0	n-Pentane	P	12.48	**12.50**	**12.50**	4533	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.57						160	503
646-04-8	t-2-Pentene	P	12.79	12.81						160	510
627-20-3	c-2-Pentene	P	13.08	13.10						160	518
75-65-0	Tert butyl alcohol		**13.55**	13.57						279	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.64						279	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.79	**13.80**	1194	I	I	H	535	537
142-29-0	Cyclopentene	15	**14.61**	14.63						160	551
71-23-8	n-Propanol		**14.75**	14.77						160	558
287-92-3	Cyclopentane	P	14.88	14.90	**14.91**		I	I	H	566	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.02						160	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.08						160	570
107-83-5	2-Methylpentane	P	15.08	15.10	**15.09**	834	I	I	H	571	571
96-14-0	3-Methylpentane	P	15.55	15.57	**15.47**		I	I	H	581	583
592-41-6	1-Hexene	P	**15.80**	15.82						160	590
110-54-3	n-Hexane	P	16.17	**16.19**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						261	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						101	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						101	626
71-43-2	Benzene		P	17.87	**17.87**	**17.89**	2691	I	I	H	653	651
110-82-7	Cyclohexane		P	18.14	18.16	**18.14**	2297	I	I	H	661	658
591-76-4	2-Methylhexane		P	18.38	18.40	**18.39**	1614	I	I	H	669	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.47	**18.45**	1160	I	I	H	670	671
589-34-4	3-Methylhexane		P	18.66	18.68	**18.67**	2968	I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.77						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.82						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.11	**19.09**	1792	I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.43	**19.41**	1524	I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.11	**20.10**	3621	I	I	H	724	722
592-13-2	2,5-Dimethylhexane			20.35	20.37						35	734
589-43-5	2,4-Dimethylhexane			20.43	20.45						35	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.95	**20.94**	2200	I	I	H	752	753
108-88-3	Toluene		P	21.12	**21.14**	**21.10**	2768	I	I	H	758	758
584-94-1	2,3-Dimethylhexane			21.20	21.18	**21.22**		I	I	H	762	763
592-27-8	2-Methylheptane		P	21.33	21.31						35	768
589-53-7	4-Methylheptane	48		**21.48**	21.46						35	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.48						35	772
589-81-1	3-Methylheptane		p	21.55	21.53						35	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.08						35	786
111-65-9	n-Octane		P	22.27	22.25	**22.33**	1804	I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.73						-86	855
108-38-3	m,p-xylene		P	23.95	23.93	**23.91**	1387	I	I	H	863	863
100-42-5	Styrene		P	24.40	24.38	**24.47**	3988	I	O	M	885	881
95-47-6	o-xylene		P	24.57	24.55	**24.57**	2260	I	I	H	889	886
124-11-8	1-Nonene	64		24.60	24.58						-86	889
111-84-2	n-Nonane		P	24.87	24.85	**24.85**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.34						-140	919
103-65-1	n-propylbenzene		P	25.93	25.91						-140	947
80-56-8	a-Pinene			26.09	26.07						-140	950
620-14-4	3-Ethyltoluene		P	26.17	26.15						-140	957
622-96-8	4-Ethyltoluene		P	26.26	26.24						-140	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.43						-140	964
611-14-3	2-Ethyltoluene		P	26.61	26.59						-140	975
127-91-3	b-Pinene			26.80	26.78						-140	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.06	**27.01**		I	I	H	990	991
124-18-5	n-Decane		P	27.26	27.24	**27.24**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.53	**27.49**		I	O	M	1010	1014
496-11-7	Indan	81		27.55	27.53						-40	1020
5989-27-5	d-Limonene			27.65	27.63						-40	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.08						-40	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.21						-40	1037
104-51-8	n-Butylbenzene			28.45	28.43						-40	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.58						-40	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.73						-40	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.81						-40	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.43						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.48						-48	1124
91-20-3	Naphthalene		32.25	32.23						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					422777		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					318125		104652			
TNMHC - C1	Total Non-Methane Hydrocarbons					318125		0			
TVOC	Total Volatile Organic Compounds					318125		0			
TPH(g)	TPH (gasoline)					318125		0			
TPH(d)	TPH (diesel)					318125		0			
TPH(h)	TPH (hexane)					318125		0			
TPH(t)	TPH (toluene)					318125		0			
TPHC	TPH (methane)					318125		0			
TPH(Jet A)	TPH (Jet A Fuel)					318125		**104652**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					318125					
C6+	**C6+ (hexane)**		16.17	16.19	16.17	**0**		Sum from	16.19	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			20287		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			50026		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**70313**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040325-GCK		
Hexane Std Area:	402031		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.21	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.21		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	12.73	6.37	7.33	12.73	6.37	7.33	7.33	7.33
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	18.46	9.23	11.39	18.46	9.23	11.39	11.39	11.39
Propene	42.1	3	45.81	15.27	26.35	45.81	15.27	26.35	26.35	26.35
Propane	44.1	3	31.12	10.37	18.75	31.12	10.37	18.75	18.75	18.75
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	1.82	0.45	1.04	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	18.10	4.53	10.78	18.10	4.53	10.78	10.78	10.78
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	9.74	1.95	5.77	9.74	1.95	5.77	5.77	5.77
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	6.97	1.39	4.12	6.97	1.39	4.12	4.12	4.12
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	1.84	0.31	1.08	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	1.28	0.21	0.76	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	4.14	0.69	2.21	4.14	0.69	2.21	2.21	2.21
Cyclohexane	84.2	6	3.53	0.59	2.03	3.53	0.59	2.03	2.03	2.03
2-Methylhexane	100.2	7	2.48	0.35	1.46	2.48	0.35	1.46	1.46	1.46
2,3-Dimethylpentane	100.2	7	1.78	0.25	1.05	ND	ND	ND	0	
3-Methylhexane	100.2	7	4.56	0.65	2.68	4.56	0.65	2.68	2.68	2.68
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	2.76	0.34	1.61	2.76	0.34	1.61	1.61	1.61
n-Heptane	100.2	7	2.34	0.33	1.37	ND	ND	ND	0	
Methylcyclohexane	98.2	7	5.57	0.80	3.20	5.57	0.80	3.20	3.20	3.20
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	3.38	0.42	1.98	3.38	0.42	1.98	1.98	1.98
Toluene	92.1	7	4.26	0.61	2.30	4.26	0.61	2.30	2.30	2.30
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	2.77	0.35	1.62	2.77	0.35	1.62	1.62	1.62
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	2.13	0.27	1.16	ND	ND	ND	0	
Styrene	104.2	8	6.13	0.77	3.27	6.13	0.77	3.27	3.27	3.27
o-xylene	106.2	8	3.48	0.43	1.89	3.48	0.43	1.89	1.89	1.89
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	489.21	81.5	288.0	489.21	81.53	288.04	288.04	288.04
Total Non-Methane Hydrocarbons	16	1.0	489.21	489.2	320.8	489.21	489.21	320.79	320.79	320.79
Total Volatile Organic Compounds	100	7.6	489.21	64.4	263.8	489.21	64.37	263.81	263.81	263.81
TPH (gasoline)	95	7.0	489.21	69.9	272.1	489.21	69.89	272.10	272.10	272.10
TPH (diesel)	198	15.0	489.21	32.6	264.7	489.21	32.61	264.65	264.65	264.65
TPH (hexane)	86.2	6.0	489.21	81.5	288.0	489.21	81.53	288.04	288.04	288.04
TPH (toluene)	92.14	7.0	489.21	69.9	263.9	489.21	69.89	263.91	263.91	263.91
TPH (methane)	16	1.0	489.21	489.2	320.8	489.21	489.21	320.79	320.79	320.79
TPH (Jet A Fuel)	177	13.0	489.21	37.6	273.0	489.21	37.63	272.98	272.98	272.98
TPH (Mineral Spirits)	117.81	8.0	489.21	61.2	295.3	489.21	61.15	295.25	295.25	295.25
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			197.2	56.9						
Paraffins			79.8							
Isoparaffins			27.8							
Aromatics			20.1							
Napthlenes			9.1							
Olefins			60.4							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	31.20	15.60	19.24	31.20	15.60	19.24	19.24	19.24
C3 (propane)	44.1	3	76.93	25.64	46.35	76.93	25.64	46.35	46.35	46.35
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			108.1							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	7.0	1.16	3.44					
Aliphatic C6-C8	100.2	7	5.1	0.73	3.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	1.8	0.31	1.08					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	111.1	56.4
Alkenes	60.4	30.6
Alkynes	0.0	0.0
Cycloalkanes	5.6	2.8
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	20.1	10.2
Terpenes	0.0	0.0

SDG: **225100**
Laboratory Number: **40**

Mole %	(1)	(2)	Calc	Calc	Calc	Calc	Calc	Calc				
Result	MDL	MDL	MDL	MDL	MDL	RL	RL	RL		Detect	EPA	Rept
%	ppbC	ppbV	ppbV	ug/m3	ppbC	ppbV	ug/m3	ppbC	Flag	Flan	Flag	Res
11.2	2.000	1.00	1.21	1.39	2.41	3.62	4.17	7.2		=		Y
0.0	2.000	1.00	1.21	1.29	2.41	3.62	3.86	7.2	U	ND		Y
16.2	2.000	1.00	1.21	1.49	2.41	3.62	4.46	7.2		=		Y
26.8	2.000	0.67	0.80	1.39	2.41	2.41	4.16	7.2		=		Y
18.2	2.000	0.67	0.80	1.45	2.41	2.41	4.36	7.2		=		Y
0.0	2.000	0.50	0.60	1.44	2.41	1.81	4.31	7.2	U	ND		Y
0.0	2.000	2.00	2.41	3.16	2.41	7.24	9.49	7.2	U	ND		Y
0.8	2.000	0.50	0.60	1.39	2.41	1.81	4.16	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.34	2.41	1.81	4.01	7.2	U	ND		Y
7.9	2.000	0.50	0.60	1.44	2.41	1.81	4.31	7.2		=		Y
0.0	2.000	0.50	0.60	1.39	2.41	1.81	4.16	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.39	2.41	1.81	4.16	7.2	U	ND		Y
0.0	2.000	1.00	1.21	2.28	2.41	3.62	6.84	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.41	1.45	4.16	7.2	U	ND		Y
0.0	2.000	0.67	0.80	1.91	2.41	2.41	5.74	7.2	U	ND		Y
3.4	2.000	0.40	0.48	1.43	2.41	1.45	4.28	7.2		=		Y
0.0	2.000	0.40	0.48	1.39	2.41	1.45	4.16	7.2	U	ND		Y
0.0	2.000	0.67	0.80	1.98	2.41	2.41	5.94	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.41	1.45	4.16	7.2	U	ND		Y
2.4	2.000	0.40	0.48	1.43	2.41	1.45	4.28	7.2	J	=		Y
0.0	2.000	0.40	0.48	1.35	2.41	1.45	4.04	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.41	1.45	4.16	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.41	1.45	4.16	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.83	2.41	1.81	5.50	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.41	1.45	4.16	7.2	U	ND		Y
0.5	2.000	0.33	0.40	1.42	2.41	1.21	4.26	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.35	2.41	1.45	4.04	7.2	U	ND		Y
0.0	2.000	0.67	0.80	1.98	2.41	2.41	5.94	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.41	1.45	4.16	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.74	2.41	1.45	5.23	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.42	2.41	1.21	4.26	7.2	U	ND		Y
0.4	2.000	0.33	0.40	1.42	2.41	1.21	4.26	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.42	2.41	1.21	4.26	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.39	2.41	1.21	4.16	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.42	2.41	1.21	4.26	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.68	2.41	1.21	5.05	7.2	U	ND		Y

0.0	2.000	0.33	0.40	1.35	2.41	1.21	4.06	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.68	2.41	1.21	5.05	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.39	2.41	1.21	4.16	7.2	U	ND	Y
0.0	2.000	0.29	0.34	1.42	2.41	1.03	4.25	7.2	U	ND	Y
1.2	2.000	0.33	0.40	1.29	2.41	1.21	3.86	7.2	J	=	Y
1.0	2.000	0.33	0.40	1.39	2.41	1.21	4.16	7.2	J	=	Y
0.6	2.000	0.29	0.34	1.42	2.41	1.03	4.25	7.2	J	=	Y
0.4	2.000	0.29	0.34	1.42	2.41	1.03	4.25	7.2	U	ND	Y
1.1	2.000	0.29	0.34	1.42	2.41	1.03	4.25	7.2	J	=	Y
0.0	2.000	0.29	0.34	1.39	2.41	1.03	4.16	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.68	2.41	1.21	5.05	7.2	U	ND	Y
0.6	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	J	=	Y
0.6	2.000	0.29	0.34	1.42	2.41	1.03	4.25	7.2	U	ND	Y
1.4	2.000	0.29	0.34	1.39	2.41	1.03	4.16	7.2	J	=	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.7	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	J	=	Y
1.1	2.000	0.29	0.34	1.30	2.41	1.03	3.90	7.2	J	=	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.41	0.90	4.16	7.2	U	ND	Y
0.6	2.000	0.25	0.30	1.41	2.41	0.90	4.23	7.2	J	=	Y
0.0	2.000	0.25	0.30	1.31	2.41	0.90	3.94	7.2	U	ND	Y
0.5	2.000	0.25	0.30	1.31	2.41	0.90	3.94	7.2	U	ND	Y
1.3	2.000	0.25	0.30	1.29	2.41	0.90	3.86	7.2	J	=	Y
0.8	2.000	0.25	0.30	1.31	2.41	0.90	3.94	7.2	J	=	Y
0.0	2.000	0.22	0.27	1.39	2.41	0.80	4.16	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.41	2.41	0.80	4.23	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.35	2.41	0.72	4.04	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.35	2.41	0.72	4.04	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.41	2.41	0.72	4.22	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.41	0.80	3.96	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.30	2.41	0.80	3.90	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.35	2.41	0.72	4.04	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.18	0.22	1.40	2.41	0.66	4.21	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.41	0.72	3.98	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.27	2.41	0.72	3.80	7.2	U	ND	Y

0.0	2.000	0.17	0.20	1.40	2.41	0.60	4.21	7.2	U	ND	Y
%											Y
100.0	45.00	7.5	9.05	31.96	54.28	27.1	95.9	162.9		=	Y
100.0	45.00	45.0	54.28	35.60	54.28	162.9	106.8	162.9		=	Y
100.0	45.00	5.9	7.14	29.27	54.28	21.4	87.8	162.9		=	Y
100.0	45.00	6.4	7.75	30.19	54.28	23.3	90.6	162.9		=	Y
100.0	45.00	3.0	3.62	29.37	54.28	10.9	88.1	162.9		=	Y
100.0	45.00	7.5	9.05	31.96	54.28	27.1	95.9	162.9		=	Y
100.0	45.00	6.4	7.75	29.28	54.28	23.3	87.9	162.9		=	Y
100.0	45.00	45.0	54.28	35.60	54.28	162.9	106.8	162.9		=	Y
100.0	45.00	3.5	4.18	30.29	54.28	12.5	90.9	162.9		=	Y
100.0	45.00	5.6	6.79	32.76	54.28	20.4	98.3	162.9		=	Y
0.0	45.00	7.5	9.05	31.96	54.28	27.1	95.9	162.9	U	ND	Y
0.0	25.000	3.6	4.31	16.77	30.16	12.9	50.3	90.5	U	ND	Y
%											Y
40.3											Y
40.5											Y
14.1											Y
10.2											Y
4.6											Y
30.6											Y
0.0											Y
%											Y
28.9	5.000	2.5	3.02	3.72	6.03	9.0	11.2	18.1		=	Y
71.1	5.000	1.7	2.01	3.63	6.03	6.0	10.9	18.1		=	Y
0.0	25.000	6.3	7.54	17.96	30.16	22.6	53.9	90.5	U	ND	Y
0.0	25.000	5.0	6.03	17.84	30.16	18.1	53.5	90.5	U	ND	Y
0.0	25.000	4.2	5.03	17.76	30.16	15.1	53.3	90.5	U	ND	Y
0.0	25.000	3.6	4.31	17.69	30.16	12.9	53.1	90.5	U	ND	Y
0.0	25.000	3.1	3.77	17.64	30.16	11.3	52.9	90.5	U	ND	Y
0.0	25.000	2.8	3.35	17.61	30.16	10.1	52.8	90.5	U	ND	Y
0.0	25.000	2.5	3.02	17.59	30.16	9.0	52.8	90.5	U	ND	Y
0.0	25.000	2.3	2.74	17.56	30.16	8.2	52.7	90.5	U	ND	Y
0.0	25.000	2.1	2.51	17.54	30.16	7.5	52.6	90.5	U	ND	Y
0.0	25.000	2.1	2.51	17.54	30.16	7.5	52.6	90.5	U	ND	Y
100.0											Y
											Y
1.4	6.0	1.0	1.21	3.57	7.24	3.6	10.7	21.7			Y
1.0	6.0	0.9	1.03	4.25	7.24	3.1	12.7	21.7			Y
0.0	6.0	0.7	0.80	4.23	7.24	2.4	12.7	21.7			Y
0.0	6.0	0.5	0.66	3.85	7.24	2.0	11.6	21.7			Y
0.0	6.0	0.7	0.80	3.76	7.24	2.4	11.3	21.7			Y
0.0	6.0	0.5	0.66	3.84	7.24	2.0	11.5	21.7			Y
0.5	2.0	0.3	0.40	1.42	2.41	1.2	4.3	7.2	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					12.7		12.73		
					0.0			0.00	
18.5						18.46			
					45.8		45.81		
31.1						31.12			
		0.0				0.00			
					0.0				
					1.8		1.82		
					0.0		0.00		
18.1						18.10			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		9.7				9.74			
					0.0		0.00		
					0.0				
					0.0		0.00		
7.0						6.97			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		1.8				1.84			
			0.0						0.00
					0.0				
			0.0						0.00
					0.0				
		0.0				0.00			
		1.3				1.28			
		0.0				0.00			
					0.0		0.00		
0.0						0.00			
					0.0				

| | | |

0.0						0.00			
79.8	27.8	20.1	9.1	60.4	0.0	111.1	60.4	0.0	5.6

6.97	3.12		
5.12	14.97		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

4.14

0.00

4.26

0.00
2.13
6.13
3.48

0.00
0.00

0.00

0.00
0.00
0.00
0.00

0.00

0.00

0.00
0.00

0.00

0.00
0.00
0.00
0.00
0.00
0.00

0.00
0.00
0.00

0.0	0.0	0.0	0.0	20.1	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**40**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.21
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.23E+04	8281	12.7	6.37	7.33
Acetylene	2	TRG	26.0	2.23E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.23E+04	12006	18.5	9.23	11.39
Propene	3	TRG	4.5	2.23E+04	4	45.8	15.27	26.35
Propane	3	TRG	44.1	2.23E+04	20238	31.1	10.37	18.75
i-Butane	4	TRG	58.1	2.23E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.23E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.23E+04	1181	1.8	0.45	1.04
n-Butane	4	TRG	54.1	2.23E+04	11771	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.23E+04	0	18.1	4.53	10.78
c-2-Butene	4	TRG	56.1	2.23E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.23E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.23E+04	6336	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.23E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.23E+04	0	9.7	1.95	5.77
n-Pentane	5	TRG	70.1	2.23E+04	4533	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.23E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.23E+04	0	7.0	1.39	4.12
2,2-Dimethylbutane	5	TRG	68.1	2.23E+04	1194	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.23E+04	834	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.23E+04	0	1.8	0.31	1.08
Methylcyclopentane	5	TRG	68.1	2.23E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.23E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.23E+04	2691	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.23E+04	2297	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.23E+04	1614	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.23E+04	1160	1.3	0.21	0.76
3-Methylhexane	6	TRG	86.2	2.23E+04	2968	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.23E+04	1792	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.23E+04	1524	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.23E+04	3621	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.23E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.23E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.23E+04	2200	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.23E+04	2768	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.23E+04	0	4.1	0.69	2.21	
2-Methylheptane	6	TRG	84.2	2.23E+04	0	3.5	0.59	2.03	
3-Methylheptane	7	TRG	100.2	2.23E+04	0	2.5	0.35	1.46	
n-Octane	7	TRG	100.2	2.23E+04	1804	1.8	0.25	1.05	
Ethylbenzene	7	TRG	100.2	2.23E+04	0	4.6	0.65	2.68	
m,p-xylene	7	TRG	98.2	2.23E+04	1387	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.23E+04	3988	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.23E+04	2260	2.8	0.34	1.61	
n-Nonane	7	TRG	100.2	2.23E+04	0	2.3	0.33	1.37	
i-Propylbenzene	7	TRG	98.2	2.23E+04	0	5.6	0.80	3.20	
n-propylbenzene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.23E+04	0	3.4	0.42	1.98	
4-Ethyltoluene	7	TRG	92.1	2.23E+04	0	4.3	0.61	2.30	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.23E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.23E+04	0	2.8	0.35	1.62	
1,3-Diethylbenzene	8	TRG	106.2	2.23E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.23E+04	0	2.1	0.27	1.16	
n-Butylbenzene	8	TRG	104.2	2.23E+04	0	6.1	0.77	3.27	
Undecane	8	TRG	106.2	2.23E+04	0	3.5	0.43	1.89	
Dodecane	9	TRG	126.2	2.23E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.23E+04	318125	489.2	81.53	288.04	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.23E+04	318125	489.2	489.21	320.79	
Total Volatile Organic Compoun	8	TRG	100.0	2.23E+04	318125	489.2	64.37	263.81	
TPH (gasoline)	7	TRG	95.0	2.23E+04	318125	489.2	69.89	272.10	
TPH (diesel)	15	TRG	198.0	2.23E+04	318125	489.2	32.61	264.65	
TPH (hexane)	6	TRG	86.2	2.23E+04	318125	489.2	81.53	288.04	
TPH (toluene)	7	TRG	92.1	2.23E+04	318125	489.2	69.89	263.91	
TPH (methane)	1	TRG	16.0	2.23E+04	318125	489.2	489.21	320.79	
TPH (Jet A Fuel)	13	TRG	177.0	2.23E+04	318125	489.2	37.63	272.98	
TPH (Mineral Spirits)	8	TRG	117.8	2.23E+04	318125	489.2	61.15	295.25	
C6+ (hexane)	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.23E+04		197.2			Sum ID
Paraffins	P	TRG	0.0	2.23E+04		79.8			Sum P
Isoparaffins	I	TRG	0.0	2.23E+04		27.8			Sum I
Aromatics	A	TRG	0.0	2.23E+04		20.1			Sum A
Napthlenes	N	TRG	0.0	2.23E+04		9.1			Sum N
Olefins	O	TRG	0.0	2.23E+04		60.4			Sum O
Oxygenates		TRG	0.0	2.23E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.23E+04	20287	31.2	15.60	19.24	
C3 (propane)	3	TRG	44.1	2.23E+04	50026	76.9	25.64	46.35	
C4 (Butane)	4	TRG	58.1	2.23E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.23E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.23E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.23E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.23E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.23E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.23E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.23E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.23E+04	70313	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

SDG: 225100
Analytical Method: TO-14FID
Laboratory Number: 41

File Name: 2510041A
Description: T-305
Canister: 660
QC_Batch: 040325-GCK

Date Sampled: 03/21/25 **Time:** 9:22
Date Analyzed: 04/03/25 **Time:** 14:52
Can Factor: 1.23
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.23	3.69	15.78	1.41	4.24	18.17	
74-86-2	Acetylene	1.23	3.69	ND	1.31	3.93	ND	ND
74-84-0	Ethane	1.23	3.69	15.82	1.52	4.55	19.52	
115-07-1	Propene	0.82	2.46	41.80	1.41	4.24	72.13	
74-98-6	Propane	0.82	2.46	359.52	1.48	4.44	649.78	
75-28-5	i-Butane	0.61	1.84	0.90	1.46	4.39	2.13	J
106-98-9	1-Butene	0.61	1.84	ND	1.41	4.24	ND	ND
106-97-8	n-Butane	0.61	1.84	96.90	1.46	4.39	230.73	
624-64-6	t-2-Butene	0.61	1.84	ND	1.41	4.24	ND	ND
590-18-1	c-2-Butene	0.61	1.84	ND	1.41	4.24	ND	ND
78-78-4	i-Pentane	0.49	1.47	58.79	1.45	4.36	173.96	
109-67-1	1-Pentene	0.49	1.47	8.36	1.41	4.24	24.02	
109-66-0	n-Pentane	0.49	1.47	23.35	1.45	4.36	69.01	
646-04-8	t-2-Pentene	0.49	1.47	2.99	1.41	4.24	8.59	
627-20-3	c-2-Pentene	0.49	1.47	ND	1.41	4.24	ND	ND
75-83-2	2,2-Dimethylbutane	0.41	1.23	5.85	1.45	4.34	20.65	
142-29-0	Cyclopentene	0.49	1.47	ND	1.37	4.11	ND	ND
287-92-3	Cyclopentane	0.49	1.47	4.77	1.41	4.24	13.70	
79-29-8	2,3-Dimethylbutane	0.41	1.23	ND	1.45	4.34	ND	ND
107-83-5	2-Methylpentane	0.41	1.23	6.25	1.45	4.34	22.08	
96-14-0	3-Methylpentane	0.41	1.23	11.87	1.45	4.34	41.94	
592-41-6	1-Hexene	0.41	1.23	ND	1.41	4.24	ND	ND
110-54-3	n-Hexane	0.41	1.23	6.82	1.45	4.34	24.09	
1120-62-3	3-Methylcyclopentene	0.41	1.23	1.34	1.38	4.13	4.52	
96-37-7	Methylcyclopentane	0.41	1.23	1.80	1.41	4.24	6.21	
108-08-7	2,4-Dimethylpentane	0.35	1.05	4.58	1.44	4.32	18.82	
71-43-2	Benzene	0.41	1.23	2.36	1.31	3.93	7.54	
110-82-7	Cyclohexane	0.41	1.23	12.00	1.41	4.24	41.42	
591-76-4	2-Methylhexane	0.35	1.05	6.41	1.44	4.32	26.34	
565-59-3	2,3-Dimethylpentane	0.35	1.05	5.98	1.44	4.32	24.58	
589-34-4	3-Methylhexane	0.35	1.05	10.96	1.44	4.32	45.03	
540-84-1	2,2,4-Trimethylpentane	0.31	0.92	8.05	1.44	4.31	37.67	
142-82-5	n-Heptane	0.35	1.05	8.78	1.44	4.32	36.05	
108-87-2	Methylcyclohexane	0.35	1.05	7.42	1.41	4.24	29.85	
592-13-2	2,5-Dimethylhexane	0.31	0.92	1.54	1.44	4.31	7.20	
589-43-5	2,4-Dimethylhexane	0.31	0.92	3.01	1.44	4.31	14.09	
565-75-3	2,3,4-Trimethylpentane	0.31	0.92	ND	1.44	4.31	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.05	4.99	1.32	3.97	18.82	
584-94-1	2,3-Dimethylhexane	0.31	0.92	2.00	1.44	4.31	9.34	
592-27-8	2-Methylheptane	0.31	0.92	1.60	1.44	4.31	7.48	
589-53-7	4-Methylheptane	0.31	0.92	3.33	1.44	4.31	15.60	
589-81-1	3-Methylheptane	0.31	0.92	2.11	1.44	4.31	9.89	
111-65-9	n-Octane	0.31	0.92	1.68	1.44	4.31	7.87	
100-41-4	Ethylbenzene	0.31	0.92	1.17	1.34	4.01	5.10	
108-38-3	m,p-xylene	0.31	0.92	5.16	1.34	4.01	22.46	
100-42-5	Styrene	0.31	0.92	0.73	1.31	3.93	3.11	J
95-47-6	o-xylene	0.31	0.92	1.14	1.34	4.01	4.98	
111-84-2	n-Nonane	0.27	0.82	ND	1.44	4.31	ND	ND
98-82-8	i-Propylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
103-65-1	n-propylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.82	ND	1.34	4.03	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.82	ND	1.34	4.03	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.82	ND	1.34	4.03	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
124-18-5	n-Decane	0.25	0.74	ND	1.43	4.30	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.82	ND	1.34	4.03	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.74	ND	1.35	4.05	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.74	ND	1.35	4.05	ND	ND
104-51-8	n-Butylbenzene	0.25	0.74	ND	1.35	4.05	ND	ND
1120-21-4	Undecane	0.22	0.67	ND	1.43	4.29	ND	ND
91-20-3	Naphthalene	0.25	0.74	ND	1.29	3.87	ND	ND
112-40-3	Dodecane	0.20	0.61	ND	1.43	4.29	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.21	27.64	851.46	32.55	97.65	3,008.01	
TNMHC - C1	Total Non-Methane Hydrocarbons	55.28	165.85	5,108.74	36.25	108.75	3,349.99	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **41**
File Name: **2510041A**
Sample ID: **T-305**
Sampled: **3/21/2025**
Received: **03/21/25**
Analyzed: **04/03/25**
QCBatch: **040325-GCK**
Can: **660**
Can Factor: **1.23**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **9:22** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **14:52** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **402031**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C4 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.06	**4.03**	20155	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.10			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.17**	20204	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.14**	80082	I	I	H	291	290
74-98-6	Propane	P	5.20	**5.20**	**5.24**	688713	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.64**	**6.55**	2289	I	O	M	343	351
67-56-1	Methanol		8.30	8.34						130	401
106-98-9	1-Butene	P	7.29	7.33	**7.36**	1066	I	I	H	369	367
106-99-0	1,3-Butadiene		**7.48**	7.52						130	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.32**	247501	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.73	**8.73**		I	I	H	410	410
590-18-1	c-2-Butene	P	9.63	9.61						199	431
64-17-5	Ethanol		10.85	10.82						199	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.02						199	465
67-64-1	Acetone		11.52	11.49						199	476
78-78-4	i-Pentane	P	11.37	11.34	**11.38**	187700	I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.27	**12.31**	26689	I	I	H	496	495
67-63-0	Isopropanol		12.65	12.62						199	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.33						199	497
109-66-0	n-Pentane	P	12.48	**12.45**	**12.45**	74560	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.52						164	503
646-04-8	t-2-Pentene	P	12.79	12.76	**12.81**	9551	I	I	H	510	510
627-20-3	c-2-Pentene	P	13.08	13.05						164	518
75-65-0	Tert butyl alcohol		**13.55**	13.52						281	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.59						281	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.74	**13.78**	22397	I	I	H	536	537
142-29-0	Cyclopentene	15	**14.61**	14.58						164	551
71-23-8	n-Propanol		**14.75**	14.72						164	558
287-92-3	Cyclopentane	P	14.88	14.85	**14.89**	15225	I	I	H	566	567
1634-04-4	Methyl tert butyl ether		**15.00**	14.97						164	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.03						164	570
107-83-5	2-Methylpentane	P	15.08	15.05	**15.07**	23945	I	I	H	571	571
96-14-0	3-Methylpentane	P	15.55	15.52	**15.56**	45488	I	I	H	584	583
592-41-6	1-Hexene	P	**15.80**	15.77						164	590
110-54-3	n-Hexane	P	16.17	**16.14**	**16.16**	26121	I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.29						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.44	**16.42**	5146	I	O	M	606	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.79						215	623
96-37-7	Methylcyclopentane		P	16.86	16.85	**16.78**	6892	I	I	H	619	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.04	**17.05**	20487	I	I	H	628	626
71-43-2	Benzene		P	17.87	**17.86**	**17.87**	9030	I	I	H	653	651
110-82-7	Cyclohexane		P	18.14	18.14	**18.14**	45991	I	O	M	661	658
591-76-4	2-Methylhexane		P	18.38	18.38	**18.39**	28670	I	I	H	669	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.45	**18.46**	26751	I	I	H	671	671
589-34-4	3-Methylhexane		P	18.66	18.66	**18.66**	49011	I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.75						100	687
994-05-8	Tert amyl methyl ether			**18.80**	18.80						100	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.09	**19.09**	41119	I	I	H	691	690
142-82-5	n-Heptane		P	19.41	19.41	**19.39**	39245	I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.09	**20.10**	33154	I	I	H	725	722
592-13-2	2,5-Dimethylhexane			20.35	20.35	**20.36**	7856	I	I	H	734	734
589-43-5	2,4-Dimethylhexane			20.43	20.43	**20.44**	15378	I	I	H	736	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.93						29	753
108-88-3	Toluene		P	21.12	**21.12**	**21.11**	22292	I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.19	**21.21**	10197	I	I	H	763	763
592-27-8	2-Methylheptane		P	21.33	21.32	**21.34**	8160	I	I	H	767	768
589-53-7	4-Methylheptane	48		**21.48**	21.47	**21.41**	17025	I	O	M	770	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.49						29	772
589-81-1	3-Methylheptane		p	21.55	21.54	**21.56**	10793	I	I	H	775	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.09						29	786
111-65-9	n-Octane		P	22.27	22.26	**22.28**	8589	I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.74	**23.77**	5985	I	I	H	857	855
108-38-3	m,p-xylene		P	23.95	23.94	**23.99**	26360	I	I	H	866	863
100-42-5	Styrene		P	24.40	24.39	**24.42**	3724	I	I	H	882	881
95-47-6	o-xylene		P	24.57	24.56	**24.49**	5844	I	I	H	885	886
124-11-8	1-Nonene	64		24.60	24.59						-57	889
111-84-2	n-Nonane		P	24.87	24.86	**24.88**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.35	**25.26**		I	O	M	916	919
103-65-1	n-propylbenzene		P	25.93	25.92	**25.94**		I	I	H	944	947
80-56-8	a-Pinene			26.09	26.08	**26.01**		I	I	H	947	950
620-14-4	3-Ethyltoluene		P	26.17	26.16	**26.18**		I	I	H	954	957
622-96-8	4-Ethyltoluene		P	26.26	26.25	**26.33**		I	I	H	961	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.44	**26.51**		I	O	M	968	964
611-14-3	2-Ethyltoluene		P	26.61	26.60	**26.60**		I	O	M	972	975
127-91-3	b-Pinene			26.80	26.79	**26.82**		I	I	H	981	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.07	**27.01**		I	I	H	989	991
124-18-5	n-Decane		P	27.26	27.25	**27.27**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.54	**27.49**		I	O	M	1009	1014
496-11-7	Indan	81		27.55	27.54						-52	1020
5989-27-5	d-Limonene			27.65	27.64						-52	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.09	**28.05**		I	I	H	1030	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.22						-52	1037
104-51-8	n-Butylbenzene			28.45	28.44						-52	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.59						-52	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.74						-52	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.82						-52	1060
1120-21-4	Undecane		P	29.86	29.92	**29.86**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.44						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.49						-48	1124
91-20-3	Naphthalene		32.25	32.24						-48	1193
112-40-3	Dodecane	P	32.46	32.52	**32.46**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					3262216		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					3262216		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					3262216		0			
TVOC	Total Volatile Organic Compounds					3262216		0			
TPH(g)	TPH (gasoline)					3262216		0			
TPH(d)	TPH (diesel)					3262216		0			
TPH(h)	TPH (hexane)					3262216		0			
TPH(t)	TPH (toluene)					3262216		0			
TPHC	TPH (methane)					3262216		0			
TPH(Jet A)	TPH (Jet A Fuel)					3262216		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					3262216					
C6+	**C6+ (hexane)**		16.17	16.14	16.16	**0**		Sum from	16.14	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			40359		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			768795		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**809154**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040325-GCK		
Hexane Std Area:	402031		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.23	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.23		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	31.56	15.78	18.17	31.56	15.78	18.17	18.17	18.17
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	31.64	15.82	19.52	31.64	15.82	19.52	19.52	19.52
Propene	42.1	3	125.41	41.80	72.13	125.41	41.80	72.13	72.13	72.13
Propane	44.1	3	1078.55	359.52	649.78	1,078.55	359.52	649.78	649.78	649.78
i-Butane	58.1	4	3.58	0.90	2.13	3.58	0.90	2.13	2.13	2.13
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	1.67	0.42	0.96	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	387.59	96.90	230.73	387.59	96.90	230.73	230.73	230.73
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	293.94	58.79	173.96	293.94	58.79	173.96	173.96	173.96
1-Pentene	70.1	5	41.80	8.36	24.02	41.80	8.36	24.02	24.02	24.02
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	116.76	23.35	69.01	116.76	23.35	69.01	69.01	69.01
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	14.96	2.99	8.59	14.96	2.99	8.59	8.59	8.59
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	35.07	5.85	20.65	35.07	5.85	20.65	20.65	20.65
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	23.84	4.77	13.70	23.84	4.77	13.70	13.70	13.70
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	37.50	6.25	22.08	37.50	6.25	22.08	22.08	22.08
3-Methylpentane	86.2	6	71.24	11.87	41.94	71.24	11.87	41.94	41.94	41.94
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	40.91	**6.82**	24.09	40.91	6.82	24.09	24.09	24.09
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	8.06	1.34	4.52	8.06	1.34	4.52	4.52	4.52
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	10.79	1.80	6.21	10.79	1.80	6.21	6.21	6.21
2,4-Dimethylpentane	100.2	7	32.08	4.58	18.82	32.08	4.58	18.82	18.82	18.82
Benzene	78.1	6	14.14	2.36	7.54	14.14	2.36	7.54	7.54	7.54
Cyclohexane	84.2	6	72.02	12.00	41.42	72.02	12.00	41.42	41.42	41.42
2-Methylhexane	100.2	7	44.90	6.41	26.34	44.90	6.41	26.34	26.34	26.34
2,3-Dimethylpentane	100.2	7	41.89	5.98	24.58	41.89	5.98	24.58	24.58	24.58
3-Methylhexane	100.2	7	76.75	10.96	45.03	76.75	10.96	45.03	45.03	45.03
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	64.39	8.05	37.67	64.39	8.05	37.67	37.67	37.67
n-Heptane	100.2	7	61.46	8.78	36.05	61.46	8.78	36.05	36.05	36.05
Methylcyclohexane	98.2	7	51.92	7.42	29.85	51.92	7.42	29.85	29.85	29.85
2,5-Dimethylhexane	114.2	8	12.30	1.54	7.20	12.30	1.54	7.20	7.20	7.20
2,4-Dimethylhexane	114.2	8	24.08	3.01	14.09	24.08	3.01	14.09	14.09	14.09
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	34.91	4.99	18.82	34.91	4.99	18.82	18.82	18.82
2,3-Dimethylhexane	114.2	8	15.97	2.00	9.34	15.97	2.00	9.34	9.34	9.34
2-Methylheptane	114.2	8	12.78	1.60	7.48	12.78	1.60	7.48	7.48	7.48
4-Methylheptane	114.2	8	26.66	3.33	15.60	26.66	3.33	15.60	15.60	15.60
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	16.90	2.11	9.89	16.90	2.11	9.89	9.89	9.89
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	13.45	1.68	7.87	13.45	1.68	7.87	7.87	7.87
Ethylbenzene	106.2	8	9.37	1.17	5.10	9.37	1.17	5.10	5.10	5.10
m,p-xylene	106.2	8	41.28	5.16	22.46	41.28	5.16	22.46	22.46	22.46
Styrene	104.2	8	5.83	0.73	3.11	5.83	0.73	3.11	3.11	3.11
o-xylene	106.2	8	9.15	1.14	4.98	9.15	1.14	4.98	4.98	4.98
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	5108.74	851.5	3008.0	5,108.74	851.46	3,008.01	3,008.01	3,008.01
Total Non-Methane Hydrocarbons	16	1.0	5108.74	5108.7	3350.0	5,108.74	5,108.74	3,349.99	3,349.99	3,349.99
Total Volatile Organic Compounds	100	7.6	5108.74	672.2	2754.9	5,108.74	672.20	2,754.93	2,754.93	2,754.93
TPH (gasoline)	95	7.0	5108.74	729.8	2841.5	5,108.74	729.82	2,841.51	2,841.51	2,841.51
TPH (diesel)	198	15.0	5108.74	340.6	2763.7	5,108.74	340.58	2,763.74	2,763.74	2,763.74
TPH (hexane)	86.2	6.0	5108.74	851.5	3008.0	5,108.74	851.46	3,008.01	3,008.01	3,008.01
TPH (toluene)	92.14	7.0	5108.74	729.8	2756.0	5,108.74	729.82	2,755.97	2,755.97	2,755.97
TPH (methane)	16	1.0	5108.74	5108.7	3350.0	5,108.74	5,108.74	3,349.99	3,349.99	3,349.99
TPH (Jet A Fuel)	177	13.0	5108.74	393.0	2850.7	5,108.74	392.98	2,850.72	2,850.72	2,850.72
TPH (Mineral Spirits)	117.81	8.0	5108.74	638.6	3083.3	5,108.74	638.59	3,083.30	3,083.30	3,083.30
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			3037.1	758.3						
Paraffins			1730.4							
Isoparaffins			810.1							
Aromatics			114.7							
Napthlenes			166.6							
Olefins			215.4							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	63.20	31.60	38.98	63.20	31.60	38.98	38.98	38.98
C3 (propane)	44.1	3	1203.96	401.32	725.34	1,203.96	401.32	725.34	725.34	725.34
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			1267.2							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	116.8	19.46	57.54					
Aliphatic C6-C8	100.2	7	115.8	16.55	67.94					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	35.1	5.85	20.65					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	2612.4	86.0
Alkenes	215.4	7.1
Alkynes	0.0	0.0
Cycloalkanes	86.6	2.8
Cycloalkenes	8.1	0.3
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	114.7	3.8
Terpenes	0.0	0.0

SDG: **225100**
Laboratory Number: **41**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
2.1	2.000	1.00	1.23	1.41	2.46	3.69	4.24	7.4		=		Y
0.0	2.000	1.00	1.23	1.31	2.46	3.69	3.93	7.4	U	ND		Y
2.1	2.000	1.00	1.23	1.52	2.46	3.69	4.55	7.4		=		Y
5.5	2.000	0.67	0.82	1.41	2.46	2.46	4.24	7.4		=		Y
47.4	2.000	0.67	0.82	1.48	2.46	2.46	4.44	7.4		=		Y
0.1	2.000	0.50	0.61	1.46	2.46	1.84	4.39	7.4	J	=		Y
0.0	2.000	2.00	2.46	3.22	2.46	7.37	9.67	7.4	U	ND		Y
0.1	2.000	0.50	0.61	1.41	2.46	1.84	4.24	7.4	U	ND		Y
0.0	2.000	0.50	0.61	1.36	2.46	1.84	4.09	7.4	U	ND		Y
12.8	2.000	0.50	0.61	1.46	2.46	1.84	4.39	7.4		=		Y
0.0	2.000	0.50	0.61	1.41	2.46	1.84	4.24	7.4	U	ND		Y
0.0	2.000	0.50	0.61	1.41	2.46	1.84	4.24	7.4	U	ND		Y
0.0	2.000	1.00	1.23	2.32	2.46	3.69	6.96	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.41	2.46	1.47	4.24	7.4	U	ND		Y
0.0	2.000	0.67	0.82	1.95	2.46	2.46	5.85	7.4	U	ND		Y
7.8	2.000	0.40	0.49	1.45	2.46	1.47	4.36	7.4		=		Y
1.1	2.000	0.40	0.49	1.41	2.46	1.47	4.24	7.4		=		Y
0.0	2.000	0.67	0.82	2.02	2.46	2.46	6.05	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.41	2.46	1.47	4.24	7.4	U	ND		Y
3.1	2.000	0.40	0.49	1.45	2.46	1.47	4.36	7.4		=		Y
0.0	2.000	0.40	0.49	1.37	2.46	1.47	4.11	7.4	U	ND		Y
0.4	2.000	0.40	0.49	1.41	2.46	1.47	4.24	7.4		=		Y
0.0	2.000	0.40	0.49	1.41	2.46	1.47	4.24	7.4	U	ND		Y
0.0	2.000	0.50	0.61	1.87	2.46	1.84	5.60	7.4	U	ND		Y
0.0	2.000	0.40	0.49	1.41	2.46	1.47	4.24	7.4	U	ND		Y
0.8	2.000	0.33	0.41	1.45	2.46	1.23	4.34	7.4		=		Y
0.0	2.000	0.40	0.49	1.37	2.46	1.47	4.11	7.4	U	ND		Y
0.0	2.000	0.67	0.82	2.02	2.46	2.46	6.05	7.4	U	ND		Y
0.6	2.000	0.40	0.49	1.41	2.46	1.47	4.24	7.4		=		Y
0.0	2.000	0.40	0.49	1.78	2.46	1.47	5.33	7.4	U	ND		Y
0.0	2.000	0.33	0.41	1.45	2.46	1.23	4.34	7.4	U	ND		Y
0.8	2.000	0.33	0.41	1.45	2.46	1.23	4.34	7.4		=		Y
1.6	2.000	0.33	0.41	1.45	2.46	1.23	4.34	7.4		=		Y
0.0	2.000	0.33	0.41	1.41	2.46	1.23	4.24	7.4	U	ND		Y
0.9	2.000	0.33	0.41	1.45	2.46	1.23	4.34	7.4		=		Y
0.0	2.000	0.33	0.41	1.72	2.46	1.23	5.15	7.4	U	ND		Y

0.2	2.000	0.33	0.41	1.38	2.46	1.23	4.13	7.4		=	Y
0.0	2.000	0.33	0.41	1.72	2.46	1.23	5.15	7.4	U	ND	Y
0.2	2.000	0.33	0.41	1.41	2.46	1.23	4.24	7.4		=	Y
0.6	2.000	0.29	0.35	1.44	2.46	1.05	4.32	7.4		=	Y
0.3	2.000	0.33	0.41	1.31	2.46	1.23	3.93	7.4		=	Y
1.6	2.000	0.33	0.41	1.41	2.46	1.23	4.24	7.4		=	Y
0.8	2.000	0.29	0.35	1.44	2.46	1.05	4.32	7.4		=	Y
0.8	2.000	0.29	0.35	1.44	2.46	1.05	4.32	7.4		=	Y
1.4	2.000	0.29	0.35	1.44	2.46	1.05	4.32	7.4		=	Y
0.0	2.000	0.29	0.35	1.41	2.46	1.05	4.24	7.4	U	ND	Y
0.0	2.000	0.33	0.41	1.72	2.46	1.23	5.15	7.4	U	ND	Y
1.1	2.000	0.25	0.31	1.44	2.46	0.92	4.31	7.4		=	Y
1.2	2.000	0.29	0.35	1.44	2.46	1.05	4.32	7.4		=	Y
1.0	2.000	0.29	0.35	1.41	2.46	1.05	4.24	7.4		=	Y
0.2	2.000	0.25	0.31	1.44	2.46	0.92	4.31	7.4		=	Y
0.4	2.000	0.25	0.31	1.44	2.46	0.92	4.31	7.4		=	Y
0.0	2.000	0.25	0.31	1.44	2.46	0.92	4.31	7.4	U	ND	Y
0.7	2.000	0.29	0.35	1.32	2.46	1.05	3.97	7.4		=	Y
0.3	2.000	0.25	0.31	1.44	2.46	0.92	4.31	7.4		=	Y
0.2	2.000	0.25	0.31	1.44	2.46	0.92	4.31	7.4		=	Y
0.4	2.000	0.25	0.31	1.44	2.46	0.92	4.31	7.4		=	Y
0.0	2.000	0.25	0.31	1.44	2.46	0.92	4.31	7.4	U	ND	Y
0.3	2.000	0.25	0.31	1.44	2.46	0.92	4.31	7.4		=	Y
0.0	2.000	0.25	0.31	1.41	2.46	0.92	4.24	7.4	U	ND	Y
0.2	2.000	0.25	0.31	1.44	2.46	0.92	4.31	7.4		=	Y
0.2	2.000	0.25	0.31	1.34	2.46	0.92	4.01	7.4		=	Y
0.7	2.000	0.25	0.31	1.34	2.46	0.92	4.01	7.4		=	Y
0.1	2.000	0.25	0.31	1.31	2.46	0.92	3.93	7.4	J	=	Y
0.2	2.000	0.25	0.31	1.34	2.46	0.92	4.01	7.4		=	Y
0.0	2.000	0.22	0.27	1.41	2.46	0.82	4.24	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.44	2.46	0.82	4.31	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.46	0.82	4.03	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.46	0.82	4.03	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.46	0.74	4.11	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.46	0.82	4.03	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.46	0.82	4.03	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.46	0.82	4.03	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.46	0.82	4.03	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.46	0.74	4.11	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.46	0.82	4.03	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.43	2.46	0.74	4.30	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.46	0.82	4.03	7.4	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.46	0.82	3.97	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.46	0.74	4.11	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.46	0.74	4.05	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.46	0.74	4.05	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.46	0.74	4.05	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.46	0.74	4.05	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.46	0.74	4.05	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.46	0.74	4.05	7.4	U	ND	Y
0.0	2.000	0.18	0.22	1.43	2.46	0.67	4.29	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.46	0.74	4.05	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.35	2.46	0.74	4.05	7.4	U	ND	Y
0.0	2.000	0.20	0.25	1.29	2.46	0.74	3.87	7.4	U	ND	Y

0.0	2.000	0.17	0.20	1.43	2.46	0.61	4.29	7.4	U	ND	Y
%											Y
100.0	45.00	7.5	9.21	32.55	55.28	27.6	97.6	165.8		=	Y
100.0	45.00	45.0	55.28	36.25	55.28	165.8	108.8	165.8		=	Y
100.0	45.00	5.9	7.27	29.81	55.28	21.8	89.4	165.8		=	Y
100.0	45.00	6.4	7.90	30.75	55.28	23.7	92.2	165.8		=	Y
100.0	45.00	3.0	3.69	29.91	55.28	11.1	89.7	165.8		=	Y
100.0	45.00	7.5	9.21	32.55	55.28	27.6	97.6	165.8		=	Y
100.0	45.00	6.4	7.90	29.82	55.28	23.7	89.5	165.8		=	Y
100.0	45.00	45.0	55.28	36.25	55.28	165.8	108.8	165.8		=	Y
100.0	45.00	3.5	4.25	30.85	55.28	12.8	92.5	165.8		=	Y
100.0	45.00	5.6	6.91	33.36	55.28	20.7	100.1	165.8		=	Y
0.0	45.00	7.5	9.21	32.55	55.28	27.6	97.6	165.8	U	ND	Y
0.0	25.000	3.6	4.39	17.08	30.71	13.2	51.2	92.1	U	ND	Y
%											Y
59.4											Y
57.0											Y
26.7											Y
3.8											Y
5.5											Y
7.1											Y
0.0											Y
%											Y
5.0	5.000	2.5	3.07	3.79	6.14	9.2	11.4	18.4		=	Y
95.0	5.000	1.7	2.05	3.70	6.14	6.1	11.1	18.4		=	Y
0.0	25.000	6.3	7.68	18.29	30.71	23.0	54.9	92.1	U	ND	Y
0.0	25.000	5.0	6.14	18.16	30.71	18.4	54.5	92.1	U	ND	Y
0.0	25.000	4.2	5.12	18.08	30.71	15.4	54.2	92.1	U	ND	Y
0.0	25.000	3.6	4.39	18.02	30.71	13.2	54.1	92.1	U	ND	Y
0.0	25.000	3.1	3.84	17.97	30.71	11.5	53.9	92.1	U	ND	Y
0.0	25.000	2.8	3.41	17.94	30.71	10.2	53.8	92.1	U	ND	Y
0.0	25.000	2.5	3.07	17.91	30.71	9.2	53.7	92.1	U	ND	Y
0.0	25.000	2.3	2.79	17.88	30.71	8.4	53.7	92.1	U	ND	Y
0.0	25.000	2.1	2.56	17.86	30.71	7.7	53.6	92.1	U	ND	Y
0.0	25.000	2.1	2.56	17.86	30.71	7.7	53.6	92.1	U	ND	Y
100.0											Y
											Y
2.3	6.0	1.0	1.23	3.63	7.37	3.7	10.9	22.1			Y
2.3	6.0	0.9	1.05	4.32	7.37	3.2	13.0	22.1			Y
0.0	6.0	0.7	0.82	4.31	7.37	2.5	12.9	22.1			Y
0.0	6.0	0.5	0.67	3.92	7.37	2.0	11.8	22.1			Y
0.0	6.0	0.7	0.82	3.83	7.37	2.5	11.5	22.1			Y
0.0	6.0	0.5	0.67	3.91	7.37	2.0	11.7	22.1			Y
0.8	2.0	0.3	0.41	1.45	2.46	1.2	4.3	7.4		=	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					31.6		31.56		
					0.0			0.00	
31.6						31.64			
					125.4		125.41		
1078.5						1078.55			
		3.6				3.58			
					0.0				
					1.7		1.67		
					0.0		0.00		
387.6						387.59			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		293.9				293.94			
					41.8		41.80		
					0.0				
					0.0		0.00		
116.8						116.76			
					0.0		0.00		
					15.0		14.96		
					0.0		0.00		
					0.0				
					0.0		0.00		
		35.1				35.07			
			0.0						0.00
					0.0				
			23.8						23.84
					0.0				
		0.0				0.00			
		37.5				37.50			
		71.2				71.24			
					0.0		0.00		
40.9						40.91			
					0.0				

		8.1				
				0.0		
		10.8				10.79
	32.1				32.08	
		14.1				
		72.0			72.02	
	44.9				44.90	
	41.9				41.89	
	76.8				76.75	
			0.0			0.00
				0.0		
	64.4				64.39	
61.5					61.46	
		51.9				51.92
	12.3				12.30	
	24.1				24.08	
	0.0				0.00	
		34.9				
	16.0				15.97	
	12.8				12.78	
	26.7				26.66	
	0.0				0.00	
	16.9				16.90	
			0.0			0.00
13.5					13.45	
		9.4				
		41.3				
		5.8				
		9.2				
			0.0			0.00
0.0					0.00	
		0.0				
		0.0				
			0.0			
		0.0				
		0.0				
		0.0				
		0.0				
			0.0			
		0.0				
0.0					0.00	
		0.0				
		0.0				
			0.0			
		0.0				
		0.0				
		0.0				
		0.0				
		0.0				
		0.0				
0.0					0.00	
		0.0				
		0.0				
		0.0				

0.0						0.00			
1730.4	810.1	114.7	166.6	215.4	0.0	2612.4	215.4	0.0	86.6

116.76	143.81		
115.82	368.72		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
	0.00				
	0.00				
	0.00				
				0.00	
				0.00	

8.06

0.00

14.14

0.00

34.91

9.37
41.28
5.83
9.15

0.00
0.00

0.00

0.00
0.00
0.00
0.00

0.00

0.00

0.00
0.00

0.00

0.00
0.00
0.00
0.00
0.00
0.00

0.00
0.00
0.00

8.1	0.0	0.0	0.0	114.7	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**41**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.23
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = $\text{Sum}\left|\frac{(\text{Astdni})}{(\text{Cstdni})}\right|_i$

2) ppbC = $\frac{\text{6 Carbons} \times \text{Ansamp} \times \text{CDF} \times 1000}{(\text{Avg RFn}) \times \text{SV}} = \text{Cn}$

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = $(\text{amt(ppbv)} \times \frac{\text{MW}}{24.4})$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	Cn ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.23E+04	20155	31.6	15.78	18.17
Acetylene	2	TRG	26.0	2.23E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.23E+04	20204	31.6	15.82	19.52
Propene	3	TRG	4.5	2.23E+04	4	125.4	41.80	72.13
Propane	3	TRG	44.1	2.23E+04	688713	1078.5	359.52	649.78
i-Butane	4	TRG	58.1	2.23E+04	2289	3.6	0.90	2.13
Methanol	1	TRG	32.0	2.23E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.23E+04	1066	1.7	0.42	0.96
n-Butane	4	TRG	54.1	2.23E+04	247501	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.23E+04	0	387.6	96.90	230.73
c-2-Butene	4	TRG	56.1	2.23E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.23E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.23E+04	187700	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.23E+04	26689	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.23E+04	0	293.9	58.79	173.96
n-Pentane	5	TRG	70.1	2.23E+04	74560	41.8	8.36	24.02
Isoprene	3	TRG	60.1	2.23E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.23E+04	9551	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.23E+04	0	116.8	23.35	69.01
2,2-Dimethylbutane	5	TRG	68.1	2.23E+04	22397	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.23E+04	15225	15.0	2.99	8.59
2,3-Dimethylbutane	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.23E+04	23945	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.23E+04	45488	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.23E+04	26121	35.1	5.85	20.65
Methylcyclopentane	5	TRG	68.1	2.23E+04	6892	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.23E+04	20487	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.23E+04	9030	23.8	4.77	13.70
Cyclohexane	5	TRG	88.2	2.23E+04	45991	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.23E+04	28670	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.23E+04	26751	37.5	6.25	22.08
3-Methylhexane	6	TRG	86.2	2.23E+04	49011	71.2	11.87	41.94
2,2,4-Trimethylpentane	6	TRG	84.2	2.23E+04	41119	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.23E+04	39245	40.9	6.82	24.09
Methylcyclohexane	6	TRG	102.2	2.23E+04	33154	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.23E+04	7856	8.1	1.34	4.52
2,4-Dimethylhexane	6	TRG	102.2	2.23E+04	15378	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.23E+04	0	10.8	1.80	6.21	
Toluene	7	TRG	100.2	2.23E+04	22292	32.1	4.58	18.82	
2,3-Dimethylhexane	6	TRG	78.1	2.23E+04	10197	14.1	2.36	7.54	
2-Methylheptane	6	TRG	84.2	2.23E+04	8160	72.0	12.00	41.42	
3-Methylheptane	7	TRG	100.2	2.23E+04	10793	44.9	6.41	26.34	
n-Octane	7	TRG	100.2	2.23E+04	8589	41.9	5.98	24.58	
Ethylbenzene	7	TRG	100.2	2.23E+04	5985	76.8	10.96	45.03	
m,p-xylene	7	TRG	98.2	2.23E+04	26360	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.23E+04	3724	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.23E+04	5844	64.4	8.05	37.67	
n-Nonane	7	TRG	100.2	2.23E+04	0	61.5	8.78	36.05	
i-Propylbenzene	7	TRG	98.2	2.23E+04	0	51.9	7.42	29.85	
n-propylbenzene	8	TRG	114.2	2.23E+04	0	12.3	1.54	7.20	
a-Pinene	8	TRG	114.2	2.23E+04	0	24.1	3.01	14.09	
3-Ethyltoluene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.23E+04	0	34.9	4.99	18.82	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.23E+04	0	16.0	2.00	9.34	
2-Ethyltoluene	8	TRG	114.2	2.23E+04	0	12.8	1.60	7.48	
b-Pinene	8	TRG	114.2	2.23E+04	0	26.7	3.33	15.60	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.23E+04	0	16.9	2.11	9.89	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.23E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.23E+04	0	13.5	1.68	7.87	
1,3-Diethylbenzene	8	TRG	106.2	2.23E+04	0	9.4	1.17	5.10	
1,4-Diethylbenzene	8	TRG	106.2	2.23E+04	0	41.3	5.16	22.46	
n-Butylbenzene	8	TRG	104.2	2.23E+04	0	5.8	0.73	3.11	
Undecane	8	TRG	106.2	2.23E+04	0	9.2	1.14	4.98	
Dodecane	9	TRG	126.2	2.23E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.23E+04	3262216	5108.7	851.46	3008.01	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.23E+04	3262216	5108.7	5108.74	3349.99	
Total Volatile Organic Compoun	8	TRG	100.0	2.23E+04	3262216	5108.7	672.20	2754.93	
TPH (gasoline)	7	TRG	95.0	2.23E+04	3262216	5108.7	729.82	2841.51	
TPH (diesel)	15	TRG	198.0	2.23E+04	3262216	5108.7	340.58	2763.74	
TPH (hexane)	6	TRG	86.2	2.23E+04	3262216	5108.7	851.46	3008.01	
TPH (toluene)	7	TRG	92.1	2.23E+04	3262216	5108.7	729.82	2755.97	
TPH (methane)	1	TRG	16.0	2.23E+04	3262216	5108.7	5108.74	3349.99	
TPH (Jet A Fuel)	13	TRG	177.0	2.23E+04	3262216	5108.7	392.98	2850.72	
TPH (Mineral Spirits)	8	TRG	117.8	2.23E+04	3262216	5108.7	638.59	3083.30	
C6+ (hexane)	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.23E+04		3037.1			Sum ID
Paraffins	P	TRG	0.0	2.23E+04		1730.4			Sum P
Isoparaffins	I	TRG	0.0	2.23E+04		810.1			Sum I
Aromatics	A	TRG	0.0	2.23E+04		114.7			Sum A
Napthlenes	N	TRG	0.0	2.23E+04		166.6			Sum N
Olefins	O	TRG	0.0	2.23E+04		215.4			Sum O
Oxygenates		TRG	0.0	2.23E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.23E+04	40359	63.2	31.60	38.98	
C3 (propane)	3	TRG	44.1	2.23E+04	768795	1204.0	401.32	725.34	
C4 (Butane)	4	TRG	58.1	2.23E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.23E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.23E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.23E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.23E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.23E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.23E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.23E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.23E+04	809154	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 42

File Name: 2510042A
Description: T-306
Canister: 859
QC_Batch: 040225-GCK

Date Sampled: 03/21/25 **Time:** 9:13
Date Analyzed: 04/02/25 **Time:** 13:00
Can Factor: 1.21
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.21	3.63	4.51	1.39	4.18	5.19	
74-86-2	Acetylene	1.21	3.63	ND	1.29	3.87	ND	ND
74-84-0	Ethane	1.21	3.63	5.99	1.49	4.48	7.39	
115-07-1	Propene	0.81	2.42	1.53	1.39	4.18	2.64	J
74-98-6	Propane	0.81	2.42	3.30	1.46	4.38	5.96	
75-28-5	i-Butane	0.61	1.82	ND	1.44	4.32	ND	ND
106-98-9	1-Butene	0.61	1.82	ND	1.39	4.17	ND	ND
106-97-8	n-Butane	0.61	1.82	ND	1.44	4.32	ND	ND
624-64-6	t-2-Butene	0.61	1.82	ND	1.39	4.17	ND	ND
590-18-1	c-2-Butene	0.61	1.82	ND	1.39	4.17	ND	ND
78-78-4	i-Pentane	0.48	1.45	ND	1.43	4.30	ND	ND
109-67-1	1-Pentene	0.48	1.45	ND	1.39	4.17	ND	ND
109-66-0	n-Pentane	0.48	1.45	1.45	1.43	4.29	4.27	J
646-04-8	t-2-Pentene	0.48	1.45	ND	1.39	4.17	ND	ND
627-20-3	c-2-Pentene	0.48	1.45	ND	1.39	4.17	ND	ND
75-83-2	2,2-Dimethylbutane	0.40	1.21	ND	1.43	4.28	ND	ND
142-29-0	Cyclopentene	0.48	1.45	ND	1.35	4.05	ND	ND
287-92-3	Cyclopentane	0.48	1.45	ND	1.39	4.17	ND	ND
79-29-8	2,3-Dimethylbutane	0.40	1.21	ND	1.43	4.28	ND	ND
107-83-5	2-Methylpentane	0.40	1.21	ND	1.43	4.28	ND	ND
96-14-0	3-Methylpentane	0.40	1.21	0.64	1.43	4.28	2.25	J
592-41-6	1-Hexene	0.40	1.21	ND	1.39	4.18	ND	ND
110-54-3	n-Hexane	0.40	1.21	ND	1.43	4.28	ND	ND
1120-62-3	3-Methylcyclopentene	0.40	1.21	ND	1.36	4.07	ND	ND
96-37-7	Methylcyclopentane	0.40	1.21	ND	1.39	4.18	ND	ND
108-08-7	2,4-Dimethylpentane	0.35	1.04	ND	1.42	4.26	ND	ND
71-43-2	Benzene	0.40	1.21	0.49	1.29	3.87	1.56	J
110-82-7	Cyclohexane	0.40	1.21	ND	1.39	4.18	ND	ND
591-76-4	2-Methylhexane	0.35	1.04	ND	1.42	4.26	ND	ND
565-59-3	2,3-Dimethylpentane	0.35	1.04	ND	1.42	4.26	ND	ND
589-34-4	3-Methylhexane	0.35	1.04	ND	1.42	4.26	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.91	ND	1.42	4.25	ND	ND
142-82-5	n-Heptane	0.35	1.04	ND	1.42	4.26	ND	ND
108-87-2	Methylcyclohexane	0.35	1.04	ND	1.39	4.18	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.91	ND	1.42	4.25	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.91	ND	1.42	4.25	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.91	ND	1.42	4.25	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.04	ND	1.31	3.92	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.91	ND	1.42	4.25	ND	ND
592-27-8	2-Methylheptane	0.30	0.91	ND	1.42	4.25	ND	ND
589-53-7	4-Methylheptane	0.30	0.91	ND	1.42	4.25	ND	ND
589-81-1	3-Methylheptane	0.30	0.91	ND	1.42	4.25	ND	ND
111-65-9	n-Octane	0.30	0.91	ND	1.42	4.25	ND	ND
100-41-4	Ethylbenzene	0.30	0.91	ND	1.32	3.95	ND	ND
108-38-3	m,p-xylene	0.30	0.91	ND	1.32	3.95	ND	ND
100-42-5	Styrene	0.30	0.91	ND	1.29	3.88	ND	ND
95-47-6	o-xylene	0.30	0.91	ND	1.32	3.95	ND	ND
111-84-2	n-Nonane	0.27	0.81	ND	1.41	4.24	ND	ND
98-82-8	i-Propylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
103-65-1	n-propylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.81	ND	1.33	3.98	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.81	ND	1.33	3.98	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.81	ND	1.33	3.98	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
124-18-5	n-Decane	0.24	0.73	ND	1.41	4.24	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.81	ND	1.33	3.98	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.73	ND	1.33	3.99	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.73	ND	1.33	3.99	ND	ND
104-51-8	n-Butylbenzene	0.24	0.73	ND	1.33	3.99	ND	ND
1120-21-4	Undecane	0.22	0.66	ND	1.41	4.23	ND	ND
91-20-3	Naphthalene	0.24	0.73	ND	1.27	3.82	ND	ND
112-40-3	Dodecane	0.20	0.61	ND	1.41	4.22	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.08	27.24	25.09	32.07	96.22	88.63	J
TNMHC - C1	Total Non-Methane Hydrocarbons	54.47	163.42	150.52	35.72	107.16	98.70	J

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **42**
File Name: **2510042A**
Sample ID: **T-306**
Sampled: **3/21/2025**
Received: **03/21/25**
Analyzed: **04/02/25**
QCBatch: **040225-GCK**
Can: **859**
Can Factor: **1.21**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **9:13** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **13:00** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **385895**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C4 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.12	**4.07**	5845	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.16			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.23**	7766	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11		2976				-195	290
74-98-6	Propane	P	5.20	**5.20**	**5.30**	6409	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.70**						126	351
67-56-1	Methanol		8.30	8.40						126	401
106-98-9	1-Butene	P	7.29	7.39						126	367
106-99-0	1,3-Butadiene		**7.48**	7.58						126	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75						203	410
590-18-1	c-2-Butene	P	9.63	9.63						203	431
64-17-5	Ethanol		10.85	10.95						203	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.15						203	465
67-64-1	Acetone		11.52	11.62						203	476
78-78-4	i-Pentane	P	11.37	11.47	**11.52**	1290	I	I	H	475	473
109-67-1	1-Pentene	P	12.30	12.40						203	495
67-63-0	Isopropanol		12.65	12.75						203	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.46						203	497
109-66-0	n-Pentane	P	12.48	**12.58**	**12.58**	4686	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.65						150	503
646-04-8	t-2-Pentene	P	12.79	12.89						150	510
627-20-3	c-2-Pentene	P	13.08	13.18						150	518
75-65-0	Tert butyl alcohol		**13.55**	13.65						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.72						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.87						150	537
142-29-0	Cyclopentene	15	**14.61**	14.71						150	551
71-23-8	n-Propanol		**14.75**	14.85						150	558
287-92-3	Cyclopentane	P	14.88	14.98						150	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.10						150	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.16						150	570
107-83-5	2-Methylpentane	P	15.08	15.18						150	571
96-14-0	3-Methylpentane	P	15.55	15.65	**15.62**	2473	I	I	H	585	583
592-41-6	1-Hexene	P	**15.80**	15.90						150	590
110-54-3	n-Hexane	P	16.17	**16.27**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						101	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						101	626
71-43-2	Benzene		P	17.87	**17.87**	**17.93**	1897	I	O	M	654	651
110-82-7	Cyclohexane		P	18.14	18.20						101	658
591-76-4	2-Methylhexane		P	18.38	18.44						101	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.51						101	671
589-34-4	3-Methylhexane		P	18.66	18.72						101	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.81						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.86						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.15						101	690
142-82-5	n-Heptane		P	19.41	19.47	**19.41**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.15						21	722
592-13-2	2,5-Dimethylhexane			20.35	20.41						21	734
589-43-5	2,4-Dimethylhexane			20.43	20.49						21	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.99						21	753
108-88-3	Toluene		P	21.12	**21.18**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						21	763
592-27-8	2-Methylheptane		P	21.33	21.33						21	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						21	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						21	772
589-81-1	3-Methylheptane		p	21.55	21.55						21	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						21	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75						-57	855
108-38-3	m,p-xylene		P	23.95	23.95						-57	863
100-42-5	Styrene		P	24.40	24.40						-57	881
95-47-6	o-xylene		P	24.57	24.57						-57	886
124-11-8	1-Nonene	64		24.60	24.60						-57	889
111-84-2	n-Nonane		P	24.87	24.87	**24.87**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36						-141	919
103-65-1	n-propylbenzene		P	25.93	25.93						-141	947
80-56-8	a-Pinene			26.09	26.09						-141	950
620-14-4	3-Ethyltoluene		P	26.17	26.17						-141	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-141	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45						-141	964
611-14-3	2-Ethyltoluene		P	26.61	26.61						-141	975
127-91-3	b-Pinene			26.80	26.80						-141	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08						-141	991
124-18-5	n-Decane		P	27.26	27.26	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-48	1014
496-11-7	Indan	81		27.55	27.55						-48	1020
5989-27-5	d-Limonene			27.65	27.65						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10						-48	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-48	1037
104-51-8	n-Butylbenzene			28.45	28.45						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					113610		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					97544		16066			
TNMHC - C1	Total Non-Methane Hydrocarbons					97544		0			
TVOC	Total Volatile Organic Compounds					97544		0			
TPH(g)	TPH (gasoline)					97544		0			
TPH(d)	TPH (diesel)					97544		0			
TPH(h)	TPH (hexane)					97544		0			
TPH(t)	TPH (toluene)					97544		0			
TPHC	TPH (methane)					97544		0			
TPH(Jet A)	TPH (Jet A Fuel)					97544		**16066**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					97544					
C6+	**C6+ (hexane)**		16.17	16.27	16.17	**0**		Sum from	16.27	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			13611		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			9385		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**22996**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040225-GCK		
Hexane Std Area:	385895		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.21	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.21		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	9.02	4.51	5.19	9.02	4.51	5.19	5.19	5.19
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	11.98	5.99	7.39	11.98	5.99	7.39	7.39	7.39
Propene	42.1	3	4.59	1.53	2.64	4.59	1.53	2.64	2.64	2.64
Propane	44.1	3	9.89	3.30	5.96	9.89	3.30	5.96	5.96	5.96
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	1.99	0.40	1.18	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	7.23	1.45	4.27	7.23	1.45	4.27	4.27	4.27
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	3.82	0.64	2.25	3.82	0.64	2.25	2.25	2.25
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	2.93	0.49	1.56	2.93	0.49	1.56	1.56	1.56
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	150.52	25.1	88.6	150.52	25.09	88.63	88.63	88.63
Total Non-Methane Hydrocarbons	16	1.0	150.52	150.5	98.7	150.52	150.52	98.70	98.70	98.70
Total Volatile Organic Compounds	100	7.6	150.52	19.8	81.2	150.52	19.81	81.17	81.17	81.17
TPH (gasoline)	95	7.0	150.52	21.5	83.7	150.52	21.50	83.72	83.72	83.72
TPH (diesel)	198	15.0	150.52	10.0	81.4	150.52	10.03	81.43	81.43	81.43
TPH (hexane)	86.2	6.0	150.52	25.1	88.6	150.52	25.09	88.63	88.63	88.63
TPH (toluene)	92.14	7.0	150.52	21.5	81.2	150.52	21.50	81.20	81.20	81.20
TPH (methane)	16	1.0	150.52	150.5	98.7	150.52	150.52	98.70	98.70	98.70
TPH (Jet A Fuel)	177	13.0	150.52	11.6	84.0	150.52	11.58	83.99	83.99	83.99
TPH (Mineral Spirits)	117.81	8.0	150.52	18.8	90.8	150.52	18.82	90.85	90.85	90.85
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			51.5	18.3						
Paraffins			29.1							
Isoparaffins			5.8							
Aromatics			2.9							
Napthlenes			0.0							
Olefins			13.6							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	21.00	10.50	12.96	21.00	10.50	12.96	12.96	12.96
C3 (propane)	44.1	3	14.48	4.83	8.72	14.48	4.83	8.72	8.72	8.72
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			35.5							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	7.2	1.21	3.56					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			34.9	67.9
Alkenes			13.6	26.5
Alkynes			0.0	0.0
Cycloalkanes			0.0	0.0
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			2.9	5.7
Terpenes			0.0	0.0

SDG: **225100**
Laboratory Number: **42**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
24.6	2.000	1.00	1.21	1.39	2.42	3.63	4.18	7.3		=		Y
0.0	2.000	1.00	1.21	1.29	2.42	3.63	3.87	7.3	U	ND		Y
32.7	2.000	1.00	1.21	1.49	2.42	3.63	4.48	7.3		=		Y
8.4	2.000	0.67	0.81	1.39	2.42	2.42	4.18	7.3	J	=		Y
18.0	2.000	0.67	0.81	1.46	2.42	2.42	4.38	7.3		=		Y
0.0	2.000	0.50	0.61	1.44	2.42	1.82	4.32	7.3	U	ND		Y
0.0	2.000	2.00	2.42	3.18	2.42	7.26	9.53	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.39	2.42	1.82	4.17	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.34	2.42	1.82	4.03	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.44	2.42	1.82	4.32	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.39	2.42	1.82	4.17	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.39	2.42	1.82	4.17	7.3	U	ND		Y
0.0	2.000	1.00	1.21	2.29	2.42	3.63	6.86	7.3	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.42	1.45	4.17	7.3	U	ND		Y
0.0	2.000	0.67	0.81	1.92	2.42	2.42	5.76	7.3	U	ND		Y
2.2	2.000	0.40	0.48	1.43	2.42	1.45	4.30	7.3	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.42	1.45	4.17	7.3	U	ND		Y
0.0	2.000	0.67	0.81	1.99	2.42	2.42	5.96	7.3	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.42	1.45	4.17	7.3	U	ND		Y
7.9	2.000	0.40	0.48	1.43	2.42	1.45	4.29	7.3	J	=		Y
0.0	2.000	0.40	0.48	1.35	2.42	1.45	4.05	7.3	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.42	1.45	4.17	7.3	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.42	1.45	4.17	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.84	2.42	1.82	5.51	7.3	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.42	1.45	4.17	7.3	U	ND		Y
0.0	2.000	0.33	0.40	1.43	2.42	1.21	4.28	7.3	U	ND		Y
0.0	2.000	0.40	0.48	1.35	2.42	1.45	4.05	7.3	U	ND		Y
0.0	2.000	0.67	0.81	1.99	2.42	2.42	5.96	7.3	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.42	1.45	4.17	7.3	U	ND		Y
0.0	2.000	0.40	0.48	1.75	2.42	1.45	5.25	7.3	U	ND		Y
0.0	2.000	0.33	0.40	1.43	2.42	1.21	4.28	7.3	U	ND		Y
0.0	2.000	0.33	0.40	1.43	2.42	1.21	4.28	7.3	U	ND		Y
3.5	2.000	0.33	0.40	1.43	2.42	1.21	4.28	7.3	J	=		Y
0.0	2.000	0.33	0.40	1.39	2.42	1.21	4.18	7.3	U	ND		Y
0.0	2.000	0.33	0.40	1.43	2.42	1.21	4.28	7.3	U	ND		Y
0.0	2.000	0.33	0.40	1.69	2.42	1.21	5.07	7.3	U	ND		Y

0.0	2.000	0.33	0.40	1.36	2.42	1.21	4.07	7.3	U	ND	Y
0.0	2.000	0.33	0.40	1.69	2.42	1.21	5.07	7.3	U	ND	Y
0.0	2.000	0.33	0.40	1.39	2.42	1.21	4.18	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.42	1.04	4.26	7.3	U	ND	Y
2.7	2.000	0.33	0.40	1.29	2.42	1.21	3.87	7.3	J	=	Y
0.0	2.000	0.33	0.40	1.39	2.42	1.21	4.18	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.42	1.04	4.26	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.42	1.04	4.26	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.42	1.04	4.26	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.39	2.42	1.04	4.18	7.3	U	ND	Y
0.0	2.000	0.33	0.40	1.69	2.42	1.21	5.07	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.42	0.91	4.25	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.42	1.04	4.26	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.39	2.42	1.04	4.18	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.42	0.91	4.25	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.42	0.91	4.25	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.42	0.91	4.25	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.31	2.42	1.04	3.92	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.42	0.91	4.25	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.42	0.91	4.25	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.42	0.91	4.25	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.42	0.91	4.25	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.42	0.91	4.25	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.42	0.91	4.17	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.42	2.42	0.91	4.25	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.32	2.42	0.91	3.95	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.32	2.42	0.91	3.95	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.29	2.42	0.91	3.88	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.32	2.42	0.91	3.95	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.39	2.42	0.81	4.17	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.41	2.42	0.81	4.24	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.42	0.81	3.98	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.42	0.81	3.98	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.35	2.42	0.73	4.05	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.42	0.81	3.98	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.42	0.81	3.98	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.42	0.81	3.98	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.42	0.81	3.98	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.35	2.42	0.73	4.05	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.42	0.81	3.98	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.41	2.42	0.73	4.24	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.42	0.81	3.98	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.30	2.42	0.81	3.91	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.35	2.42	0.73	4.05	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.42	0.73	3.99	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.42	0.73	3.99	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.42	0.73	3.99	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.42	0.73	3.99	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.42	0.73	3.99	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.42	0.73	3.99	7.3	U	ND	Y
0.0	2.000	0.18	0.22	1.41	2.42	0.66	4.23	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.42	0.73	3.99	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.42	0.73	3.99	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.27	2.42	0.73	3.82	7.3	U	ND	Y

0.0	2.000	0.17	0.20	1.41	2.42	0.61	4.22	7.3	U	ND	Y
%											Y
100.0	45.00	7.5	9.08	32.07	54.47	27.2	96.2	163.4	J	=	Y
100.0	45.00	45.0	54.47	35.72	54.47	163.4	107.2	163.4	J	=	Y
100.0	45.00	5.9	7.17	29.38	54.47	21.5	88.1	163.4	J	=	Y
100.0	45.00	6.4	7.78	30.30	54.47	23.3	90.9	163.4	J	=	Y
100.0	45.00	3.0	3.63	29.47	54.47	10.9	88.4	163.4	J	=	Y
100.0	45.00	7.5	9.08	32.07	54.47	27.2	96.2	163.4	J	=	Y
100.0	45.00	6.4	7.78	29.39	54.47	23.3	88.2	163.4	J	=	Y
100.0	45.00	45.0	54.47	35.72	54.47	163.4	107.2	163.4	J	=	Y
100.0	45.00	3.5	4.19	30.40	54.47	12.6	91.2	163.4	J	=	Y
100.0	45.00	5.6	6.81	32.88	54.47	20.4	98.6	163.4	J	=	Y
0.0	45.00	7.5	9.08	32.07	54.47	27.2	96.2	163.4	U	ND	Y
0.0	25.000	3.6	4.32	16.83	30.26	13.0	50.5	90.8	U	ND	Y
%											Y
34.2											Y
56.6											Y
11.3											Y
5.7											Y
0.0											Y
26.5											Y
0.0											Y
%											Y
59.2	5.000	2.5	3.03	3.73	6.05	9.1	11.2	18.2		=	Y
40.8	5.000	1.7	2.02	3.65	6.05	6.1	10.9	18.2	J	=	Y
0.0	25.000	6.3	7.57	18.02	30.26	22.7	54.1	90.8	U	ND	Y
0.0	25.000	5.0	6.05	17.90	30.26	18.2	53.7	90.8	U	ND	Y
0.0	25.000	4.2	5.04	17.82	30.26	15.1	53.5	90.8	U	ND	Y
0.0	25.000	3.6	4.32	17.75	30.26	13.0	53.3	90.8	U	ND	Y
0.0	25.000	3.1	3.78	17.71	30.26	11.3	53.1	90.8	U	ND	Y
0.0	25.000	2.8	3.36	17.68	30.26	10.1	53.0	90.8	U	ND	Y
0.0	25.000	2.5	3.03	17.65	30.26	9.1	52.9	90.8	U	ND	Y
0.0	25.000	2.3	2.75	17.62	30.26	8.3	52.9	90.8	U	ND	Y
0.0	25.000	2.1	2.52	17.60	30.26	7.6	52.8	90.8	U	ND	Y
0.0	25.000	2.1	2.52	17.60	30.26	7.6	52.8	90.8	U	ND	Y
100.0											Y
											Y
4.8	6.0	1.0	1.21	3.58	7.26	3.6	10.7	21.8			Y
0.0	6.0	0.9	1.04	4.26	7.26	3.1	12.8	21.8			Y
0.0	6.0	0.7	0.81	4.24	7.26	2.4	12.7	21.8			Y
0.0	6.0	0.5	0.66	3.86	7.26	2.0	11.6	21.8			Y
0.0	6.0	0.7	0.81	3.78	7.26	2.4	11.3	21.8			Y
0.0	6.0	0.5	0.66	3.85	7.26	2.0	11.6	21.8			Y
0.0	2.0	0.3	0.40	1.43	2.42	1.2	4.3	7.3	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					9.0		9.02		
					0.0			0.00	
12.0						11.98			
					4.6		4.59		
9.9						9.89			
		0.0				0.00			
					0.0				
					0.0		0.00		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		2.0				1.99			
					0.0		0.00		
					0.0				
					0.0		0.00		
7.2						7.23			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
					0.0				
			0.0						0.00
					0.0				
		0.0				0.00			
		0.0				0.00			
		3.8				3.82			
					0.0		0.00		
0.0						0.00			
					0.0				

0.0
0.0
0.0
0.0
2.9
0.0
0.0
0.0

0.0						0.00			
29.1	5.8	2.9	0.0	13.6	0.0	34.9	13.6	0.0	0.0

7.23	3.82		
0.00	0.00		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
	0.00				
	0.00				
	0.00				
				0.00	
				0.00	

0.00

0.00

2.93

0.00

0.00

0.00
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0.00
0.00
0.00

0.0	0.0	0.0	0.0	2.9	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**42**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.21
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum | (Astdni) / (Cstdni) | i

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = Cn

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.14E+04	5845	9.0	4.51	5.19
Acetylene	2	TRG	26.0	2.14E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.14E+04	7766	12.0	5.99	7.39
Propene	3	TRG	4.5	2.14E+04	4	4.6	1.53	2.64
Propane	3	TRG	44.1	2.14E+04	6409	9.9	3.30	5.96
i-Butane	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.14E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.14E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.14E+04	1290	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.14E+04	0	2.0	0.40	1.18
n-Pentane	5	TRG	70.1	2.14E+04	4686	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.14E+04	0	7.2	1.45	4.27
2,2-Dimethylbutane	5	TRG	68.1	2.14E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.14E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.14E+04	2473	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.14E+04	1897	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.14E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.14E+04	0	3.8	0.64	2.25
2,2,4-Trimethylpentane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.14E+04	0	2.9	0.49	1.56	
2-Methylheptane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.14E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.14E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.14E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.14E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.14E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.14E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.14E+04	97544	150.5	25.09	88.63	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.14E+04	97544	150.5	150.52	98.70	
Total Volatile Organic Compoun	8	TRG	100.0	2.14E+04	97544	150.5	19.81	81.17	
TPH (gasoline)	7	TRG	95.0	2.14E+04	97544	150.5	21.50	83.72	
TPH (diesel)	15	TRG	198.0	2.14E+04	97544	150.5	10.03	81.43	
TPH (hexane)	6	TRG	86.2	2.14E+04	97544	150.5	25.09	88.63	
TPH (toluene)	7	TRG	92.1	2.14E+04	97544	150.5	21.50	81.20	
TPH (methane)	1	TRG	16.0	2.14E+04	97544	150.5	150.52	98.70	
TPH (Jet A Fuel)	13	TRG	177.0	2.14E+04	97544	150.5	11.58	83.99	
TPH (Mineral Spirits)	8	TRG	117.8	2.14E+04	97544	150.5	18.82	90.85	
C6+ (hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.14E+04		51.5			Sum ID
Paraffins	P	TRG	0.0	2.14E+04		29.1			Sum P
Isoparaffins	I	TRG	0.0	2.14E+04		5.8			Sum I
Aromatics	A	TRG	0.0	2.14E+04		2.9			Sum A
Napthlenes	N	TRG	0.0	2.14E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.14E+04		13.6			Sum O
Oxygenates		TRG	0.0	2.14E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.14E+04	13611	21.0	10.50	12.96	
C3 (propane)	3	TRG	44.1	2.14E+04	9385	14.5	4.83	8.72	
C4 (Butane)	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.14E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.14E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.14E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.14E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.14E+04	22996	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 43

File Name: 2510043A
Description: T-307
Canister: 636
QC_Batch: 040225-GCK

Date Sampled: 03/21/25 **Time:** 9:10
Date Analyzed: 04/02/25 **Time:** 13:46
Can Factor: 1.22
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.22	3.66	ND	1.40	4.21	ND	ND
74-86-2	Acetylene	1.22	3.66	ND	1.30	3.90	ND	ND
74-84-0	Ethane	1.22	3.66	5.25	1.50	4.51	6.47	
115-07-1	Propene	0.81	2.44	ND	1.40	4.21	ND	ND
74-98-6	Propane	0.81	2.44	2.04	1.47	4.41	3.69	J
75-28-5	i-Butane	0.61	1.83	ND	1.45	4.36	ND	ND
106-98-9	1-Butene	0.61	1.83	ND	1.40	4.21	ND	ND
106-97-8	n-Butane	0.61	1.83	ND	1.45	4.36	ND	ND
624-64-6	t-2-Butene	0.61	1.83	ND	1.40	4.21	ND	ND
590-18-1	c-2-Butene	0.61	1.83	ND	1.40	4.21	ND	ND
78-78-4	i-Pentane	0.49	1.46	ND	1.44	4.33	ND	ND
109-67-1	1-Pentene	0.49	1.46	ND	1.40	4.20	ND	ND
109-66-0	n-Pentane	0.49	1.46	ND	1.44	4.32	ND	ND
646-04-8	t-2-Pentene	0.49	1.46	ND	1.40	4.20	ND	ND
627-20-3	c-2-Pentene	0.49	1.46	ND	1.40	4.20	ND	ND
75-83-2	2,2-Dimethylbutane	0.41	1.22	ND	1.44	4.31	ND	ND
142-29-0	Cyclopentene	0.49	1.46	ND	1.36	4.08	ND	ND
287-92-3	Cyclopentane	0.49	1.46	ND	1.40	4.20	ND	ND
79-29-8	2,3-Dimethylbutane	0.41	1.22	ND	1.44	4.31	ND	ND
107-83-5	2-Methylpentane	0.41	1.22	ND	1.44	4.31	ND	ND
96-14-0	3-Methylpentane	0.41	1.22	ND	1.44	4.31	ND	ND
592-41-6	1-Hexene	0.41	1.22	ND	1.40	4.21	ND	ND
110-54-3	n-Hexane	0.41	1.22	ND	1.44	4.31	ND	ND
1120-62-3	3-Methylcyclopentene	0.41	1.22	ND	1.37	4.10	ND	ND
96-37-7	Methylcyclopentane	0.41	1.22	ND	1.40	4.21	ND	ND
108-08-7	2,4-Dimethylpentane	0.35	1.05	ND	1.43	4.29	ND	ND
71-43-2	Benzene	0.41	1.22	7.13	1.30	3.90	22.83	
110-82-7	Cyclohexane	0.41	1.22	ND	1.40	4.21	ND	ND
591-76-4	2-Methylhexane	0.35	1.05	ND	1.43	4.29	ND	ND
565-59-3	2,3-Dimethylpentane	0.35	1.05	ND	1.43	4.29	ND	ND
589-34-4	3-Methylhexane	0.35	1.05	ND	1.43	4.29	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.91	ND	1.43	4.28	ND	ND
142-82-5	n-Heptane	0.35	1.05	ND	1.43	4.29	ND	ND
108-87-2	Methylcyclohexane	0.35	1.05	ND	1.40	4.21	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.91	ND	1.43	4.28	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.91	ND	1.43	4.28	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.91	ND	1.43	4.28	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.05	ND	1.32	3.95	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.91	ND	1.43	4.28	ND	ND
592-27-8	2-Methylheptane	0.30	0.91	ND	1.43	4.28	ND	ND
589-53-7	4-Methylheptane	0.30	0.91	ND	1.43	4.28	ND	ND
589-81-1	3-Methylheptane	0.30	0.91	ND	1.43	4.28	ND	ND
111-65-9	n-Octane	0.30	0.91	ND	1.43	4.28	ND	ND
100-41-4	Ethylbenzene	0.30	0.91	ND	1.33	3.98	ND	ND
108-38-3	m,p-xylene	0.30	0.91	ND	1.33	3.98	ND	ND
100-42-5	Styrene	0.30	0.91	ND	1.30	3.91	ND	ND
95-47-6	o-xylene	0.30	0.91	ND	1.33	3.98	ND	ND
111-84-2	n-Nonane	0.27	0.81	ND	1.42	4.27	ND	ND
98-82-8	i-Propylbenzene	0.27	0.81	ND	1.33	4.00	ND	ND
103-65-1	n-propylbenzene	0.27	0.81	ND	1.33	4.00	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.81	ND	1.33	4.00	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.81	ND	1.33	4.00	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.81	ND	1.33	4.00	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.81	ND	1.33	4.00	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.81	ND	1.33	4.00	ND	ND
124-18-5	n-Decane	0.24	0.73	ND	1.42	4.27	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.81	ND	1.33	4.00	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.73	ND	1.34	4.02	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.73	ND	1.34	4.02	ND	ND
104-51-8	n-Butylbenzene	0.24	0.73	ND	1.34	4.02	ND	ND
1120-21-4	Undecane	0.22	0.67	ND	1.42	4.26	ND	ND
91-20-3	Naphthalene	0.24	0.73	ND	1.28	3.84	ND	ND
112-40-3	Dodecane	0.20	0.61	ND	1.42	4.26	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.15	27.44	24.33	32.31	96.93	85.95	J
TNMHC - C1	Total Non-Methane Hydrocarbons	54.88	164.63	145.97	35.98	107.95	95.72	J

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **43**
File Name: **2510043A**
Sample ID: **T-307**
Sampled: **3/21/2025**
Received: **03/21/25**
Analyzed: **04/02/25**
QCBatch: **040225-GCK**
Can: **636**
Can Factor: **1.22**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **9:10** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **13:46** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **385895**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C4 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.10	**4.07**	1469	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.14			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.21**	6753	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11						-200	290
74-98-6	Propane	P	5.20	**5.20**	**5.26**	3943	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.66**						129	351
67-56-1	Methanol		8.30	8.36						129	401
106-98-9	1-Butene	P	7.29	7.35						129	367
106-99-0	1,3-Butadiene		**7.48**	7.54						129	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75	**8.65**		O	I	M	407	410
590-18-1	c-2-Butene	P	9.63	9.63						203	431
64-17-5	Ethanol		10.85	10.95						203	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.15						203	465
67-64-1	Acetone		11.52	11.62						203	476
78-78-4	i-Pentane	P	11.37	11.47	**11.52**		I	I	H	475	473
109-67-1	1-Pentene	P	12.30	12.40						203	495
67-63-0	Isopropanol		12.65	12.75						203	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.46						203	497
109-66-0	n-Pentane	P	12.48	**12.58**	**12.58**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.65						150	503
646-04-8	t-2-Pentene	P	12.79	12.89	**12.93**	968	I	I	H	510	510
627-20-3	c-2-Pentene	P	13.08	13.18						150	518
75-65-0	Tert butyl alcohol		**13.55**	13.65						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.72						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.87	**13.83**	1451	I	I	H	535	537
142-29-0	Cyclopentene	15	**14.61**	14.71						150	551
71-23-8	n-Propanol		**14.75**	14.85						150	558
287-92-3	Cyclopentane	P	14.88	14.98	**15.01**	1410	I	I	H	568	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.10						150	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.16						150	570
107-83-5	2-Methylpentane	P	15.08	15.18						150	571
96-14-0	3-Methylpentane	P	15.55	15.65	**15.62**		I	I	H	585	583
592-41-6	1-Hexene	P	**15.80**	15.90						150	590
110-54-3	n-Hexane	P	16.17	**16.27**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						101	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						101	626
71-43-2	Benzene		P	17.87	**17.87**	**17.92**	27534	I	O	M	654	651
110-82-7	Cyclohexane		P	18.14	18.19						101	658
591-76-4	2-Methylhexane		P	18.38	18.43						101	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.50						101	671
589-34-4	3-Methylhexane		P	18.66	18.71						101	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.80						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.85						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.14						101	690
142-82-5	n-Heptane		P	19.41	19.46	**19.41**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.14						21	722
592-13-2	2,5-Dimethylhexane			20.35	20.40						21	734
589-43-5	2,4-Dimethylhexane			20.43	20.48						21	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.98						21	753
108-88-3	Toluene		P	21.12	**21.17**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						21	763
592-27-8	2-Methylheptane		P	21.33	21.33						21	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						21	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						21	772
589-81-1	3-Methylheptane		p	21.55	21.55						21	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						21	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75						-57	855
108-38-3	m,p-xylene		P	23.95	23.95						-57	863
100-42-5	Styrene		P	24.40	24.40						-57	881
95-47-6	o-xylene		P	24.57	24.57						-57	886
124-11-8	1-Nonene	64		24.60	24.60						-57	889
111-84-2	n-Nonane		P	24.87	24.87	**24.87**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36						-141	919
103-65-1	n-propylbenzene		P	25.93	25.93	**25.95**		I	I	H	945	947
80-56-8	a-Pinene			26.09	26.09						-141	950
620-14-4	3-Ethyltoluene		P	26.17	26.17	**26.13**		I	O	M	953	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-141	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45						-141	964
611-14-3	2-Ethyltoluene		P	26.61	26.61						-141	975
127-91-3	b-Pinene			26.80	26.80						-141	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08	**27.02**		I	I	H	990	991
124-18-5	n-Decane		P	27.26	27.26	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-48	1014
496-11-7	Indan	81		27.55	27.55						-48	1020
5989-27-5	d-Limonene			27.65	27.65						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10	**28.12**		I	I	H	1033	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-48	1037
104-51-8	n-Butylbenzene			28.45	28.45						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					105677		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					93901		11776			
TNMHC - C1	Total Non-Methane Hydrocarbons					93901		0			
TVOC	Total Volatile Organic Compounds					93901		0			
TPH(g)	TPH (gasoline)					93901		0			
TPH(d)	TPH (diesel)					93901		0			
TPH(h)	TPH (hexane)					93901		0			
TPH(t)	TPH (toluene)					93901		0			
TPHC	TPH (methane)					93901		0			
TPH(Jet A)	TPH (Jet A Fuel)					93901		**11776**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					93901					
C6+	**C6+ (hexane)**		16.17	16.27	16.17	**0**		Sum from	16.27	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			8222		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			3943		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**12165**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040225-GCK		
Hexane Std Area:	385895		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.22	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.22		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	2.28	1.14	1.31	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	10.50	5.25	6.47	10.50	5.25	6.47	6.47	6.47
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	6.13	2.04	3.69	6.13	2.04	3.69	3.69	3.69
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	1.50	0.30	0.86	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	2.26	0.38	1.33	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	2.19	0.44	1.26	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	42.80	7.13	22.83	42.80	7.13	22.83	22.83	22.83
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	145.97	24.3	85.9	145.97	24.33	85.95	85.95	85.95
Total Non-Methane Hydrocarbons	16	1.0	145.97	146.0	95.7	145.97	145.97	95.72	95.72	95.72
Total Volatile Organic Compounds	100	7.6	145.97	19.2	78.7	145.97	19.21	78.72	78.72	78.72
TPH (gasoline)	95	7.0	145.97	20.9	81.2	145.97	20.85	81.19	81.19	81.19
TPH (diesel)	198	15.0	145.97	9.7	79.0	145.97	9.73	78.97	78.97	78.97
TPH (hexane)	86.2	6.0	145.97	24.3	85.9	145.97	24.33	85.95	85.95	85.95
TPH (toluene)	92.14	7.0	145.97	20.9	78.7	145.97	20.85	78.74	78.74	78.74
TPH (methane)	16	1.0	145.97	146.0	95.7	145.97	145.97	95.72	95.72	95.72
TPH (Jet A Fuel)	177	13.0	145.97	11.2	81.5	145.97	11.23	81.45	81.45	81.45
TPH (Mineral Spirits)	117.81	8.0	145.97	18.2	88.1	145.97	18.25	88.10	88.10	88.10
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			67.7	16.7						
Paraffins			16.6							
Isoparaffins			2.3							
Aromatics			42.8							
Napthlenes			2.2							
Olefins			3.8							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	12.78	6.39	7.88	12.78	6.39	7.88	7.88	7.88
C3 (propane)	44.1	3	6.13	2.04	3.69	6.13	2.04	3.69	3.69	3.69
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			18.9							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	2.3	0.38	1.33					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			18.9	27.9
Alkenes			3.8	5.6
Alkynes			0.0	0.0
Cycloalkanes			2.2	3.2
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			42.8	63.3
Terpenes			0.0	0.0

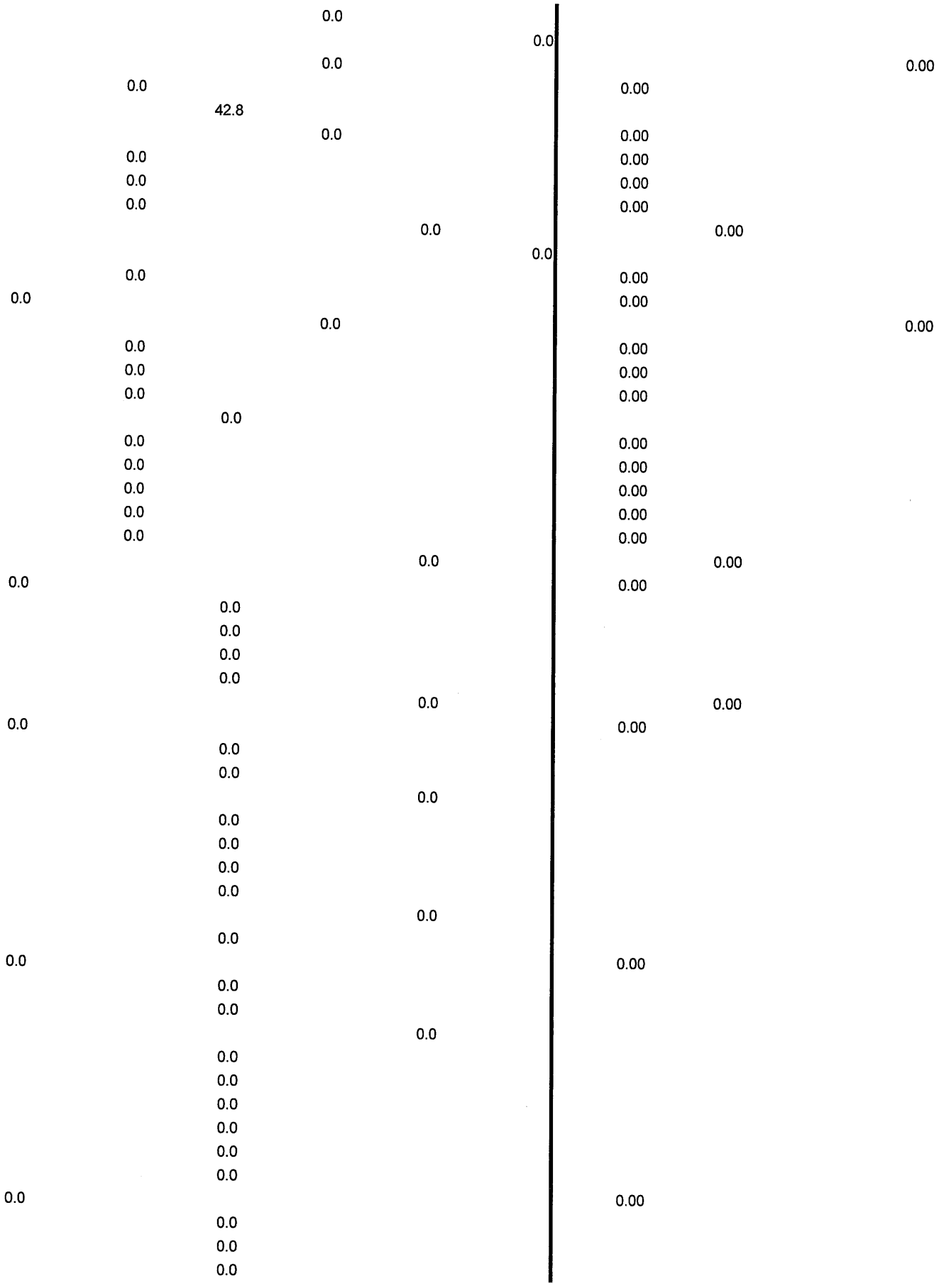
SDG: **225100**
Laboratory Number: **43**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
6.8	2.000	1.00	1.22	1.40	2.44	3.66	4.21	7.3	U	ND		Y
0.0	2.000	1.00	1.22	1.30	2.44	3.66	3.90	7.3	U	ND		Y
31.5	2.000	1.00	1.22	1.50	2.44	3.66	4.51	7.3		=		Y
0.0	2.000	0.67	0.81	1.40	2.44	2.44	4.21	7.3	U	ND		Y
12.2	2.000	0.67	0.81	1.47	2.44	2.44	4.41	7.3	J	=		Y
0.0	2.000	0.50	0.61	1.45	2.44	1.83	4.36	7.3	U	ND		Y
0.0	2.000	2.00	2.44	3.20	2.44	7.32	9.60	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.40	2.44	1.83	4.21	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.35	2.44	1.83	4.06	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.45	2.44	1.83	4.36	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.40	2.44	1.83	4.21	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.40	2.44	1.83	4.21	7.3	U	ND		Y
0.0	2.000	1.00	1.22	2.30	2.44	3.66	6.91	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.40	2.44	1.46	4.20	7.3	U	ND		Y
0.0	2.000	0.67	0.81	1.94	2.44	2.44	5.81	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.44	2.44	1.46	4.33	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.40	2.44	1.46	4.20	7.3	U	ND		Y
0.0	2.000	0.67	0.81	2.00	2.44	2.44	6.01	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.40	2.44	1.46	4.20	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.44	2.44	1.46	4.32	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.36	2.44	1.46	4.08	7.3	U	ND		Y
1.8	2.000	0.40	0.49	1.40	2.44	1.46	4.20	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.40	2.44	1.46	4.20	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.85	2.44	1.83	5.55	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.40	2.44	1.46	4.20	7.3	U	ND		Y
2.3	2.000	0.33	0.41	1.44	2.44	1.22	4.31	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.36	2.44	1.46	4.08	7.3	U	ND		Y
0.0	2.000	0.67	0.81	2.00	2.44	2.44	6.01	7.3	U	ND		Y
2.6	2.000	0.40	0.49	1.40	2.44	1.46	4.20	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.76	2.44	1.46	5.29	7.3	U	ND		Y
0.0	2.000	0.33	0.41	1.44	2.44	1.22	4.31	7.3	U	ND		Y
0.0	2.000	0.33	0.41	1.44	2.44	1.22	4.31	7.3	U	ND		Y
0.0	2.000	0.33	0.41	1.44	2.44	1.22	4.31	7.3	U	ND		Y
0.0	2.000	0.33	0.41	1.40	2.44	1.22	4.21	7.3	U	ND		Y
0.0	2.000	0.33	0.41	1.44	2.44	1.22	4.31	7.3	U	ND		Y
0.0	2.000	0.33	0.41	1.70	2.44	1.22	5.11	7.3	U	ND		Y

0.0	2.000	0.33	0.41	1.37	2.44	1.22	4.10	7.3	U	ND	Y
0.0	2.000	0.33	0.41	1.70	2.44	1.22	5.11	7.3	U	ND	Y
0.0	2.000	0.33	0.41	1.40	2.44	1.22	4.21	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.43	2.44	1.05	4.29	7.3	U	ND	Y
42.8	2.000	0.33	0.41	1.30	2.44	1.22	3.90	7.3		=	Y
0.0	2.000	0.33	0.41	1.40	2.44	1.22	4.21	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.43	2.44	1.05	4.29	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.43	2.44	1.05	4.29	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.43	2.44	1.05	4.29	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.40	2.44	1.05	4.21	7.3	U	ND	Y
0.0	2.000	0.33	0.41	1.70	2.44	1.22	5.11	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.43	2.44	0.91	4.28	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.43	2.44	1.05	4.29	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.40	2.44	1.05	4.21	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.43	2.44	0.91	4.28	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.43	2.44	0.91	4.28	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.43	2.44	0.91	4.28	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.32	2.44	1.05	3.95	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.43	2.44	0.91	4.28	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.43	2.44	0.91	4.28	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.43	2.44	0.91	4.28	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.43	2.44	0.91	4.28	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.43	2.44	0.91	4.28	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.40	2.44	0.91	4.21	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.43	2.44	0.91	4.28	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.33	2.44	0.91	3.98	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.33	2.44	0.91	3.98	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.30	2.44	0.91	3.91	7.3	U	ND	Y
0.0	2.000	0.25	0.30	1.33	2.44	0.91	3.98	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.40	2.44	0.81	4.20	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.42	2.44	0.81	4.27	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.44	0.81	4.00	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.44	0.81	4.00	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.36	2.44	0.73	4.08	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.44	0.81	4.00	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.44	0.81	4.00	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.44	0.81	4.00	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.44	0.81	4.00	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.36	2.44	0.73	4.08	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.44	0.81	4.00	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.42	2.44	0.73	4.27	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.33	2.44	0.81	4.00	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.31	2.44	0.81	3.94	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.36	2.44	0.73	4.08	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.44	0.73	4.02	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.44	0.73	4.02	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.44	0.73	4.02	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.44	0.73	4.02	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.44	0.73	4.02	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.44	0.73	4.02	7.3	U	ND	Y
0.0	2.000	0.18	0.22	1.42	2.44	0.67	4.26	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.44	0.73	4.02	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.44	0.73	4.02	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.28	2.44	0.73	3.84	7.3	U	ND	Y

0.0	2.000	0.17	0.20	1.42	2.44	0.61	4.26	7.3	U	ND	Y
%											Y
100.0	45.00	7.5	9.15	32.31	54.88	27.4	96.9	164.6	J	=	Y
100.0	45.00	45.0	54.88	35.98	54.88	164.6	108.0	164.6	J	=	Y
100.0	45.00	5.9	7.22	29.59	54.88	21.7	88.8	164.6	J	=	Y
100.0	45.00	6.4	7.84	30.52	54.88	23.5	91.6	164.6	J	=	Y
100.0	45.00	3.0	3.66	29.69	54.88	11.0	89.1	164.6	J	=	Y
100.0	45.00	7.5	9.15	32.31	54.88	27.4	96.9	164.6	J	=	Y
100.0	45.00	6.4	7.84	29.60	54.88	23.5	88.8	164.6	J	=	Y
100.0	45.00	45.0	54.88	35.98	54.88	164.6	108.0	164.6	J	=	Y
100.0	45.00	3.5	4.22	30.62	54.88	12.7	91.9	164.6	J	=	Y
100.0	45.00	5.6	6.86	33.12	54.88	20.6	99.4	164.6	J	=	Y
0.0	45.00	7.5	9.15	32.31	54.88	27.4	96.9	164.6	U	ND	Y
0.0	25.000	3.6	4.36	16.96	30.49	13.1	50.9	91.5	U	ND	Y
%											Y
46.4											Y
24.6											Y
3.3											Y
63.3											Y
3.2											Y
5.6											Y
0.0											Y
%											Y
67.6	5.000	2.5	3.05	3.76	6.10	9.1	11.3	18.3	J	=	Y
32.4	5.000	1.7	2.03	3.67	6.10	6.1	11.0	18.3	J	=	Y
0.0	25.000	6.3	7.62	18.15	30.49	22.9	54.5	91.5	U	ND	Y
0.0	25.000	5.0	6.10	18.03	30.49	18.3	54.1	91.5	U	ND	Y
0.0	25.000	4.2	5.08	17.95	30.49	15.2	53.9	91.5	U	ND	Y
0.0	25.000	3.6	4.36	17.88	30.49	13.1	53.7	91.5	U	ND	Y
0.0	25.000	3.1	3.81	17.84	30.49	11.4	53.5	91.5	U	ND	Y
0.0	25.000	2.8	3.39	17.81	30.49	10.2	53.4	91.5	U	ND	Y
0.0	25.000	2.5	3.05	17.78	30.49	9.1	53.3	91.5	U	ND	Y
0.0	25.000	2.3	2.77	17.75	30.49	8.3	53.3	91.5	U	ND	Y
0.0	25.000	2.1	2.54	17.73	30.49	7.6	53.2	91.5	U	ND	Y
0.0	25.000	2.1	2.54	17.73	30.49	7.6	53.2	91.5	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.22	3.61	7.32	3.7	10.8	22.0			Y
0.0	6.0	0.9	1.05	4.29	7.32	3.1	12.9	22.0			Y
0.0	6.0	0.7	0.81	4.27	7.32	2.4	12.8	22.0			Y
0.0	6.0	0.5	0.67	3.89	7.32	2.0	11.7	22.0			Y
0.0	6.0	0.7	0.81	3.80	7.32	2.4	11.4	22.0			Y
0.0	6.0	0.5	0.67	3.88	7.32	2.0	11.6	22.0			Y
2.3	2.0	0.3	0.41	1.44	2.44	1.2	4.3	7.3	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					2.3		2.28		
					0.0			0.00	
10.5						10.50			
					0.0		0.00		
6.1						6.13			
		0.0				0.00			
					0.0				
					0.0		0.00		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		0.0				0.00			
					0.0		0.00		
					0.0				
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					1.5		1.50		
					0.0		0.00		
					0.0				
					0.0		0.00		
		2.3				2.26			
			0.0						0.00
					0.0				
			2.2						2.19
					0.0				
		0.0				0.00			
		0.0				0.00			
		0.0				0.00			
					0.0		0.00		
0.0						0.00			
					0.0				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16.6	2.3	42.8	2.2	3.8	0.0	18.9	3.8	0.0	2.2

0.00	2.26		
0.00	0.00		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
		0.00			
	0.00				
	0.00				
	0.00				
			0.00		
			0.00		

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0.0	0.0	0.0	0.0	42.8	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**43**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.22
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.14E+04	1469	2.3	1.14	1.31
Acetylene	2	TRG	26.0	2.14E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.14E+04	6753	10.5	5.25	6.47
Propene	3	TRG	4.5	2.14E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.14E+04	3943	6.1	2.04	3.69
i-Butane	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.14E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.14E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.14E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.14E+04	968	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.14E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.14E+04	1451	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.14E+04	1410	1.5	0.30	0.86
2,3-Dimethylbutane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.14E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.14E+04	0	2.3	0.38	1.33
Methylcyclopentane	5	TRG	68.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.14E+04	27534	2.2	0.44	1.26
Cyclohexane	5	TRG	88.2	2.14E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.14E+04	0	42.8	7.13	22.83	
2-Methylheptane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.14E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.14E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.14E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.14E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.14E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.14E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.14E+04	93901	146.0	24.33	85.95	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.14E+04	93901	146.0	145.97	95.72	
Total Volatile Organic Compoun	8	TRG	100.0	2.14E+04	93901	146.0	19.21	78.72	
TPH (gasoline)	7	TRG	95.0	2.14E+04	93901	146.0	20.85	81.19	
TPH (diesel)	15	TRG	198.0	2.14E+04	93901	146.0	9.73	78.97	
TPH (hexane)	6	TRG	86.2	2.14E+04	93901	146.0	24.33	85.95	
TPH (toluene)	7	TRG	92.1	2.14E+04	93901	146.0	20.85	78.74	
TPH (methane)	1	TRG	16.0	2.14E+04	93901	146.0	145.97	95.72	
TPH (Jet A Fuel)	13	TRG	177.0	2.14E+04	93901	146.0	11.23	81.45	
TPH (Mineral Spirits)	8	TRG	117.8	2.14E+04	93901	146.0	18.25	88.10	
C6+ (hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.14E+04		67.7			Sum ID
Paraffins	P	TRG	0.0	2.14E+04		16.6			Sum P
Isoparaffins	I	TRG	0.0	2.14E+04		2.3			Sum I
Aromatics	A	TRG	0.0	2.14E+04		42.8			Sum A
Napthlenes	N	TRG	0.0	2.14E+04		2.2			Sum N
Olefins	O	TRG	0.0	2.14E+04		3.8			Sum O
Oxygenates		TRG	0.0	2.14E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.14E+04	8222	12.8	6.39	7.88	
C3 (propane)	3	TRG	44.1	2.14E+04	3943	6.1	2.04	3.69	
C4 (Butane)	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.14E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.14E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.14E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.14E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.14E+04	12165	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 44

File Name: 2510044A
Description: T-308
Canister: 661
QC_Batch: 040225-GCK

Date Sampled: 03/21/25 **Time:** 9:18
Date Analyzed: 04/02/25 **Time:** 14:33
Can Factor: 1.22
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.22	3.66	1.57	1.41	4.22	1.81	J
74-86-2	Acetylene	1.22	3.66	ND	1.30	3.90	ND	ND
74-84-0	Ethane	1.22	3.66	4.72	1.51	4.52	5.82	
115-07-1	Propene	0.81	2.44	1.09	1.40	4.21	1.88	J
74-98-6	Propane	0.81	2.44	11.59	1.47	4.41	20.95	
75-28-5	i-Butane	0.61	1.83	ND	1.45	4.36	ND	ND
106-98-9	1-Butene	0.61	1.83	ND	1.40	4.21	ND	ND
106-97-8	n-Butane	0.61	1.83	8.51	1.45	4.36	20.26	
624-64-6	t-2-Butene	0.61	1.83	ND	1.40	4.21	ND	ND
590-18-1	c-2-Butene	0.61	1.83	ND	1.40	4.21	ND	ND
78-78-4	i-Pentane	0.49	1.46	2.65	1.44	4.33	7.83	
109-67-1	1-Pentene	0.49	1.46	0.92	1.40	4.21	2.65	J
109-66-0	n-Pentane	0.49	1.46	1.66	1.44	4.33	4.91	
646-04-8	t-2-Pentene	0.49	1.46	ND	1.40	4.21	ND	ND
627-20-3	c-2-Pentene	0.49	1.46	ND	1.40	4.21	ND	ND
75-83-2	2,2-Dimethylbutane	0.41	1.22	ND	1.44	4.31	ND	ND
142-29-0	Cyclopentene	0.49	1.46	ND	1.36	4.09	ND	ND
287-92-3	Cyclopentane	0.49	1.46	3.57	1.40	4.21	10.27	
79-29-8	2,3-Dimethylbutane	0.41	1.22	ND	1.44	4.31	ND	ND
107-83-5	2-Methylpentane	0.41	1.22	ND	1.44	4.31	ND	ND
96-14-0	3-Methylpentane	0.41	1.22	ND	1.44	4.31	ND	ND
592-41-6	1-Hexene	0.41	1.22	ND	1.40	4.21	ND	ND
110-54-3	n-Hexane	0.41	1.22	ND	1.44	4.31	ND	ND
1120-62-3	3-Methylcyclopentene	0.41	1.22	ND	1.37	4.11	ND	ND
96-37-7	Methylcyclopentane	0.41	1.22	ND	1.40	4.21	ND	ND
108-08-7	2,4-Dimethylpentane	0.35	1.05	ND	1.43	4.30	ND	ND
71-43-2	Benzene	0.41	1.22	ND	1.30	3.91	ND	ND
110-82-7	Cyclohexane	0.41	1.22	ND	1.40	4.21	ND	ND
591-76-4	2-Methylhexane	0.35	1.05	ND	1.43	4.30	ND	ND
565-59-3	2,3-Dimethylpentane	0.35	1.05	ND	1.43	4.30	ND	ND
589-34-4	3-Methylhexane	0.35	1.05	ND	1.43	4.30	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.31	0.92	ND	1.43	4.28	ND	ND
142-82-5	n-Heptane	0.35	1.05	ND	1.43	4.30	ND	ND
108-87-2	Methylcyclohexane	0.35	1.05	ND	1.40	4.21	ND	ND
592-13-2	2,5-Dimethylhexane	0.31	0.92	ND	1.43	4.28	ND	ND
589-43-5	2,4-Dimethylhexane	0.31	0.92	ND	1.43	4.28	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.31	0.92	ND	1.43	4.28	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.05	ND	1.32	3.95	ND	ND
584-94-1	2,3-Dimethylhexane	0.31	0.92	ND	1.43	4.28	ND	ND
592-27-8	2-Methylheptane	0.31	0.92	ND	1.43	4.28	ND	ND
589-53-7	4-Methylheptane	0.31	0.92	ND	1.43	4.28	ND	ND
589-81-1	3-Methylheptane	0.31	0.92	ND	1.43	4.28	ND	ND
111-65-9	n-Octane	0.31	0.92	ND	1.43	4.28	ND	ND
100-41-4	Ethylbenzene	0.31	0.92	ND	1.33	3.98	ND	ND
108-38-3	m,p-xylene	0.31	0.92	ND	1.33	3.98	ND	ND
100-42-5	Styrene	0.31	0.92	ND	1.30	3.91	ND	ND
95-47-6	o-xylene	0.31	0.92	ND	1.33	3.98	ND	ND
111-84-2	n-Nonane	0.27	0.81	ND	1.43	4.28	ND	ND
98-82-8	i-Propylbenzene	0.27	0.81	ND	1.34	4.01	ND	ND
103-65-1	n-propylbenzene	0.27	0.81	ND	1.34	4.01	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.81	ND	1.34	4.01	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.81	ND	1.34	4.01	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.81	ND	1.34	4.01	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.81	ND	1.34	4.01	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.81	ND	1.34	4.01	ND	ND
124-18-5	n-Decane	0.24	0.73	ND	1.42	4.27	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.81	ND	1.34	4.01	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.73	ND	1.34	4.03	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.73	ND	1.34	4.03	ND	ND
104-51-8	n-Butylbenzene	0.24	0.73	ND	1.34	4.03	ND	ND
1120-21-4	Undecane	0.22	0.67	ND	1.42	4.26	ND	ND
91-20-3	Naphthalene	0.24	0.73	ND	1.28	3.85	ND	ND
112-40-3	Dodecane	0.20	0.61	ND	1.42	4.26	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.15	27.46	52.12	32.33	97.00	184.14	
TNMHC - C1	Total Non-Methane Hydrocarbons	54.92	164.75	312.73	36.01	108.03	205.07	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **44**
File Name: **2510044A**
Sample ID: **T-308**
Sampled: **3/21/2025**
Received: **03/21/25**
Analyzed: **04/02/25**
QCBatch: **040225-GCK**
Can: **661**
Can Factor: **1.22**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **9:18** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **14:33** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **385895**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C5 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.12	**4.08**	2018	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.16			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.23**	6063	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**4.65**	2101	O	O	L	241	290
74-98-6	Propane	P	5.20	**5.20**	**5.25**	22348	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.65**						132	351
67-56-1	Methanol		8.30	8.35						132	401
106-98-9	1-Butene	P	7.29	7.34	**7.28**	1378	I	I	H	365	367
106-99-0	1,3-Butadiene		**7.48**	7.53						132	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.37**	21882	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.78	**8.70**		I	I	H	408	410
590-18-1	c-2-Butene	P	9.63	9.66						197	431
64-17-5	Ethanol		10.85	10.87						197	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.07						197	465
67-64-1	Acetone		11.52	11.54						197	476
78-78-4	i-Pentane	P	11.37	11.39	**11.43**	8505	I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.32	**12.39**	2961	I	I	H	497	495
67-63-0	Isopropanol		12.65	12.67						197	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.38						197	497
109-66-0	n-Pentane	P	12.48	**12.50**	**12.50**	5340	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.57						160	503
646-04-8	t-2-Pentene	P	12.79	12.81	**12.93**		O	I	M	512	510
627-20-3	c-2-Pentene	P	13.08	13.10						160	518
75-65-0	Tert butyl alcohol		**13.55**	13.57						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.64						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.79	**13.81**	1184	I	I	H	536	537
142-29-0	Cyclopentene	15	**14.61**	14.63						160	551
71-23-8	n-Propanol		**14.75**	14.77						160	558
287-92-3	Cyclopentane	P	14.88	14.90	**14.81**	11485	I	O	M	563	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.02						160	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.08						160	570
107-83-5	2-Methylpentane	P	15.08	15.10						160	571
96-14-0	3-Methylpentane	P	15.55	15.57	**15.62**		I	I	H	585	583
592-41-6	1-Hexene	P	**15.80**	15.82						160	590
110-54-3	n-Hexane	P	16.17	**16.19**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						101	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						101	626
71-43-2	Benzene		P	17.87	**17.87**	**17.92**		I	O	M	654	651
110-82-7	Cyclohexane		P	18.14	18.19						101	658
591-76-4	2-Methylhexane		P	18.38	18.43						101	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.50						101	671
589-34-4	3-Methylhexane		P	18.66	18.71						101	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.80						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.85						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.14						101	690
142-82-5	n-Heptane		P	19.41	19.46	**19.41**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.14						21	722
592-13-2	2,5-Dimethylhexane			20.35	20.40						21	734
589-43-5	2,4-Dimethylhexane			20.43	20.48						21	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.98						21	753
108-88-3	Toluene		P	21.12	**21.17**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						21	763
592-27-8	2-Methylheptane		P	21.33	21.33						21	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						21	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						21	772
589-81-1	3-Methylheptane		p	21.55	21.55						21	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						21	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75						-57	855
108-38-3	m,p-xylene		P	23.95	23.95						-57	863
100-42-5	Styrene		P	24.40	24.40						-57	881
95-47-6	o-xylene		P	24.57	24.57						-57	886
124-11-8	1-Nonene	64		24.60	24.60						-57	889
111-84-2	n-Nonane		P	24.87	24.87	**24.87**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36						-141	919
103-65-1	n-propylbenzene		P	25.93	25.93	**25.95**		I	I	H	945	947
80-56-8	a-Pinene			26.09	26.09						-141	950
620-14-4	3-Ethyltoluene		P	26.17	26.17	**26.13**		I	O	M	953	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-141	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45						-141	964
611-14-3	2-Ethyltoluene		P	26.61	26.61						-141	975
127-91-3	b-Pinene			26.80	26.80						-141	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08	**27.02**		I	I	H	990	991
124-18-5	n-Decane		P	27.26	27.26	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-48	1014
496-11-7	Indan	81		27.55	27.55						-48	1020
5989-27-5	d-Limonene			27.65	27.65						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10	**28.12**		I	I	H	1033	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-48	1037
104-51-8	n-Butylbenzene			28.45	28.45						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					201026		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					201026		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					201026		0			
TVOC	Total Volatile Organic Compounds					201026		0			
TPH(g)	TPH (gasoline)					201026		0			
TPH(d)	TPH (diesel)					201026		0			
TPH(h)	TPH (hexane)					201026		0			
TPH(t)	TPH (toluene)					201026		0			
TPHC	TPH (methane)					201026		0			
TPH(Jet A)	TPH (Jet A Fuel)					201026		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					201026					
C6+	**C6+ (hexane)**		16.17	16.19	16.17	**0**		Sum from	16.19	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			8081		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			24449		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**32530**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040225-GCK		
Hexane Std Area:	385895		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.22	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.22		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	3.14	1.57	1.81	3.14	1.57	1.81	1.81	1.81
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	9.43	4.72	5.82	9.43	4.72	5.82	5.82	5.82
Propene	42.1	3	3.27	1.09	1.88	3.27	1.09	1.88	1.88	1.88
Propane	44.1	3	34.77	11.59	20.95	34.77	11.59	20.95	20.95	20.95
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	2.14	0.54	1.23	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	34.04	8.51	20.26	34.04	8.51	20.26	20.26	20.26
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	13.23	2.65	7.83	13.23	2.65	7.83	7.83	7.83
1-Pentene	70.1	5	4.61	0.92	2.65	4.61	0.92	2.65	2.65	2.65
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	8.31	1.66	4.91	8.31	1.66	4.91	4.91	4.91
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	1.84	0.31	1.08	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	17.87	3.57	10.27	17.87	3.57	10.27	10.27	10.27
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	312.73	52.1	184.1	312.73	52.12	184.14	184.14	184.14
Total Non-Methane Hydrocarbons	16	1.0	312.73	312.7	205.1	312.73	312.73	205.07	205.07	205.07
Total Volatile Organic Compounds	100	7.6	312.73	41.1	168.6	312.73	41.15	168.64	168.64	168.64
TPH (gasoline)	95	7.0	312.73	44.7	173.9	312.73	44.68	173.94	173.94	173.94
TPH (diesel)	198	15.0	312.73	20.8	169.2	312.73	20.85	169.18	169.18	169.18
TPH (hexane)	86.2	6.0	312.73	52.1	184.1	312.73	52.12	184.14	184.14	184.14
TPH (toluene)	92.14	7.0	312.73	44.7	168.7	312.73	44.68	168.71	168.71	168.71
TPH (methane)	16	1.0	312.73	312.7	205.1	312.73	312.73	205.07	205.07	205.07
TPH (Jet A Fuel)	177	13.0	312.73	24.1	174.5	312.73	24.06	174.51	174.51	174.51
TPH (Mineral Spirits)	117.81	8.0	312.73	39.1	188.7	312.73	39.09	188.74	188.74	188.74
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			132.6	37.1						
Paraffins			86.5							
Isoparaffins			15.1							
Aromatics			0.0							
Napthlenes			17.9							
Olefins			13.2							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	12.57	6.29	7.75	12.57	6.29	7.75	7.75	7.75
C3 (propane)	44.1	3	38.03	12.68	22.91	38.03	12.68	22.91	22.91	22.91
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			50.6							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	8.3	1.38	4.09					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	1.8	0.31	1.08					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	101.6	76.6
Alkenes	13.2	9.9
Alkynes	0.0	0.0
Cycloalkanes	17.9	13.5
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	0.0	0.0
Terpenes	0.0	0.0

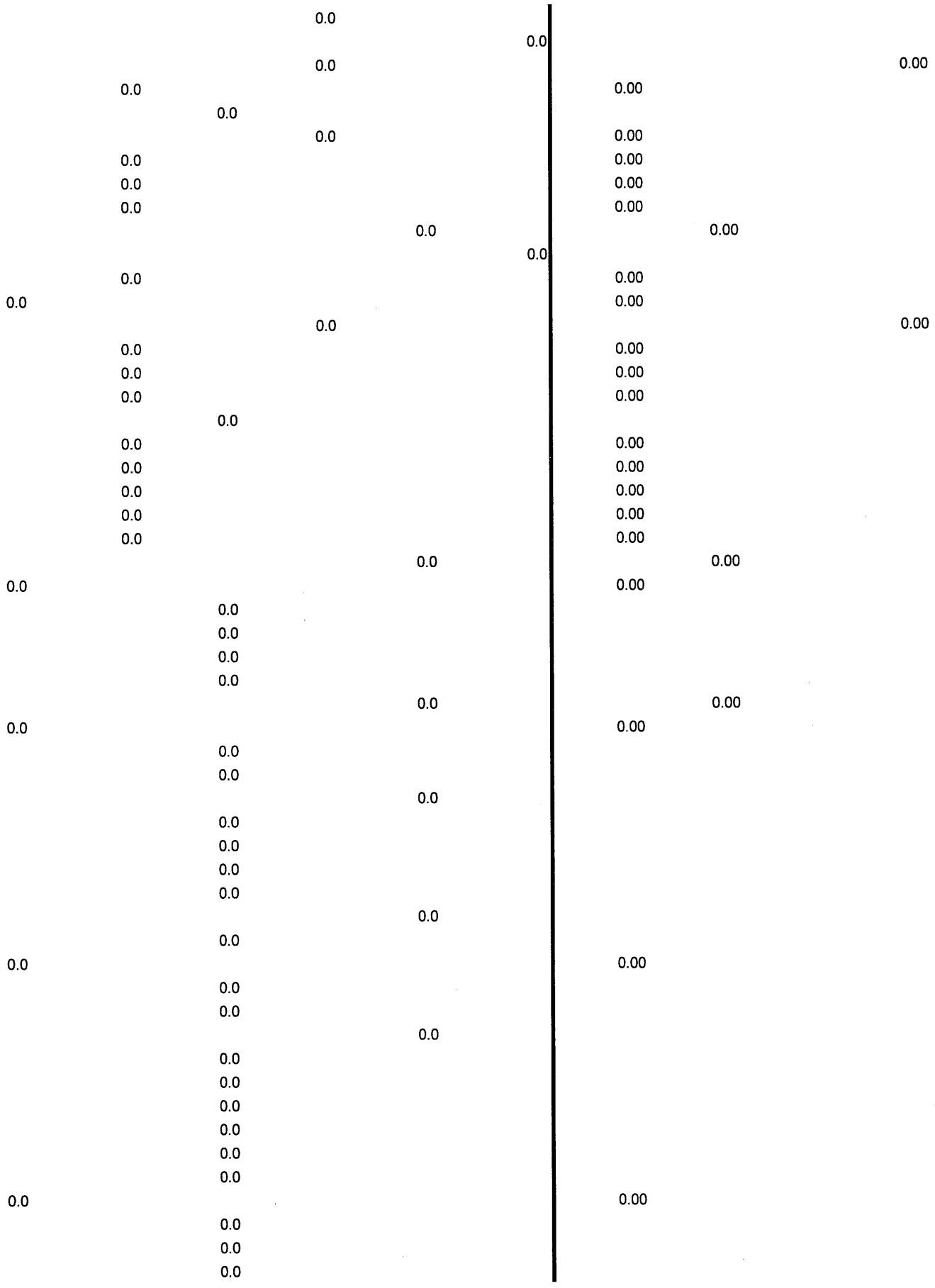
SDG: **225100**
Laboratory Number: **44**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
4.2	2.000	1.00	1.22	1.41	2.44	3.66	4.22	7.3	J	=		Y
0.0	2.000	1.00	1.22	1.30	2.44	3.66	3.90	7.3	U	ND		Y
12.7	2.000	1.00	1.22	1.51	2.44	3.66	4.52	7.3		=		Y
2.9	2.000	0.67	0.81	1.40	2.44	2.44	4.21	7.3	J	=		Y
31.2	2.000	0.67	0.81	1.47	2.44	2.44	4.41	7.3		=		Y
0.0	2.000	0.50	0.61	1.45	2.44	1.83	4.36	7.3	U	ND		Y
0.0	2.000	2.00	2.44	3.20	2.44	7.32	9.60	7.3	U	ND		Y
1.4	2.000	0.50	0.61	1.40	2.44	1.83	4.21	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.35	2.44	1.83	4.06	7.3	U	ND		Y
22.9	2.000	0.50	0.61	1.45	2.44	1.83	4.36	7.3		=		Y
0.0	2.000	0.50	0.61	1.40	2.44	1.83	4.21	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.40	2.44	1.83	4.21	7.3	U	ND		Y
0.0	2.000	1.00	1.22	2.31	2.44	3.66	6.92	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.40	2.44	1.46	4.21	7.3	U	ND		Y
0.0	2.000	0.67	0.81	1.94	2.44	2.44	5.81	7.3	U	ND		Y
7.1	2.000	0.40	0.49	1.44	2.44	1.46	4.33	7.3		=		Y
2.5	2.000	0.40	0.49	1.40	2.44	1.46	4.21	7.3	J	=		Y
0.0	2.000	0.67	0.81	2.00	2.44	2.44	6.01	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.40	2.44	1.46	4.21	7.3	U	ND		Y
4.5	2.000	0.40	0.49	1.44	2.44	1.46	4.33	7.3		=		Y
0.0	2.000	0.40	0.49	1.36	2.44	1.46	4.09	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.40	2.44	1.46	4.21	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.40	2.44	1.46	4.21	7.3	U	ND		Y
0.0	2.000	0.50	0.61	1.85	2.44	1.83	5.56	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.40	2.44	1.46	4.21	7.3	U	ND		Y
0.8	2.000	0.33	0.41	1.44	2.44	1.22	4.31	7.3	U	ND		Y
0.0	2.000	0.40	0.49	1.36	2.44	1.46	4.09	7.3	U	ND		Y
0.0	2.000	0.67	0.81	2.00	2.44	2.44	6.01	7.3	U	ND		Y
9.6	2.000	0.40	0.49	1.40	2.44	1.46	4.21	7.3		=		Y
0.0	2.000	0.40	0.49	1.76	2.44	1.46	5.29	7.3	U	ND		Y
0.0	2.000	0.33	0.41	1.44	2.44	1.22	4.31	7.3	U	ND		Y
0.0	2.000	0.33	0.41	1.44	2.44	1.22	4.31	7.3	U	ND		Y
0.0	2.000	0.33	0.41	1.44	2.44	1.22	4.31	7.3	U	ND		Y
0.0	2.000	0.33	0.41	1.40	2.44	1.22	4.21	7.3	U	ND		Y
0.0	2.000	0.33	0.41	1.44	2.44	1.22	4.31	7.3	U	ND		Y
0.0	2.000	0.33	0.41	1.70	2.44	1.22	5.11	7.3	U	ND		Y

0.0	2.000	0.33	0.41	1.37	2.44	1.22	4.11	7.3	U	ND	Y
0.0	2.000	0.33	0.41	1.70	2.44	1.22	5.11	7.3	U	ND	Y
0.0	2.000	0.33	0.41	1.40	2.44	1.22	4.21	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.43	2.44	1.05	4.30	7.3	U	ND	Y
0.0	2.000	0.33	0.41	1.30	2.44	1.22	3.91	7.3	U	ND	Y
0.0	2.000	0.33	0.41	1.40	2.44	1.22	4.21	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.43	2.44	1.05	4.30	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.43	2.44	1.05	4.30	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.43	2.44	1.05	4.30	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.40	2.44	1.05	4.21	7.3	U	ND	Y
0.0	2.000	0.33	0.41	1.70	2.44	1.22	5.11	7.3	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.44	0.92	4.28	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.43	2.44	1.05	4.30	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.40	2.44	1.05	4.21	7.3	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.44	0.92	4.28	7.3	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.44	0.92	4.28	7.3	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.44	0.92	4.28	7.3	U	ND	Y
0.0	2.000	0.29	0.35	1.32	2.44	1.05	3.95	7.3	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.44	0.92	4.28	7.3	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.44	0.92	4.28	7.3	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.44	0.92	4.28	7.3	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.44	0.92	4.28	7.3	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.44	0.92	4.28	7.3	U	ND	Y
0.0	2.000	0.25	0.31	1.40	2.44	0.92	4.21	7.3	U	ND	Y
0.0	2.000	0.25	0.31	1.43	2.44	0.92	4.28	7.3	U	ND	Y
0.0	2.000	0.25	0.31	1.33	2.44	0.92	3.98	7.3	U	ND	Y
0.0	2.000	0.25	0.31	1.33	2.44	0.92	3.98	7.3	U	ND	Y
0.0	2.000	0.25	0.31	1.30	2.44	0.92	3.91	7.3	U	ND	Y
0.0	2.000	0.25	0.31	1.33	2.44	0.92	3.98	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.40	2.44	0.81	4.21	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.43	2.44	0.81	4.28	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.44	0.81	4.01	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.44	0.81	4.01	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.36	2.44	0.73	4.09	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.44	0.81	4.01	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.44	0.81	4.01	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.44	0.81	4.01	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.44	0.81	4.01	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.36	2.44	0.73	4.09	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.44	0.81	4.01	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.42	2.44	0.73	4.27	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.34	2.44	0.81	4.01	7.3	U	ND	Y
0.0	2.000	0.22	0.27	1.31	2.44	0.81	3.94	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.36	2.44	0.73	4.09	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.44	0.73	4.03	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.44	0.73	4.03	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.44	0.73	4.03	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.44	0.73	4.03	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.44	0.73	4.03	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.44	0.73	4.03	7.3	U	ND	Y
0.0	2.000	0.18	0.22	1.42	2.44	0.67	4.26	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.44	0.73	4.03	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.34	2.44	0.73	4.03	7.3	U	ND	Y
0.0	2.000	0.20	0.24	1.28	2.44	0.73	3.85	7.3	U	ND	Y

0.0	2.000	0.17	0.20	1.42	2.44	0.61	4.26	7.3	U	ND	Y
%											Y
100.0	45.00	7.5	9.15	32.33	54.92	27.5	97.0	164.7		=	Y
100.0	45.00	45.0	54.92	36.01	54.92	164.7	108.0	164.7		=	Y
100.0	45.00	5.9	7.23	29.61	54.92	21.7	88.8	164.7		=	Y
100.0	45.00	6.4	7.85	30.54	54.92	23.5	91.6	164.7		=	Y
100.0	45.00	3.0	3.66	29.71	54.92	11.0	89.1	164.7		=	Y
100.0	45.00	7.5	9.15	32.33	54.92	27.5	97.0	164.7		=	Y
100.0	45.00	6.4	7.85	29.63	54.92	23.5	88.9	164.7		=	Y
100.0	45.00	45.0	54.92	36.01	54.92	164.7	108.0	164.7		=	Y
100.0	45.00	3.5	4.22	30.64	54.92	12.7	91.9	164.7		=	Y
100.0	45.00	5.6	6.86	33.14	54.92	20.6	99.4	164.7		=	Y
0.0	45.00	7.5	9.15	32.33	54.92	27.5	97.0	164.7	U	ND	Y
0.0	25.000	3.6	4.36	16.97	30.51	13.1	50.9	91.5	U	ND	Y
%											Y
42.4											Y
65.2											Y
11.4											Y
0.0											Y
13.5											Y
9.9											Y
0.0											Y
%											Y
24.8	5.000	2.5	3.05	3.76	6.10	9.2	11.3	18.3	J	=	Y
75.2	5.000	1.7	2.03	3.68	6.10	6.1	11.0	18.3		=	Y
0.0	25.000	6.3	7.63	18.17	30.51	22.9	54.5	91.5	U	ND	Y
0.0	25.000	5.0	6.10	18.04	30.51	18.3	54.1	91.5	U	ND	Y
0.0	25.000	4.2	5.08	17.96	30.51	15.3	53.9	91.5	U	ND	Y
0.0	25.000	3.6	4.36	17.90	30.51	13.1	53.7	91.5	U	ND	Y
0.0	25.000	3.1	3.81	17.85	30.51	11.4	53.5	91.5	U	ND	Y
0.0	25.000	2.8	3.39	17.82	30.51	10.2	53.5	91.5	U	ND	Y
0.0	25.000	2.5	3.05	17.79	30.51	9.2	53.4	91.5	U	ND	Y
0.0	25.000	2.3	2.77	17.77	30.51	8.3	53.3	91.5	U	ND	Y
0.0	25.000	2.1	2.54	17.74	30.51	7.6	53.2	91.5	U	ND	Y
0.0	25.000	2.1	2.54	17.74	30.51	7.6	53.2	91.5	U	ND	Y
100.0											Y
											Y
2.7	6.0	1.0	1.22	3.61	7.32	3.7	10.8	22.0			Y
0.0	6.0	0.9	1.05	4.30	7.32	3.1	12.9	22.0			Y
0.0	6.0	0.7	0.81	4.28	7.32	2.4	12.8	22.0			Y
0.0	6.0	0.5	0.67	3.90	7.32	2.0	11.7	22.0			Y
0.0	6.0	0.7	0.81	3.81	7.32	2.4	11.4	22.0			Y
0.0	6.0	0.5	0.67	3.88	7.32	2.0	11.6	22.0			Y
0.8	2.0	0.3	0.41	1.44	2.44	1.2	4.3	7.3	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					3.1		3.14		
					0.0			0.00	
9.4						9.43			
					3.3		3.27		
34.8						34.77			
		0.0				0.00			
					0.0				
					2.1		2.14		
					0.0		0.00		
34.0						34.04			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		13.2				13.23			
					4.6		4.61		
					0.0				
					0.0		0.00		
8.3						8.31			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		1.8				1.84			
			0.0						0.00
					0.0				
			17.9						17.87
					0.0				
		0.0				0.00			
		0.0				0.00			
		0.0				0.00			
					0.0		0.00		
0.0						0.00			
					0.0				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86.5	15.1	0.0	17.9	13.2	0.0	101.6	13.2	0.0	17.9

8.31	1.84		
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		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
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SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**
Laboratory Number:		**44**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.22
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons (Avg RFn) × Ansamp SV × CDF × 1000 = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.14E+04	2018	3.1	1.57	1.81
Acetylene	2	TRG	26.0	2.14E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.14E+04	6063	9.4	4.72	5.82
Propene	3	TRG	4.5	2.14E+04	4	3.3	1.09	1.88
Propane	3	TRG	44.1	2.14E+04	22348	34.8	11.59	20.95
i-Butane	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.14E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.14E+04	1378	2.1	0.54	1.23
n-Butane	4	TRG	54.1	2.14E+04	21882	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.14E+04	0	34.0	8.51	20.26
c-2-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.14E+04	8505	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.14E+04	2961	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.14E+04	0	13.2	2.65	7.83
n-Pentane	5	TRG	70.1	2.14E+04	5340	4.6	0.92	2.65
Isoprene	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.14E+04	0	8.3	1.66	4.91
2,2-Dimethylbutane	5	TRG	68.1	2.14E+04	1184	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.14E+04	11485	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.14E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.14E+04	0	1.8	0.31	1.08
Methylcyclopentane	5	TRG	68.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.14E+04	0	17.9	3.57	10.27
Cyclohexane	5	TRG	88.2	2.14E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.14E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.14E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.14E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.14E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.14E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.14E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.14E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.14E+04	201026	312.7	52.12	184.14	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.14E+04	201026	312.7	312.73	205.07	
Total Volatile Organic Compoun	8	TRG	100.0	2.14E+04	201026	312.7	41.15	168.64	
TPH (gasoline)	7	TRG	95.0	2.14E+04	201026	312.7	44.68	173.94	
TPH (diesel)	15	TRG	198.0	2.14E+04	201026	312.7	20.85	169.18	
TPH (hexane)	6	TRG	86.2	2.14E+04	201026	312.7	52.12	184.14	
TPH (toluene)	7	TRG	92.1	2.14E+04	201026	312.7	44.68	168.71	
TPH (methane)	1	TRG	16.0	2.14E+04	201026	312.7	312.73	205.07	
TPH (Jet A Fuel)	13	TRG	177.0	2.14E+04	201026	312.7	24.06	174.51	
TPH (Mineral Spirits)	8	TRG	117.8	2.14E+04	201026	312.7	39.09	188.74	
C6+ (hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.14E+04		132.6			Sum ID
Paraffins	P	TRG	0.0	2.14E+04		86.5			Sum P
Isoparaffins	I	TRG	0.0	2.14E+04		15.1			Sum I
Aromatics	A	TRG	0.0	2.14E+04		0.0			Sum A
Napthlenes	N	TRG	0.0	2.14E+04		17.9			Sum N
Olefins	O	TRG	0.0	2.14E+04		13.2			Sum O
Oxygenates		TRG	0.0	2.14E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.14E+04	8081	12.6	6.29	7.75	
C3 (propane)	3	TRG	44.1	2.14E+04	24449	38.0	12.68	22.91	
C4 (Butane)	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.14E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.14E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.14E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.14E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.14E+04	32530	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 45

File Name: 2510045A
Description: T-309
Canister: 579
QC_Batch: 040225-GCK

Date Sampled: 03/21/25 **Time:** 9:24
Date Analyzed: 04/02/25 **Time:** 15:17
Can Factor: 1.21
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.21	3.62	ND	1.39	4.17	ND	ND
74-86-2	Acetylene	1.21	3.62	ND	1.29	3.86	ND	ND
74-84-0	Ethane	1.21	3.62	5.03	1.49	4.47	6.20	
115-07-1	Propene	0.81	2.42	ND	1.39	4.17	ND	ND
74-98-6	Propane	0.81	2.42	7.63	1.46	4.37	13.80	
75-28-5	i-Butane	0.60	1.81	ND	1.44	4.31	ND	ND
106-98-9	1-Butene	0.60	1.81	ND	1.39	4.17	ND	ND
106-97-8	n-Butane	0.60	1.81	4.23	1.44	4.31	10.06	
624-64-6	t-2-Butene	0.60	1.81	ND	1.39	4.17	ND	ND
590-18-1	c-2-Butene	0.60	1.81	ND	1.39	4.17	ND	ND
78-78-4	i-Pentane	0.48	1.45	1.47	1.43	4.29	4.35	
109-67-1	1-Pentene	0.48	1.45	ND	1.39	4.16	ND	ND
109-66-0	n-Pentane	0.48	1.45	ND	1.43	4.28	ND	ND
646-04-8	t-2-Pentene	0.48	1.45	ND	1.39	4.16	ND	ND
627-20-3	c-2-Pentene	0.48	1.45	ND	1.39	4.16	ND	ND
75-83-2	2,2-Dimethylbutane	0.40	1.21	0.44	1.42	4.27	1.54	J
142-29-0	Cyclopentene	0.48	1.45	ND	1.35	4.05	ND	ND
287-92-3	Cyclopentane	0.48	1.45	2.49	1.39	4.16	7.14	
79-29-8	2,3-Dimethylbutane	0.40	1.21	ND	1.42	4.27	ND	ND
107-83-5	2-Methylpentane	0.40	1.21	ND	1.42	4.27	ND	ND
96-14-0	3-Methylpentane	0.40	1.21	ND	1.42	4.27	ND	ND
592-41-6	1-Hexene	0.40	1.21	ND	1.39	4.17	ND	ND
110-54-3	n-Hexane	0.40	1.21	ND	1.42	4.27	ND	ND
1120-62-3	3-Methylcyclopentene	0.40	1.21	ND	1.35	4.06	ND	ND
96-37-7	Methylcyclopentane	0.40	1.21	ND	1.39	4.17	ND	ND
108-08-7	2,4-Dimethylpentane	0.35	1.04	ND	1.42	4.25	ND	ND
71-43-2	Benzene	0.40	1.21	ND	1.29	3.87	ND	ND
110-82-7	Cyclohexane	0.40	1.21	ND	1.39	4.17	ND	ND
591-76-4	2-Methylhexane	0.35	1.04	ND	1.42	4.25	ND	ND
565-59-3	2,3-Dimethylpentane	0.35	1.04	ND	1.42	4.25	ND	ND
589-34-4	3-Methylhexane	0.35	1.04	ND	1.42	4.25	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	0.91	ND	1.41	4.24	ND	ND
142-82-5	n-Heptane	0.35	1.04	ND	1.42	4.25	ND	ND
108-87-2	Methylcyclohexane	0.35	1.04	ND	1.39	4.17	ND	ND
592-13-2	2,5-Dimethylhexane	0.30	0.91	ND	1.41	4.24	ND	ND
589-43-5	2,4-Dimethylhexane	0.30	0.91	ND	1.41	4.24	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.30	0.91	ND	1.41	4.24	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.35	1.04	ND	1.30	3.91	ND	ND
584-94-1	2,3-Dimethylhexane	0.30	0.91	ND	1.41	4.24	ND	ND
592-27-8	2-Methylheptane	0.30	0.91	ND	1.41	4.24	ND	ND
589-53-7	4-Methylheptane	0.30	0.91	ND	1.41	4.24	ND	ND
589-81-1	3-Methylheptane	0.30	0.91	ND	1.41	4.24	ND	ND
111-65-9	n-Octane	0.30	0.91	ND	1.41	4.24	ND	ND
100-41-4	Ethylbenzene	0.30	0.91	ND	1.31	3.94	ND	ND
108-38-3	m,p-xylene	0.30	0.91	ND	1.31	3.94	ND	ND
100-42-5	Styrene	0.30	0.91	ND	1.29	3.87	ND	ND
95-47-6	o-xylene	0.30	0.91	ND	1.31	3.94	ND	ND
111-84-2	n-Nonane	0.27	0.81	ND	1.41	4.23	ND	ND
98-82-8	i-Propylbenzene	0.27	0.81	ND	1.32	3.97	ND	ND
103-65-1	n-propylbenzene	0.27	0.81	ND	1.32	3.97	ND	ND
620-14-4	3-Ethyltoluene	0.27	0.81	ND	1.32	3.97	ND	ND
622-96-8	4-Ethyltoluene	0.27	0.81	ND	1.32	3.97	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.27	0.81	ND	1.32	3.97	ND	ND
611-14-3	2-Ethyltoluene	0.27	0.81	ND	1.32	3.97	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	0.81	ND	1.32	3.97	ND	ND
124-18-5	n-Decane	0.24	0.72	ND	1.41	4.23	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.27	0.81	ND	1.32	3.97	ND	ND
141-93-5	1,3-Diethylbenzene	0.24	0.72	ND	1.33	3.99	ND	ND
105-05-5	1,4-Diethylbenzene	0.24	0.72	ND	1.33	3.99	ND	ND
104-51-8	n-Butylbenzene	0.24	0.72	ND	1.33	3.99	ND	ND
1120-21-4	Undecane	0.22	0.66	ND	1.41	4.22	ND	ND
91-20-3	Naphthalene	0.24	0.72	ND	1.27	3.81	ND	ND
112-40-3	Dodecane	0.20	0.60	ND	1.41	4.22	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.06	27.18	30.07	32.01	96.02	106.22	
TNMHC - C1	Total Non-Methane Hydrocarbons	54.36	163.08	180.40	35.65	106.94	118.30	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **45**
File Name: **2510045A**
Sample ID: **T-309**
Sampled: **3/21/2025**
Received: **03/21/25**
Analyzed: **04/02/25**
QCBatch: **040225-GCK**
Can: **579**
Can Factor: **1.21**
Volume: **200.0**
Type: **SA**

Time: **9:24** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **15:17** MDL Fac: **1.0**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **385895**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C4 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.10	**3.46**	1318	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.14			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.21**	6528	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11						-201	290
74-98-6	Propane	P	5.20	**5.20**	**5.26**	14870	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.66**						131	351
67-56-1	Methanol		8.30	8.36						131	401
106-98-9	1-Butene	P	7.29	7.35	**7.28**	1433	I	I	H	365	367
106-99-0	1,3-Butadiene		**7.48**	7.54						131	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.38**	10979	I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.79						197	410
590-18-1	c-2-Butene	P	9.63	9.67						197	431
64-17-5	Ethanol		10.85	10.87						197	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.07						197	465
67-64-1	Acetone		11.52	11.54						197	476
78-78-4	i-Pentane	P	11.37	11.39	**11.43**	4778	I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.32						197	495
67-63-0	Isopropanol		12.65	12.67						197	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.38						197	497
109-66-0	n-Pentane	P	12.48	**12.50**	**12.50**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.57						160	503
646-04-8	t-2-Pentene	P	12.79	12.81	**12.93**		O	I	M	512	510
627-20-3	c-2-Pentene	P	13.08	13.10						160	518
75-65-0	Tert butyl alcohol		**13.55**	13.57						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.64						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.79	**13.83**	1695	I	I	H	536	537
142-29-0	Cyclopentene	15	**14.61**	14.63						160	551
71-23-8	n-Propanol		**14.75**	14.77						160	558
287-92-3	Cyclopentane	P	14.88	14.90	**14.82**	8074	I	O	M	563	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.02						160	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.08						160	570
107-83-5	2-Methylpentane	P	15.08	15.10						160	571
96-14-0	3-Methylpentane	P	15.55	15.57	**15.62**		I	I	H	585	583
592-41-6	1-Hexene	P	**15.80**	15.82						160	590
110-54-3	n-Hexane	P	16.17	**16.19**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						101	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						101	626
71-43-2	Benzene		P	17.87	**17.87**	**17.92**		I	O	M	654	651
110-82-7	Cyclohexane		P	18.14	18.19						101	658
591-76-4	2-Methylhexane		P	18.38	18.43						101	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.50						101	671
589-34-4	3-Methylhexane		P	18.66	18.71						101	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.80						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.85						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.14	**19.05**	1152	I	I	H	689	690
142-82-5	n-Heptane		P	19.41	19.46	**19.41**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.14						21	722
592-13-2	2,5-Dimethylhexane			20.35	20.40						21	734
589-43-5	2,4-Dimethylhexane			20.43	20.48						21	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.98						21	753
108-88-3	Toluene		P	21.12	**21.17**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						21	763
592-27-8	2-Methylheptane		P	21.33	21.33						21	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						21	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						21	772
589-81-1	3-Methylheptane		p	21.55	21.55						21	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						21	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75						-57	855
108-38-3	m,p-xylene		P	23.95	23.95						-57	863
100-42-5	Styrene		P	24.40	24.40						-57	881
95-47-6	o-xylene		P	24.57	24.57						-57	886
124-11-8	1-Nonene	64		24.60	24.60						-57	889
111-84-2	n-Nonane		P	24.87	24.87	**24.87**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36						-141	919
103-65-1	n-propylbenzene		P	25.93	25.93	**25.95**		I	I	H	945	947
80-56-8	a-Pinene			26.09	26.09						-141	950
620-14-4	3-Ethyltoluene		P	26.17	26.17	**26.13**		I	O	M	953	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-141	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45						-141	964
611-14-3	2-Ethyltoluene		P	26.61	26.61						-141	975
127-91-3	b-Pinene			26.80	26.80						-141	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08	**27.03**		I	I	H	990	991
124-18-5	n-Decane		P	27.26	27.26	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-48	1014
496-11-7	Indan	81		27.55	27.55						-48	1020
5989-27-5	d-Limonene			27.65	27.65						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10	**28.12**		I	I	H	1033	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-48	1037
104-51-8	n-Butylbenzene			28.45	28.45						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					158170		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					117151		41019			
TNMHC - C1	Total Non-Methane Hydrocarbons					117151		0			
TVOC	Total Volatile Organic Compounds					117151		0			
TPH(g)	TPH (gasoline)					117151		0			
TPH(d)	TPH (diesel)					117151		0			
TPH(h)	TPH (hexane)					117151		0			
TPH(t)	TPH (toluene)					117151		0			
TPHC	TPH (methane)					117151		0			
TPH(Jet A)	TPH (Jet A Fuel)					117151		**41019**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					117151					
C6+	**C6+ (hexane)**		16.17	16.19	16.17	**0**		Sum from	16.19	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			7846		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			14870		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**22716**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040225-GCK		
Hexane Std Area:	385895		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.21	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.21		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	2.03	1.01	1.17	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	10.05	5.03	6.20	10.05	5.03	6.20	6.20	6.20
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	22.90	7.63	13.80	22.90	7.63	13.80	13.80	13.80
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	2.21	0.55	1.27	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	16.91	4.23	10.06	16.91	4.23	10.06	10.06	10.06
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	7.36	1.47	4.35	7.36	1.47	4.35	4.35	4.35
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	2.61	0.44	1.54	2.61	0.44	1.54	1.54	1.54
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	12.43	2.49	7.14	12.43	2.49	7.14	7.14	7.14
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,2,4-Trimethylpentane	114.2	8	1.77	0.22	1.04	ND	ND	ND	0
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	180.40	30.1	106.2	180.40	30.07	106.22	106.22	106.22
Total Non-Methane Hydrocarbons	16	1.0	180.40	180.4	118.3	180.40	180.40	118.30	118.30	118.30
Total Volatile Organic Compounds	100	7.6	180.40	23.7	97.3	180.40	23.74	97.28	97.28	97.28
TPH (gasoline)	95	7.0	180.40	25.8	100.3	180.40	25.77	100.34	100.34	100.34
TPH (diesel)	198	15.0	180.40	12.0	97.6	180.40	12.03	97.59	97.59	97.59
TPH (hexane)	86.2	6.0	180.40	30.1	106.2	180.40	30.07	106.22	106.22	106.22
TPH (toluene)	92.14	7.0	180.40	25.8	97.3	180.40	25.77	97.32	97.32	97.32
TPH (methane)	16	1.0	180.40	180.4	118.3	180.40	180.40	118.30	118.30	118.30
TPH (Jet A Fuel)	177	13.0	180.40	13.9	100.7	180.40	13.88	100.66	100.66	100.66
TPH (Mineral Spirits)	117.81	8.0	180.40	22.6	108.9	180.40	22.55	108.88	108.88	108.88
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			78.3	23.1						
Paraffins			49.9							
Isoparaffins			11.7							
Aromatics			0.0							
Napthlenes			12.4							
Olefins			4.2							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	12.08	6.04	7.45	12.08	6.04	7.45	7.45	7.45
C3 (propane)	44.1	3	22.90	7.63	13.80	22.90	7.63	13.80	13.80	13.80
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			35.0							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	2.6	0.44	1.54					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			61.6	78.7
Alkenes			4.2	5.4
Alkynes			0.0	0.0
Cycloalkanes			12.4	15.9
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			0.0	0.0
Terpenes			0.0	0.0

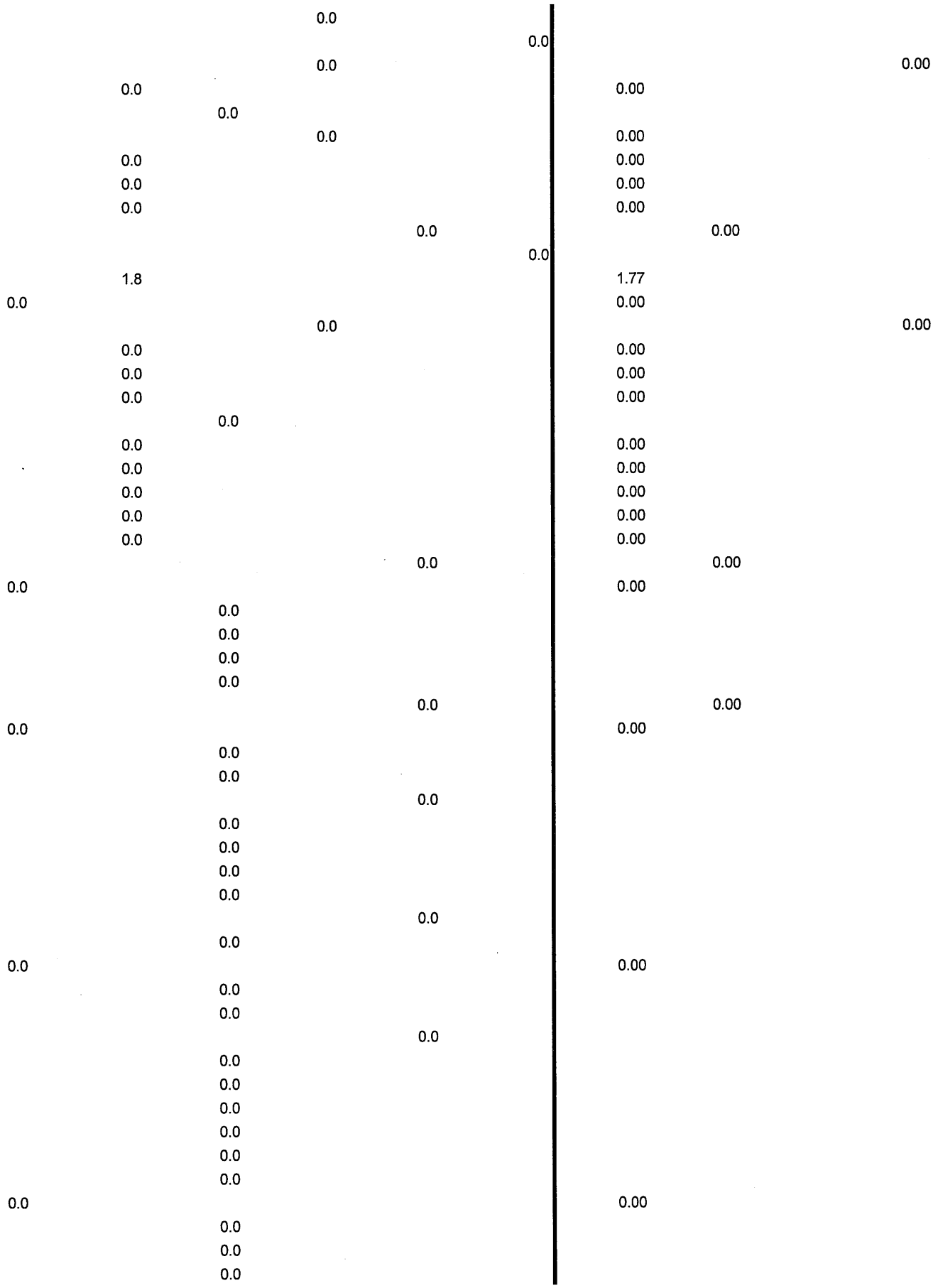
SDG: **225100**
Laboratory Number: **45**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
4.4	2.000	1.00	1.21	1.39	2.42	3.62	4.17	7.2	U	ND		Y
0.0	2.000	1.00	1.21	1.29	2.42	3.62	3.86	7.2	U	ND		Y
21.8	2.000	1.00	1.21	1.49	2.42	3.62	4.47	7.2		=		Y
0.0	2.000	0.67	0.81	1.39	2.42	2.42	4.17	7.2	U	ND		Y
33.1	2.000	0.67	0.81	1.46	2.42	2.42	4.37	7.2		=		Y
0.0	2.000	0.50	0.60	1.44	2.42	1.81	4.31	7.2	U	ND		Y
0.0	2.000	2.00	2.42	3.17	2.42	7.25	9.51	7.2	U	ND		Y
2.4	2.000	0.50	0.60	1.39	2.42	1.81	4.17	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.34	2.42	1.81	4.02	7.2	U	ND		Y
18.3	2.000	0.50	0.60	1.44	2.42	1.81	4.31	7.2		=		Y
0.0	2.000	0.50	0.60	1.39	2.42	1.81	4.17	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.39	2.42	1.81	4.17	7.2	U	ND		Y
0.0	2.000	1.00	1.21	2.28	2.42	3.62	6.85	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.42	1.45	4.16	7.2	U	ND		Y
0.0	2.000	0.67	0.81	1.92	2.42	2.42	5.75	7.2	U	ND		Y
6.4	2.000	0.40	0.48	1.43	2.42	1.45	4.29	7.2		=		Y
0.0	2.000	0.40	0.48	1.39	2.42	1.45	4.16	7.2	U	ND		Y
0.0	2.000	0.67	0.81	1.98	2.42	2.42	5.95	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.42	1.45	4.16	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.43	2.42	1.45	4.28	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.35	2.42	1.45	4.05	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.42	1.45	4.16	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.42	1.45	4.16	7.2	U	ND		Y
0.0	2.000	0.50	0.60	1.83	2.42	1.81	5.50	7.2	U	ND		Y
0.0	2.000	0.40	0.48	1.39	2.42	1.45	4.16	7.2	U	ND		Y
1.9	2.000	0.33	0.40	1.42	2.42	1.21	4.27	7.2	J	=		Y
0.0	2.000	0.40	0.48	1.35	2.42	1.45	4.05	7.2	U	ND		Y
0.0	2.000	0.67	0.81	1.98	2.42	2.42	5.95	7.2	U	ND		Y
10.8	2.000	0.40	0.48	1.39	2.42	1.45	4.16	7.2		=		Y
0.0	2.000	0.40	0.48	1.75	2.42	1.45	5.24	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.42	2.42	1.21	4.27	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.42	2.42	1.21	4.27	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.42	2.42	1.21	4.27	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.39	2.42	1.21	4.17	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.42	2.42	1.21	4.27	7.2	U	ND		Y
0.0	2.000	0.33	0.40	1.69	2.42	1.21	5.06	7.2	U	ND		Y

0.0	2.000	0.33	0.40	1.35	2.42	1.21	4.06	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.69	2.42	1.21	5.06	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.39	2.42	1.21	4.17	7.2	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.42	1.04	4.25	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.29	2.42	1.21	3.87	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.39	2.42	1.21	4.17	7.2	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.42	1.04	4.25	7.2	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.42	1.04	4.25	7.2	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.42	1.04	4.25	7.2	U	ND	Y
0.0	2.000	0.29	0.35	1.39	2.42	1.04	4.17	7.2	U	ND	Y
0.0	2.000	0.33	0.40	1.69	2.42	1.21	5.06	7.2	U	ND	Y
1.0	2.000	0.25	0.30	1.41	2.42	0.91	4.24	7.2	U	ND	Y
0.0	2.000	0.29	0.35	1.42	2.42	1.04	4.25	7.2	U	ND	Y
0.0	2.000	0.29	0.35	1.39	2.42	1.04	4.17	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.42	0.91	4.24	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.42	0.91	4.24	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.42	0.91	4.24	7.2	U	ND	Y
0.0	2.000	0.29	0.35	1.30	2.42	1.04	3.91	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.42	0.91	4.24	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.42	0.91	4.24	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.42	0.91	4.24	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.42	0.91	4.24	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.42	0.91	4.24	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.39	2.42	0.91	4.17	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.41	2.42	0.91	4.24	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.31	2.42	0.91	3.94	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.31	2.42	0.91	3.94	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.29	2.42	0.91	3.87	7.2	U	ND	Y
0.0	2.000	0.25	0.30	1.31	2.42	0.91	3.94	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.39	2.42	0.81	4.17	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.41	2.42	0.81	4.23	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.42	0.81	3.97	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.42	0.81	3.97	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.35	2.42	0.72	4.05	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.42	0.81	3.97	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.42	0.81	3.97	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.42	0.81	3.97	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.42	0.81	3.97	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.35	2.42	0.72	4.05	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.42	0.81	3.97	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.41	2.42	0.72	4.23	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.32	2.42	0.81	3.97	7.2	U	ND	Y
0.0	2.000	0.22	0.27	1.30	2.42	0.81	3.90	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.35	2.42	0.72	4.05	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.42	0.72	3.99	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.42	0.72	3.99	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.42	0.72	3.99	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.42	0.72	3.99	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.42	0.72	3.99	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.42	0.72	3.99	7.2	U	ND	Y
0.0	2.000	0.18	0.22	1.41	2.42	0.66	4.22	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.42	0.72	3.99	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.33	2.42	0.72	3.99	7.2	U	ND	Y
0.0	2.000	0.20	0.24	1.27	2.42	0.72	3.81	7.2	U	ND	Y

0.0	2.000	0.17	0.20	1.41	2.42	0.60	4.22	7.2	U	ND	Y
%											Y
100.0	45.00	7.5	9.06	32.01	54.36	27.2	96.0	163.1		=	Y
100.0	45.00	45.0	54.36	35.65	54.36	163.1	106.9	163.1		=	Y
100.0	45.00	5.9	7.15	29.31	54.36	21.5	87.9	163.1		=	Y
100.0	45.00	6.4	7.77	30.24	54.36	23.3	90.7	163.1		=	Y
100.0	45.00	3.0	3.62	29.41	54.36	10.9	88.2	163.1		=	Y
100.0	45.00	7.5	9.06	32.01	54.36	27.2	96.0	163.1		=	Y
100.0	45.00	6.4	7.77	29.32	54.36	23.3	88.0	163.1		=	Y
100.0	45.00	45.0	54.36	35.65	54.36	163.1	106.9	163.1		=	Y
100.0	45.00	3.5	4.18	30.33	54.36	12.5	91.0	163.1		=	Y
100.0	45.00	5.6	6.79	32.81	54.36	20.4	98.4	163.1		=	Y
0.0	45.00	7.5	9.06	32.01	54.36	27.2	96.0	163.1	U	ND	Y
0.0	25.000	3.6	4.31	16.80	30.20	12.9	50.4	90.6	U	ND	Y
%											Y
43.4											Y
63.7											Y
15.0											Y
0.0											Y
15.9											Y
5.4											Y
0.0											Y
%											Y
34.5	5.000	2.5	3.02	3.73	6.04	9.1	11.2	18.1	J	=	Y
65.5	5.000	1.7	2.01	3.64	6.04	6.0	10.9	18.1		=	Y
0.0	25.000	6.3	7.55	17.98	30.20	22.6	54.0	90.6	U	ND	Y
0.0	25.000	5.0	6.04	17.86	30.20	18.1	53.6	90.6	U	ND	Y
0.0	25.000	4.2	5.03	17.78	30.20	15.1	53.3	90.6	U	ND	Y
0.0	25.000	3.6	4.31	17.72	30.20	12.9	53.2	90.6	U	ND	Y
0.0	25.000	3.1	3.77	17.67	30.20	11.3	53.0	90.6	U	ND	Y
0.0	25.000	2.8	3.36	17.64	30.20	10.1	52.9	90.6	U	ND	Y
0.0	25.000	2.5	3.02	17.61	30.20	9.1	52.8	90.6	U	ND	Y
0.0	25.000	2.3	2.75	17.59	30.20	8.2	52.8	90.6	U	ND	Y
0.0	25.000	2.1	2.52	17.56	30.20	7.5	52.7	90.6	U	ND	Y
0.0	25.000	2.1	2.52	17.56	30.20	7.5	52.7	90.6	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.21	3.57	7.25	3.6	10.7	21.7			Y
0.0	6.0	0.9	1.04	4.25	7.25	3.1	12.8	21.7			Y
0.0	6.0	0.7	0.81	4.23	7.25	2.4	12.7	21.7			Y
0.0	6.0	0.5	0.66	3.86	7.25	2.0	11.6	21.7			Y
0.0	6.0	0.7	0.81	3.77	7.25	2.4	11.3	21.7			Y
0.0	6.0	0.5	0.66	3.84	7.25	2.0	11.5	21.7			Y
1.9	2.0	0.3	0.40	1.42	2.42	1.2	4.3	7.2	J	=	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					2.0		2.03		
					0.0			0.00	
10.1						10.05			
					0.0		0.00		
22.9						22.90			
		0.0				0.00			
					0.0				
					2.2		2.21		
					0.0		0.00		
16.9						16.91			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
		7.4				7.36			
					0.0		0.00		
					0.0				
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
		2.6				2.61			
			0.0						0.00
					0.0				
			12.4						12.43
					0.0				
		0.0				0.00			
		0.0				0.00			
		0.0				0.00			
					0.0		0.00		
0.0						0.00			
					0.0				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49.9	11.7	0.0	12.4	4.2	0.0	61.6	4.2	0.0	12.4

0.00	2.61		
0.00	1.77		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
		0.00			
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			0.00		
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SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**45**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.21	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.14E+04	1318	2.0	1.01	1.17
Acetylene	2	TRG	26.0	2.14E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.14E+04	6528	10.1	5.03	6.20
Propene	3	TRG	4.5	2.14E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.14E+04	14870	22.9	7.63	13.80
i-Butane	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.14E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.14E+04	1433	2.2	0.55	1.27
n-Butane	4	TRG	54.1	2.14E+04	10979	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.14E+04	0	16.9	4.23	10.06
c-2-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.14E+04	4778	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.14E+04	0	7.4	1.47	4.35
n-Pentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.14E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.14E+04	1695	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.14E+04	8074	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.14E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.14E+04	0	2.6	0.44	1.54
Methylcyclopentane	5	TRG	68.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.14E+04	0	12.4	2.49	7.14
Cyclohexane	5	TRG	88.2	2.14E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.14E+04	1152	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.14E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.14E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.14E+04	0	1.8	0.22	1.04	
n-Nonane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.14E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.14E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.14E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.14E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.14E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.14E+04	117151	180.4	30.07	106.22	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.14E+04	117151	180.4	180.40	118.30	
Total Volatile Organic Compoun	8	TRG	100.0	2.14E+04	117151	180.4	23.74	97.28	
TPH (gasoline)	7	TRG	95.0	2.14E+04	117151	180.4	25.77	100.34	
TPH (diesel)	15	TRG	198.0	2.14E+04	117151	180.4	12.03	97.59	
TPH (hexane)	6	TRG	86.2	2.14E+04	117151	180.4	30.07	106.22	
TPH (toluene)	7	TRG	92.1	2.14E+04	117151	180.4	25.77	97.32	
TPH (methane)	1	TRG	16.0	2.14E+04	117151	180.4	180.40	118.30	
TPH (Jet A Fuel)	13	TRG	177.0	2.14E+04	117151	180.4	13.88	100.66	
TPH (Mineral Spirits)	8	TRG	117.8	2.14E+04	117151	180.4	22.55	108.88	
C6+ (hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.14E+04		78.3			Sum ID
Paraffins	P	TRG	0.0	2.14E+04		49.9			Sum P
Isoparaffins	I	TRG	0.0	2.14E+04		11.7			Sum I
Aromatics	A	TRG	0.0	2.14E+04		0.0			Sum A
Napthlenes	N	TRG	0.0	2.14E+04		12.4			Sum N
Olefins	O	TRG	0.0	2.14E+04		4.2			Sum O
Oxygenates		TRG	0.0	2.14E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.14E+04	7846	12.1	6.04	7.45	
C3 (propane)	3	TRG	44.1	2.14E+04	14870	22.9	7.63	13.80	
C4 (Butane)	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.14E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.14E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.14E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.14E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.14E+04	22716	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 46

File Name: 2510046A
Description: T-310
Canister: 771
QC_Batch: 033125-GCK

Date Sampled: 03/21/25 **Time:** 10:48
Date Analyzed: 03/31/25 **Time:** 14:28
Can Factor: 1.29
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.29	3.86	ND	1.48	4.45	ND	ND
74-86-2	Acetylene	1.29	3.86	ND	1.37	4.11	ND	ND
74-84-0	Ethane	1.29	3.86	ND	1.59	4.76	ND	ND
115-07-1	Propene	0.86	2.57	ND	1.48	4.44	ND	ND
74-98-6	Propane	0.86	2.57	ND	1.55	4.65	ND	ND
75-28-5	i-Butane	0.64	1.93	ND	1.53	4.60	ND	ND
106-98-9	1-Butene	0.64	1.93	ND	1.48	4.44	ND	ND
106-97-8	n-Butane	0.64	1.93	ND	1.53	4.60	ND	ND
624-64-6	t-2-Butene	0.64	1.93	ND	1.48	4.44	ND	ND
590-18-1	c-2-Butene	0.64	1.93	ND	1.48	4.44	ND	ND
78-78-4	i-Pentane	0.51	1.54	ND	1.52	4.57	ND	ND
109-67-1	1-Pentene	0.51	1.54	ND	1.48	4.44	ND	ND
109-66-0	n-Pentane	0.51	1.54	ND	1.52	4.56	ND	ND
646-04-8	t-2-Pentene	0.51	1.54	ND	1.48	4.44	ND	ND
627-20-3	c-2-Pentene	0.51	1.54	ND	1.48	4.44	ND	ND
75-83-2	2,2-Dimethylbutane	0.43	1.29	ND	1.52	4.55	ND	ND
142-29-0	Cyclopentene	0.51	1.54	ND	1.44	4.31	ND	ND
287-92-3	Cyclopentane	0.51	1.54	ND	1.48	4.44	ND	ND
79-29-8	2,3-Dimethylbutane	0.43	1.29	ND	1.52	4.55	ND	ND
107-83-5	2-Methylpentane	0.43	1.29	ND	1.52	4.55	ND	ND
96-14-0	3-Methylpentane	0.43	1.29	ND	1.52	4.55	ND	ND
592-41-6	1-Hexene	0.43	1.29	ND	1.48	4.44	ND	ND
110-54-3	n-Hexane	0.43	1.29	ND	1.52	4.55	ND	ND
1120-62-3	3-Methylcyclopentene	0.43	1.29	ND	1.44	4.33	ND	ND
96-37-7	Methylcyclopentane	0.43	1.29	ND	1.48	4.44	ND	ND
108-08-7	2,4-Dimethylpentane	0.37	1.10	ND	1.51	4.53	ND	ND
71-43-2	Benzene	0.43	1.29	ND	1.37	4.12	ND	ND
110-82-7	Cyclohexane	0.43	1.29	ND	1.48	4.44	ND	ND
591-76-4	2-Methylhexane	0.37	1.10	ND	1.51	4.53	ND	ND
565-59-3	2,3-Dimethylpentane	0.37	1.10	ND	1.51	4.53	ND	ND
589-34-4	3-Methylhexane	0.37	1.10	ND	1.51	4.53	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.32	0.97	ND	1.51	4.52	ND	ND
142-82-5	n-Heptane	0.37	1.10	ND	1.51	4.53	ND	ND
108-87-2	Methylcyclohexane	0.37	1.10	ND	1.48	4.44	ND	ND
592-13-2	2,5-Dimethylhexane	0.32	0.97	ND	1.51	4.52	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.97	ND	1.51	4.52	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.32	0.97	ND	1.51	4.52	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.37	1.10	ND	1.39	4.16	ND	ND
584-94-1	2,3-Dimethylhexane	0.32	0.97	ND	1.51	4.52	ND	ND
592-27-8	2-Methylheptane	0.32	0.97	ND	1.51	4.52	ND	ND
589-53-7	4-Methylheptane	0.32	0.97	ND	1.51	4.52	ND	ND
589-81-1	3-Methylheptane	0.32	0.97	ND	1.51	4.52	ND	ND
111-65-9	n-Octane	0.32	0.97	ND	1.51	4.52	ND	ND
100-41-4	Ethylbenzene	0.32	0.97	ND	1.40	4.20	ND	ND
108-38-3	m,p-xylene	0.32	0.97	ND	1.40	4.20	ND	ND
100-42-5	Styrene	0.32	0.97	ND	1.37	4.12	ND	ND
95-47-6	o-xylene	0.32	0.97	ND	1.40	4.20	ND	ND
111-84-2	n-Nonane	0.29	0.86	ND	1.50	4.51	ND	ND
98-82-8	i-Propylbenzene	0.29	0.86	ND	1.41	4.23	ND	ND
103-65-1	n-propylbenzene	0.29	0.86	ND	1.41	4.23	ND	ND
620-14-4	3-Ethyltoluene	0.29	0.86	ND	1.41	4.23	ND	ND
622-96-8	4-Ethyltoluene	0.29	0.86	ND	1.41	4.23	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.29	0.86	ND	1.41	4.23	ND	ND
611-14-3	2-Ethyltoluene	0.29	0.86	ND	1.41	4.23	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	0.86	ND	1.41	4.23	ND	ND
124-18-5	n-Decane	0.26	0.77	ND	1.50	4.50	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.29	0.86	ND	1.41	4.23	ND	ND
141-93-5	1,3-Diethylbenzene	0.26	0.77	ND	1.42	4.25	ND	ND
105-05-5	1,4-Diethylbenzene	0.26	0.77	ND	1.42	4.25	ND	ND
104-51-8	n-Butylbenzene	0.26	0.77	ND	1.42	4.25	ND	ND
1120-21-4	Undecane	0.23	0.70	ND	1.50	4.50	ND	ND
91-20-3	Naphthalene	0.26	0.77	ND	1.35	4.06	ND	ND
112-40-3	Dodecane	0.21	0.64	ND	1.50	4.49	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.65	28.96	ND	34.11	102.32	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	57.92	173.77	ND	37.98	113.95	ND	ND

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **46**
File Name: **2510046A**
Sample ID: **T-310**
Sampled: **3/21/2025**
Received: **03/21/25**
Analyzed: **03/31/25**
QCBatch: **033125-GCK**
Can: **771**
Can Factor: **1.29**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **10:48** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **14:28** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **377602**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C4 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.06	**4.07**	0	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.10			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.17**		I	I	H	200	200
115-07-1	Propene	P	5.11	5.11						-172	290
74-98-6	Propane	P	5.20	**5.20**	**5.29**	1141	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.69**						127	351
67-56-1	Methanol		8.30	8.39						127	401
106-98-9	1-Butene	P	7.29	7.38	**7.32**	0	I	I	H	367	367
106-99-0	1,3-Butadiene		**7.48**	7.57						127	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75						198	410
590-18-1	c-2-Butene	P	9.63	9.63						198	431
64-17-5	Ethanol		10.85	10.85						198	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.05						198	465
67-64-1	Acetone		11.52	11.52						198	476
78-78-4	i-Pentane	P	11.37	11.37						198	473
109-67-1	1-Pentene	P	12.30	12.30	**12.32**	0	I	I	H	496	495
67-63-0	Isopropanol		12.65	12.65						198	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.36						198	497
109-66-0	n-Pentane	P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.55						162	503
646-04-8	t-2-Pentene	P	12.79	12.79						162	510
627-20-3	c-2-Pentene	P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.55						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.62						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.77						162	537
142-29-0	Cyclopentene	15	**14.61**	14.61						162	551
71-23-8	n-Propanol		**14.75**	14.75						162	558
287-92-3	Cyclopentane	P	14.88	14.88						162	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.06						162	570
107-83-5	2-Methylpentane	P	15.08	15.08						162	571
96-14-0	3-Methylpentane	P	15.55	15.55						162	583
592-41-6	1-Hexene	P	**15.80**	15.80						162	590
110-54-3	n-Hexane	P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						101	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						101	626
71-43-2	Benzene		P	17.87	**17.87**	**17.91**	0	I	I	H	654	651
110-82-7	Cyclohexane		P	18.14	18.18						101	658
591-76-4	2-Methylhexane		P	18.38	18.42						101	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.49						101	671
589-34-4	3-Methylhexane		P	18.66	18.70						101	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.79						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.84						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.13						101	690
142-82-5	n-Heptane		P	19.41	19.45	**19.41**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.13						21	722
592-13-2	2,5-Dimethylhexane			20.35	20.39						21	734
589-43-5	2,4-Dimethylhexane			20.43	20.47						21	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.97						21	753
108-88-3	Toluene		P	21.12	**21.16**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						21	763
592-27-8	2-Methylheptane		P	21.33	21.33						21	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						21	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						21	772
589-81-1	3-Methylheptane		p	21.55	21.55						21	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						21	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75						-57	855
108-38-3	m,p-xylene		P	23.95	23.95						-57	863
100-42-5	Styrene		P	24.40	24.40						-57	881
95-47-6	o-xylene		P	24.57	24.57						-57	886
124-11-8	1-Nonene	64		24.60	24.60						-57	889
111-84-2	n-Nonane		P	24.87	24.87	**24.87**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36						-141	919
103-65-1	n-propylbenzene		P	25.93	25.93						-141	947
80-56-8	a-Pinene			26.09	26.09						-141	950
620-14-4	3-Ethyltoluene		P	26.17	26.17						-141	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-141	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45						-141	964
611-14-3	2-Ethyltoluene		P	26.61	26.61						-141	975
127-91-3	b-Pinene			26.80	26.80						-141	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08						-141	991
124-18-5	n-Decane		P	27.26	27.26	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-48	1014
496-11-7	Indan	81		27.55	27.55						-48	1020
5989-27-5	d-Limonene			27.65	27.65						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10						-48	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-48	1037
104-51-8	n-Butylbenzene			28.45	28.45						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					20330		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					16321		4009			
TNMHC - C1	Total Non-Methane Hydrocarbons					16321		0			
TVOC	Total Volatile Organic Compounds					16321		0			
TPH(g)	TPH (gasoline)					16321		0			
TPH(d)	TPH (diesel)					16321		0			
TPH(h)	TPH (hexane)					16321		0			
TPH(t)	TPH (toluene)					16321		0			
TPHC	TPH (methane)					16321		0			
TPH(Jet A)	TPH (Jet A Fuel)					16321		**4009**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					16321					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			0		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			1141		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**1141**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	033125-GCK		
Hexane Std Area:	377602		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.29	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.29		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	1.87	0.62	1.13	ND	ND	ND	0	
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	26.78	4.5	15.8	ND	ND	ND	0	
Total Non-Methane Hydrocarbons	16	1.0	26.78	26.8	17.6	ND	ND	ND	0	
Total Volatile Organic Compounds	100	7.6	26.78	3.5	14.4	ND	ND	ND	0	
TPH (gasoline)	95	7.0	26.78	3.8	14.9	ND	ND	ND	0	
TPH (diesel)	198	15.0	26.78	1.8	14.5	ND	ND	ND	0	
TPH (hexane)	86.2	6.0	26.78	4.5	15.8	ND	ND	ND	0	
TPH (toluene)	92.14	7.0	26.78	3.8	14.4	ND	ND	ND	0	
TPH (methane)	16	1.0	26.78	26.8	17.6	ND	ND	ND	0	
TPH (Jet A Fuel)	177	13.0	26.78	2.1	14.9	ND	ND	ND	0	
TPH (Mineral Spirits)	117.81	8.0	26.78	3.3	16.2	ND	ND	ND	0	
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			1.9	0.6						
Paraffins			1.9							
Isoparaffins			0.0							
Aromatics			0.0							
Napthlenes			0.0							
Olefins			0.0							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
C3 (propane)	44.1	3	1.87	0.62	1.13	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			1.9							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			1.9	99.9
Alkenes			0.0	0.0
Alkynes			0.0	0.0
Cycloalkanes			0.0	0.0
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			0.0	0.0
Terpenes			0.0	0.0

SDG: **225100**
Laboratory Number: **46**

Mole %	(1)	(2)	Calc	Calc	Calc	Calc	Calc	Calc				
Result	MDL	MDL	MDL	MDL	MDL	RL	RL	RL		Detect	EPA	Rept
%	ppbC	ppbV	ppbV	ug/m3	ppbC	ppbV	ug/m3	ppbC	Flag	Flan	Flag	Res
0.0	2.000	1.00	1.29	1.48	2.57	3.86	4.45	7.7	U	ND		Y
0.0	2.000	1.00	1.29	1.37	2.57	3.86	4.11	7.7	U	ND		Y
0.0	2.000	1.00	1.29	1.59	2.57	3.86	4.76	7.7	U	ND		Y
0.0	2.000	0.67	0.86	1.48	2.57	2.57	4.44	7.7	U	ND		Y
99.8	2.000	0.67	0.86	1.55	2.57	2.57	4.65	7.7	U	ND		Y
0.0	2.000	0.50	0.64	1.53	2.57	1.93	4.60	7.7	U	ND		Y
0.0	2.000	2.00	2.57	3.38	2.57	7.72	10.13	7.7	U	ND		Y
0.0	2.000	0.50	0.64	1.48	2.57	1.93	4.44	7.7	U	ND		Y
0.0	2.000	0.50	0.64	1.43	2.57	1.93	4.28	7.7	U	ND		Y
0.0	2.000	0.50	0.64	1.53	2.57	1.93	4.60	7.7	U	ND		Y
0.0	2.000	0.50	0.64	1.48	2.57	1.93	4.44	7.7	U	ND		Y
0.0	2.000	0.50	0.64	1.48	2.57	1.93	4.44	7.7	U	ND		Y
0.0	2.000	1.00	1.29	2.43	2.57	3.86	7.30	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.44	7.7	U	ND		Y
0.0	2.000	0.67	0.86	2.04	2.57	2.57	6.13	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.52	2.57	1.54	4.57	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.44	7.7	U	ND		Y
0.0	2.000	0.67	0.86	2.11	2.57	2.57	6.34	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.44	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.52	2.57	1.54	4.56	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.44	2.57	1.54	4.31	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.44	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.44	7.7	U	ND		Y
0.0	2.000	0.50	0.64	1.95	2.57	1.93	5.86	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.44	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.52	2.57	1.29	4.55	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.44	2.57	1.54	4.31	7.7	U	ND		Y
0.0	2.000	0.67	0.86	2.11	2.57	2.57	6.34	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.44	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.86	2.57	1.54	5.58	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.52	2.57	1.29	4.55	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.52	2.57	1.29	4.55	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.52	2.57	1.29	4.55	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.48	2.57	1.29	4.44	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.52	2.57	1.29	4.55	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.80	2.57	1.29	5.39	7.7	U	ND		Y

0.0	2.000	0.33	0.43	1.44	2.57	1.29	4.33	7.7	U	ND	Y
0.0	2.000	0.33	0.43	1.80	2.57	1.29	5.39	7.7	U	ND	Y
0.0	2.000	0.33	0.43	1.48	2.57	1.29	4.44	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.57	1.10	4.53	7.7	U	ND	Y
0.0	2.000	0.33	0.43	1.37	2.57	1.29	4.12	7.7	U	ND	Y
0.0	2.000	0.33	0.43	1.48	2.57	1.29	4.44	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.57	1.10	4.53	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.57	1.10	4.53	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.57	1.10	4.53	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.48	2.57	1.10	4.44	7.7	U	ND	Y
0.0	2.000	0.33	0.43	1.80	2.57	1.29	5.39	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.57	0.97	4.52	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.57	1.10	4.53	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.48	2.57	1.10	4.44	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.57	0.97	4.52	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.57	0.97	4.52	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.57	0.97	4.52	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.39	2.57	1.10	4.16	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.57	0.97	4.52	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.57	0.97	4.52	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.57	0.97	4.52	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.57	0.97	4.52	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.57	0.97	4.52	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.57	0.97	4.44	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.51	2.57	0.97	4.52	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.40	2.57	0.97	4.20	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.40	2.57	0.97	4.20	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.37	2.57	0.97	4.12	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.40	2.57	0.97	4.20	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.48	2.57	0.86	4.44	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.50	2.57	0.86	4.51	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.23	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.23	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.57	0.77	4.31	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.23	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.23	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.23	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.23	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.57	0.77	4.31	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.23	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.50	2.57	0.77	4.50	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.23	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.39	2.57	0.86	4.16	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.44	2.57	0.77	4.31	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.42	2.57	0.77	4.25	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.42	2.57	0.77	4.25	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.42	2.57	0.77	4.25	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.42	2.57	0.77	4.25	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.42	2.57	0.77	4.25	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.42	2.57	0.77	4.25	7.7	U	ND	Y
0.0	2.000	0.18	0.23	1.50	2.57	0.70	4.50	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.42	2.57	0.77	4.25	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.42	2.57	0.77	4.25	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.35	2.57	0.77	4.06	7.7	U	ND	Y

0.0	2.000	0.17	0.21	1.50	2.57	0.64	4.49	7.7	U	ND	Y
%											Y
100.0	45.00	7.5	9.65	34.11	57.92	29.0	102.3	173.8	U	ND	Y
100.0	45.00	45.0	57.92	37.98	57.92	173.8	113.9	173.8	U	ND	Y
100.0	45.00	5.9	7.62	31.24	57.92	22.9	93.7	173.8	U	ND	Y
100.0	45.00	6.4	8.27	32.22	57.92	24.8	96.7	173.8	U	ND	Y
100.0	45.00	3.0	3.86	31.34	57.92	11.6	94.0	173.8	U	ND	Y
100.0	45.00	7.5	9.65	34.11	57.92	29.0	102.3	173.8	U	ND	Y
100.0	45.00	6.4	8.27	31.25	57.92	24.8	93.7	173.8	U	ND	Y
100.0	45.00	45.0	57.92	37.98	57.92	173.8	113.9	173.8	U	ND	Y
100.0	45.00	3.5	4.46	32.32	57.92	13.4	97.0	173.8	U	ND	Y
100.0	45.00	5.6	7.24	34.96	57.92	21.7	104.9	173.8	U	ND	Y
0.0	45.00	7.5	9.65	34.11	57.92	29.0	102.3	173.8	U	ND	Y
0.0	25.000	3.6	4.60	17.90	32.18	13.8	53.7	96.5	U	ND	Y
%											Y
7.0											Y
99.9											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
%											Y
0.0	5.000	2.5	3.22	3.97	6.44	9.7	11.9	19.3	U	ND	Y
99.9	5.000	1.7	2.15	3.88	6.44	6.4	11.6	19.3	U	ND	Y
0.0	25.000	6.3	8.04	19.16	32.18	24.1	57.5	96.5	U	ND	Y
0.0	25.000	5.0	6.44	19.03	32.18	19.3	57.1	96.5	U	ND	Y
0.0	25.000	4.2	5.36	18.95	32.18	16.1	56.8	96.5	U	ND	Y
0.0	25.000	3.6	4.60	18.88	32.18	13.8	56.6	96.5	U	ND	Y
0.0	25.000	3.1	4.02	18.83	32.18	12.1	56.5	96.5	U	ND	Y
0.0	25.000	2.8	3.58	18.79	32.18	10.7	56.4	96.5	U	ND	Y
0.0	25.000	2.5	3.22	18.77	32.18	9.7	56.3	96.5	U	ND	Y
0.0	25.000	2.3	2.93	18.74	32.18	8.8	56.2	96.5	U	ND	Y
0.0	25.000	2.1	2.68	18.72	32.18	8.0	56.1	96.5	U	ND	Y
0.0	25.000	2.1	2.68	18.72	32.18	8.0	56.1	96.5	U	ND	Y
99.9											Y
											Y
0.0	6.0	1.0	1.29	3.81	7.72	3.9	11.4	23.2			Y
0.0	6.0	0.9	1.10	4.53	7.72	3.3	13.6	23.2			Y
0.0	6.0	0.7	0.86	4.51	7.72	2.6	13.5	23.2			Y
0.0	6.0	0.5	0.70	4.11	7.72	2.1	12.3	23.2			Y
0.0	6.0	0.7	0.86	4.02	7.72	2.6	12.0	23.2			Y
0.0	6.0	0.5	0.70	4.09	7.72	2.1	12.3	23.2			Y
0.0	2.0	0.3	0.43	1.52	2.57	1.3	4.5	7.7	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
0.0						0.00			
					0.0		0.00		
1.9						1.87			
	0.0					0.00			
					0.0				
					0.0		0.00		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
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	0.0					0.00			
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0.0						0.00			
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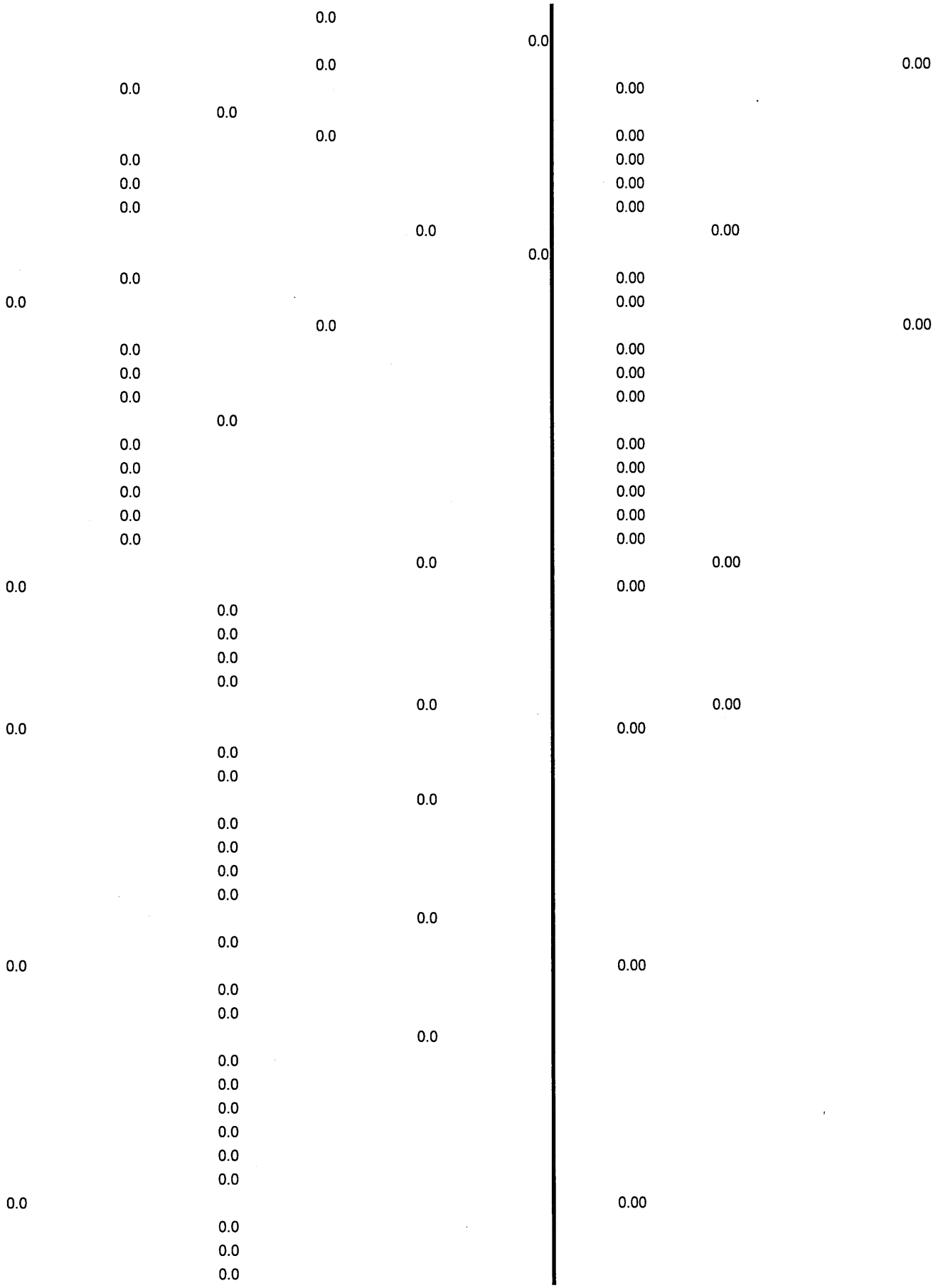
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		0.00
		0.00

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
		0.00			
	0.00				
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	0.00				
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SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**46**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.29	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum $\frac{(Astdni)}{(Cstdni)}_i$

2) ppbC = $\frac{6 \text{ Carbons} \quad Ansamp \quad CDF \quad 1000}{(Avg\ RFn) \quad SV}$ = **Cn**

3) Amount ppbv = $\frac{Cn}{C\#}$

4) Amount ug/m3 = $\frac{(amt(ppbv) \quad MW}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.09E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.09E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.09E+04	0	0.0	0.00	0.00
Propene	3	TRG	4.5	2.09E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.09E+04	1141	1.9	0.62	1.13
i-Butane	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.09E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.09E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.09E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.09E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.09E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.09E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.09E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.09E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.09E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.09E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.09E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.09E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.09E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.09E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.09E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.09E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.09E+04	16321	26.8	4.46	15.77	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.09E+04	16321	26.8	26.78	17.56	
Total Volatile Organic Compoun	8	TRG	100.0	2.09E+04	16321	26.8	3.52	14.44	
TPH (gasoline)	7	TRG	95.0	2.09E+04	16321	26.8	3.83	14.90	
TPH (diesel)	15	TRG	198.0	2.09E+04	16321	26.8	1.79	14.49	
TPH (hexane)	6	TRG	86.2	2.09E+04	16321	26.8	4.46	15.77	
TPH (toluene)	7	TRG	92.1	2.09E+04	16321	26.8	3.83	14.45	
TPH (methane)	1	TRG	16.0	2.09E+04	16321	26.8	26.78	17.56	
TPH (Jet A Fuel)	13	TRG	177.0	2.09E+04	16321	26.8	2.06	14.94	
TPH (Mineral Spirits)	8	TRG	117.8	2.09E+04	16321	26.8	3.35	16.16	
C6+ (hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.09E+04		1.9			Sum ID
Paraffins	P	TRG	0.0	2.09E+04		1.9			Sum P
Isoparaffins	I	TRG	0.0	2.09E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.09E+04		0.0			Sum A
Napthlenes	N	TRG	0.0	2.09E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.09E+04		0.0			Sum O
Oxygenates		TRG	0.0	2.09E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.09E+04	0	0.0	0.00	0.00	
C3 (propane)	3	TRG	44.1	2.09E+04	1141	1.9	0.62	1.13	
C4 (Butane)	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.09E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.09E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.09E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.09E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.09E+04	1141	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 47

File Name: 2510047A
Description: T-311
Canister: 605
QC_Batch: 040225-GCK

Date Sampled: 03/21/25 **Time:** 10:35
Date Analyzed: 04/02/25 **Time:** 16:03
Can Factor: 1.28
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.28	3.85	ND	1.48	4.44	ND	ND
74-86-2	Acetylene	1.28	3.85	ND	1.37	4.10	ND	ND
74-84-0	Ethane	1.28	3.85	ND	1.58	4.75	ND	ND
115-07-1	Propene	0.86	2.57	2.32	1.48	4.43	3.99	J
74-98-6	Propane	0.86	2.57	ND	1.55	4.64	ND	ND
75-28-5	i-Butane	0.64	1.93	4.84	1.53	4.59	11.53	
106-98-9	1-Butene	0.64	1.93	ND	1.48	4.43	ND	ND
106-97-8	n-Butane	0.64	1.93	ND	1.53	4.59	ND	ND
624-64-6	t-2-Butene	0.64	1.93	ND	1.48	4.43	ND	ND
590-18-1	c-2-Butene	0.64	1.93	ND	1.48	4.43	ND	ND
78-78-4	i-Pentane	0.51	1.54	ND	1.52	4.56	ND	ND
109-67-1	1-Pentene	0.51	1.54	ND	1.48	4.43	ND	ND
109-66-0	n-Pentane	0.51	1.54	ND	1.52	4.55	ND	ND
646-04-8	t-2-Pentene	0.51	1.54	ND	1.48	4.43	ND	ND
627-20-3	c-2-Pentene	0.51	1.54	ND	1.48	4.43	ND	ND
75-83-2	2,2-Dimethylbutane	0.43	1.28	ND	1.51	4.54	ND	ND
142-29-0	Cyclopentene	0.51	1.54	ND	1.43	4.30	ND	ND
287-92-3	Cyclopentane	0.51	1.54	0.80	1.48	4.43	2.29	J
79-29-8	2,3-Dimethylbutane	0.43	1.28	ND	1.51	4.54	ND	ND
107-83-5	2-Methylpentane	0.43	1.28	ND	1.51	4.54	ND	ND
96-14-0	3-Methylpentane	0.43	1.28	ND	1.51	4.54	ND	ND
592-41-6	1-Hexene	0.43	1.28	ND	1.48	4.43	ND	ND
110-54-3	n-Hexane	0.43	1.28	ND	1.51	4.54	ND	ND
1120-62-3	3-Methylcyclopentene	0.43	1.28	ND	1.44	4.32	ND	ND
96-37-7	Methylcyclopentane	0.43	1.28	ND	1.48	4.43	ND	ND
108-08-7	2,4-Dimethylpentane	0.37	1.10	ND	1.51	4.52	ND	ND
71-43-2	Benzene	0.43	1.28	ND	1.37	4.11	ND	ND
110-82-7	Cyclohexane	0.43	1.28	ND	1.48	4.43	ND	ND
591-76-4	2-Methylhexane	0.37	1.10	ND	1.51	4.52	ND	ND
565-59-3	2,3-Dimethylpentane	0.37	1.10	ND	1.51	4.52	ND	ND
589-34-4	3-Methylhexane	0.37	1.10	ND	1.51	4.52	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.32	0.96	ND	1.50	4.51	ND	ND
142-82-5	n-Heptane	0.37	1.10	ND	1.51	4.52	ND	ND
108-87-2	Methylcyclohexane	0.37	1.10	ND	1.48	4.43	ND	ND
592-13-2	2,5-Dimethylhexane	0.32	0.96	ND	1.50	4.51	ND	ND
589-43-5	2,4-Dimethylhexane	0.32	0.96	ND	1.50	4.51	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.32	0.96	ND	1.50	4.51	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.37	1.10	ND	1.38	4.15	ND	ND
584-94-1	2,3-Dimethylhexane	0.32	0.96	ND	1.50	4.51	ND	ND
592-27-8	2-Methylheptane	0.32	0.96	ND	1.50	4.51	ND	ND
589-53-7	4-Methylheptane	0.32	0.96	ND	1.50	4.51	ND	ND
589-81-1	3-Methylheptane	0.32	0.96	ND	1.50	4.51	ND	ND
111-65-9	n-Octane	0.32	0.96	ND	1.50	4.51	ND	ND
100-41-4	Ethylbenzene	0.32	0.96	ND	1.40	4.19	ND	ND
108-38-3	m,p-xylene	0.32	0.96	ND	1.40	4.19	ND	ND
100-42-5	Styrene	0.32	0.96	ND	1.37	4.11	ND	ND
95-47-6	o-xylene	0.32	0.96	ND	1.40	4.19	ND	ND
111-84-2	n-Nonane	0.29	0.86	ND	1.50	4.50	ND	ND
98-82-8	i-Propylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
103-65-1	n-propylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
620-14-4	3-Ethyltoluene	0.29	0.86	ND	1.41	4.22	ND	ND
622-96-8	4-Ethyltoluene	0.29	0.86	ND	1.41	4.22	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
611-14-3	2-Ethyltoluene	0.29	0.86	ND	1.41	4.22	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
124-18-5	n-Decane	0.26	0.77	ND	1.50	4.49	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.29	0.86	ND	1.41	4.22	ND	ND
141-93-5	1,3-Diethylbenzene	0.26	0.77	ND	1.41	4.24	ND	ND
105-05-5	1,4-Diethylbenzene	0.26	0.77	ND	1.41	4.24	ND	ND
104-51-8	n-Butylbenzene	0.26	0.77	ND	1.41	4.24	ND	ND
1120-21-4	Undecane	0.23	0.70	ND	1.50	4.49	ND	ND
91-20-3	Naphthalene	0.26	0.77	ND	1.35	4.05	ND	ND
112-40-3	Dodecane	0.21	0.64	ND	1.49	4.48	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.63	28.89	27.39	34.02	102.05	96.76	J
TNMHC - C1	Total Non-Methane Hydrocarbons	57.77	173.32	164.34	37.88	113.65	107.76	J

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **47**
File Name: **2510047A**
Sample ID: **T-311**
Sampled: **3/21/2025**
Received: **03/21/25**
Analyzed: **04/02/25**
QCBatch: **040225-GCK**
Can: **605**
Can Factor: **1.28**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **10:35** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **16:03** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **385895**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C5 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.11	**4.08**		NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.15			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.22**		I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.10**	4244	I	O	M	284	290
74-98-6	Propane	P	5.20	**5.20**	**5.26**		I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.66**	**6.60**	11833	I	O	M	343	351
67-56-1	Methanol		8.30	8.36						131	401
106-98-9	1-Butene	P	7.29	7.35	**7.23**		I	O	M	363	367
106-99-0	1,3-Butadiene		**7.48**	7.54						131	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.38**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.79						197	410
590-18-1	c-2-Butene	P	9.63	9.67						197	431
64-17-5	Ethanol		10.85	10.87						197	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.07						197	465
67-64-1	Acetone		11.52	11.54						197	476
78-78-4	i-Pentane	P	11.37	11.39	**11.43**		I	I	H	474	473
109-67-1	1-Pentene	P	12.30	12.32	**12.29**		I	I	H	495	495
67-63-0	Isopropanol		12.65	12.67						197	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.38						197	497
109-66-0	n-Pentane	P	12.48	**12.50**	**12.50**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.57						160	503
646-04-8	t-2-Pentene	P	12.79	12.81	**12.93**		O	I	M	512	510
627-20-3	c-2-Pentene	P	13.08	13.10						160	518
75-65-0	Tert butyl alcohol		**13.55**	13.57						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.64						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.79	**13.83**		I	I	H	536	537
142-29-0	Cyclopentene	15	**14.61**	14.63						160	551
71-23-8	n-Propanol		**14.75**	14.77						160	558
287-92-3	Cyclopentane	P	14.88	14.90	**14.97**	2431	I	I	H	567	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.02						160	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.08						160	570
107-83-5	2-Methylpentane	P	15.08	15.10						160	571
96-14-0	3-Methylpentane	P	15.55	15.57	**15.62**		I	I	H	585	583
592-41-6	1-Hexene	P	**15.80**	15.82						160	590
110-54-3	n-Hexane	P	16.17	**16.19**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						101	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						101	626
71-43-2	Benzene		P	17.87	**17.87**	**17.92**		I	O	M	654	651
110-82-7	Cyclohexane		P	18.14	18.19						101	658
591-76-4	2-Methylhexane		P	18.38	18.43						101	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.50						101	671
589-34-4	3-Methylhexane		P	18.66	18.71						101	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.80						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.85						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.14	**19.05**		I	I	H	689	690
142-82-5	n-Heptane		P	19.41	19.46	**19.41**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.14						21	722
592-13-2	2,5-Dimethylhexane			20.35	20.40						21	734
589-43-5	2,4-Dimethylhexane			20.43	20.48						21	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.98						21	753
108-88-3	Toluene		P	21.12	**21.17**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						21	763
592-27-8	2-Methylheptane		P	21.33	21.33						21	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						21	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						21	772
589-81-1	3-Methylheptane		p	21.55	21.55						21	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						21	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75						-57	855
108-38-3	m,p-xylene		P	23.95	23.95						-57	863
100-42-5	Styrene		P	24.40	24.40						-57	881
95-47-6	o-xylene		P	24.57	24.57						-57	886
124-11-8	1-Nonene	64		24.60	24.60						-57	889
111-84-2	n-Nonane		P	24.87	24.87	**24.87**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36						-141	919
103-65-1	n-propylbenzene		P	25.93	25.93	**25.94**		I	I	H	945	947
80-56-8	a-Pinene			26.09	26.09						-141	950
620-14-4	3-Ethyltoluene		P	26.17	26.17	**26.13**		I	O	M	953	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-141	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45						-141	964
611-14-3	2-Ethyltoluene		P	26.61	26.61						-141	975
127-91-3	b-Pinene			26.80	26.80						-141	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08	**27.02**		I	I	H	990	991
124-18-5	n-Decane		P	27.26	27.26	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-48	1014
496-11-7	Indan	81		27.55	27.55						-48	1020
5989-27-5	d-Limonene			27.65	27.65						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10	**28.12**		I	I	H	1033	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-48	1037
104-51-8	n-Butylbenzene			28.45	28.45						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					100418		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					100418		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					100418		0			
TVOC	Total Volatile Organic Compounds					100418		0			
TPH(g)	TPH (gasoline)					100418		0			
TPH(d)	TPH (diesel)					100418		0			
TPH(h)	TPH (hexane)					100418		0			
TPH(t)	TPH (toluene)					100418		0			
TPHC	TPH (methane)					100418		0			
TPH(Jet A)	TPH (Jet A Fuel)					100418		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					100418					
C6+	**C6+ (hexane)**		16.17	16.19	16.17	**0**		Sum from	16.19	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			0		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			4244		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**4244**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040225-GCK		
Hexane Std Area:	385895		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.28	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.28		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Propene	42.1	3	6.95	2.32	3.99	6.95	2.32	3.99	3.99	3.99
Propane	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Butane	58.1	4	19.37	4.84	11.53	19.37	4.84	11.53	11.53	11.53
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	3.98	0.80	2.29	3.98	0.80	2.29	2.29	2.29
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	164.34	27.4	96.8	164.34	27.39	96.76	96.76	96.76
Total Non-Methane Hydrocarbons	16	1.0	164.34	164.3	107.8	164.34	164.34	107.76	107.76	107.76
Total Volatile Organic Compounds	100	7.6	164.34	21.6	88.6	164.34	21.62	88.62	88.62	88.62
TPH (gasoline)	95	7.0	164.34	23.5	91.4	164.34	23.48	91.41	91.41	91.41
TPH (diesel)	198	15.0	164.34	11.0	88.9	164.34	10.96	88.91	88.91	88.91
TPH (hexane)	86.2	6.0	164.34	27.4	96.8	164.34	27.39	96.76	96.76	96.76
TPH (toluene)	92.14	7.0	164.34	23.5	88.7	164.34	23.48	88.66	88.66	88.66
TPH (methane)	16	1.0	164.34	164.3	107.8	164.34	164.34	107.76	107.76	107.76
TPH (Jet A Fuel)	177	13.0	164.34	12.6	91.7	164.34	12.64	91.70	91.70	91.70
TPH (Mineral Spirits)	117.81	8.0	164.34	20.5	99.2	164.34	20.54	99.19	99.19	99.19
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			30.3	8.0						
Paraffins			0.0							
Isoparaffins			19.4							
Aromatics			0.0							
Napthlenes			4.0							
Olefins			6.9							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
C3 (propane)	44.1	3	6.95	2.32	4.18	6.95	2.32	4.18	4.18	4.18
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			6.9							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	19.4	63.9
Alkenes	6.9	22.9
Alkynes	0.0	0.0
Cycloalkanes	4.0	13.1
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	0.0	0.0
Terpenes	0.0	0.0

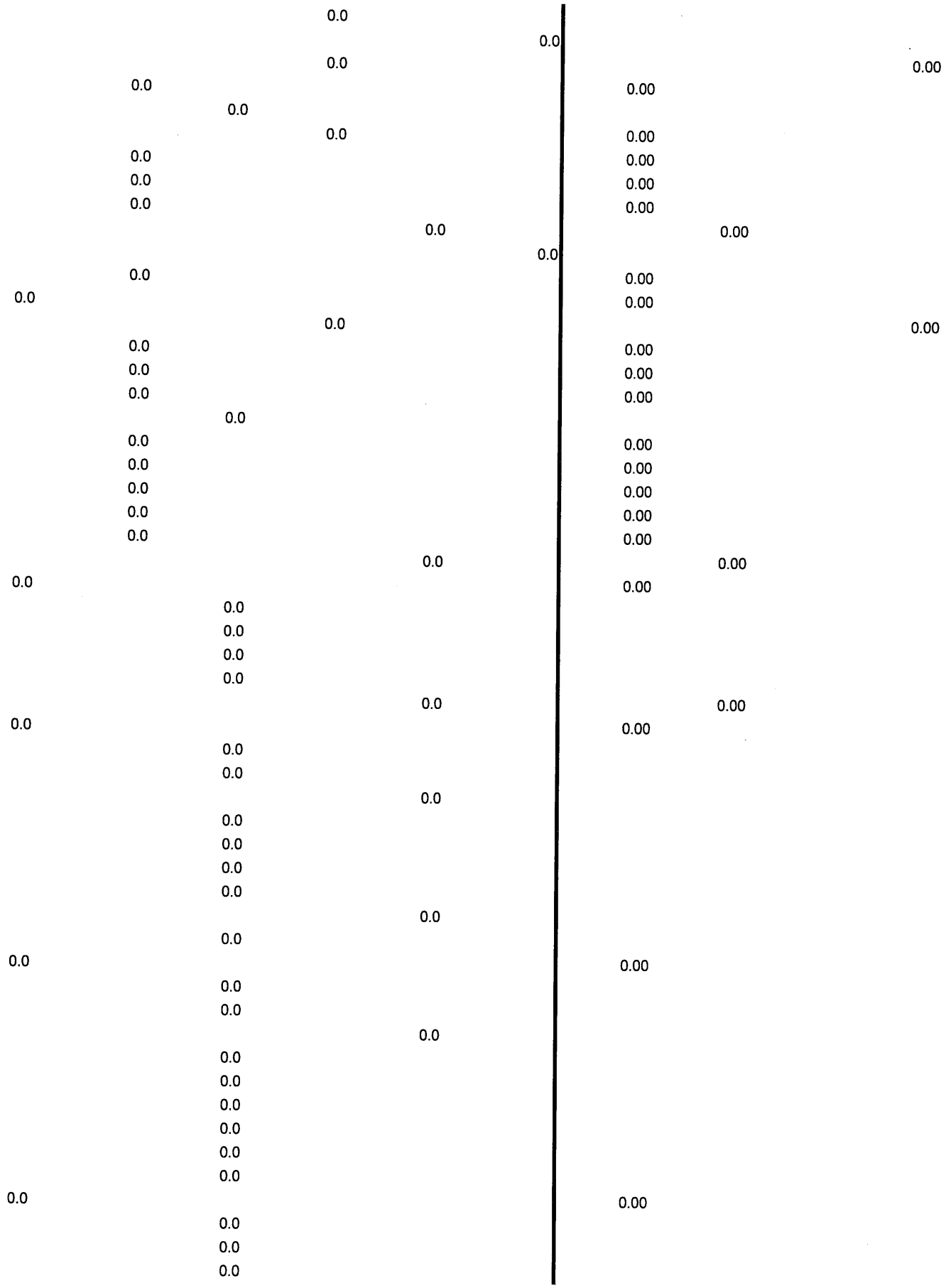
SDG: **225100**
Laboratory Number: **47**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
0.0	2.000	1.00	1.28	1.48	2.57	3.85	4.44	7.7	U	ND		Y
0.0	2.000	1.00	1.28	1.37	2.57	3.85	4.10	7.7	U	ND		Y
0.0	2.000	1.00	1.28	1.58	2.57	3.85	4.75	7.7	U	ND		Y
29.1	2.000	0.67	0.86	1.48	2.57	2.57	4.43	7.7	J	=		Y
0.0	2.000	0.67	0.86	1.55	2.57	2.57	4.64	7.7	U	ND		Y
60.9	2.000	0.50	0.64	1.53	2.57	1.93	4.59	7.7		=		Y
0.0	2.000	2.00	2.57	3.37	2.57	7.70	10.10	7.7	U	ND		Y
0.0	2.000	0.50	0.64	1.48	2.57	1.93	4.43	7.7	U	ND		Y
0.0	2.000	0.50	0.64	1.42	2.57	1.93	4.27	7.7	U	ND		Y
0.0	2.000	0.50	0.64	1.53	2.57	1.93	4.59	7.7	U	ND		Y
0.0	2.000	0.50	0.64	1.48	2.57	1.93	4.43	7.7	U	ND		Y
0.0	2.000	0.50	0.64	1.48	2.57	1.93	4.43	7.7	U	ND		Y
0.0	2.000	1.00	1.28	2.43	2.57	3.85	7.28	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.43	7.7	U	ND		Y
0.0	2.000	0.67	0.86	2.04	2.57	2.57	6.11	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.52	2.57	1.54	4.56	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.43	7.7	U	ND		Y
0.0	2.000	0.67	0.86	2.11	2.57	2.57	6.32	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.43	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.52	2.57	1.54	4.55	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.43	2.57	1.54	4.30	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.43	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.43	7.7	U	ND		Y
0.0	2.000	0.50	0.64	1.95	2.57	1.93	5.85	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.48	2.57	1.54	4.43	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.51	2.57	1.28	4.54	7.7	U	ND		Y
0.0	2.000	0.40	0.51	1.43	2.57	1.54	4.30	7.7	U	ND		Y
0.0	2.000	0.67	0.86	2.11	2.57	2.57	6.32	7.7	U	ND		Y
10.0	2.000	0.40	0.51	1.48	2.57	1.54	4.43	7.7	J	=		Y
0.0	2.000	0.40	0.51	1.86	2.57	1.54	5.57	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.51	2.57	1.28	4.54	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.51	2.57	1.28	4.54	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.51	2.57	1.28	4.54	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.48	2.57	1.28	4.43	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.51	2.57	1.28	4.54	7.7	U	ND		Y
0.0	2.000	0.33	0.43	1.79	2.57	1.28	5.38	7.7	U	ND		Y

0.0	2.000	0.33	0.43	1.44	2.57	1.28	4.32	7.7	U	ND	Y
0.0	2.000	0.33	0.43	1.79	2.57	1.28	5.38	7.7	U	ND	Y
0.0	2.000	0.33	0.43	1.48	2.57	1.28	4.43	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.57	1.10	4.52	7.7	U	ND	Y
0.0	2.000	0.33	0.43	1.37	2.57	1.28	4.11	7.7	U	ND	Y
0.0	2.000	0.33	0.43	1.48	2.57	1.28	4.43	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.57	1.10	4.52	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.57	1.10	4.52	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.57	1.10	4.52	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.48	2.57	1.10	4.43	7.7	U	ND	Y
0.0	2.000	0.33	0.43	1.79	2.57	1.28	5.38	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.51	2.57	1.10	4.52	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.48	2.57	1.10	4.43	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.29	0.37	1.38	2.57	1.10	4.15	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.48	2.57	0.96	4.43	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.50	2.57	0.96	4.51	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.40	2.57	0.96	4.19	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.40	2.57	0.96	4.19	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.37	2.57	0.96	4.11	7.7	U	ND	Y
0.0	2.000	0.25	0.32	1.40	2.57	0.96	4.19	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.48	2.57	0.86	4.43	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.50	2.57	0.86	4.50	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.22	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.22	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.43	2.57	0.77	4.30	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.22	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.22	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.22	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.22	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.43	2.57	0.77	4.30	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.22	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.50	2.57	0.77	4.49	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.41	2.57	0.86	4.22	7.7	U	ND	Y
0.0	2.000	0.22	0.29	1.38	2.57	0.86	4.15	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.43	2.57	0.77	4.30	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.41	2.57	0.77	4.24	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.41	2.57	0.77	4.24	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.41	2.57	0.77	4.24	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.41	2.57	0.77	4.24	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.41	2.57	0.77	4.24	7.7	U	ND	Y
0.0	2.000	0.18	0.23	1.50	2.57	0.70	4.49	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.41	2.57	0.77	4.24	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.41	2.57	0.77	4.24	7.7	U	ND	Y
0.0	2.000	0.20	0.26	1.35	2.57	0.77	4.05	7.7	U	ND	Y

0.0	2.000	0.17	0.21	1.49	2.57	0.64	4.48	7.7	U	ND	Y
%											Y
100.0	45.00	7.5	9.63	34.02	57.77	28.9	102.0	173.3	J	=	Y
100.0	45.00	45.0	57.77	37.88	57.77	173.3	113.6	173.3	J	=	Y
100.0	45.00	5.9	7.60	31.15	57.77	22.8	93.5	173.3	J	=	Y
100.0	45.00	6.4	8.25	32.13	57.77	24.8	96.4	173.3	J	=	Y
100.0	45.00	3.0	3.85	31.25	57.77	11.6	93.8	173.3	J	=	Y
100.0	45.00	7.5	9.63	34.02	57.77	28.9	102.0	173.3	J	=	Y
100.0	45.00	6.4	8.25	31.17	57.77	24.8	93.5	173.3	J	=	Y
100.0	45.00	45.0	57.77	37.88	57.77	173.3	113.6	173.3	J	=	Y
100.0	45.00	3.5	4.44	32.24	57.77	13.3	96.7	173.3	J	=	Y
100.0	45.00	5.6	7.22	34.87	57.77	21.7	104.6	173.3	J	=	Y
0.0	45.00	7.5	9.63	34.02	57.77	28.9	102.0	173.3	U	ND	Y
0.0	25.000	3.6	4.59	17.85	32.10	13.8	53.6	96.3	U	ND	Y
%											Y
18.4											Y
0.0											Y
63.9											Y
0.0											Y
13.1											Y
22.9											Y
0.0											Y
%											Y
0.0	5.000	2.5	3.21	3.96	6.42	9.6	11.9	19.3	U	ND	Y
100.0	5.000	1.7	2.14	3.87	6.42	6.4	11.6	19.3	J	=	Y
0.0	25.000	6.3	8.02	19.11	32.10	24.1	57.3	96.3	U	ND	Y
0.0	25.000	5.0	6.42	18.98	32.10	19.3	56.9	96.3	U	ND	Y
0.0	25.000	4.2	5.35	18.90	32.10	16.0	56.7	96.3	U	ND	Y
0.0	25.000	3.6	4.59	18.83	32.10	13.8	56.5	96.3	U	ND	Y
0.0	25.000	3.1	4.01	18.78	32.10	12.0	56.3	96.3	U	ND	Y
0.0	25.000	2.8	3.57	18.75	32.10	10.7	56.2	96.3	U	ND	Y
0.0	25.000	2.5	3.21	18.72	32.10	9.6	56.2	96.3	U	ND	Y
0.0	25.000	2.3	2.92	18.69	32.10	8.8	56.1	96.3	U	ND	Y
0.0	25.000	2.1	2.67	18.67	32.10	8.0	56.0	96.3	U	ND	Y
0.0	25.000	2.1	2.67	18.67	32.10	8.0	56.0	96.3	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.28	3.80	7.70	3.9	11.4	23.1			Y
0.0	6.0	0.9	1.10	4.52	7.70	3.3	13.6	23.1			Y
0.0	6.0	0.7	0.86	4.50	7.70	2.6	13.5	23.1			Y
0.0	6.0	0.5	0.70	4.10	7.70	2.1	12.3	23.1			Y
0.0	6.0	0.7	0.86	4.01	7.70	2.6	12.0	23.1			Y
0.0	6.0	0.5	0.70	4.08	7.70	2.1	12.3	23.1			Y
0.0	2.0	0.3	0.43	1.51	2.57	1.3	4.5	7.7	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
0.0						0.00			
					6.9		6.95		
0.0						0.00			
	19.4					19.37			
					0.0		0.00		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
	0.0					0.00			
					0.0		0.00		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
	0.0					0.00			
			0.0						0.00
			4.0						3.98
	0.0					0.00			
	0.0					0.00			
	0.0					0.00			
					0.0		0.00		
0.0						0.00			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		0.00
		0.00

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
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			0.00		
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SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**47**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.28	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.14E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.14E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.14E+04	0	0.0	0.00	0.00
Propene	3	TRG	4.5	2.14E+04	4	6.9	2.32	3.99
Propane	3	TRG	44.1	2.14E+04	0	0.0	0.00	0.00
i-Butane	4	TRG	58.1	2.14E+04	11833	19.4	4.84	11.53
Methanol	1	TRG	32.0	2.14E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.14E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.14E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.14E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.14E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.14E+04	2431	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.14E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.14E+04	0	4.0	0.80	2.29
Cyclohexane	5	TRG	88.2	2.14E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.14E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.14E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.14E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.14E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.14E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.14E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.14E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.14E+04	100418	164.3	27.39	96.76	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.14E+04	100418	164.3	164.34	107.76	
Total Volatile Organic Compoun	8	TRG	100.0	2.14E+04	100418	164.3	21.62	88.62	
TPH (gasoline)	7	TRG	95.0	2.14E+04	100418	164.3	23.48	91.41	
TPH (diesel)	15	TRG	198.0	2.14E+04	100418	164.3	10.96	88.91	
TPH (hexane)	6	TRG	86.2	2.14E+04	100418	164.3	27.39	96.76	
TPH (toluene)	7	TRG	92.1	2.14E+04	100418	164.3	23.48	88.66	
TPH (methane)	1	TRG	16.0	2.14E+04	100418	164.3	164.34	107.76	
TPH (Jet A Fuel)	13	TRG	177.0	2.14E+04	100418	164.3	12.64	91.70	
TPH (Mineral Spirits)	8	TRG	117.8	2.14E+04	100418	164.3	20.54	99.19	
C6+ (hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.14E+04		30.3			Sum ID
Paraffins	P	TRG	0.0	2.14E+04		0.0			Sum P
Isoparaffins	I	TRG	0.0	2.14E+04		19.4			Sum I
Aromatics	A	TRG	0.0	2.14E+04		0.0			Sum A
Napthlenes	N	TRG	0.0	2.14E+04		4.0			Sum N
Olefins	O	TRG	0.0	2.14E+04		6.9			Sum O
Oxygenates		TRG	0.0	2.14E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.14E+04	0	0.0	0.00	0.00	
C3 (propane)	3	TRG	44.1	2.14E+04	4244	6.9	2.32	4.18	
C4 (Butane)	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.14E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.14E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.14E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.14E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.14E+04	4244	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 48

File Name: 2510048A
Description: T-312
Canister: 990
QC_Batch: 040225-GCK

Date Sampled: 03/21/25 **Time:** 10:30
Date Analyzed: 04/02/25 **Time:** 17:04
Can Factor: 1.33
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.33	3.98	3.33	1.53	4.58	3.84	J
74-86-2	Acetylene	1.33	3.98	ND	1.41	4.24	ND	ND
74-84-0	Ethane	1.33	3.98	ND	1.63	4.90	ND	ND
115-07-1	Propene	0.88	2.65	5.93	1.52	4.57	10.22	
74-98-6	Propane	0.88	2.65	ND	1.60	4.79	ND	ND
75-28-5	i-Butane	0.66	1.99	ND	1.58	4.73	ND	ND
106-98-9	1-Butene	0.66	1.99	ND	1.52	4.57	ND	ND
106-97-8	n-Butane	0.66	1.99	4.01	1.58	4.73	9.56	
624-64-6	t-2-Butene	0.66	1.99	ND	1.52	4.57	ND	ND
590-18-1	c-2-Butene	0.66	1.99	ND	1.52	4.57	ND	ND
78-78-4	i-Pentane	0.53	1.59	3.63	1.57	4.71	10.74	
109-67-1	1-Pentene	0.53	1.59	ND	1.52	4.57	ND	ND
109-66-0	n-Pentane	0.53	1.59	0.99	1.57	4.70	2.94	J
646-04-8	t-2-Pentene	0.53	1.59	ND	1.52	4.57	ND	ND
627-20-3	c-2-Pentene	0.53	1.59	ND	1.52	4.57	ND	ND
75-83-2	2,2-Dimethylbutane	0.44	1.33	1.66	1.56	4.68	5.85	
142-29-0	Cyclopentene	0.53	1.59	ND	1.48	4.44	ND	ND
287-92-3	Cyclopentane	0.53	1.59	1.90	1.52	4.57	5.45	
79-29-8	2,3-Dimethylbutane	0.44	1.33	ND	1.56	4.68	ND	ND
107-83-5	2-Methylpentane	0.44	1.33	0.82	1.56	4.68	2.91	J
96-14-0	3-Methylpentane	0.44	1.33	ND	1.56	4.68	ND	ND
592-41-6	1-Hexene	0.44	1.33	ND	1.52	4.57	ND	ND
110-54-3	n-Hexane	0.44	1.33	0.95	1.56	4.68	3.35	J
1120-62-3	3-Methylcyclopentene	0.44	1.33	ND	1.49	4.46	ND	ND
96-37-7	Methylcyclopentane	0.44	1.33	0.82	1.52	4.57	2.84	J
108-08-7	2,4-Dimethylpentane	0.38	1.14	ND	1.55	4.66	ND	ND
71-43-2	Benzene	0.44	1.33	0.57	1.41	4.24	1.82	J
110-82-7	Cyclohexane	0.44	1.33	ND	1.52	4.57	ND	ND
591-76-4	2-Methylhexane	0.38	1.14	ND	1.55	4.66	ND	ND
565-59-3	2,3-Dimethylpentane	0.38	1.14	ND	1.55	4.66	ND	ND
589-34-4	3-Methylhexane	0.38	1.14	0.94	1.55	4.66	3.88	J
540-84-1	2,2,4-Trimethylpentane	0.33	0.99	0.97	1.55	4.65	4.55	J
142-82-5	n-Heptane	0.38	1.14	ND	1.55	4.66	ND	ND
108-87-2	Methylcyclohexane	0.38	1.14	ND	1.52	4.57	ND	ND
592-13-2	2,5-Dimethylhexane	0.33	0.99	ND	1.55	4.65	ND	ND
589-43-5	2,4-Dimethylhexane	0.33	0.99	ND	1.55	4.65	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.33	0.99	1.00	1.55	4.65	4.70	

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.38	1.14	1.99	1.43	4.29	7.50	
584-94-1	2,3-Dimethylhexane	0.33	0.99	ND	1.55	4.65	ND	ND
592-27-8	2-Methylheptane	0.33	0.99	ND	1.55	4.65	ND	ND
589-53-7	4-Methylheptane	0.33	0.99	ND	1.55	4.65	ND	ND
589-81-1	3-Methylheptane	0.33	0.99	ND	1.55	4.65	ND	ND
111-65-9	n-Octane	0.33	0.99	ND	1.55	4.65	ND	ND
100-41-4	Ethylbenzene	0.33	0.99	ND	1.44	4.33	ND	ND
108-38-3	m,p-xylene	0.33	0.99	1.73	1.44	4.33	7.54	
100-42-5	Styrene	0.33	0.99	ND	1.41	4.24	ND	ND
95-47-6	o-xylene	0.33	0.99	1.29	1.44	4.33	5.61	
111-84-2	n-Nonane	0.29	0.88	ND	1.55	4.65	ND	ND
98-82-8	i-Propylbenzene	0.29	0.88	ND	1.45	4.35	ND	ND
103-65-1	n-propylbenzene	0.29	0.88	ND	1.45	4.35	ND	ND
620-14-4	3-Ethyltoluene	0.29	0.88	ND	1.45	4.35	ND	ND
622-96-8	4-Ethyltoluene	0.29	0.88	ND	1.45	4.35	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.29	0.88	ND	1.45	4.35	ND	ND
611-14-3	2-Ethyltoluene	0.29	0.88	ND	1.45	4.35	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	0.88	ND	1.45	4.35	ND	ND
124-18-5	n-Decane	0.27	0.80	ND	1.55	4.64	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.29	0.88	ND	1.45	4.35	ND	ND
141-93-5	1,3-Diethylbenzene	0.27	0.80	ND	1.46	4.37	ND	ND
105-05-5	1,4-Diethylbenzene	0.27	0.80	ND	1.46	4.37	ND	ND
104-51-8	n-Butylbenzene	0.27	0.80	ND	1.46	4.37	ND	ND
1120-21-4	Undecane	0.24	0.72	ND	1.54	4.63	ND	ND
91-20-3	Naphthalene	0.27	0.80	ND	1.39	4.18	ND	ND
112-40-3	Dodecane	0.22	0.66	ND	1.54	4.62	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.94	29.81	436.21	35.11	105.33	1,541.05	
TNMHC - C1	Total Non-Methane Hydrocarbons	59.63	178.89	2,617.29	39.10	117.30	1,716.26	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **48**
File Name: **2510048A**
Sample ID: **T-312**
Sampled: **3/21/2025**
Received: **03/21/25**
Analyzed: **04/02/25**
QCBatch: **040225-GCK**
Can: **990**
Can Factor: **1.33**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **10:30** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **17:04** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **385895**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win	C2-C4	C5-C12
RT	**0.3**	**0.1**
RTI	**3**	**3**

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene		P	4.06	4.11	**4.08**	3947	NA	NA	NA		
74-86-2	Acetylene		P	4.10	4.15			NA	NA	NA		
74-84-0	Ethane		P	4.17	**4.17**	**4.22**		I	I	H	200	200
115-07-1	Propene		P	5.11	5.11	**5.12**	10524	I	O	M	286	290
74-98-6	Propane		P	5.20	**5.20**	**5.26**		I	I	H	300	300
75-28-5	i-Butane		P	6.60	**6.66**	**6.60**		I	O	M	344	351
67-56-1	Methanol			8.30	8.36						126	401
106-98-9	1-Butene		P	7.29	7.35	**7.23**		I	I	H	365	367
106-99-0	1,3-Butadiene			**7.48**	7.54						126	373
106-97-8	n-Butane		P	8.34	**8.34**	**8.29**	9507	I	I	H	400	400
624-64-6	t-2-Butene		P	8.75	8.70						201	410
590-18-1	c-2-Butene		P	9.63	9.58						201	431
64-17-5	Ethanol			10.85	10.83						201	461
563-45-1	3-Methyl-1-butene	6		**11.05**	11.03						201	465
67-64-1	Acetone			11.52	11.50						201	476
78-78-4	i-Pentane		P	11.37	11.35	**11.38**	10745	I	I	H	474	473
109-67-1	1-Pentene		P	12.30	12.28						201	495
67-63-0	Isopropanol			12.65	12.63						201	504
563-46-2	2-Methyl-1-butene	9		**12.36**	12.34						201	497
109-66-0	n-Pentane		P	12.48	**12.46**	**12.46**	2942	I	I	H	500	500
78-79-5	Isoprene		P	12.55	12.53						165	503
646-04-8	t-2-Pentene		P	12.79	12.77	**12.76**	1404	I	I	H	508	510
627-20-3	c-2-Pentene		P	13.08	13.06						165	518
75-65-0	Tert butyl alcohol			**13.55**	13.53						278	526
513-35-9	2-Methyl-2-butene	13		**13.62**	13.60						278	520
75-83-2	2,2-Dimethylbutane		P	13.77	13.75	**13.78**	5885	I	I	H	535	537
142-29-0	Cyclopentene	15		**14.61**	14.59						165	551
71-23-8	n-Propanol			**14.75**	14.73						165	558
287-92-3	Cyclopentane		P	14.88	14.86	**14.80**	5614	I	O	M	563	567
1634-04-4	Methyl tert butyl ether			**15.00**	14.98						165	569
79-29-8	2,3-Dimethylbutane		P	15.06	15.04						165	570
107-83-5	2-Methylpentane		P	15.08	15.06	**15.08**	2926	I	I	H	570	571
96-14-0	3-Methylpentane		P	15.55	15.53						165	583
592-41-6	1-Hexene		P	**15.80**	15.78						165	590
110-54-3	n-Hexane		P	16.17	**16.15**	**16.18**	3366	I	I	H	600	600
108-20-3	Diisopropyl ether			**16.30**	16.31						262	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.46						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.81						700	623
96-37-7	Methylcyclopentane		P	16.86	16.87	**16.94**	2926	I	I	H	624	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.06	**17.07**	912	I	I	H	628	626
71-43-2	Benzene		P	17.87	**17.88**	**17.90**	2016	I	I	H	654	651
110-82-7	Cyclohexane		P	18.14	18.17	**18.07**		I	I	H	659	658
591-76-4	2-Methylhexane		P	18.38	18.41						93	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.48	**18.51**		I	I	H	673	671
589-34-4	3-Methylhexane		P	18.66	18.69	**18.68**	3913	I	I	H	678	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.78						93	687
994-05-8	Tert amyl methyl ether			**18.80**	18.83						93	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.12	**19.10**	4607	I	I	H	692	690
142-82-5	n-Heptane		P	19.41	19.44	**19.37**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.12	**20.18**		I	O	M	728	722
592-13-2	2,5-Dimethylhexane			20.35	20.38						32	734
589-43-5	2,4-Dimethylhexane			20.43	20.46						32	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.96	**20.96**	4754	I	I	H	755	753
108-88-3	Toluene		P	21.12	**21.15**	**21.12**	8230	I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						32	763
592-27-8	2-Methylheptane		P	21.33	21.33						32	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						32	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						32	772
589-81-1	3-Methylheptane		p	21.55	21.55						32	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						32	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75						-57	855
108-38-3	m,p-xylene		P	23.95	23.95	**24.03**	8206	I	O	M	868	863
100-42-5	Styrene		P	24.40	24.40						-57	881
95-47-6	o-xylene		P	24.57	24.57	**24.51**	6102	I	I	H	886	886
124-11-8	1-Nonene	64		24.60	24.60						-57	889
111-84-2	n-Nonane		P	24.87	24.87	**24.87**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36	**25.28**		I	I	H	917	919
103-65-1	n-propylbenzene		P	25.93	25.93	**25.95**		I	I	H	945	947
80-56-8	a-Pinene			26.09	26.09						-141	950
620-14-4	3-Ethyltoluene		P	26.17	26.17	**26.15**		I	O	M	954	957
622-96-8	4-Ethyltoluene		P	26.26	26.26	**26.35**		I	I	H	962	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45	**26.54**		I	O	M	970	964
611-14-3	2-Ethyltoluene		P	26.61	26.61	**26.63**		I	I	H	974	975
127-91-3	b-Pinene			26.80	26.80						-141	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08	**27.03**		I	I	H	990	991
124-18-5	n-Decane		P	27.26	27.26	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-48	1014
496-11-7	Indan	81		27.55	27.55						-48	1020
5989-27-5	d-Limonene			27.65	27.65						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10	**28.12**		I	I	H	1033	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-48	1037
104-51-8	n-Butylbenzene			28.45	28.45						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-48	1060
1120-21-4	Undecane		P	29.86	29.95	**29.86**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	32.55	**32.46**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					1549427		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					1549427		150052			
TNMHC - C1	Total Non-Methane Hydrocarbons					1549427		0			
TVOC	Total Volatile Organic Compounds					1399375		0			
TPH(g)	TPH (gasoline)					1399375		0			
TPH(d)	TPH (diesel)					1399375		0			
TPH(h)	TPH (hexane)					1399375		0			
TPH(t)	TPH (toluene)					1399375		0			
TPHC	TPH (methane)					1399375		0			
TPH(Jet A)	TPH (Jet A Fuel)					1399375		**150052**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					1399375					
C6+	**C6+ (hexane)**		16.17	16.15	16.18	**0**		Sum from	16.15	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			3947		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			10524		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**14471**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040225-GCK		
Hexane Std Area:	385895		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.33	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.33		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	6.67	3.33	3.84	6.67	3.33	3.84	3.84	3.84
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Propene	42.1	3	17.78	5.93	10.22	17.78	5.93	10.22	10.22	10.22
Propane	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	16.06	4.01	9.56	16.06	4.01	9.56	9.56	9.56
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	18.15	3.63	10.74	18.15	3.63	10.74	10.74	10.74
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	4.97	0.99	2.94	4.97	0.99	2.94	2.94	2.94
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	2.37	0.47	1.36	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	9.94	1.66	5.85	9.94	1.66	5.85	5.85	5.85
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	9.48	1.90	5.45	9.48	1.90	5.45	5.45	5.45
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	4.94	0.82	2.91	4.94	0.82	2.91	2.91	2.91
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	5.69	**0.95**	3.35	5.69	0.95	3.35	3.35	3.35
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	4.94	0.82	2.84	4.94	0.82	2.84	2.84	2.84
2,4-Dimethylpentane	100.2	7	1.54	0.22	0.90	ND	ND	ND	0	
Benzene	78.1	6	3.41	0.57	1.82	3.41	0.57	1.82	1.82	1.82
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	6.61	0.94	3.88	6.61	0.94	3.88	3.88	3.88
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	7.78	0.97	4.55	7.78	0.97	4.55	4.55	4.55
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	8.03	1.00	4.70	8.03	1.00	4.70	4.70	4.70
Toluene	92.1	7	13.90	1.99	7.50	13.90	1.99	7.50	7.50	7.50
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	13.86	1.73	7.54	13.86	1.73	7.54	7.54	7.54
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	10.31	1.29	5.61	10.31	1.29	5.61	5.61	5.61
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	2617.29	436.2	1541.1	2,617.29	436.21	1,541.05	1,541.05	1,541.05
Total Non-Methane Hydrocarbons	16	1.0	2617.29	2617.3	1716.3	2,617.29	2,617.29	1,716.26	1,716.26	1,716.26
Total Volatile Organic Compounds	100	7.6	2363.82	311.0	1274.7	2,363.82	311.03	1,274.71	1,274.71	1,274.71
TPH (gasoline)	95	7.0	2363.82	337.7	1314.8	2,363.82	337.69	1,314.77	1,314.77	1,314.77
TPH (diesel)	198	15.0	2363.82	157.6	1278.8	2,363.82	157.59	1,278.79	1,278.79	1,278.79
TPH (hexane)	86.2	6.0	2363.82	394.0	1391.8	2,363.82	393.97	1,391.81	1,391.81	1,391.81
TPH (toluene)	92.14	7.0	2363.82	337.7	1275.2	2,363.82	337.69	1,275.19	1,275.19	1,275.19
TPH (methane)	16	1.0	2363.82	2363.8	1550.0	2,363.82	2,363.82	1,550.05	1,550.05	1,550.05
TPH (Jet A Fuel)	177	13.0	2363.82	181.8	1319.0	2,363.82	181.83	1,319.03	1,319.03	1,319.03
TPH (Mineral Spirits)	117.81	8.0	2363.82	295.5	1426.6	2,363.82	295.48	1,426.65	1,426.65	1,426.65
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			166.4	33.2						
Paraffins			26.7							
Isoparaffins			57.0							
Aromatics			41.5							
Napthlenes			14.4							
Olefins			26.8							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	6.67	3.33	4.11	6.67	3.33	4.11	4.11	4.11
C3 (propane)	44.1	3	17.78	5.93	10.71	17.78	5.93	10.71	10.71	10.71
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			24.4							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	5.0	0.83	2.45					
Aliphatic C6-C8	100.2	7	5.7	0.81	3.34					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	9.9	1.66	5.85					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8		
C6+	117.81	8		
Alkanes			83.7	50.3
Alkenes			26.8	16.1
Alkynes			0.0	0.0
Cycloalkanes			14.4	8.7
Cycloalkenes			0.0	0.0
Alcohols			0.0	0.0
Ketones			0.0	0.0
Ethers			0.0	0.0
Aromatics			41.5	24.9
Terpenes			0.0	0.0

SDG: **225100**
Laboratory Number: **48**

Mole %	(1)	(2)	Calc	Calc	Calc	Calc	Calc	Calc				
Result	MDL	MDL	MDL	MDL	MDL	RL	RL	RL		Detect	EPA	Rept
%	ppbC	ppbV	ppbV	ug/m3	ppbC	ppbV	ug/m3	ppbC	Flag	Flan	Flag	Res
10.0	2.000	1.00	1.33	1.53	2.65	3.98	4.58	8.0	J	=		Y
0.0	2.000	1.00	1.33	1.41	2.65	3.98	4.24	8.0	U	ND		Y
0.0	2.000	1.00	1.33	1.63	2.65	3.98	4.90	8.0	U	ND		Y
17.8	2.000	0.67	0.88	1.52	2.65	2.65	4.57	8.0		=		Y
0.0	2.000	0.67	0.88	1.60	2.65	2.65	4.79	8.0	U	ND		Y
0.0	2.000	0.50	0.66	1.58	2.65	1.99	4.73	8.0	U	ND		Y
0.0	2.000	2.00	2.65	3.48	2.65	7.95	10.43	8.0	U	ND		Y
0.0	2.000	0.50	0.66	1.52	2.65	1.99	4.57	8.0	U	ND		Y
0.0	2.000	0.50	0.66	1.47	2.65	1.99	4.41	8.0	U	ND		Y
12.1	2.000	0.50	0.66	1.58	2.65	1.99	4.73	8.0		=		Y
0.0	2.000	0.50	0.66	1.52	2.65	1.99	4.57	8.0	U	ND		Y
0.0	2.000	0.50	0.66	1.52	2.65	1.99	4.57	8.0	U	ND		Y
0.0	2.000	1.00	1.33	2.50	2.65	3.98	7.51	8.0	U	ND		Y
0.0	2.000	0.40	0.53	1.52	2.65	1.59	4.57	8.0	U	ND		Y
0.0	2.000	0.67	0.88	2.10	2.65	2.65	6.31	8.0	U	ND		Y
10.9	2.000	0.40	0.53	1.57	2.65	1.59	4.71	8.0		=		Y
0.0	2.000	0.40	0.53	1.52	2.65	1.59	4.57	8.0	U	ND		Y
0.0	2.000	0.67	0.88	2.18	2.65	2.65	6.53	8.0	U	ND		Y
0.0	2.000	0.40	0.53	1.52	2.65	1.59	4.57	8.0	U	ND		Y
3.0	2.000	0.40	0.53	1.57	2.65	1.59	4.70	8.0	J	=		Y
0.0	2.000	0.40	0.53	1.48	2.65	1.59	4.44	8.0	U	ND		Y
1.4	2.000	0.40	0.53	1.52	2.65	1.59	4.57	8.0	U	ND		Y
0.0	2.000	0.40	0.53	1.52	2.65	1.59	4.57	8.0	U	ND		Y
0.0	2.000	0.50	0.66	2.01	2.65	1.99	6.04	8.0	U	ND		Y
0.0	2.000	0.40	0.53	1.52	2.65	1.59	4.57	8.0	U	ND		Y
5.0	2.000	0.33	0.44	1.56	2.65	1.33	4.68	8.0		=		Y
0.0	2.000	0.40	0.53	1.48	2.65	1.59	4.44	8.0	U	ND		Y
0.0	2.000	0.67	0.88	2.18	2.65	2.65	6.53	8.0	U	ND		Y
5.7	2.000	0.40	0.53	1.52	2.65	1.59	4.57	8.0		=		Y
0.0	2.000	0.40	0.53	1.92	2.65	1.59	5.75	8.0	U	ND		Y
0.0	2.000	0.33	0.44	1.56	2.65	1.33	4.68	8.0	U	ND		Y
2.5	2.000	0.33	0.44	1.56	2.65	1.33	4.68	8.0	J	=		Y
0.0	2.000	0.33	0.44	1.56	2.65	1.33	4.68	8.0	U	ND		Y
0.0	2.000	0.33	0.44	1.52	2.65	1.33	4.57	8.0	U	ND		Y
2.9	2.000	0.33	0.44	1.56	2.65	1.33	4.68	8.0	J	=		Y
0.0	2.000	0.33	0.44	1.85	2.65	1.33	5.55	8.0	U	ND		Y

0.0	2.000	0.33	0.44	1.49	2.65	1.33	4.46	8.0	U	ND	Y
0.0	2.000	0.33	0.44	1.85	2.65	1.33	5.55	8.0	U	ND	Y
2.5	2.000	0.33	0.44	1.52	2.65	1.33	4.57	8.0	J	=	Y
0.7	2.000	0.29	0.38	1.55	2.65	1.14	4.66	8.0	U	ND	Y
1.7	2.000	0.33	0.44	1.41	2.65	1.33	4.24	8.0	J	=	Y
0.0	2.000	0.33	0.44	1.52	2.65	1.33	4.57	8.0	U	ND	Y
0.0	2.000	0.29	0.38	1.55	2.65	1.14	4.66	8.0	U	ND	Y
0.0	2.000	0.29	0.38	1.55	2.65	1.14	4.66	8.0	U	ND	Y
2.8	2.000	0.29	0.38	1.55	2.65	1.14	4.66	8.0	J	=	Y
0.0	2.000	0.29	0.38	1.52	2.65	1.14	4.57	8.0	U	ND	Y
0.0	2.000	0.33	0.44	1.85	2.65	1.33	5.55	8.0	U	ND	Y
2.9	2.000	0.25	0.33	1.55	2.65	0.99	4.65	8.0	J	=	Y
0.0	2.000	0.29	0.38	1.55	2.65	1.14	4.66	8.0	U	ND	Y
0.0	2.000	0.29	0.38	1.52	2.65	1.14	4.57	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.55	2.65	0.99	4.65	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.55	2.65	0.99	4.65	8.0	U	ND	Y
3.0	2.000	0.25	0.33	1.55	2.65	0.99	4.65	8.0		=	Y
6.0	2.000	0.29	0.38	1.43	2.65	1.14	4.29	8.0		=	Y
0.0	2.000	0.25	0.33	1.55	2.65	0.99	4.65	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.55	2.65	0.99	4.65	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.55	2.65	0.99	4.65	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.55	2.65	0.99	4.65	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.55	2.65	0.99	4.65	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.52	2.65	0.99	4.57	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.55	2.65	0.99	4.65	8.0	U	ND	Y
0.0	2.000	0.25	0.33	1.44	2.65	0.99	4.33	8.0	U	ND	Y
5.2	2.000	0.25	0.33	1.44	2.65	0.99	4.33	8.0		=	Y
0.0	2.000	0.25	0.33	1.41	2.65	0.99	4.24	8.0	U	ND	Y
3.9	2.000	0.25	0.33	1.44	2.65	0.99	4.33	8.0		=	Y
0.0	2.000	0.22	0.29	1.52	2.65	0.88	4.57	8.0	U	ND	Y
0.0	2.000	0.22	0.29	1.55	2.65	0.88	4.65	8.0	U	ND	Y
0.0	2.000	0.22	0.29	1.45	2.65	0.88	4.35	8.0	U	ND	Y
0.0	2.000	0.22	0.29	1.45	2.65	0.88	4.35	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.48	2.65	0.80	4.44	8.0	U	ND	Y
0.0	2.000	0.22	0.29	1.45	2.65	0.88	4.35	8.0	U	ND	Y
0.0	2.000	0.22	0.29	1.45	2.65	0.88	4.35	8.0	U	ND	Y
0.0	2.000	0.22	0.29	1.45	2.65	0.88	4.35	8.0	U	ND	Y
0.0	2.000	0.22	0.29	1.45	2.65	0.88	4.35	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.48	2.65	0.80	4.44	8.0	U	ND	Y
0.0	2.000	0.22	0.29	1.45	2.65	0.88	4.35	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.55	2.65	0.80	4.64	8.0	U	ND	Y
0.0	2.000	0.22	0.29	1.45	2.65	0.88	4.35	8.0	U	ND	Y
0.0	2.000	0.22	0.29	1.43	2.65	0.88	4.28	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.48	2.65	0.80	4.44	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.46	2.65	0.80	4.37	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.46	2.65	0.80	4.37	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.46	2.65	0.80	4.37	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.46	2.65	0.80	4.37	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.46	2.65	0.80	4.37	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.46	2.65	0.80	4.37	8.0	U	ND	Y
0.0	2.000	0.18	0.24	1.54	2.65	0.72	4.63	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.46	2.65	0.80	4.37	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.46	2.65	0.80	4.37	8.0	U	ND	Y
0.0	2.000	0.20	0.27	1.39	2.65	0.80	4.18	8.0	U	ND	Y

0.0	2.000	0.17	0.22	1.54	2.65	0.66	4.62	8.0	U	ND	Y
%											Y
100.0	45.00	7.5	9.94	35.11	59.63	29.8	105.3	178.9		=	Y
100.0	45.00	45.0	59.63	39.10	59.63	178.9	117.3	178.9		=	Y
90.3	45.00	5.9	7.85	32.16	59.63	23.5	96.5	178.9		=	Y
90.3	45.00	6.4	8.52	33.17	59.63	25.6	99.5	178.9		=	Y
90.3	45.00	3.0	3.98	32.26	59.63	11.9	96.8	178.9		=	Y
90.3	45.00	7.5	9.94	35.11	59.63	29.8	105.3	178.9		=	Y
90.3	45.00	6.4	8.52	32.17	59.63	25.6	96.5	178.9		=	Y
90.3	45.00	45.0	59.63	39.10	59.63	178.9	117.3	178.9		=	Y
90.3	45.00	3.5	4.59	33.27	59.63	13.8	99.8	178.9		=	Y
90.3	45.00	5.6	7.45	35.99	59.63	22.4	108.0	178.9		=	Y
0.0	45.00	7.5	9.94	35.11	59.63	29.8	105.3	178.9	U	ND	Y
0.0	25.000	3.6	4.73	18.43	33.13	14.2	55.3	99.4	U	ND	Y
%											Y
6.4											Y
16.1											Y
34.2											Y
24.9											Y
8.7											Y
16.1											Y
0.0											Y
%											Y
27.3	5.000	2.5	3.31	4.09	6.63	9.9	12.3	19.9	J	=	Y
72.7	5.000	1.7	2.21	3.99	6.63	6.6	12.0	19.9	J	=	Y
0.0	25.000	6.3	8.28	19.73	33.13	24.8	59.2	99.4	U	ND	Y
0.0	25.000	5.0	6.63	19.59	33.13	19.9	58.8	99.4	U	ND	Y
0.0	25.000	4.2	5.52	19.51	33.13	16.6	58.5	99.4	U	ND	Y
0.0	25.000	3.6	4.73	19.43	33.13	14.2	58.3	99.4	U	ND	Y
0.0	25.000	3.1	4.14	19.38	33.13	12.4	58.1	99.4	U	ND	Y
0.0	25.000	2.8	3.68	19.35	33.13	11.0	58.0	99.4	U	ND	Y
0.0	25.000	2.5	3.31	19.32	33.13	9.9	58.0	99.4	U	ND	Y
0.0	25.000	2.3	3.01	19.29	33.13	9.0	57.9	99.4	U	ND	Y
0.0	25.000	2.1	2.76	19.27	33.13	8.3	57.8	99.4	U	ND	Y
0.0	25.000	2.1	2.76	19.27	33.13	8.3	57.8	99.4	U	ND	Y
100.0											Y
											Y
0.2	6.0	1.0	1.33	3.92	7.95	4.0	11.8	23.9			Y
0.2	6.0	0.9	1.14	4.66	7.95	3.4	14.0	23.9			Y
0.0	6.0	0.7	0.88	4.65	7.95	2.7	13.9	23.9			Y
0.0	6.0	0.5	0.72	4.23	7.95	2.2	12.7	23.9			Y
0.0	6.0	0.7	0.88	4.13	7.95	2.7	12.4	23.9			Y
0.0	6.0	0.5	0.72	4.22	7.95	2.2	12.6	23.9			Y
5.0	2.0	0.3	0.44	1.56	2.65	1.3	4.7	8.0		=	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					6.7		6.67		
					0.0			0.00	
0.0						0.00			
					17.8		17.78		
0.0						0.00			
	0.0					0.00			
					0.0				
					0.0		0.00		
					0.0		0.00		
16.1						16.06			
					0.0		0.00		
					0.0		0.00		
					0.0				
					0.0		0.00		
					0.0				
	18.2					18.15			
					0.0		0.00		
					0.0				
					0.0		0.00		
5.0						4.97			
					0.0		0.00		
					2.4		2.37		
					0.0		0.00		
					0.0				
					0.0		0.00		
	9.9					9.94			
			0.0						0.00
					0.0				
			9.5						9.48
					0.0				
	0.0					0.00			
	4.9					4.94			
	0.0					0.00			
					0.0		0.00		
5.7						5.69			
					0.0				

| | | |

0.0						0.00			
26.7	57.0	41.5	14.4	26.8	0.0	83.7	26.8	0.0	14.4

4.97	14.88		
5.69	23.96		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
	0.00				
	0.00				
	0.00				
				0.00	
				0.00	

0.00

0.00

3.41

0.00

13.90

0.00
13.86
0.00
10.31

0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00

0.00
0.00
0.00
0.00
0.00
0.00
0.00

0.00
0.00
0.00

0.0	0.0	0.0	0.0	41.5	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**48**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.33	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum $\frac{(Astdni)}{(Cstdni)}_i$

2) ppbC = $\frac{6 \text{ Carbons}}{(\text{Avg RFn})} \times \frac{\text{Ansamp}}{\text{SV}} \times \text{CDF} \times 1000 = \textbf{Cn}$

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = $(\text{amt(ppbv)} \times \frac{\text{MW}}{24.4})$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.14E+04	3947	6.7	3.33	3.84
Acetylene	2	TRG	26.0	2.14E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.14E+04	0	0.0	0.00	0.00
Propene	3	TRG	4.5	2.14E+04	4	17.8	5.93	10.22
Propane	3	TRG	44.1	2.14E+04	0	0.0	0.00	0.00
i-Butane	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.14E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.14E+04	9507	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.14E+04	0	16.1	4.01	9.56
c-2-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.14E+04	10745	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.14E+04	0	18.2	3.63	10.74
n-Pentane	5	TRG	70.1	2.14E+04	2942	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.14E+04	1404	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.14E+04	0	5.0	0.99	2.94
2,2-Dimethylbutane	5	TRG	68.1	2.14E+04	5885	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.14E+04	5614	2.4	0.47	1.36
2,3-Dimethylbutane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.14E+04	2926	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.14E+04	3366	9.9	1.66	5.85
Methylcyclopentane	5	TRG	68.1	2.14E+04	2926	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.14E+04	912	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.14E+04	2016	9.5	1.90	5.45
Cyclohexane	5	TRG	88.2	2.14E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.14E+04	0	4.9	0.82	2.91
3-Methylhexane	6	TRG	86.2	2.14E+04	3913	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.14E+04	4607	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.14E+04	0	5.7	0.95	3.35
Methylcyclohexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.14E+04	4754	4.9	0.82	2.84	
Toluene	7	TRG	100.2	2.14E+04	8230	1.5	0.22	0.90	
2,3-Dimethylhexane	6	TRG	78.1	2.14E+04	0	3.4	0.57	1.82	
2-Methylheptane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.14E+04	0	6.6	0.94	3.88	
m,p-xylene	7	TRG	98.2	2.14E+04	8206	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.14E+04	6102	7.8	0.97	4.55	
n-Nonane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.14E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.14E+04	0	8.0	1.00	4.70	
4-Ethyltoluene	7	TRG	92.1	2.14E+04	0	13.9	1.99	7.50	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.14E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.14E+04	0	13.9	1.73	7.54	
n-Butylbenzene	8	TRG	104.2	2.14E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.14E+04	0	10.3	1.29	5.61	
Dodecane	9	TRG	126.2	2.14E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.14E+04	1549427	2617.3	436.21	1541.05	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.14E+04	1549427	2617.3	2617.29	1716.26	
Total Volatile Organic Compoun	8	TRG	100.0	2.14E+04	1399375	2363.8	311.03	1274.71	
TPH (gasoline)	7	TRG	95.0	2.14E+04	1399375	2363.8	337.69	1314.77	
TPH (diesel)	15	TRG	198.0	2.14E+04	1399375	2363.8	157.59	1278.79	
TPH (hexane)	6	TRG	86.2	2.14E+04	1399375	2363.8	393.97	1391.81	
TPH (toluene)	7	TRG	92.1	2.14E+04	1399375	2363.8	337.69	1275.19	
TPH (methane)	1	TRG	16.0	2.14E+04	1399375	2363.8	2363.82	1550.05	
TPH (Jet A Fuel)	13	TRG	177.0	2.14E+04	1399375	2363.8	181.83	1319.03	
TPH (Mineral Spirits)	8	TRG	117.8	2.14E+04	1399375	2363.8	295.48	1426.65	
C6+ (hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.14E+04		166.4			Sum ID
Paraffins	P	TRG	0.0	2.14E+04		26.7			Sum P
Isoparaffins	I	TRG	0.0	2.14E+04		57.0			Sum I
Aromatics	A	TRG	0.0	2.14E+04		41.5			Sum A
Napthlenes	N	TRG	0.0	2.14E+04		14.4			Sum N
Olefins	O	TRG	0.0	2.14E+04		26.8			Sum O
Oxygenates		TRG	0.0	2.14E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.14E+04	3947	6.7	3.33	4.11	
C3 (propane)	3	TRG	44.1	2.14E+04	10524	17.8	5.93	10.71	
C4 (Butane)	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.14E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.14E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.14E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.14E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.14E+04	14471	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: 225100
Laboratory Number: 49

File Name: 2510049A
Description: T-313
Canister: 549
QC_Batch: 040225-GCK

Date Sampled: 03/21/25 **Time:** 10:31
Date Analyzed: 04/02/25 **Time:** 18:02
Can Factor: 1.25
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.25	3.76	1.26	1.44	4.33	1.46	J
74-86-2	Acetylene	1.25	3.76	ND	1.34	4.01	ND	ND
74-84-0	Ethane	1.25	3.76	4.28	1.55	4.64	5.29	
115-07-1	Propene	0.84	2.51	ND	1.44	4.33	ND	ND
74-98-6	Propane	0.84	2.51	1.85	1.51	4.54	3.35	J
75-28-5	i-Butane	0.63	1.88	ND	1.49	4.48	ND	ND
106-98-9	1-Butene	0.63	1.88	ND	1.44	4.33	ND	ND
106-97-8	n-Butane	0.63	1.88	ND	1.49	4.48	ND	ND
624-64-6	t-2-Butene	0.63	1.88	ND	1.44	4.33	ND	ND
590-18-1	c-2-Butene	0.63	1.88	ND	1.44	4.33	ND	ND
78-78-4	i-Pentane	0.50	1.51	ND	1.49	4.46	ND	ND
109-67-1	1-Pentene	0.50	1.51	ND	1.44	4.33	ND	ND
109-66-0	n-Pentane	0.50	1.51	0.79	1.48	4.45	2.33	J
646-04-8	t-2-Pentene	0.50	1.51	ND	1.44	4.33	ND	ND
627-20-3	c-2-Pentene	0.50	1.51	ND	1.44	4.33	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.25	ND	1.48	4.43	ND	ND
142-29-0	Cyclopentene	0.50	1.51	ND	1.40	4.20	ND	ND
287-92-3	Cyclopentane	0.50	1.51	ND	1.44	4.33	ND	ND
79-29-8	2,3-Dimethylbutane	0.42	1.25	ND	1.48	4.43	ND	ND
107-83-5	2-Methylpentane	0.42	1.25	ND	1.48	4.43	ND	ND
96-14-0	3-Methylpentane	0.42	1.25	ND	1.48	4.43	ND	ND
592-41-6	1-Hexene	0.42	1.25	ND	1.44	4.33	ND	ND
110-54-3	n-Hexane	0.42	1.25	ND	1.48	4.43	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.25	ND	1.41	4.22	ND	ND
96-37-7	Methylcyclopentane	0.42	1.25	ND	1.44	4.33	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.08	ND	1.47	4.42	ND	ND
71-43-2	Benzene	0.42	1.25	0.84	1.34	4.02	2.69	J
110-82-7	Cyclohexane	0.42	1.25	ND	1.44	4.33	ND	ND
591-76-4	2-Methylhexane	0.36	1.08	ND	1.47	4.42	ND	ND
565-59-3	2,3-Dimethylpentane	0.36	1.08	ND	1.47	4.42	ND	ND
589-34-4	3-Methylhexane	0.36	1.08	0.37	1.47	4.42	1.53	J
540-84-1	2,2,4-Trimethylpentane	0.31	0.94	ND	1.47	4.40	ND	ND
142-82-5	n-Heptane	0.36	1.08	ND	1.47	4.42	ND	ND
108-87-2	Methylcyclohexane	0.36	1.08	ND	1.44	4.33	ND	ND
592-13-2	2,5-Dimethylhexane	0.31	0.94	ND	1.47	4.40	ND	ND
589-43-5	2,4-Dimethylhexane	0.31	0.94	ND	1.47	4.40	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.31	0.94	ND	1.47	4.40	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.08	ND	1.35	4.06	ND	ND
584-94-1	2,3-Dimethylhexane	0.31	0.94	ND	1.47	4.40	ND	ND
592-27-8	2-Methylheptane	0.31	0.94	ND	1.47	4.40	ND	ND
589-53-7	4-Methylheptane	0.31	0.94	ND	1.47	4.40	ND	ND
589-81-1	3-Methylheptane	0.31	0.94	ND	1.47	4.40	ND	ND
111-65-9	n-Octane	0.31	0.94	ND	1.47	4.40	ND	ND
100-41-4	Ethylbenzene	0.31	0.94	ND	1.37	4.10	ND	ND
108-38-3	m,p-xylene	0.31	0.94	ND	1.37	4.10	ND	ND
100-42-5	Styrene	0.31	0.94	ND	1.34	4.02	ND	ND
95-47-6	o-xylene	0.31	0.94	ND	1.37	4.10	ND	ND
111-84-2	n-Nonane	0.28	0.84	ND	1.47	4.40	ND	ND
98-82-8	i-Propylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
103-65-1	n-propylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.84	ND	1.37	4.12	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.84	ND	1.37	4.12	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.84	ND	1.37	4.12	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
124-18-5	n-Decane	0.25	0.75	ND	1.46	4.39	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.28	0.84	ND	1.37	4.12	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.75	ND	1.38	4.14	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.75	ND	1.38	4.14	ND	ND
104-51-8	n-Butylbenzene	0.25	0.75	ND	1.38	4.14	ND	ND
1120-21-4	Undecane	0.23	0.68	ND	1.46	4.38	ND	ND
91-20-3	Naphthalene	0.25	0.75	ND	1.32	3.96	ND	ND
112-40-3	Dodecane	0.21	0.63	ND	1.46	4.38	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.41	28.23	ND	33.24	99.73	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	56.46	169.38	ND	37.02	111.07	ND	ND

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **49**
File Name: **2510049A**
Sample ID: **T-313**
Sampled: **3/21/2025**
Received: **03/21/25**
Analyzed: **04/02/25**
QCBatch: **040225-GCK**
Can: **549**
Can Factor: **1.25**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **10:31** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **18:02** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **385895**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C4 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.07	**4.05**	1580	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.11			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.18**	5358	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.12**		I	I	H	289	290
74-98-6	Propane	P	5.20	**5.20**	**5.23**	3475	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.63**	**6.60**		I	O	M	344	351
67-56-1	Methanol		8.30	8.33						132	401
106-98-9	1-Butene	P	7.29	7.32	**7.23**		I	I	H	364	367
106-99-0	1,3-Butadiene		**7.48**	7.51						132	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75	**8.73**		I	I	H	409	410
590-18-1	c-2-Butene	P	9.63	9.63						200	431
64-17-5	Ethanol		10.85	10.89						200	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.09						200	465
67-64-1	Acetone		11.52	11.56	**11.47**	1565	I	I	H	475	476
78-78-4	i-Pentane	P	11.37	11.41						200	473
109-67-1	1-Pentene	P	12.30	12.34						200	495
67-63-0	Isopropanol		12.65	12.69						200	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.40						200	497
109-66-0	n-Pentane	P	12.48	**12.52**	**12.52**	2463	I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.59						158	503
646-04-8	t-2-Pentene	P	12.79	12.83	**12.76**		I	O	M	507	510
627-20-3	c-2-Pentene	P	13.08	13.12						158	518
75-65-0	Tert butyl alcohol		**13.55**	13.59						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.66						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.81	**13.78**		I	I	H	534	537
142-29-0	Cyclopentene	15	**14.61**	14.65						158	551
71-23-8	n-Propanol		**14.75**	14.79						158	558
287-92-3	Cyclopentane	P	14.88	14.92	**14.80**		O	O	L	562	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.04						158	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.10						158	570
107-83-5	2-Methylpentane	P	15.08	15.12						158	571
96-14-0	3-Methylpentane	P	15.55	15.59						158	583
592-41-6	1-Hexene	P	**15.80**	15.84						158	590
110-54-3	n-Hexane	P	16.17	**16.21**	**16.18**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.31						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.46						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.81						700	623
96-37-7	Methylcyclopentane		P	16.86	16.87	**16.94**		I	I	H	624	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.06	**17.07**		I	I	H	628	626
71-43-2	Benzene		P	17.87	**17.88**	**17.92**	3148	I	O	M	655	651
110-82-7	Cyclohexane		P	18.14	18.19						93	658
591-76-4	2-Methylhexane		P	18.38	18.43						93	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.50	**18.51**		I	I	H	673	671
589-34-4	3-Methylhexane		P	18.66	18.71	**18.81**	1629	I	O	M	682	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.80						93	687
994-05-8	Tert amyl methyl ether			**18.80**	18.85						93	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.14	**19.10**		I	I	H	692	690
142-82-5	n-Heptane		P	19.41	19.46	**19.37**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.14						32	722
592-13-2	2,5-Dimethylhexane			20.35	20.40						32	734
589-43-5	2,4-Dimethylhexane			20.43	20.48						32	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.98						32	753
108-88-3	Toluene		P	21.12	**21.17**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						32	763
592-27-8	2-Methylheptane		P	21.33	21.33						32	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						32	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						32	772
589-81-1	3-Methylheptane		p	21.55	21.55						32	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						32	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75						-57	855
108-38-3	m,p-xylene		P	23.95	23.95	**23.88**		I	I	H	862	863
100-42-5	Styrene		P	24.40	24.40						-57	881
95-47-6	o-xylene		P	24.57	24.57	**24.51**		I	I	H	886	886
124-11-8	1-Nonene	64		24.60	24.60						-57	889
111-84-2	n-Nonane		P	24.87	24.87	**24.87**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36						-132	919
103-65-1	n-propylbenzene		P	25.93	25.93						-132	947
80-56-8	a-Pinene			26.09	26.09						-132	950
620-14-4	3-Ethyltoluene		P	26.17	26.17						-132	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-132	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45						-132	964
611-14-3	2-Ethyltoluene		P	26.61	26.61						-132	975
127-91-3	b-Pinene			26.80	26.80						-132	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08						-132	991
124-18-5	n-Decane		P	27.26	27.26	**27.28**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-57	1014
496-11-7	Indan	81		27.55	27.55						-57	1020
5989-27-5	d-Limonene			27.65	27.65						-57	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10						-57	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-57	1037
104-51-8	n-Butylbenzene			28.45	28.45						-57	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-57	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-57	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-57	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**				269140	0		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons				269140	0		0			
TNMHC - C1	Total Non-Methane Hydrocarbons				269140	0		0			
TVOC	Total Volatile Organic Compounds					0		0			
TPH(g)	TPH (gasoline)					0		0			
TPH(d)	TPH (diesel)					0		0			
TPH(h)	TPH (hexane)					0		0			
TPH(t)	TPH (toluene)					0		0			
TPHC	TPH (methane)					0		0			
TPH(Jet A)	TPH (Jet A Fuel)					0		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					0					
C6+	**C6+ (hexane)**		16.17	16.21	16.18	**0**		Sum from	16.21	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			6938		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			3475		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**10413**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040225-GCK		
Hexane Std Area:	385895		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.25	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.25		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	2.53	1.26	1.46	2.53	1.26	1.46	1.46	1.46
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	8.57	4.28	5.29	8.57	4.28	5.29	5.29	5.29
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	5.56	1.85	3.35	5.56	1.85	3.35	3.35	3.35
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	2.50	0.83	1.99	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	3.94	0.79	2.33	3.94	0.79	2.33	2.33	2.33
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Benzene	78.1	6	5.03	0.84	2.69	5.03	0.84	2.69	2.69	2.69
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylhexane	100.2	7	2.61	0.37	1.53	2.61	0.37	1.53	1.53	1.53
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0	
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0	
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
Total Non-Methane Hydrocarbons	16	1.0	0.00	0.0	0.0	ND	ND	ND	0	
Total Volatile Organic Compounds	100	7.6	0.00	0.0	0.0	ND	ND	ND	0	
TPH (gasoline)	95	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (diesel)	198	15.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (toluene)	92.14	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (methane)	16	1.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Jet A Fuel)	177	13.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Mineral Spirits)	117.81	8.0	0.00	0.0	0.0	ND	ND	ND	0	
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			30.7	10.2						
Paraffins			18.1							
Isoparaffins			2.6							
Aromatics			5.0							
Napthlenes			0.0							
Olefins			2.5							
Oxygenates			2.5							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	11.10	5.55	6.84	11.10	5.55	6.84	6.84	6.84
C3 (propane)	44.1	3	5.56	1.85	3.35	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			16.7							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	3.9	0.66	1.94					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	20.7	67.3
Alkenes	2.5	8.2
Alkynes	0.0	0.0
Cycloalkanes	0.0	0.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	2.5	8.1
Ethers	0.0	0.0
Aromatics	5.0	16.4
Terpenes	0.0	0.0

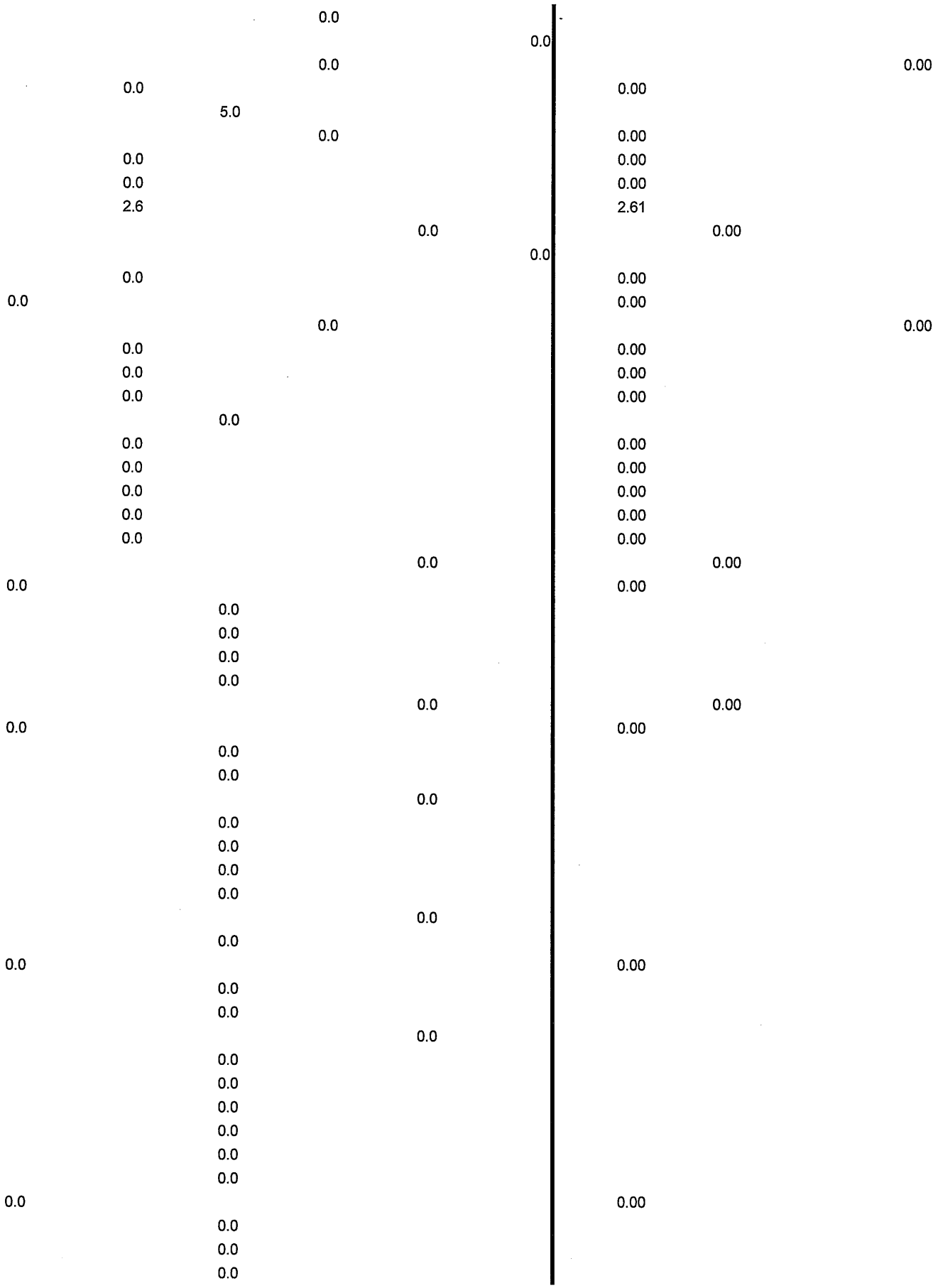
SDG: **225100**
Laboratory Number: **49**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
12.3	2.000	1.00	1.25	1.44	2.51	3.76	4.33	7.5	J	=		Y
0.0	2.000	1.00	1.25	1.34	2.51	3.76	4.01	7.5	U	ND		Y
41.9	2.000	1.00	1.25	1.55	2.51	3.76	4.64	7.5		=		Y
0.0	2.000	0.67	0.84	1.44	2.51	2.51	4.33	7.5	U	ND		Y
18.1	2.000	0.67	0.84	1.51	2.51	2.51	4.54	7.5	J	=		Y
0.0	2.000	0.50	0.63	1.49	2.51	1.88	4.48	7.5	U	ND		Y
0.0	2.000	2.00	2.51	3.29	2.51	7.53	9.87	7.5	U	ND		Y
0.0	2.000	0.50	0.63	1.44	2.51	1.88	4.33	7.5	U	ND		Y
0.0	2.000	0.50	0.63	1.39	2.51	1.88	4.17	7.5	U	ND		Y
0.0	2.000	0.50	0.63	1.49	2.51	1.88	4.48	7.5	U	ND		Y
0.0	2.000	0.50	0.63	1.44	2.51	1.88	4.33	7.5	U	ND		Y
0.0	2.000	0.50	0.63	1.44	2.51	1.88	4.33	7.5	U	ND		Y
0.0	2.000	1.00	1.25	2.37	2.51	3.76	7.11	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.51	1.51	4.33	7.5	U	ND		Y
8.2	2.000	0.67	0.84	1.99	2.51	2.51	5.98	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.49	2.51	1.51	4.46	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.51	1.51	4.33	7.5	U	ND		Y
0.0	2.000	0.67	0.84	2.06	2.51	2.51	6.18	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.51	1.51	4.33	7.5	U	ND		Y
7.7	2.000	0.40	0.50	1.48	2.51	1.51	4.45	7.5	J	=		Y
0.0	2.000	0.40	0.50	1.40	2.51	1.51	4.20	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.51	1.51	4.33	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.51	1.51	4.33	7.5	U	ND		Y
0.0	2.000	0.50	0.63	1.91	2.51	1.88	5.72	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.51	1.51	4.33	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.48	2.51	1.25	4.43	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.40	2.51	1.51	4.20	7.5	U	ND		Y
0.0	2.000	0.67	0.84	2.06	2.51	2.51	6.18	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.51	1.51	4.33	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.81	2.51	1.51	5.44	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.48	2.51	1.25	4.43	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.48	2.51	1.25	4.43	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.48	2.51	1.25	4.43	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.44	2.51	1.25	4.33	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.48	2.51	1.25	4.43	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.75	2.51	1.25	5.26	7.5	U	ND		Y

0.0	2.000	0.33	0.42	1.41	2.51	1.25	4.22	7.5	U	ND	Y
0.0	2.000	0.33	0.42	1.75	2.51	1.25	5.26	7.5	U	ND	Y
0.0	2.000	0.33	0.42	1.44	2.51	1.25	4.33	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.47	2.51	1.08	4.42	7.5	U	ND	Y
8.2	2.000	0.33	0.42	1.34	2.51	1.25	4.02	7.5	J	=	Y
0.0	2.000	0.33	0.42	1.44	2.51	1.25	4.33	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.47	2.51	1.08	4.42	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.47	2.51	1.08	4.42	7.5	U	ND	Y
3.6	2.000	0.29	0.36	1.47	2.51	1.08	4.42	7.5	J	=	Y
0.0	2.000	0.29	0.36	1.44	2.51	1.08	4.33	7.5	U	ND	Y
0.0	2.000	0.33	0.42	1.75	2.51	1.25	5.26	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.47	2.51	0.94	4.40	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.47	2.51	1.08	4.42	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.44	2.51	1.08	4.33	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.47	2.51	0.94	4.40	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.47	2.51	0.94	4.40	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.47	2.51	0.94	4.40	7.5	U	ND	Y
0.0	2.000	0.29	0.36	1.35	2.51	1.08	4.06	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.47	2.51	0.94	4.40	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.47	2.51	0.94	4.40	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.47	2.51	0.94	4.40	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.47	2.51	0.94	4.40	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.47	2.51	0.94	4.40	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.44	2.51	0.94	4.33	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.47	2.51	0.94	4.40	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.37	2.51	0.94	4.10	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.37	2.51	0.94	4.10	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.34	2.51	0.94	4.02	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.37	2.51	0.94	4.10	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.44	2.51	0.84	4.33	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.47	2.51	0.84	4.40	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.51	0.84	4.12	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.51	0.84	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.51	0.75	4.20	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.51	0.84	4.12	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.51	0.84	4.12	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.51	0.84	4.12	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.51	0.84	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.51	0.75	4.20	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.51	0.84	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.46	2.51	0.75	4.39	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.51	0.84	4.12	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.35	2.51	0.84	4.05	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.51	0.75	4.20	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.51	0.75	4.14	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.51	0.75	4.14	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.51	0.75	4.14	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.51	0.75	4.14	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.51	0.75	4.14	7.5	U	ND	Y
0.0	2.000	0.18	0.23	1.46	2.51	0.68	4.38	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.51	0.75	4.14	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.38	2.51	0.75	4.14	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.32	2.51	0.75	3.96	7.5	U	ND	Y

0.0	2.000	0.17	0.21	1.46	2.51	0.63	4.38	7.5	U	ND	Y
%											Y
100.0	45.00	7.5	9.41	33.24	56.46	28.2	99.7	169.4	U	ND	Y
100.0	45.00	45.0	56.46	37.02	56.46	169.4	111.1	169.4	U	ND	Y
100.0	45.00	5.9	7.43	30.45	56.46	22.3	91.3	169.4	U	ND	Y
100.0	45.00	6.4	8.07	31.40	56.46	24.2	94.2	169.4	U	ND	Y
100.0	45.00	3.0	3.76	30.54	56.46	11.3	91.6	169.4	U	ND	Y
100.0	45.00	7.5	9.41	33.24	56.46	28.2	99.7	169.4	U	ND	Y
100.0	45.00	6.4	8.07	30.46	56.46	24.2	91.4	169.4	U	ND	Y
100.0	45.00	45.0	56.46	37.02	56.46	169.4	111.1	169.4	U	ND	Y
100.0	45.00	3.5	4.34	31.51	56.46	13.0	94.5	169.4	U	ND	Y
100.0	45.00	5.6	7.06	34.08	56.46	21.2	102.2	169.4	U	ND	Y
0.0	45.00	7.5	9.41	33.24	56.46	28.2	99.7	169.4	U	ND	Y
0.0	25.000	3.6	4.48	17.45	31.37	13.4	52.3	94.1	U	ND	Y
%											Y
100.0											Y
58.8											Y
8.5											Y
16.4											Y
0.0											Y
8.2											Y
8.1											Y
%											Y
66.6	5.000	2.5	3.14	3.87	6.27	9.4	11.6	18.8	J	=	Y
33.4	5.000	1.7	2.09	3.78	6.27	6.3	11.3	18.8	U	ND	Y
0.0	25.000	6.3	7.84	18.68	31.37	23.5	56.0	94.1	U	ND	Y
0.0	25.000	5.0	6.27	18.55	31.37	18.8	55.7	94.1	U	ND	Y
0.0	25.000	4.2	5.23	18.47	31.37	15.7	55.4	94.1	U	ND	Y
0.0	25.000	3.6	4.48	18.40	31.37	13.4	55.2	94.1	U	ND	Y
0.0	25.000	3.1	3.92	18.35	31.37	11.8	55.1	94.1	U	ND	Y
0.0	25.000	2.8	3.49	18.32	31.37	10.5	55.0	94.1	U	ND	Y
0.0	25.000	2.5	3.14	18.29	31.37	9.4	54.9	94.1	U	ND	Y
0.0	25.000	2.3	2.85	18.27	31.37	8.6	54.8	94.1	U	ND	Y
0.0	25.000	2.1	2.61	18.24	31.37	7.8	54.7	94.1	U	ND	Y
0.0	25.000	2.1	2.61	18.24	31.37	7.8	54.7	94.1	U	ND	Y
100.0											Y
											Y
#########	6.0	1.0	1.25	3.71	7.53	3.8	11.1	22.6			Y
0.0	6.0	0.9	1.08	4.42	7.53	3.2	13.2	22.6			Y
0.0	6.0	0.7	0.84	4.40	7.53	2.5	13.2	22.6			Y
0.0	6.0	0.5	0.68	4.01	7.53	2.1	12.0	22.6			Y
0.0	6.0	0.7	0.84	3.91	7.53	2.5	11.7	22.6			Y
0.0	6.0	0.5	0.68	3.99	7.53	2.1	12.0	22.6			Y
0.0	2.0	0.3	0.42	1.48	2.51	1.3	4.4	7.5	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					2.5		2.53		
					0.0			0.00	
8.6						8.57			
					0.0		0.00		
5.6						5.56			
	0.0					0.00			
						0.0			
					0.0		0.00		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
						2.5			
	0.0					0.00			
					0.0		0.00		
						0.0			
					0.0		0.00		
3.9						3.94			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
	0.0					0.00			
			0.0						0.00
						0.0			
			0.0						0.00
						0.0			
	0.0					0.00			
	0.0					0.00			
	0.0					0.00			
					0.0		0.00		
0.0						0.00			
						0.0			


0.0
0.0
0.0
0.0
5.0
0.0
0.0
0.0
2.6
0.0
0.0
0.0

0.0						0.00			
18.1	2.6	5.0	0.0	2.5	2.5	20.7	2.5	0.0	0.0

3.94	0.00		
0.00	2.61		
0.00	0.00		
0.00	0.00		
		0.00	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
		2.50			
	0.00				
	0.00				
	0.00				
			0.00		
			0.00		

0.00

0.00

5.03

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0.00

0.0	0.0	2.5	0.0	5.0	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**49**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.25	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.14E+04	1580	2.5	1.26	1.46
Acetylene	2	TRG	26.0	2.14E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.14E+04	5358	8.6	4.28	5.29
Propene	3	TRG	4.5	2.14E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.14E+04	3475	5.6	1.85	3.35
i-Butane	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.14E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.14E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.14E+04	0	2.5	0.83	1.99
Isopropanol	5	TRG	72.2	2.14E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.14E+04	2463	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.14E+04	0	3.9	0.79	2.33
2,2-Dimethylbutane	5	TRG	68.1	2.14E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.14E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.14E+04	3148	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.14E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.14E+04	1629	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.14E+04	0	5.0	0.84	2.69	
2-Methylheptane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.14E+04	0	2.6	0.37	1.53	
m,p-xylene	7	TRG	98.2	2.14E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.14E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.14E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.14E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.14E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.14E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.14E+04	0	0.0	0.00	0.00	
Total Volatile Organic Compoun	8	TRG	100.0	2.14E+04	0	0.0	0.00	0.00	
TPH (gasoline)	7	TRG	95.0	2.14E+04	0	0.0	0.00	0.00	
TPH (diesel)	15	TRG	198.0	2.14E+04	0	0.0	0.00	0.00	
TPH (hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	
TPH (toluene)	7	TRG	92.1	2.14E+04	0	0.0	0.00	0.00	
TPH (methane)	1	TRG	16.0	2.14E+04	0	0.0	0.00	0.00	
TPH (Jet A Fuel)	13	TRG	177.0	2.14E+04	0	0.0	0.00	0.00	
TPH (Mineral Spirits)	8	TRG	117.8	2.14E+04	0	0.0	0.00	0.00	
C6+ (hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.14E+04		30.7			Sum ID
Paraffins	P	TRG	0.0	2.14E+04		18.1			Sum P
Isoparaffins	I	TRG	0.0	2.14E+04		2.6			Sum I
Aromatics	A	TRG	0.0	2.14E+04		5.0			Sum A
Napthlenes	N	TRG	0.0	2.14E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.14E+04		2.5			Sum O
Oxygenates		TRG	0.0	2.14E+04		2.5			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.14E+04	6938	11.1	5.55	6.84	
C3 (propane)	3	TRG	44.1	2.14E+04	3475	5.6	1.85	3.35	
C4 (Butane)	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.14E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.14E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.14E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.14E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.14E+04	10413	0.0	0.00	0.00

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

SDG: 225100
Analytical Method: TO-14FID
Laboratory Number: 50

File Name: 2510050A
Description: T-314
Canister: 784
QC_Batch: 040225-GCK

Date Sampled: 03/21/25 **Time:** 10:38
Date Analyzed: 04/02/25 **Time:** 18:57
Can Factor: 1.25
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.25	3.75	ND	1.44	4.32	ND	ND
74-86-2	Acetylene	1.25	3.75	ND	1.33	3.99	ND	ND
74-84-0	Ethane	1.25	3.75	4.00	1.54	4.62	4.94	
115-07-1	Propene	0.83	2.50	2.43	1.44	4.31	4.19	J
74-98-6	Propane	0.83	2.50	2.65	1.51	4.52	4.78	
75-28-5	i-Butane	0.62	1.87	ND	1.49	4.46	ND	ND
106-98-9	1-Butene	0.62	1.87	ND	1.44	4.31	ND	ND
106-97-8	n-Butane	0.62	1.87	ND	1.49	4.46	ND	ND
624-64-6	t-2-Butene	0.62	1.87	ND	1.44	4.31	ND	ND
590-18-1	c-2-Butene	0.62	1.87	ND	1.44	4.31	ND	ND
78-78-4	i-Pentane	0.50	1.50	3.31	1.48	4.44	9.79	
109-67-1	1-Pentene	0.50	1.50	ND	1.44	4.31	ND	ND
109-66-0	n-Pentane	0.50	1.50	ND	1.48	4.43	ND	ND
646-04-8	t-2-Pentene	0.50	1.50	ND	1.44	4.31	ND	ND
627-20-3	c-2-Pentene	0.50	1.50	ND	1.44	4.31	ND	ND
75-83-2	2,2-Dimethylbutane	0.42	1.25	2.03	1.47	4.41	7.18	
142-29-0	Cyclopentene	0.50	1.50	ND	1.40	4.19	ND	ND
287-92-3	Cyclopentane	0.50	1.50	2.39	1.44	4.31	6.85	
79-29-8	2,3-Dimethylbutane	0.42	1.25	ND	1.47	4.41	ND	ND
107-83-5	2-Methylpentane	0.42	1.25	0.94	1.47	4.41	3.30	J
96-14-0	3-Methylpentane	0.42	1.25	1.78	1.47	4.41	6.28	
592-41-6	1-Hexene	0.42	1.25	ND	1.44	4.31	ND	ND
110-54-3	n-Hexane	0.42	1.25	ND	1.47	4.41	ND	ND
1120-62-3	3-Methylcyclopentene	0.42	1.25	ND	1.40	4.20	ND	ND
96-37-7	Methylcyclopentane	0.42	1.25	ND	1.44	4.31	ND	ND
108-08-7	2,4-Dimethylpentane	0.36	1.07	ND	1.47	4.40	ND	ND
71-43-2	Benzene	0.42	1.25	0.72	1.33	4.00	2.30	J
110-82-7	Cyclohexane	0.42	1.25	2.02	1.44	4.31	6.96	
591-76-4	2-Methylhexane	0.36	1.07	2.17	1.47	4.40	8.92	
565-59-3	2,3-Dimethylpentane	0.36	1.07	ND	1.47	4.40	ND	ND
589-34-4	3-Methylhexane	0.36	1.07	0.55	1.47	4.40	2.26	J
540-84-1	2,2,4-Trimethylpentane	0.31	0.94	3.65	1.46	4.39	17.10	
142-82-5	n-Heptane	0.36	1.07	ND	1.47	4.40	ND	ND
108-87-2	Methylcyclohexane	0.36	1.07	1.03	1.44	4.31	4.13	J
592-13-2	2,5-Dimethylhexane	0.31	0.94	0.56	1.46	4.39	2.64	J
589-43-5	2,4-Dimethylhexane	0.31	0.94	1.23	1.46	4.39	5.73	
565-75-3	2,3,4-Trimethylpentane	0.31	0.94	2.29	1.46	4.39	10.74	

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.36	1.07	3.13	1.35	4.04	11.82	
584-94-1	2,3-Dimethylhexane	0.31	0.94	1.60	1.46	4.39	7.50	
592-27-8	2-Methylheptane	0.31	0.94	0.98	1.46	4.39	4.59	
589-53-7	4-Methylheptane	0.31	0.94	0.43	1.46	4.39	2.03	J
589-81-1	3-Methylheptane	0.31	0.94	0.97	1.46	4.39	4.55	
111-65-9	n-Octane	0.31	0.94	ND	1.46	4.39	ND	ND
100-41-4	Ethylbenzene	0.31	0.94	1.33	1.36	4.08	5.79	
108-38-3	m,p-xylene	0.31	0.94	2.75	1.36	4.08	11.97	
100-42-5	Styrene	0.31	0.94	ND	1.33	4.00	ND	ND
95-47-6	o-xylene	0.31	0.94	2.57	1.36	4.08	11.17	
111-84-2	n-Nonane	0.28	0.83	29.78	1.46	4.38	156.56	
98-82-8	i-Propylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
103-65-1	n-propylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
620-14-4	3-Ethyltoluene	0.28	0.83	ND	1.37	4.10	ND	ND
622-96-8	4-Ethyltoluene	0.28	0.83	ND	1.37	4.10	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
611-14-3	2-Ethyltoluene	0.28	0.83	ND	1.37	4.10	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
124-18-5	n-Decane	0.25	0.75	14.37	1.46	4.37	83.80	
526-73-8	1,2,3-Trimethylbenzene	0.28	0.83	ND	1.37	4.10	ND	ND
141-93-5	1,3-Diethylbenzene	0.25	0.75	ND	1.37	4.12	ND	ND
105-05-5	1,4-Diethylbenzene	0.25	0.75	ND	1.37	4.12	ND	ND
104-51-8	n-Butylbenzene	0.25	0.75	ND	1.37	4.12	ND	ND
1120-21-4	Undecane	0.23	0.68	ND	1.46	4.37	ND	ND
91-20-3	Naphthalene	0.25	0.75	ND	1.31	3.94	ND	ND
112-40-3	Dodecane	0.21	0.62	ND	1.45	4.36	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	9.37	28.12	895.18	33.11	99.33	3,162.49	
TNMHC - C1	Total Non-Methane Hydrocarbons	56.23	168.70	5,371.10	36.87	110.62	3,522.03	

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **225100**
EAS ID: **50**
File Name: **2510050A**
Sample ID: **T-314**
Sampled: **3/21/2025**
Received: **03/21/25**
Analyzed: **04/02/25**
QCBatch: **040225-GCK**
Can: **784**
Can Factor: **1.25**
Volume: **200.0**
Type: **SA**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **10:38** Matrix **AA**
Time: **14:30** Chem **TRG**
Time: **18:57** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **385895**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C5 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.08	**4.04**	1064	NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.12			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.19**	5025	I	I	H	200	200
115-07-1	Propene	P	5.11	5.11	**5.12**	4568	I	I	H	291	290
74-98-6	Propane	P	5.20	**5.20**	**5.21**	4982	I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.61**	**6.60**		I	O	M	344	351
67-56-1	Methanol		8.30	8.31						134	401
106-98-9	1-Butene	P	7.29	7.30	**7.26**	1515	I	I	H	365	367
106-99-0	1,3-Butadiene		**7.48**	7.49						134	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75	**8.86**		O	I	M	412	410
590-18-1	c-2-Butene	P	9.63	9.63						200	431
64-17-5	Ethanol		10.85	10.89						200	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.09						200	465
67-64-1	Acetone		11.52	11.56						200	476
78-78-4	i-Pentane	P	11.37	11.41	**11.40**	10387	I	I	H	473	473
109-67-1	1-Pentene	P	12.30	12.34						200	495
67-63-0	Isopropanol		12.65	12.69						200	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.40						200	497
109-66-0	n-Pentane	P	12.48	**12.52**	**12.52**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.59						158	503
646-04-8	t-2-Pentene	P	12.79	12.83	**12.76**		I	O	M	507	510
627-20-3	c-2-Pentene	P	13.08	13.12						158	518
75-65-0	Tert butyl alcohol		**13.55**	13.59						278	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.66						278	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.81	**13.81**	7654	I	I	H	535	537
142-29-0	Cyclopentene	15	**14.61**	14.65						158	551
71-23-8	n-Propanol		**14.75**	14.79						158	558
287-92-3	Cyclopentane	P	14.88	14.92	**14.92**	7486	I	I	H	566	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.04						158	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.10						158	570
107-83-5	2-Methylpentane	P	15.08	15.12	**15.10**	3523	I	I	H	570	571
96-14-0	3-Methylpentane	P	15.55	15.59	**15.60**	6698	I	I	H	584	583
592-41-6	1-Hexene	P	**15.80**	15.84						158	590
110-54-3	n-Hexane	P	16.17	**16.21**	**16.18**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.31						262	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.46						215	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.81						215	623
96-37-7	Methylcyclopentane		P	16.86	16.87	**16.94**		I	I	H	623	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.06	**17.08**	972	I	I	H	628	626
71-43-2	Benzene		P	17.87	**17.88**	**17.92**	2709	I	I	H	653	651
110-82-7	Cyclohexane		P	18.14	18.19	**18.17**	7597	I	I	H	661	658
591-76-4	2-Methylhexane		P	18.38	18.43	**18.48**	9546	I	I	H	670	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.50	**18.59**	959	I	I	H	674	671
589-34-4	3-Methylhexane		P	18.66	18.71	**18.71**	2416	I	I	H	677	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.80						105	687
994-05-8	Tert amyl methyl ether			**18.80**	18.85						105	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.14	**19.12**	18352	I	I	H	690	690
142-82-5	n-Heptane		P	19.41	19.46	**19.45**	1189	I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.14	**20.13**	4512	I	I	H	724	722
592-13-2	2,5-Dimethylhexane			20.35	20.40	**20.39**	2836	I	I	H	732	734
589-43-5	2,4-Dimethylhexane			20.43	20.48	**20.46**	6153	I	I	H	735	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.98	**20.96**	11521	I	I	H	752	753
108-88-3	Toluene		P	21.12	**21.17**	**21.12**	13759	I	I	H	758	758
584-94-1	2,3-Dimethylhexane			21.20	21.20	**21.24**	8043	I	I	H	762	763
592-27-8	2-Methylheptane		P	21.33	21.33	**21.37**	4928	I	I	H	766	768
589-53-7	4-Methylheptane	48		**21.48**	21.48	**21.51**	2178	I	O	M	771	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						30	772
589-81-1	3-Methylheptane		p	21.55	21.55	**21.62**	4880	I	I	H	775	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						30	786
111-65-9	n-Octane		P	22.27	22.27	**22.35**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75	**23.73**	6686	I	I	H	854	855
108-38-3	m,p-xylene		P	23.95	23.95	**23.86**	13812	I	O	M	859	863
100-42-5	Styrene		P	24.40	24.40						-80	881
95-47-6	o-xylene		P	24.57	24.57	**24.49**	12892	I	I	H	884	886
124-11-8	1-Nonene	64		24.60	24.60						-80	889
111-84-2	n-Nonane		P	24.87	24.87	**24.89**	168221	I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36	**25.39**		I	O	M	923	919
103-65-1	n-propylbenzene		P	25.93	25.93	**25.94**		I	I	H	947	947
80-56-8	a-Pinene			26.09	26.09						-221	950
620-14-4	3-Ethyltoluene		P	26.17	26.17	**26.17**		I	I	H	958	957
622-96-8	4-Ethyltoluene		P	26.26	26.26	**26.30**		I	O	M	964	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45	**26.43**		I	O	M	969	964
611-14-3	2-Ethyltoluene		P	26.61	26.61	**26.64**		I	O	M	979	975
127-91-3	b-Pinene			26.80	26.80	**26.88**		I	O	M	990	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08	**27.11**		I	O	M	1000	991
124-18-5	n-Decane		P	27.26	27.26	**27.11**	90200	O	I	M	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						14	1014
496-11-7	Indan	81		27.55	27.55						14	1020
5989-27-5	d-Limonene			27.65	27.65						14	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10	**28.16**		I	O	M	1038	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23	**28.24**		I	O	M	1041	1037
104-51-8	n-Butylbenzene			28.45	28.45						14	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						14	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						14	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						14	1060
1120-21-4	Undecane		P	29.86	29.84	**29.86**		I	I	H	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
527-53-7	1,2,3,5-Tetramethylbenzene		30.50	30.50						-48	1124
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	32.44	**32.46**		I	I	H	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					3371691		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					3371691		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					3371691		0			
TVOC	Total Volatile Organic Compounds					3371691		0			
TPH(g)	TPH (gasoline)					3371691		0			
TPH(d)	TPH (diesel)					3371691		0			
TPH(h)	TPH (hexane)					3371691		0			
TPH(t)	TPH (toluene)					3371691		0			
TPHC	TPH (methane)					3371691		0			
TPH(Jet A)	TPH (Jet A Fuel)					3371691		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					3371691					
C6+	**C6+ (hexane)**		16.17	16.21	16.18	**0**		Sum from	16.21	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			6089		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			9550		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**15639**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040225-GCK
Hexane Std Area:	385895
Hexane Conc.	18.05
Standard Volume:	1.00
Can Dilution Factor:	1.25
Air Volume:	200.00
Combined Factor:	1.25
Gas Constant:	24.4
Decimal Places:	2

Oxygenate Response	0.75
ND Flag:	ND
MDL Factor	1

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	1.69	0.85	0.98	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	8.00	4.00	4.94	8.00	4.00	4.94	4.94	4.94
Propene	42.1	3	7.28	2.43	4.19	7.28	2.43	4.19	4.19	4.19
Propane	44.1	3	7.94	2.65	4.78	7.94	2.65	4.78	4.78	4.78
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	2.41	0.60	1.39	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	16.55	3.31	9.79	16.55	3.31	9.79	9.79	9.79
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	12.19	2.03	7.18	12.19	2.03	7.18	7.18	7.18
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	11.93	2.39	6.85	11.93	2.39	6.85	6.85	6.85
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	5.61	0.94	3.30	5.61	0.94	3.30	3.30	3.30
3-Methylpentane	86.2	6	10.67	1.78	6.28	10.67	1.78	6.28	6.28	6.28
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	

3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	
Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,4-Dimethylpentane	100.2	7	1.55	0.22	0.91	ND	ND	ND	0	
Benzene	78.1	6	4.32	0.72	2.30	4.32	0.72	2.30	2.30	2.30
Cyclohexane	84.2	6	12.10	2.02	6.96	12.10	2.02	6.96	6.96	6.96
2-Methylhexane	100.2	7	15.21	2.17	8.92	15.21	2.17	8.92	8.92	8.92
2,3-Dimethylpentane	100.2	7	1.53	0.22	0.90	ND	ND	ND	0	
3-Methylhexane	100.2	7	3.85	0.55	2.26	3.85	0.55	2.26	2.26	2.26
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0	
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2,2,4-Trimethylpentane	114.2	8	29.23	3.65	17.10	29.23	3.65	17.10	17.10	17.10
n-Heptane	100.2	7	1.89	0.27	1.11	ND	ND	ND	0	
Methylcyclohexane	98.2	7	7.19	1.03	4.13	7.19	1.03	4.13	4.13	4.13
2,5-Dimethylhexane	114.2	8	4.52	0.56	2.64	4.52	0.56	2.64	2.64	2.64
2,4-Dimethylhexane	114.2	8	9.80	1.23	5.73	9.80	1.23	5.73	5.73	5.73
2,3,4-Trimethylpentane	114.2	8	18.35	2.29	10.74	18.35	2.29	10.74	10.74	10.74
Toluene	92.1	7	21.92	3.13	11.82	21.92	3.13	11.82	11.82	11.82
2,3-Dimethylhexane	114.2	8	12.81	1.60	7.50	12.81	1.60	7.50	7.50	7.50
2-Methylheptane	114.2	8	7.85	0.98	4.59	7.85	0.98	4.59	4.59	4.59
4-Methylheptane	114.2	8	3.47	0.43	2.03	3.47	0.43	2.03	2.03	2.03
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylheptane	114.2	8	7.77	0.97	4.55	7.77	0.97	4.55	4.55	4.55
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0	
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
Ethylbenzene	106.2	8	10.65	1.33	5.79	10.65	1.33	5.79	5.79	5.79
m,p-xylene	106.2	8	22.00	2.75	11.97	22.00	2.75	11.97	11.97	11.97
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0	
o-xylene	106.2	8	20.54	2.57	11.17	20.54	2.57	11.17	11.17	11.17
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Nonane	128.3	9	267.98	29.78	156.56	267.98	29.78	156.56	156.56	156.56
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
n-Decane	142.3	10	143.69	14.37	83.80	143.69	14.37	83.80	83.80	83.80
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0	
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0	
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0	
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0	

Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3	
Total Non-Methane Hydrocarbons	86.2	6.0	5371.10	895.2	3162.5	5,371.10	895.18	3,162.49	3,162.49	3,162.49
Total Non-Methane Hydrocarbons	16	1.0	5371.10	5371.1	3522.0	5,371.10	5,371.10	3,522.03	3,522.03	3,522.03
Total Volatile Organic Compounds	100	7.6	5371.10	706.7	2896.4	5,371.10	706.72	2,896.41	2,896.41	2,896.41
TPH (gasoline)	95	7.0	5371.10	767.3	2987.4	5,371.10	767.30	2,987.44	2,987.44	2,987.44
TPH (diesel)	198	15.0	5371.10	358.1	2905.7	5,371.10	358.07	2,905.68	2,905.68	2,905.68
TPH (hexane)	86.2	6.0	5371.10	895.2	3162.5	5,371.10	895.18	3,162.49	3,162.49	3,162.49
TPH (toluene)	92.14	7.0	5371.10	767.3	2897.5	5,371.10	767.30	2,897.50	2,897.50	2,897.50
TPH (methane)	16	1.0	5371.10	5371.1	3522.0	5,371.10	5,371.10	3,522.03	3,522.03	3,522.03
TPH (Jet A Fuel)	177	13.0	5371.10	413.2	2997.1	5,371.10	413.16	2,997.11	2,997.11	2,997.11
TPH (Mineral Spirits)	117.81	8.0	5371.10	671.4	3241.6	5,371.10	671.39	3,241.64	3,241.64	3,241.64
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			300.8	93.8						
Paraffins			429.5							
Isoparaffins			161.0							
Aromatics			79.4							
Napthlenes			31.2							
Olefins			11.4							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	9.70	4.85	5.98	9.70	4.85	5.98	5.98	5.98
C3 (propane)	44.1	3	15.21	5.07	9.17	15.21	5.07	9.17	9.17	9.17
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			24.9							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	1.9	0.27	1.11					
Aliphatic C8-C10	128.3	9	268.0	29.78	156.56					
Aliphatic C10-C12	142.8	11	143.7	13.06	76.45					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	12.2	2.03	7.18					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								

TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	602.6	200.3
Alkenes	11.4	3.8
Alkynes	0.0	0.0
Cycloalkanes	19.1	6.4
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	79.4	26.4
Terpenes	0.0	0.0

SDG: **225100**
Laboratory Number: **50**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
0.9	2.000	1.00	1.25	1.44	2.50	3.75	4.32	7.5	U	ND		Y
0.0	2.000	1.00	1.25	1.33	2.50	3.75	3.99	7.5	U	ND		Y
4.3	2.000	1.00	1.25	1.54	2.50	3.75	4.62	7.5		=		Y
2.6	2.000	0.67	0.83	1.44	2.50	2.50	4.31	7.5	J	=		Y
2.8	2.000	0.67	0.83	1.51	2.50	2.50	4.52	7.5		=		Y
0.0	2.000	0.50	0.62	1.49	2.50	1.87	4.46	7.5	U	ND		Y
0.0	2.000	2.00	2.50	3.28	2.50	7.50	9.83	7.5	U	ND		Y
0.6	2.000	0.50	0.62	1.44	2.50	1.87	4.31	7.5	U	ND		Y
0.0	2.000	0.50	0.62	1.39	2.50	1.87	4.16	7.5	U	ND		Y
0.0	2.000	0.50	0.62	1.49	2.50	1.87	4.46	7.5	U	ND		Y
0.0	2.000	0.50	0.62	1.44	2.50	1.87	4.31	7.5	U	ND		Y
0.0	2.000	0.50	0.62	1.44	2.50	1.87	4.31	7.5	U	ND		Y
0.0	2.000	1.00	1.25	2.36	2.50	3.75	7.08	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.50	1.50	4.31	7.5	U	ND		Y
0.0	2.000	0.67	0.83	1.98	2.50	2.50	5.95	7.5	U	ND		Y
3.5	2.000	0.40	0.50	1.48	2.50	1.50	4.44	7.5		=		Y
0.0	2.000	0.40	0.50	1.44	2.50	1.50	4.31	7.5	U	ND		Y
0.0	2.000	0.67	0.83	2.05	2.50	2.50	6.16	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.50	1.50	4.31	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.48	2.50	1.50	4.43	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.40	2.50	1.50	4.19	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.50	1.50	4.31	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.50	1.50	4.31	7.5	U	ND		Y
0.0	2.000	0.50	0.62	1.90	2.50	1.87	5.69	7.5	U	ND		Y
0.0	2.000	0.40	0.50	1.44	2.50	1.50	4.31	7.5	U	ND		Y
2.2	2.000	0.33	0.42	1.47	2.50	1.25	4.41	7.5		=		Y
0.0	2.000	0.40	0.50	1.40	2.50	1.50	4.19	7.5	U	ND		Y
0.0	2.000	0.67	0.83	2.05	2.50	2.50	6.16	7.5	U	ND		Y
2.5	2.000	0.40	0.50	1.44	2.50	1.50	4.31	7.5		=		Y
0.0	2.000	0.40	0.50	1.81	2.50	1.50	5.42	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.47	2.50	1.25	4.41	7.5	U	ND		Y
1.0	2.000	0.33	0.42	1.47	2.50	1.25	4.41	7.5	J	=		Y
1.9	2.000	0.33	0.42	1.47	2.50	1.25	4.41	7.5		=		Y
0.0	2.000	0.33	0.42	1.44	2.50	1.25	4.31	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.47	2.50	1.25	4.41	7.5	U	ND		Y
0.0	2.000	0.33	0.42	1.74	2.50	1.25	5.23	7.5	U	ND		Y

0.0	2.000	0.33	0.42	1.40	2.50	1.25	4.20	7.5	U	ND	Y
0.0	2.000	0.33	0.42	1.74	2.50	1.25	5.23	7.5	U	ND	Y
0.0	2.000	0.33	0.42	1.44	2.50	1.25	4.31	7.5	U	ND	Y
0.2	2.000	0.29	0.36	1.47	2.50	1.07	4.40	7.5	U	ND	Y
0.8	2.000	0.33	0.42	1.33	2.50	1.25	4.00	7.5	J	=	Y
2.2	2.000	0.33	0.42	1.44	2.50	1.25	4.31	7.5		=	Y
2.3	2.000	0.29	0.36	1.47	2.50	1.07	4.40	7.5		=	Y
0.2	2.000	0.29	0.36	1.47	2.50	1.07	4.40	7.5	U	ND	Y
0.6	2.000	0.29	0.36	1.47	2.50	1.07	4.40	7.5	J	=	Y
0.0	2.000	0.29	0.36	1.44	2.50	1.07	4.31	7.5	U	ND	Y
0.0	2.000	0.33	0.42	1.74	2.50	1.25	5.23	7.5	U	ND	Y
3.9	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5		=	Y
0.3	2.000	0.29	0.36	1.47	2.50	1.07	4.40	7.5	U	ND	Y
1.1	2.000	0.29	0.36	1.44	2.50	1.07	4.31	7.5	J	=	Y
0.6	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5	J	=	Y
1.3	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5		=	Y
2.4	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5		=	Y
3.3	2.000	0.29	0.36	1.35	2.50	1.07	4.04	7.5		=	Y
1.7	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5		=	Y
1.0	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5		=	Y
0.5	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5	J	=	Y
0.0	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5	U	ND	Y
1.0	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5		=	Y
0.0	2.000	0.25	0.31	1.44	2.50	0.94	4.31	7.5	U	ND	Y
0.0	2.000	0.25	0.31	1.46	2.50	0.94	4.39	7.5	U	ND	Y
1.4	2.000	0.25	0.31	1.36	2.50	0.94	4.08	7.5		=	Y
2.9	2.000	0.25	0.31	1.36	2.50	0.94	4.08	7.5		=	Y
0.0	2.000	0.25	0.31	1.33	2.50	0.94	4.00	7.5	U	ND	Y
2.7	2.000	0.25	0.31	1.36	2.50	0.94	4.08	7.5		=	Y
0.0	2.000	0.22	0.28	1.44	2.50	0.83	4.31	7.5	U	ND	Y
31.7	2.000	0.22	0.28	1.46	2.50	0.83	4.38	7.5		=	Y
0.0	2.000	0.22	0.28	1.37	2.50	0.83	4.10	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.50	0.83	4.10	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.50	0.75	4.19	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.50	0.83	4.10	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.50	0.83	4.10	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.50	0.83	4.10	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.50	0.83	4.10	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.50	0.75	4.19	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.37	2.50	0.83	4.10	7.5	U	ND	Y
15.3	2.000	0.20	0.25	1.46	2.50	0.75	4.37	7.5		=	Y
0.0	2.000	0.22	0.28	1.37	2.50	0.83	4.10	7.5	U	ND	Y
0.0	2.000	0.22	0.28	1.35	2.50	0.83	4.04	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.40	2.50	0.75	4.19	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.50	0.75	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.50	0.75	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.50	0.75	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.50	0.75	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.50	0.75	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.50	0.75	4.12	7.5	U	ND	Y
0.0	2.000	0.18	0.23	1.46	2.50	0.68	4.37	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.50	0.75	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.37	2.50	0.75	4.12	7.5	U	ND	Y
0.0	2.000	0.20	0.25	1.31	2.50	0.75	3.94	7.5	U	ND	Y

0.0	2.000	0.17	0.21	1.45	2.50	0.62	4.36	7.5	U	ND	Y
%											Y
100.0	45.00	7.5	9.37	33.11	56.23	28.1	99.3	168.7		=	Y
100.0	45.00	45.0	56.23	36.87	56.23	168.7	110.6	168.7		=	Y
100.0	45.00	5.9	7.40	30.32	56.23	22.2	91.0	168.7		=	Y
100.0	45.00	6.4	8.03	31.28	56.23	24.1	93.8	168.7		=	Y
100.0	45.00	3.0	3.75	30.42	56.23	11.2	91.3	168.7		=	Y
100.0	45.00	7.5	9.37	33.11	56.23	28.1	99.3	168.7		=	Y
100.0	45.00	6.4	8.03	30.34	56.23	24.1	91.0	168.7		=	Y
100.0	45.00	45.0	56.23	36.87	56.23	168.7	110.6	168.7		=	Y
100.0	45.00	3.5	4.33	31.38	56.23	13.0	94.1	168.7		=	Y
100.0	45.00	5.6	7.03	33.94	56.23	21.1	101.8	168.7		=	Y
0.0	45.00	7.5	9.37	33.11	56.23	28.1	99.3	168.7	U	ND	Y
0.0	25.000	3.6	4.46	17.38	31.24	13.4	52.1	93.7	U	ND	Y
%											Y
5.6											Y
142.8											Y
53.5											Y
26.4											Y
10.4											Y
3.8											Y
0.0											Y
%											Y
38.9	5.000	2.5	3.12	3.85	6.25	9.4	11.6	18.7	J	=	Y
61.1	5.000	1.7	2.08	3.76	6.25	6.2	11.3	18.7	J	=	Y
0.0	25.000	6.3	7.81	18.60	31.24	23.4	55.8	93.7	U	ND	Y
0.0	25.000	5.0	6.25	18.48	31.24	18.7	55.4	93.7	U	ND	Y
0.0	25.000	4.2	5.21	18.39	31.24	15.6	55.2	93.7	U	ND	Y
0.0	25.000	3.6	4.46	18.33	31.24	13.4	55.0	93.7	U	ND	Y
0.0	25.000	3.1	3.91	18.28	31.24	11.7	54.8	93.7	U	ND	Y
0.0	25.000	2.8	3.47	18.25	31.24	10.4	54.7	93.7	U	ND	Y
0.0	25.000	2.5	3.12	18.22	31.24	9.4	54.7	93.7	U	ND	Y
0.0	25.000	2.3	2.84	18.19	31.24	8.5	54.6	93.7	U	ND	Y
0.0	25.000	2.1	2.60	18.17	31.24	7.8	54.5	93.7	U	ND	Y
0.0	25.000	2.1	2.60	18.17	31.24	7.8	54.5	93.7	U	ND	Y
100.0											Y
											Y
0.0	6.0	1.0	1.25	3.70	7.50	3.7	11.1	22.5			Y
0.0	6.0	0.9	1.07	4.40	7.50	3.2	13.2	22.5			Y
5.0	6.0	0.7	0.83	4.38	7.50	2.5	13.1	22.5			Y
2.7	6.0	0.5	0.68	3.99	7.50	2.0	12.0	22.5			Y
0.0	6.0	0.7	0.83	3.90	7.50	2.5	11.7	22.5			Y
0.0	6.0	0.5	0.68	3.98	7.50	2.0	11.9	22.5			Y
2.2	2.0	0.3	0.42	1.47	2.50	1.2	4.4	7.5		=	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					1.7		1.69		
					0.0			0.00	
	8.0					8.00			
					7.3		7.28		
	7.9					7.94			
		0.0				0.00			
						0.0			
					2.4		2.41		
					0.0		0.00		
	0.0					0.00			
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
						0.0			
		16.5				16.55			
					0.0		0.00		
						0.0			
					0.0		0.00		
	0.0					0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
		12.2				12.19			
			0.0						0.00
						0.0			
			11.9						11.93
						0.0			
		0.0				0.00			
		5.6				5.61			
		10.7				10.67			
					0.0		0.00		
	0.0					0.00			
						0.0			

		0.0			
			0.0		
		0.0			0.00
	1.5			1.55	
	4.3				
		12.1		12.10	
	15.2			15.21	
	1.5			1.53	
	3.8			3.85	
			0.0		0.00
			0.0		
	29.2			29.23	
1.9				1.89	
		7.2			7.19
	4.5			4.52	
	9.8			9.80	
	18.4			18.35	
	21.9				
	12.8			12.81	
	7.9			7.85	
	3.5			3.47	
	0.0			0.00	
	7.8			7.77	
			0.0		0.00
0.0				0.00	
	10.7				
	22.0				
	0.0				
	20.5				
			0.0		0.00
268.0				267.98	
	0.0				
	0.0				
			0.0		
	0.0				
	0.0				
	0.0				
	0.0				
			0.0		
	0.0				
143.7				143.69	
	0.0				
	0.0				
			0.0		
	0.0				
	0.0				
	0.0				
	0.0				
	0.0				
	0.0				
0.0				0.00	
	0.0				
	0.0				
	0.0				

0.0						0.00			
429.5	161.0	79.4	31.2	11.4	0.0	602.6	11.4	0.0	19.1

0.00	28.47		
1.89	115.94		
267.98	0.00		
143.69	0.00		
		411.66	
		0.00	

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
	0.00				
	0.00				
			0.00		
	0.00				
	0.00				
	0.00				
				0.00	
				0.00	

0.00

0.00

4.32

0.00

21.92

10.65
22.00
0.00
20.54

0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00

0.0	0.0	0.0	0.0	79.4	0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**225100**	
Laboratory Number:		**50**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.25	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.14E+04	1064	1.7	0.85	0.98
Acetylene	2	TRG	26.0	2.14E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.14E+04	5025	8.0	4.00	4.94
Propene	3	TRG	4.5	2.14E+04	4	7.3	2.43	4.19
Propane	3	TRG	44.1	2.14E+04	4982	7.9	2.65	4.78
i-Butane	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.14E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.14E+04	1515	2.4	0.60	1.39
n-Butane	4	TRG	54.1	2.14E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.14E+04	10387	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.14E+04	0	16.5	3.31	9.79
n-Pentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.14E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.14E+04	7654	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.14E+04	7486	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.14E+04	3523	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.14E+04	6698	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.14E+04	0	12.2	2.03	7.18
Methylcyclopentane	5	TRG	68.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.14E+04	972	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.14E+04	2709	11.9	2.39	6.85
Cyclohexane	5	TRG	88.2	2.14E+04	7597	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.14E+04	9546	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.14E+04	959	5.6	0.94	3.30
3-Methylhexane	6	TRG	86.2	2.14E+04	2416	10.7	1.78	6.28
2,2,4-Trimethylpentane	6	TRG	84.2	2.14E+04	18352	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.14E+04	1189	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.14E+04	4512	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.14E+04	2836	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.14E+04	6153	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.14E+04	11521	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.14E+04	13759	1.5	0.22	0.91	
2,3-Dimethylhexane	6	TRG	78.1	2.14E+04	8043	4.3	0.72	2.30	
2-Methylheptane	6	TRG	84.2	2.14E+04	4928	12.1	2.02	6.96	
3-Methylheptane	7	TRG	100.2	2.14E+04	4880	15.2	2.17	8.92	
n-Octane	7	TRG	100.2	2.14E+04	0	1.5	0.22	0.90	
Ethylbenzene	7	TRG	100.2	2.14E+04	6686	3.8	0.55	2.26	
m,p-xylene	7	TRG	98.2	2.14E+04	13812	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.14E+04	12892	29.2	3.65	17.10	
n-Nonane	7	TRG	100.2	2.14E+04	168221	1.9	0.27	1.11	
i-Propylbenzene	7	TRG	98.2	2.14E+04	0	7.2	1.03	4.13	
n-propylbenzene	8	TRG	114.2	2.14E+04	0	4.5	0.56	2.64	
a-Pinene	8	TRG	114.2	2.14E+04	0	9.8	1.23	5.73	
3-Ethyltoluene	8	TRG	114.2	2.14E+04	0	18.4	2.29	10.74	
4-Ethyltoluene	7	TRG	92.1	2.14E+04	0	21.9	3.13	11.82	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	12.8	1.60	7.50	
2-Ethyltoluene	8	TRG	114.2	2.14E+04	0	7.9	0.98	4.59	
b-Pinene	8	TRG	114.2	2.14E+04	0	3.5	0.43	2.03	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.14E+04	90200	7.8	0.97	4.55	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.14E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.14E+04	0	10.7	1.33	5.79	
1,4-Diethylbenzene	8	TRG	106.2	2.14E+04	0	22.0	2.75	11.97	
n-Butylbenzene	8	TRG	104.2	2.14E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.14E+04	0	20.5	2.57	11.17	
Dodecane	9	TRG	126.2	2.14E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbor	6	TRG	86.2	2.14E+04	3371691	5371.1	895.18	3162.49	
Total Non-Methane Hydrocarbor	1	TRG	16.0	2.14E+04	3371691	5371.1	5371.10	3522.03	
Total Volatile Organic Compoun	8	TRG	100.0	2.14E+04	3371691	5371.1	706.72	2896.41	
TPH (gasoline)	7	TRG	95.0	2.14E+04	3371691	5371.1	767.30	2987.44	
TPH (diesel)	15	TRG	198.0	2.14E+04	3371691	5371.1	358.07	2905.68	
TPH (hexane)	6	TRG	86.2	2.14E+04	3371691	5371.1	895.18	3162.49	
TPH (toluene)	7	TRG	92.1	2.14E+04	3371691	5371.1	767.30	2897.50	
TPH (methane)	1	TRG	16.0	2.14E+04	3371691	5371.1	5371.10	3522.03	
TPH (Jet A Fuel)	13	TRG	177.0	2.14E+04	3371691	5371.1	413.16	2997.11	
TPH (Mineral Spirits)	8	TRG	117.8	2.14E+04	3371691	5371.1	671.39	3241.64	
C6+ (hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.14E+04		300.8			Sum ID
Paraffins	P	TRG	0.0	2.14E+04		429.5			Sum P
Isoparaffins	I	TRG	0.0	2.14E+04		161.0			Sum I
Aromatics	A	TRG	0.0	2.14E+04		79.4			Sum A
Napthlenes	N	TRG	0.0	2.14E+04		31.2			Sum N
Olefins	O	TRG	0.0	2.14E+04		11.4			Sum O
Oxygenates		TRG	0.0	2.14E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.14E+04	6089	9.7	4.85	5.98	
C3 (propane)	3	TRG	44.1	2.14E+04	9550	15.2	5.07	9.17	
C4 (Butane)	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.14E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	

C7 (Heptane)	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00
C8 (Octane)	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.14E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.14E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.14E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.14E+04	15639	0.0	0.00	0.00

Method Blank Data Packages

Samples are analyzed in a Daily Analytical Batch (DAB) on an instrument. The DAB identifier is on each analytial report in the field called QC Batch. There will be one Method Blank QC Batch report for each DAB in this SDG.

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METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: LABQC
Laboratory Number: B03275

File Name: B03275C
Description: METHOD BLANK
Canister:
QC_Batch: 032725-GCK

Date Sampled: **Time:**
Date Analyzed: 03/27/25 **Time:** 9:02
Can Factor: 1.00
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.00	3.00	ND	1.15	3.45	ND	ND
74-86-2	Acetylene	1.00	3.00	ND	1.07	3.20	ND	ND
74-84-0	Ethane	1.00	3.00	ND	1.23	3.70	ND	ND
115-07-1	Propene	0.67	2.00	ND	1.15	3.45	ND	ND
74-98-6	Propane	0.67	2.00	ND	1.20	3.61	ND	ND
75-28-5	i-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
106-98-9	1-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
106-97-8	n-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
624-64-6	t-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
590-18-1	c-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
78-78-4	i-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
109-67-1	1-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
109-66-0	n-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
646-04-8	t-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
627-20-3	c-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
75-83-2	2,2-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
142-29-0	Cyclopentene	0.40	1.20	ND	1.12	3.35	ND	ND
287-92-3	Cyclopentane	0.40	1.20	ND	1.15	3.45	ND	ND
79-29-8	2,3-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
107-83-5	2-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
96-14-0	3-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
592-41-6	1-Hexene	0.33	1.00	ND	1.15	3.45	ND	ND
110-54-3	n-Hexane	0.33	1.00	ND	1.18	3.53	ND	ND
1120-62-3	3-Methylcyclopentene	0.33	1.00	ND	1.12	3.36	ND	ND
96-37-7	Methylcyclopentane	0.33	1.00	ND	1.15	3.45	ND	ND
108-08-7	2,4-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
71-43-2	Benzene	0.33	1.00	ND	1.07	3.20	ND	ND
110-82-7	Cyclohexane	0.33	1.00	ND	1.15	3.45	ND	ND
591-76-4	2-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
565-59-3	2,3-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
589-34-4	3-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND
142-82-5	n-Heptane	0.29	0.86	ND	1.17	3.52	ND	ND
108-87-2	Methylcyclohexane	0.29	0.86	ND	1.15	3.45	ND	ND
592-13-2	2,5-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
589-43-5	2,4-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.29	0.86	ND	1.08	3.24	ND	ND
584-94-1	2,3-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
592-27-8	2-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-53-7	4-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-81-1	3-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
111-65-9	n-Octane	0.25	0.75	ND	1.17	3.51	ND	ND
100-41-4	Ethylbenzene	0.25	0.75	ND	1.09	3.26	ND	ND
108-38-3	m,p-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
100-42-5	Styrene	0.25	0.75	ND	1.07	3.20	ND	ND
95-47-6	o-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
111-84-2	n-Nonane	0.22	0.67	ND	1.17	3.51	ND	ND
98-82-8	i-Propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
103-65-1	n-propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
620-14-4	3-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
622-96-8	4-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
611-14-3	2-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
124-18-5	n-Decane	0.20	0.60	ND	1.17	3.50	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
141-93-5	1,3-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
105-05-5	1,4-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
104-51-8	n-Butylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
1120-21-4	Undecane	0.18	0.55	ND	1.16	3.49	ND	ND
91-20-3	Naphthalene	0.20	0.60	ND	1.05	3.15	ND	ND
112-40-3	Dodecane	0.17	0.50	ND	1.16	3.49	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	7.50	22.50	ND	26.50	79.49	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	45.00	135.00	ND	29.51	88.52	ND	ND

	Sample: Composition	**ppbC**	**Percent**
	Total Identified	0.00	100.0
P	Paraffins	0.00	0.0
I	Isoparaffins	0.00	0.0
A	Aromatics	0.00	0.0
N	Napthlenes	0.00	0.0
O	Olefins	0.00	0.0

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **LABQC**
EAS ID: **B03275**
File Name: **B03275B**
Sample ID: **METHOD BLANK**
Sampled: **NA**
Received: **NA**
Analyzed: **03/27/25**
QCBatch: **032725-GCK**
Can: **NA**
Can Factor: **1.00**
Volume: **200.0**
Type: **MB**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **NA** Matrix **AA**
Time: **NA** Chem **TRG**
Time: **9:02** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **364105**
Hexane Concentration: **18.05**
Standard Volume: **1.00**
Standard ID: **ST62344**

RT Win	C2-C	C5-C12
RT	**0.3**	**0.1**
RTI	**3**	**3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.06			NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.10			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.17**		I	I	H	200	200
115-07-1	Propene	P	5.11	5.11						-204	290
74-98-6	Propane	P	5.20	**5.20**	**5.20**		I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.60**						134	351
67-56-1	Methanol		8.30	8.30						134	401
106-98-9	1-Butene	P	7.29	7.29						134	367
106-99-0	1,3-Butadiene		**7.48**	7.48						134	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75						198	410
590-18-1	c-2-Butene	P	9.63	9.63						198	431
64-17-5	Ethanol		10.85	10.85						198	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.05						198	465
67-64-1	Acetone		11.52	11.52						198	476
78-78-4	i-Pentane	P	11.37	11.37						198	473
109-67-1	1-Pentene	P	12.30	12.30						198	495
67-63-0	Isopropanol		12.65	12.65						198	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.36						198	497
109-66-0	n-Pentane	P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.55						162	503
646-04-8	t-2-Pentene	P	12.79	12.79						162	510
627-20-3	c-2-Pentene	P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.55						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.62						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.77						162	537
142-29-0	Cyclopentene	15	**14.61**	14.61						162	551
71-23-8	n-Propanol		**14.75**	14.75						162	558
287-92-3	Cyclopentane	P	14.88	14.88						162	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.06						162	570
107-83-5	2-Methylpentane	P	15.08	15.08						162	571
96-14-0	3-Methylpentane	P	15.55	15.55						162	583
592-41-6	1-Hexene	P	**15.80**	15.80						162	590
110-54-3	n-Hexane	P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						101	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						101	626
71-43-2	Benzene		P	17.87	**17.87**	**17.87**		I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.14						101	658
591-76-4	2-Methylhexane		P	18.38	18.38						101	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.45						101	671
589-34-4	3-Methylhexane		P	18.66	18.66						101	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.75						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.80						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.09						101	690
142-82-5	n-Heptane		P	19.41	19.41	**19.41**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.09						21	722
592-13-2	2,5-Dimethylhexane			20.35	20.35						21	734
589-43-5	2,4-Dimethylhexane			20.43	20.43						21	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.93						21	753
108-88-3	Toluene		P	21.12	**21.12**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						21	763
592-27-8	2-Methylheptane		P	21.33	21.33						21	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						21	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						21	772
589-81-1	3-Methylheptane		p	21.55	21.55						21	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						21	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75						-57	855
108-38-3	m,p-xylene		P	23.95	23.95						-57	863
100-42-5	Styrene		P	24.40	24.40						-57	881
95-47-6	o-xylene		P	24.57	24.57						-57	886
124-11-8	1-Nonene	64		24.60	24.60						-57	889
111-84-2	n-Nonane		P	24.87	24.87	**24.87**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36						-141	919
103-65-1	n-propylbenzene		P	25.93	25.93						-141	947
80-56-8	a-Pinene			26.09	26.09						-141	950
620-14-4	3-Ethyltoluene		P	26.17	26.17						-141	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-141	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45						-141	964
611-14-3	2-Ethyltoluene		P	26.61	26.61						-141	975
127-91-3	b-Pinene			26.80	26.80						-141	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08						-141	991
124-18-5	n-Decane		P	27.26	27.26	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-48	1014
496-11-7	Indan	81		27.55	27.55						-48	1020
5989-27-5	d-Limonene			27.65	27.65						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10						-48	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-48	1037
104-51-8	n-Butylbenzene			28.45	28.45						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123
527-53-7	1,2,3,5-Tetramethylbenzene			30.50	30.50						-48	1124

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					0		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					0		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					0		0			
TVOC	Total Volatile Organic Compounds					0		0			
TPH(g)	TPH (gasoline)					0		0			
TPH(d)	TPH (diesel)					0		0			
TPH(h)	TPH (hexane)					0		0			
TPH(t)	TPH (toluene)					0		0			
TPHC	TPH (methane)					0		0			
TPH(Jet A)	TPH (Jet A Fuel)					0		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					0					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			0		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			0		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**0**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	032725-GCK		
Hexane Std Area:	364105		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.00	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.00		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	

Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0
Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3

Total Non-Methane Hydrocarbons	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
Total Non-Methane Hydrocarbons	16	1.0	0.00	0.0	0.0	ND	ND	ND	0
Total Volatile Organic Compounds	100	7.6	0.00	0.0	0.0	ND	ND	ND	0
TPH (gasoline)	95	7.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (diesel)	198	15.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (toluene)	92.14	7.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (methane)	16	1.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (Jet A Fuel)	177	13.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (Mineral Spirits)	117.81	8.0	0.00	0.0	0.0	ND	ND	ND	0
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3
Total Identified			0.0	0.0					
Paraffins			0.0						
Isoparaffins			0.0						
Aromatics			0.0						
Napthlenes			0.0						
Olefins			0.0						
Oxygenates			0.0						
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
C3 (propane)	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			0.0						
Totals from Identified:									
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00				
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00				
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00				
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00				
Aromatic C8-C10	114.2	9	0.0	0.00	0.00				
Aromatic C10-12	142.3	11	0.0	0.00	0.00				
n-Hexane	86.18	6.0	0.0	0.00	0.00				

TNMHC - C6	86.2	6
TNMHC - C1	16	1
TVOC	86.2	6
TPH(g)	95	7
TPH(d)	198	15
TPH(h)	86.2	6
TPH(t)	92.14	7
TPHC	16	1
TPH(Jet A)	177	13
TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	0.0	0.0
Alkenes	0.0	0.0
Alkynes	0.0	0.0
Cycloalkanes	0.0	0.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	0.0	0.0
Terpenes	0.0	0.0

SDG: **LABQC**
Laboratory Number: **B03275**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
0.0	2.000	1.00	1.00	1.15	2.00	3.00	3.45	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.07	2.00	3.00	3.20	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.23	2.00	3.00	3.70	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.15	2.00	2.00	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.20	2.00	2.00	3.61	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.19	2.00	1.50	3.57	6.0	U	ND		Y
0.0	2.000	2.00	2.00	2.62	2.00	6.00	7.87	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.11	2.00	1.50	3.33	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.19	2.00	1.50	3.57	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.89	2.00	3.00	5.67	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.59	2.00	2.00	4.76	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.18	2.00	1.20	3.55	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.64	2.00	2.00	4.93	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.18	2.00	1.20	3.55	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.12	2.00	1.20	3.35	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.52	2.00	1.50	4.56	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.12	2.00	1.20	3.35	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.64	2.00	2.00	4.93	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.45	2.00	1.20	4.34	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.12	2.00	1.00	3.36	6.0	U	ND		Y

0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.07	2.00	1.00	3.20	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.15	2.00	0.86	3.45	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.15	2.00	0.86	3.45	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.08	2.00	0.86	3.24	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.15	2.00	0.75	3.45	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.07	2.00	0.75	3.20	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.15	2.00	0.67	3.45	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.17	2.00	0.67	3.51	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.17	2.00	0.60	3.50	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.08	2.00	0.67	3.23	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.18	0.18	1.16	2.00	0.55	3.49	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.05	2.00	0.60	3.15	6.0	U	ND	Y
0.0	2.000	0.17	0.17	1.16	2.00	0.50	3.49	6.0	U	ND	Y
%											Y

100.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
100.0	45.00	45.0	45.00	29.51	45.00	135.0	88.5	135.0	U	ND	Y
100.0	45.00	5.9	5.92	24.27	45.00	17.8	72.8	135.0	U	ND	Y
100.0	45.00	6.4	6.43	25.03	45.00	19.3	75.1	135.0	U	ND	Y
100.0	45.00	3.0	3.00	24.34	45.00	9.0	73.0	135.0	U	ND	Y
100.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
100.0	45.00	6.4	6.43	24.28	45.00	19.3	72.8	135.0	U	ND	Y
100.0	45.00	45.0	45.00	29.51	45.00	135.0	88.5	135.0	U	ND	Y
100.0	45.00	3.5	3.46	25.11	45.00	10.4	75.3	135.0	U	ND	Y
100.0	45.00	5.6	5.63	27.16	45.00	16.9	81.5	135.0	U	ND	Y
0.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
0.0	25.000	3.6	3.57	13.91	25.00	10.7	41.7	75.0	U	ND	Y
%											Y
100.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
%											Y
0.0	5.000	2.5	2.50	3.08	5.00	7.5	9.3	15.0	U	ND	Y
0.0	5.000	1.7	1.67	3.01	5.00	5.0	9.0	15.0	U	ND	Y
0.0	25.000	6.3	6.25	14.89	25.00	18.8	44.7	75.0	U	ND	Y
0.0	25.000	5.0	5.00	14.78	25.00	15.0	44.4	75.0	U	ND	Y
0.0	25.000	4.2	4.17	14.72	25.00	12.5	44.2	75.0	U	ND	Y
0.0	25.000	3.6	3.57	14.67	25.00	10.7	44.0	75.0	U	ND	Y
0.0	25.000	3.1	3.13	14.63	25.00	9.4	43.9	75.0	U	ND	Y
0.0	25.000	2.8	2.78	14.60	25.00	8.3	43.8	75.0	U	ND	Y
0.0	25.000	2.5	2.50	14.58	25.00	7.5	43.7	75.0	U	ND	Y
0.0	25.000	2.3	2.27	14.56	25.00	6.8	43.7	75.0	U	ND	Y
0.0	25.000	2.1	2.08	14.54	25.00	6.3	43.6	75.0	U	ND	Y
0.0	25.000	2.1	2.08	14.54	25.00	6.3	43.6	75.0	U	ND	Y
0.0											Y
											Y
0.0	6.0	1.0	1.00	2.96	6.00	3.0	8.9	18.0			Y
0.0	6.0	0.9	0.86	3.52	6.00	2.6	10.6	18.0			Y
0.0	6.0	0.7	0.67	3.51	6.00	2.0	10.5	18.0			Y
0.0	6.0	0.5	0.55	3.19	6.00	1.6	9.6	18.0			Y
0.0	6.0	0.7	0.67	3.12	6.00	2.0	9.4	18.0			Y
0.0	6.0	0.5	0.55	3.18	6.00	1.6	9.5	18.0			Y
0.0	2.0	0.3	0.33	1.18	2.00	1.0	3.5	6.0	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
0.0						0.00			
					0.0		0.00		
0.0						0.00			
		0.0				0.00			
						0.0			
					0.0		0.00		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
		0.0				0.00			
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					0.0		0.00		
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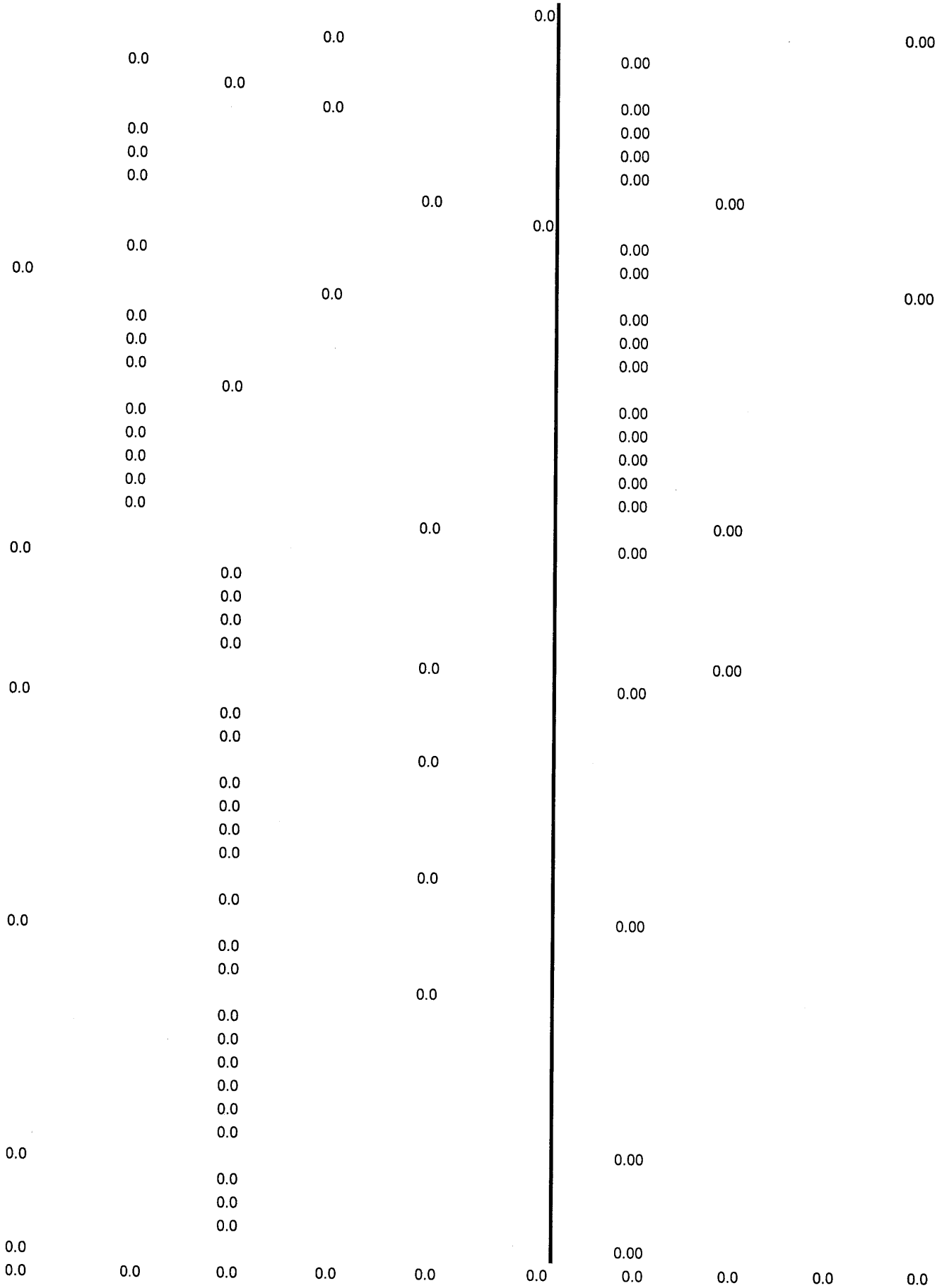
			0.0						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		0.00
		0.00

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00

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SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**LABQC**	
Laboratory Number:		**B03275**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.00	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = $\text{Sum}\left|\frac{(\text{Astdni})}{(\text{Cstdni})}\right|_i$

2) ppbC = $\frac{\text{6 Carbons} \times \text{Ansamp} \times \text{CDF} \times 1000}{(\text{Avg RFn}) \times \text{SV}} = \textbf{Cn}$

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = $\frac{(\text{amt(ppbv)} \times \text{MW})}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	Cn ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.02E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.02E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.02E+04	0	0.0	0.00	0.00
Propene	3	TRG	4.5	2.02E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.02E+04	0	0.0	0.00	0.00
i-Butane	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.02E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.02E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.02E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.02E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.02E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.02E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.02E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.02E+04	0	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.02E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.02E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.02E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	2.02E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.02E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.02E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.02E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.02E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.02E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.02E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.02E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.02E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.02E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.02E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbc	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
Total Non-Methane Hydrocarbc	1	TRG	16.0	2.02E+04	0	0.0	0.00	0.00	
Total Volatile Organic Compou	8	TRG	100.0	2.02E+04	0	0.0	0.00	0.00	
TPH (gasoline)	7	TRG	95.0	2.02E+04	0	0.0	0.00	0.00	
TPH (diesel)	15	TRG	198.0	2.02E+04	0	0.0	0.00	0.00	
TPH (hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
TPH (toluene)	7	TRG	92.1	2.02E+04	0	0.0	0.00	0.00	
TPH (methane)	1	TRG	16.0	2.02E+04	0	0.0	0.00	0.00	
TPH (Jet A Fuel)	13	TRG	177.0	2.02E+04	0	0.0	0.00	0.00	
TPH (Mineral Spirits)	8	TRG	117.8	2.02E+04	0	0.0	0.00	0.00	
C6+ (hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.02E+04		0.0			Sum ID
Paraffins	P	TRG	0.0	2.02E+04		0.0			Sum P
Isoparaffins	I	TRG	0.0	2.02E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.02E+04		0.0			Sum A
Napthlenes	N	TRG	0.0	2.02E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.02E+04		0.0			Sum O
Oxygenates		TRG	0.0	2.02E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.02E+04	0	0.0	0.00	0.00	
C3 (propane)	3	TRG	44.1	2.02E+04	0	0.0	0.00	0.00	
C4 (Butane)	4	TRG	58.1	2.02E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.02E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.02E+04	0	0.0	0.00	0.00	
C7 (Heptane)	7	TRG	100.2	2.02E+04	0	0.0	0.00	0.00	

C8 (Octane)	8	TRG	114.2	2.02E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.02E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.02E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.02E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.02E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.02E+04	0	0.0	0.00	0.00

Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\03275K\B03275B.D
Operator : MM
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : METHOD BLANK
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 27 Mar 25 09:39 AM
Instrument Method: GC1SHORT.MTH
Report Created on: 27 Mar 25 09:55 AM
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03275K\B03275B.D

Pk#	Ret Time	Area	Height	Type	Width	Area %

Total area = 0

C:\HPCHEM\1\DATA\C7C7E4\B0327583.D

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: LABQC
Laboratory Number: B03285

File Name: B03285B
Description: METHOD BLANK
Canister:
QC_Batch: 032825-GCK

Date Sampled: **Time:**
Date Analyzed: 03/28/25 **Time:** 10:43
Can Factor: 1.00
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.00	3.00	ND	1.15	3.45	ND	ND
74-86-2	Acetylene	1.00	3.00	ND	1.07	3.20	ND	ND
74-84-0	Ethane	1.00	3.00	ND	1.23	3.70	ND	ND
115-07-1	Propene	0.67	2.00	ND	1.15	3.45	ND	ND
74-98-6	Propane	0.67	2.00	ND	1.20	3.61	ND	ND
75-28-5	i-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
106-98-9	1-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
106-97-8	n-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
624-64-6	t-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
590-18-1	c-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
78-78-4	i-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
109-67-1	1-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
109-66-0	n-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
646-04-8	t-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
627-20-3	c-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
75-83-2	2,2-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
142-29-0	Cyclopentene	0.40	1.20	ND	1.12	3.35	ND	ND
287-92-3	Cyclopentane	0.40	1.20	ND	1.15	3.45	ND	ND
79-29-8	2,3-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
107-83-5	2-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
96-14-0	3-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
592-41-6	1-Hexene	0.33	1.00	ND	1.15	3.45	ND	ND
110-54-3	n-Hexane	0.33	1.00	ND	1.18	3.53	ND	ND
1120-62-3	3-Methylcyclopentene	0.33	1.00	ND	1.12	3.36	ND	ND
96-37-7	Methylcyclopentane	0.33	1.00	ND	1.15	3.45	ND	ND
108-08-7	2,4-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
71-43-2	Benzene	0.33	1.00	ND	1.07	3.20	ND	ND
110-82-7	Cyclohexane	0.33	1.00	ND	1.15	3.45	ND	ND
591-76-4	2-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
565-59-3	2,3-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
589-34-4	3-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND
142-82-5	n-Heptane	0.29	0.86	ND	1.17	3.52	ND	ND
108-87-2	Methylcyclohexane	0.29	0.86	ND	1.15	3.45	ND	ND
592-13-2	2,5-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
589-43-5	2,4-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.29	0.86	ND	1.08	3.24	ND	ND
584-94-1	2,3-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
592-27-8	2-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-53-7	4-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-81-1	3-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
111-65-9	n-Octane	0.25	0.75	ND	1.17	3.51	ND	ND
100-41-4	Ethylbenzene	0.25	0.75	ND	1.09	3.26	ND	ND
108-38-3	m,p-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
100-42-5	Styrene	0.25	0.75	ND	1.07	3.20	ND	ND
95-47-6	o-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
111-84-2	n-Nonane	0.22	0.67	ND	1.17	3.51	ND	ND
98-82-8	i-Propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
103-65-1	n-propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
620-14-4	3-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
622-96-8	4-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
611-14-3	2-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
124-18-5	n-Decane	0.20	0.60	ND	1.17	3.50	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
141-93-5	1,3-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
105-05-5	1,4-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
104-51-8	n-Butylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
1120-21-4	Undecane	0.18	0.55	ND	1.16	3.49	ND	ND
91-20-3	Naphthalene	0.20	0.60	ND	1.05	3.15	ND	ND
112-40-3	Dodecane	0.17	0.50	ND	1.16	3.49	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	7.50	22.50	ND	26.50	79.49	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	45.00	135.00	ND	29.51	88.52	ND	ND

	Sample: Composition	**ppbC**	**Percent**
	Total Identified	0.00	100.0
P	Paraffins	0.00	0.0
I	Isoparaffins	0.00	0.0
A	Aromatics	0.00	0.0
N	Napthlenes	0.00	0.0
O	Olefins	0.00	0.0

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **LABQC**
EAS ID: **B03285**
File Name: **B03285B**
Sample ID: **METHOD BLANK**
Sampled: **NA**
Received: **NA**
Analyzed: **03/28/25**
QCBatch: **032825-GCK**
Can: **NA**
Can Factor: **1.00**
Volume: **200.0**
Type: **MB**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **NA** Matrix **AA**
Time: **NA** Chem **TRG**
Time: **10:43** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **313588**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

							RT Win	C2-C4	C5-C12		
							RT	**0.3**	**0.1**		
							RTI	**3**	**3**		

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.06			NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.10			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.17**		I	I	H	200	200
115-07-1	Propene	P	5.11	5.11						-204	290
74-98-6	Propane	P	5.20	**5.20**	**5.20**		I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.60**						134	351
67-56-1	Methanol		8.30	8.30						134	401
106-98-9	1-Butene	P	7.29	7.29						134	367
106-99-0	1,3-Butadiene		**7.48**	7.48						134	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75						198	410
590-18-1	c-2-Butene	P	9.63	9.63						198	431
64-17-5	Ethanol		10.85	10.85						198	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.05						198	465
67-64-1	Acetone		11.52	11.52						198	476
78-78-4	i-Pentane	P	11.37	11.37						198	473
109-67-1	1-Pentene	P	12.30	12.30						198	495
67-63-0	Isopropanol		12.65	12.65						198	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.36						198	497
109-66-0	n-Pentane	P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.55						162	503
646-04-8	t-2-Pentene	P	12.79	12.79						162	510
627-20-3	c-2-Pentene	P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.55						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.62						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.77						162	537
142-29-0	Cyclopentene	15	**14.61**	14.61						162	551
71-23-8	n-Propanol		**14.75**	14.75						162	558
287-92-3	Cyclopentane	P	14.88	14.88						162	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.06						162	570
107-83-5	2-Methylpentane	P	15.08	15.08						162	571
96-14-0	3-Methylpentane	P	15.55	15.55						162	583
592-41-6	1-Hexene	P	**15.80**	15.80						162	590
110-54-3	n-Hexane	P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						101	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						101	626
71-43-2	Benzene		P	17.87	**17.87**	**17.87**		I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.14						101	658
591-76-4	2-Methylhexane		P	18.38	18.38						101	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.45						101	671
589-34-4	3-Methylhexane		P	18.66	18.66						101	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.75						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.80						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.09						101	690
142-82-5	n-Heptane		P	19.41	19.41	**19.41**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.09						21	722
592-13-2	2,5-Dimethylhexane			20.35	20.35						21	734
589-43-5	2,4-Dimethylhexane			20.43	20.43						21	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.93						21	753
108-88-3	Toluene		P	21.12	**21.12**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						21	763
592-27-8	2-Methylheptane		P	21.33	21.33						21	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						21	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						21	772
589-81-1	3-Methylheptane		p	21.55	21.55						21	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						21	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75						-57	855
108-38-3	m,p-xylene		P	23.95	23.95						-57	863
100-42-5	Styrene		P	24.40	24.40						-57	881
95-47-6	o-xylene		P	24.57	24.57						-57	886
124-11-8	1-Nonene	64		24.60	24.60						-57	889
111-84-2	n-Nonane		P	24.87	24.87	**24.87**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36						-141	919
103-65-1	n-propylbenzene		P	25.93	25.93						-141	947
80-56-8	a-Pinene			26.09	26.09						-141	950
620-14-4	3-Ethyltoluene		P	26.17	26.17						-141	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-141	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45						-141	964
611-14-3	2-Ethyltoluene		P	26.61	26.61						-141	975
127-91-3	b-Pinene			26.80	26.80						-141	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08						-141	991
124-18-5	n-Decane		P	27.26	27.26	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-48	1014
496-11-7	Indan	81		27.55	27.55						-48	1020
5989-27-5	d-Limonene			27.65	27.65						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10						-48	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-48	1037
104-51-8	n-Butylbenzene			28.45	28.45						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123
527-53-7	1,2,3,5-Tetramethylbenzene			30.50	30.50						-48	1124

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					0		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					0		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					0		0			
TVOC	Total Volatile Organic Compounds					0		0			
TPH(g)	TPH (gasoline)					0		0			
TPH(d)	TPH (diesel)					0		0			
TPH(h)	TPH (hexane)					0		0			
TPH(t)	TPH (toluene)					0		0			
TPHC	TPH (methane)					0		0			
TPH(Jet A)	TPH (Jet A Fuel)					0		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					0					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			0		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			0		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**0**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	032825-GCK		
Hexane Std Area:	313588		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.00	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.00		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	

Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0
Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3

Total Non-Methane Hydrocarbons	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
Total Non-Methane Hydrocarbons	16	1.0	0.00	0.0	0.0	ND	ND	ND	0
Total Volatile Organic Compounds	100	7.6	0.00	0.0	0.0	ND	ND	ND	0
TPH (gasoline)	95	7.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (diesel)	198	15.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (toluene)	92.14	7.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (methane)	16	1.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (Jet A Fuel)	177	13.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (Mineral Spirits)	117.81	8.0	0.00	0.0	0.0	ND	ND	ND	0
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3
Total Identified			0.0	0.0					
Paraffins			0.0						
Isoparaffins			0.0						
Aromatics			0.0						
Napthlenes			0.0						
Olefins			0.0						
Oxygenates			0.0						
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
C3 (propane)	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			0.0						
Totals from Identified:									
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00				
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00				
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00				
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00				
Aromatic C8-C10	114.2	9	0.0	0.00	0.00				
Aromatic C10-12	142.3	11	0.0	0.00	0.00				
n-Hexane	86.18	6.0	0.0	0.00	0.00				

TNMHC - C6	86.2	6
TNMHC - C1	16	1
TVOC	86.2	6
TPH(g)	95	7
TPH(d)	198	15
TPH(h)	86.2	6
TPH(t)	92.14	7
TPHC	16	1
TPH(Jet A)	177	13
TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	0.0	0.0
Alkenes	0.0	0.0
Alkynes	0.0	0.0
Cycloalkanes	0.0	0.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	0.0	0.0
Terpenes	0.0	0.0

SDG: **LABQC**
Laboratory Number: **B03285**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
0.0	2.000	1.00	1.00	1.15	2.00	3.00	3.45	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.07	2.00	3.00	3.20	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.23	2.00	3.00	3.70	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.15	2.00	2.00	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.20	2.00	2.00	3.61	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.19	2.00	1.50	3.57	6.0	U	ND		Y
0.0	2.000	2.00	2.00	2.62	2.00	6.00	7.87	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.11	2.00	1.50	3.33	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.19	2.00	1.50	3.57	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.89	2.00	3.00	5.67	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.59	2.00	2.00	4.76	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.18	2.00	1.20	3.55	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.64	2.00	2.00	4.93	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.18	2.00	1.20	3.55	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.12	2.00	1.20	3.35	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.52	2.00	1.50	4.56	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.12	2.00	1.20	3.35	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.64	2.00	2.00	4.93	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.45	2.00	1.20	4.34	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.12	2.00	1.00	3.36	6.0	U	ND		Y

0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.07	2.00	1.00	3.20	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.15	2.00	0.86	3.45	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.15	2.00	0.86	3.45	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.08	2.00	0.86	3.24	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.15	2.00	0.75	3.45	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.07	2.00	0.75	3.20	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.15	2.00	0.67	3.45	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.17	2.00	0.67	3.51	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.17	2.00	0.60	3.50	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.08	2.00	0.67	3.23	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.18	0.18	1.16	2.00	0.55	3.49	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.05	2.00	0.60	3.15	6.0	U	ND	Y
0.0	2.000	0.17	0.17	1.16	2.00	0.50	3.49	6.0	U	ND	Y
%											Y

100.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
100.0	45.00	45.0	45.00	29.51	45.00	135.0	88.5	135.0	U	ND	Y
100.0	45.00	5.9	5.92	24.27	45.00	17.8	72.8	135.0	U	ND	Y
100.0	45.00	6.4	6.43	25.03	45.00	19.3	75.1	135.0	U	ND	Y
100.0	45.00	3.0	3.00	24.34	45.00	9.0	73.0	135.0	U	ND	Y
100.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
100.0	45.00	6.4	6.43	24.28	45.00	19.3	72.8	135.0	U	ND	Y
100.0	45.00	45.0	45.00	29.51	45.00	135.0	88.5	135.0	U	ND	Y
100.0	45.00	3.5	3.46	25.11	45.00	10.4	75.3	135.0	U	ND	Y
100.0	45.00	5.6	5.63	27.16	45.00	16.9	81.5	135.0	U	ND	Y
0.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
0.0	25.000	3.6	3.57	13.91	25.00	10.7	41.7	75.0	U	ND	Y
%											
											Y
100.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
%											Y
0.0	5.000	2.5	2.50	3.08	5.00	7.5	9.3	15.0	U	ND	Y
0.0	5.000	1.7	1.67	3.01	5.00	5.0	9.0	15.0	U	ND	Y
0.0	25.000	6.3	6.25	14.89	25.00	18.8	44.7	75.0	U	ND	Y
0.0	25.000	5.0	5.00	14.78	25.00	15.0	44.4	75.0	U	ND	Y
0.0	25.000	4.2	4.17	14.72	25.00	12.5	44.2	75.0	U	ND	Y
0.0	25.000	3.6	3.57	14.67	25.00	10.7	44.0	75.0	U	ND	Y
0.0	25.000	3.1	3.13	14.63	25.00	9.4	43.9	75.0	U	ND	Y
0.0	25.000	2.8	2.78	14.60	25.00	8.3	43.8	75.0	U	ND	Y
0.0	25.000	2.5	2.50	14.58	25.00	7.5	43.7	75.0	U	ND	Y
0.0	25.000	2.3	2.27	14.56	25.00	6.8	43.7	75.0	U	ND	Y
0.0	25.000	2.1	2.08	14.54	25.00	6.3	43.6	75.0	U	ND	Y
0.0	25.000	2.1	2.08	14.54	25.00	6.3	43.6	75.0	U	ND	Y
0.0											Y
											Y
0.0	6.0	1.0	1.00	2.96	6.00	3.0	8.9	18.0			Y
0.0	6.0	0.9	0.86	3.52	6.00	2.6	10.6	18.0			Y
0.0	6.0	0.7	0.67	3.51	6.00	2.0	10.5	18.0			Y
0.0	6.0	0.5	0.55	3.19	6.00	1.6	9.6	18.0			Y
0.0	6.0	0.7	0.67	3.12	6.00	2.0	9.4	18.0			Y
0.0	6.0	0.5	0.55	3.18	6.00	1.6	9.5	18.0			Y
0.0	2.0	0.3	0.33	1.18	2.00	1.0	3.5	6.0	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
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					0.0			0.00	
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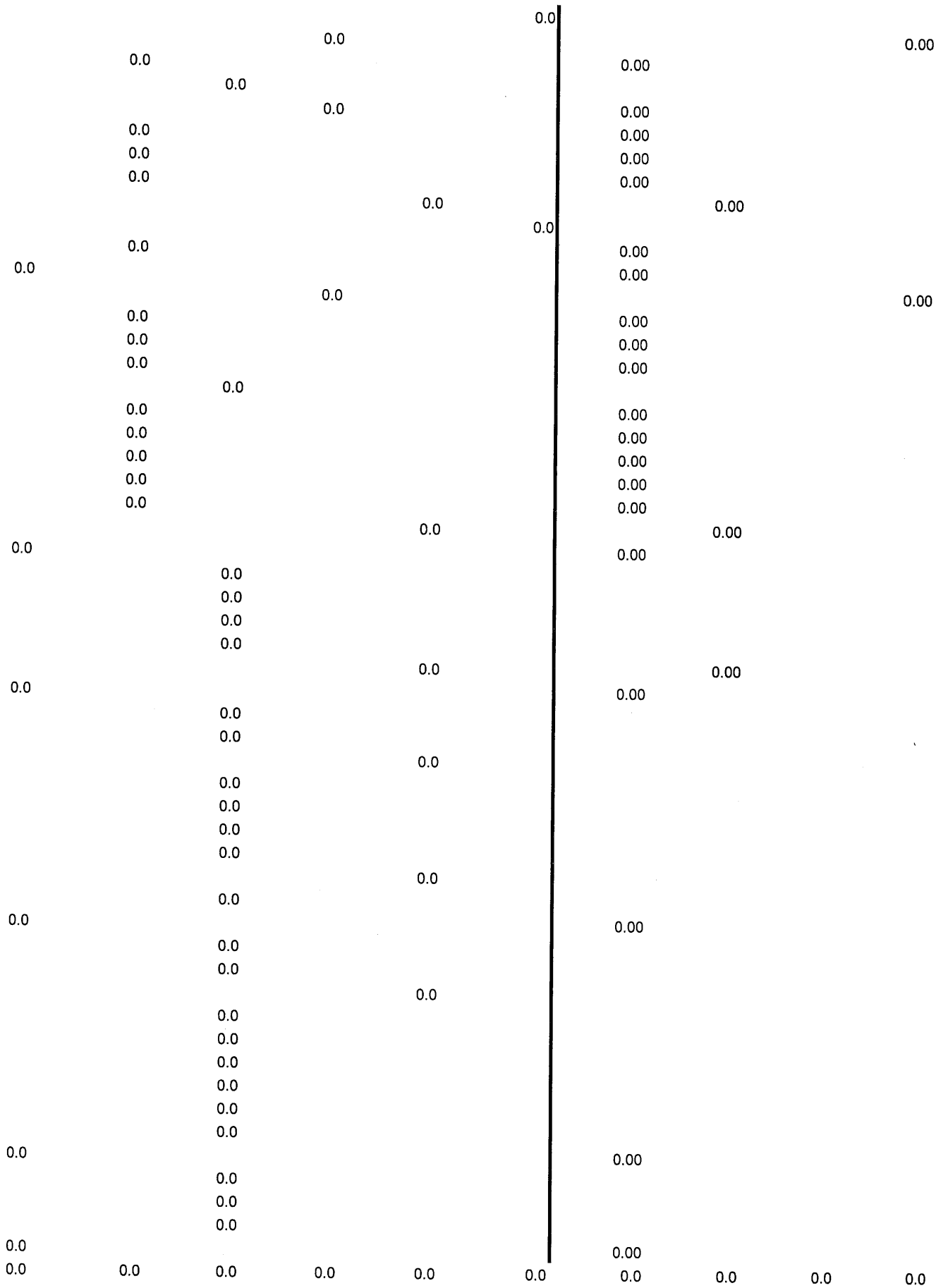
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Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
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SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**LABQC**	
Laboratory Number:		**B03285**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.00	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = $\frac{\text{Sum}\ \left|\frac{\text{(Astdni)}}{\text{(Cstdni)}}\right|_i}{}$

2) ppbC = $\frac{\text{6 Carbons} \times \text{Ansamp} \times \text{CDF} \times 1000}{\text{(Avg RFn)} \times \text{SV}}$ = **Cn**

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = $\frac{\text{(amt(ppbv)} \times \text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	1.74E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	1.74E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	1.74E+04	0	0.0	0.00	0.00
Propene	3	TRG	4.5	1.74E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	1.74E+04	0	0.0	0.00	0.00
i-Butane	4	TRG	58.1	1.74E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	1.74E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	1.74E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	1.74E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	1.74E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	1.74E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	1.74E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	1.74E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	1.74E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	1.74E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	1.74E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	1.74E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	1.74E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	1.74E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	1.74E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	1.74E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	1.74E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	1.74E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	1.74E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	1.74E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	1.74E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	1.74E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	1.74E+04	0	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	1.74E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	1.74E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	1.74E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	1.74E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	1.74E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	1.74E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	1.74E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	1.74E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	1.74E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	1.74E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	1.74E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	1.74E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	1.74E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	1.74E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	1.74E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	1.74E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	1.74E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	1.74E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	1.74E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	1.74E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	1.74E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	1.74E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	1.74E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	1.74E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	1.74E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	1.74E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	1.74E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	1.74E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	1.74E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	1.74E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	1.74E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	1.74E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	1.74E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	1.74E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	1.74E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	1.74E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	1.74E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbc	6	TRG	86.2	1.74E+04	0	0.0	0.00	0.00	
Total Non-Methane Hydrocarbc	1	TRG	16.0	1.74E+04	0	0.0	0.00	0.00	
Total Volatile Organic Compou	8	TRG	100.0	1.74E+04	0	0.0	0.00	0.00	
TPH (gasoline)	7	TRG	95.0	1.74E+04	0	0.0	0.00	0.00	
TPH (diesel)	15	TRG	198.0	1.74E+04	0	0.0	0.00	0.00	
TPH (hexane)	6	TRG	86.2	1.74E+04	0	0.0	0.00	0.00	
TPH (toluene)	7	TRG	92.1	1.74E+04	0	0.0	0.00	0.00	
TPH (methane)	1	TRG	16.0	1.74E+04	0	0.0	0.00	0.00	
TPH (Jet A Fuel)	13	TRG	177.0	1.74E+04	0	0.0	0.00	0.00	
TPH (Mineral Spirits)	8	TRG	117.8	1.74E+04	0	0.0	0.00	0.00	
C6+ (hexane)	6	TRG	86.2	1.74E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	1.74E+04		0.0			Sum ID
Paraffins	P	TRG	0.0	1.74E+04		0.0			Sum P
Isoparaffins	I	TRG	0.0	1.74E+04		0.0			Sum I
Aromatics	A	TRG	0.0	1.74E+04		0.0			Sum A
Napthlenes	N	TRG	0.0	1.74E+04		0.0			Sum N
Olefins	O	TRG	0.0	1.74E+04		0.0			Sum O
Oxygenates		TRG	0.0	1.74E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	1.74E+04	0	0.0	0.00	0.00	
C3 (propane)	3	TRG	44.1	1.74E+04	0	0.0	0.00	0.00	
C4 (Butane)	4	TRG	58.1	1.74E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	1.74E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	1.74E+04	0	0.0	0.00	0.00	
C7 (Heptane)	7	TRG	100.2	1.74E+04	0	0.0	0.00	0.00	

C8 (Octane)	8	TRG	114.2	1.74E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	1.74E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	1.74E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	1.74E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	1.74E+04	0	0.0	0.00	0.00
C12+ aś (Decane)	12	TRG	170.3	1.74E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	1.74E+04	0	0.0	0.00	0.00

Area Percent Report

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Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : METHOD BLANK
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 28 Mar 25 10:43 AM
Instrument Method: GC1SHORT.MTH
Report Created on: 28 Mar 25 11:00 AM
Analysis Method : GC1SHORT.MTH
Sample Info :

Sig. 1 in C:\HPCHEM\1\DATA\03285K\B03285B.D

Pk#	Ret Time	Area	Height	Type	Width	Area %

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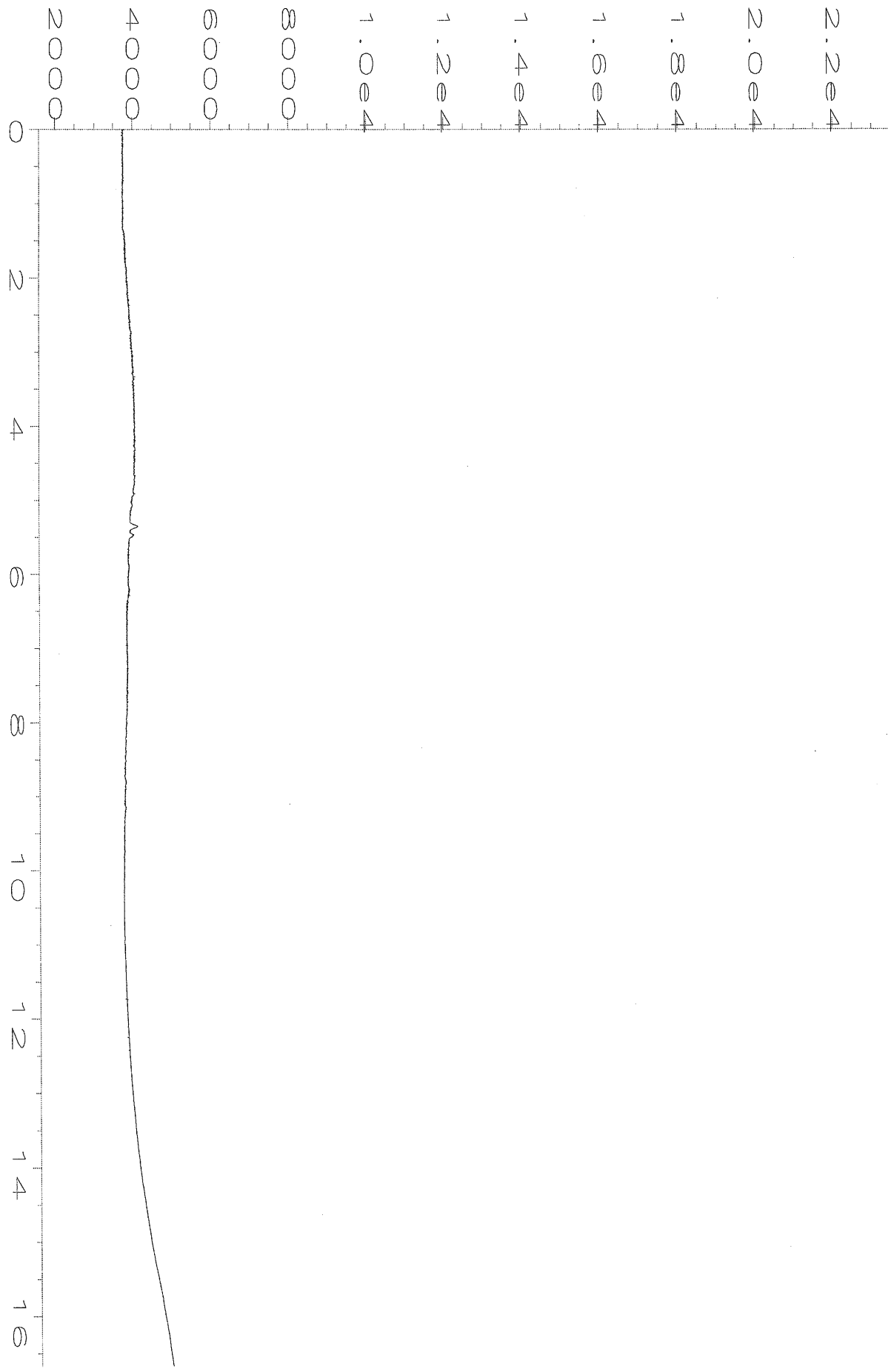
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METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: LABQC
Laboratory Number: B03315

File Name: B03315B
Description: METHOD BLANK
Canister:
QC_Batch: 033125-GCK

Date Sampled: **Time:**
Date Analyzed: 03/31/25 **Time:** 10:43
Can Factor: 1.00
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.00	3.00	ND	1.15	3.45	ND	ND
74-86-2	Acetylene	1.00	3.00	ND	1.07	3.20	ND	ND
74-84-0	Ethane	1.00	3.00	ND	1.23	3.70	ND	ND
115-07-1	Propene	0.67	2.00	ND	1.15	3.45	ND	ND
74-98-6	Propane	0.67	2.00	ND	1.20	3.61	ND	ND
75-28-5	i-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
106-98-9	1-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
106-97-8	n-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
624-64-6	t-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
590-18-1	c-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
78-78-4	i-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
109-67-1	1-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
109-66-0	n-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
646-04-8	t-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
627-20-3	c-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
75-83-2	2,2-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
142-29-0	Cyclopentene	0.40	1.20	ND	1.12	3.35	ND	ND
287-92-3	Cyclopentane	0.40	1.20	ND	1.15	3.45	ND	ND
79-29-8	2,3-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
107-83-5	2-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
96-14-0	3-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
592-41-6	1-Hexene	0.33	1.00	ND	1.15	3.45	ND	ND
110-54-3	n-Hexane	0.33	1.00	ND	1.18	3.53	ND	ND
1120-62-3	3-Methylcyclopentene	0.33	1.00	ND	1.12	3.36	ND	ND
96-37-7	Methylcyclopentane	0.33	1.00	ND	1.15	3.45	ND	ND
108-08-7	2,4-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
71-43-2	Benzene	0.33	1.00	ND	1.07	3.20	ND	ND
110-82-7	Cyclohexane	0.33	1.00	ND	1.15	3.45	ND	ND
591-76-4	2-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
565-59-3	2,3-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
589-34-4	3-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND
142-82-5	n-Heptane	0.29	0.86	ND	1.17	3.52	ND	ND
108-87-2	Methylcyclohexane	0.29	0.86	ND	1.15	3.45	ND	ND
592-13-2	2,5-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
589-43-5	2,4-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.29	0.86	ND	1.08	3.24	ND	ND
584-94-1	2,3-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
592-27-8	2-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-53-7	4-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-81-1	3-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
111-65-9	n-Octane	0.25	0.75	ND	1.17	3.51	ND	ND
100-41-4	Ethylbenzene	0.25	0.75	ND	1.09	3.26	ND	ND
108-38-3	m,p-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
100-42-5	Styrene	0.25	0.75	ND	1.07	3.20	ND	ND
95-47-6	o-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
111-84-2	n-Nonane	0.22	0.67	ND	1.17	3.51	ND	ND
98-82-8	i-Propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
103-65-1	n-propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
620-14-4	3-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
622-96-8	4-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
611-14-3	2-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
124-18-5	n-Decane	0.20	0.60	ND	1.17	3.50	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
141-93-5	1,3-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
105-05-5	1,4-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
104-51-8	n-Butylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
1120-21-4	Undecane	0.18	0.55	ND	1.16	3.49	ND	ND
91-20-3	Naphthalene	0.20	0.60	ND	1.05	3.15	ND	ND
112-40-3	Dodecane	0.17	0.50	ND	1.16	3.49	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	7.50	22.50	ND	26.50	79.49	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	45.00	135.00	ND	29.51	88.52	ND	ND

	Sample: Composition	**ppbC**	**Percent**
	Total Identified	0.00	100.0
P	Paraffins	0.00	0.0
I	Isoparaffins	0.00	0.0
A	Aromatics	0.00	0.0
N	Napthlenes	0.00	0.0
O	Olefins	0.00	0.0

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **LABQC**
EAS ID: **B03315**
File Name: **B03315B**
Sample ID: **METHOD BLANK**
Sampled: **NA**
Received: **NA**
Analyzed: **3/2312025**
QCBatch: **033125-GCK**
Can: **NA**
Can Factor: **1.00**
Volume: **200.0**
Type: **MB**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **NA** Matrix **AA**
Time: **NA** Chem **TRG**
Time: **10:43** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **377602**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C4 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene		P	4.06	4.06			NA	NA	NA	
74-86-2	Acetylene		P	4.10	4.10			NA	NA	NA	
74-84-0	Ethane		P	4.17	**4.17**	**4.17**		I	I	H	200	200
115-07-1	Propene		P	5.11	5.11						-204	290
74-98-6	Propane		P	5.20	**5.20**	**5.20**		I	I	H	300	300
75-28-5	i-Butane		P	6.60	**6.60**						134	351
67-56-1	Methanol			8.30	8.30						134	401
106-98-9	1-Butene		P	7.29	7.29						134	367
106-99-0	1,3-Butadiene			**7.48**	7.48						134	373
106-97-8	n-Butane		P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene		P	8.75	8.75						198	410
590-18-1	c-2-Butene		P	9.63	9.63						198	431
64-17-5	Ethanol			10.85	10.85						198	461
563-45-1	3-Methyl-1-butene	6		**11.05**	11.05						198	465
67-64-1	Acetone			11.52	11.52						198	476
78-78-4	i-Pentane		P	11.37	11.37						198	473
109-67-1	1-Pentene		P	12.30	12.30						198	495
67-63-0	Isopropanol			12.65	12.65						198	504
563-46-2	2-Methyl-1-butene	9		**12.36**	12.36						198	497
109-66-0	n-Pentane		P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene		P	12.55	12.55						162	503
646-04-8	t-2-Pentene		P	12.79	12.79						162	510
627-20-3	c-2-Pentene		P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol			**13.55**	13.55						600	526
513-35-9	2-Methyl-2-butene	13		**13.62**	13.62						600	520
75-83-2	2,2-Dimethylbutane		P	13.77	13.77						162	537
142-29-0	Cyclopentene	15		**14.61**	14.61						162	551
71-23-8	n-Propanol			**14.75**	14.75						162	558
287-92-3	Cyclopentane		P	14.88	14.88						162	567
1634-04-4	Methyl tert butyl ether			**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane		P	15.06	15.06						162	570
107-83-5	2-Methylpentane		P	15.08	15.08						162	571
96-14-0	3-Methylpentane		P	15.55	15.55						162	583
592-41-6	1-Hexene		P	**15.80**	15.80						162	590
110-54-3	n-Hexane		P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether			**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						101	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						101	626
71-43-2	Benzene		P	17.87	**17.87**	**17.87**		I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.14						101	658
591-76-4	2-Methylhexane		P	18.38	18.38						101	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.45						101	671
589-34-4	3-Methylhexane		P	18.66	18.66						101	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.75						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.80						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.09						101	690
142-82-5	n-Heptane		P	19.41	19.41	**19.41**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.09						21	722
592-13-2	2,5-Dimethylhexane			20.35	20.35						21	734
589-43-5	2,4-Dimethylhexane			20.43	20.43						21	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.93						21	753
108-88-3	Toluene		P	21.12	**21.12**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						21	763
592-27-8	2-Methylheptane		P	21.33	21.33						21	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						21	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						21	772
589-81-1	3-Methylheptane		p	21.55	21.55						21	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						21	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75						-57	855
108-38-3	m,p-xylene		P	23.95	23.95						-57	863
100-42-5	Styrene		P	24.40	24.40						-57	881
95-47-6	o-xylene		P	24.57	24.57						-57	886
124-11-8	1-Nonene	64		24.60	24.60						-57	889
111-84-2	n-Nonane		P	24.87	24.87	**24.87**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36						-141	919
103-65-1	n-propylbenzene		P	25.93	25.93						-141	947
80-56-8	a-Pinene			26.09	26.09						-141	950
620-14-4	3-Ethyltoluene		P	26.17	26.17						-141	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-141	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45						-141	964
611-14-3	2-Ethyltoluene		P	26.61	26.61						-141	975
127-91-3	b-Pinene			26.80	26.80						-141	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08						-141	991
124-18-5	n-Decane		P	27.26	27.26	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-48	1014
496-11-7	Indan	81		27.55	27.55						-48	1020
5989-27-5	d-Limonene			27.65	27.65						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10						-48	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-48	1037
104-51-8	n-Butylbenzene			28.45	28.45						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123
527-53-7	1,2,3,5-Tetramethylbenzene			30.50	30.50						-48	1124

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					0		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					0		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					0		0			
TVOC	Total Volatile Organic Compounds					0		0			
TPH(g)	TPH (gasoline)					0		0			
TPH(d)	TPH (diesel)					0		0			
TPH(h)	TPH (hexane)					0		0			
TPH(t)	TPH (toluene)					0		0			
TPHC	TPH (methane)					0		0			
TPH(Jet A)	TPH (Jet A Fuel)					0		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					0					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			0		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			0		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**0**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	033125-GCK		
Hexane Std Area:	377602		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.00	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.00		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	

Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0
Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3

Total Non-Methane Hydrocarbons	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
Total Non-Methane Hydrocarbons	16	1.0	0.00	0.0	0.0	ND	ND	ND	0
Total Volatile Organic Compounds	100	7.6	0.00	0.0	0.0	ND	ND	ND	0
TPH (gasoline)	95	7.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (diesel)	198	15.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (toluene)	92.14	7.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (methane)	16	1.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (Jet A Fuel)	177	13.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (Mineral Spirits)	117.81	8.0	0.00	0.0	0.0	ND	ND	ND	0
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0

Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			0.0	0.0						
Paraffins			0.0							
Isoparaffins			0.0							
Aromatics			0.0							
Napthlenes			0.0							
Olefins			0.0							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
C3 (propane)	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			0.0							

Totals from Identified:					
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00
Aromatic C8-C10	114.2	9	0.0	0.00	0.00
Aromatic C10-12	142.3	11	0.0	0.00	0.00
n-Hexane	86.18	6.0	0.0	0.00	0.00

TNMHC - C6	86.2	6
TNMHC - C1	16	1
TVOC	86.2	6
TPH(g)	95	7
TPH(d)	198	15
TPH(h)	86.2	6
TPH(t)	92.14	7
TPHC	16	1
TPH(Jet A)	177	13
TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	0.0	0.0
Alkenes	0.0	0.0
Alkynes	0.0	0.0
Cycloalkanes	0.0	0.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	0.0	0.0
Terpenes	0.0	0.0

SDG: **LABQC**
Laboratory Number: **B03315**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
0.0	2.000	1.00	1.00	1.15	2.00	3.00	3.45	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.07	2.00	3.00	3.20	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.23	2.00	3.00	3.70	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.15	2.00	2.00	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.20	2.00	2.00	3.61	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.19	2.00	1.50	3.57	6.0	U	ND		Y
0.0	2.000	2.00	2.00	2.62	2.00	6.00	7.87	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.11	2.00	1.50	3.33	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.19	2.00	1.50	3.57	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.89	2.00	3.00	5.67	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.59	2.00	2.00	4.76	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.18	2.00	1.20	3.55	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.64	2.00	2.00	4.93	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.18	2.00	1.20	3.55	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.12	2.00	1.20	3.35	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.52	2.00	1.50	4.56	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.12	2.00	1.20	3.35	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.64	2.00	2.00	4.93	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.45	2.00	1.20	4.34	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.12	2.00	1.00	3.36	6.0	U	ND		Y

0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.07	2.00	1.00	3.20	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.15	2.00	0.86	3.45	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.15	2.00	0.86	3.45	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.08	2.00	0.86	3.24	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.15	2.00	0.75	3.45	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.07	2.00	0.75	3.20	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.15	2.00	0.67	3.45	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.17	2.00	0.67	3.51	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.17	2.00	0.60	3.50	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.08	2.00	0.67	3.23	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.18	0.18	1.16	2.00	0.55	3.49	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.05	2.00	0.60	3.15	6.0	U	ND	Y
0.0	2.000	0.17	0.17	1.16	2.00	0.50	3.49	6.0	U	ND	Y
%											Y

100.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
100.0	45.00	45.0	45.00	29.51	45.00	135.0	88.5	135.0	U	ND	Y
100.0	45.00	5.9	5.92	24.27	45.00	17.8	72.8	135.0	U	ND	Y
100.0	45.00	6.4	6.43	25.03	45.00	19.3	75.1	135.0	U	ND	Y
100.0	45.00	3.0	3.00	24.34	45.00	9.0	73.0	135.0	U	ND	Y
100.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
100.0	45.00	6.4	6.43	24.28	45.00	19.3	72.8	135.0	U	ND	Y
100.0	45.00	45.0	45.00	29.51	45.00	135.0	88.5	135.0	U	ND	Y
100.0	45.00	3.5	3.46	25.11	45.00	10.4	75.3	135.0	U	ND	Y
100.0	45.00	5.6	5.63	27.16	45.00	16.9	81.5	135.0	U	ND	Y
0.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
0.0	25.000	3.6	3.57	13.91	25.00	10.7	41.7	75.0	U	ND	Y
%											Y
100.0											Y
0.0											Y
0.0											Y
0.0											Y
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0.0											Y
0.0											Y
%											Y
0.0	5.000	2.5	2.50	3.08	5.00	7.5	9.3	15.0	U	ND	Y
0.0	5.000	1.7	1.67	3.01	5.00	5.0	9.0	15.0	U	ND	Y
0.0	25.000	6.3	6.25	14.89	25.00	18.8	44.7	75.0	U	ND	Y
0.0	25.000	5.0	5.00	14.78	25.00	15.0	44.4	75.0	U	ND	Y
0.0	25.000	4.2	4.17	14.72	25.00	12.5	44.2	75.0	U	ND	Y
0.0	25.000	3.6	3.57	14.67	25.00	10.7	44.0	75.0	U	ND	Y
0.0	25.000	3.1	3.13	14.63	25.00	9.4	43.9	75.0	U	ND	Y
0.0	25.000	2.8	2.78	14.60	25.00	8.3	43.8	75.0	U	ND	Y
0.0	25.000	2.5	2.50	14.58	25.00	7.5	43.7	75.0	U	ND	Y
0.0	25.000	2.3	2.27	14.56	25.00	6.8	43.7	75.0	U	ND	Y
0.0	25.000	2.1	2.08	14.54	25.00	6.3	43.6	75.0	U	ND	Y
0.0	25.000	2.1	2.08	14.54	25.00	6.3	43.6	75.0	U	ND	Y
0.0											Y
											Y
0.0	6.0	1.0	1.00	2.96	6.00	3.0	8.9	18.0			Y
0.0	6.0	0.9	0.86	3.52	6.00	2.6	10.6	18.0			Y
0.0	6.0	0.7	0.67	3.51	6.00	2.0	10.5	18.0			Y
0.0	6.0	0.5	0.55	3.19	6.00	1.6	9.6	18.0			Y
0.0	6.0	0.7	0.67	3.12	6.00	2.0	9.4	18.0			Y
0.0	6.0	0.5	0.55	3.18	6.00	1.6	9.5	18.0			Y
0.0	2.0	0.3	0.33	1.18	2.00	1.0	3.5	6.0	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
0.0						0.00			
					0.0		0.00		
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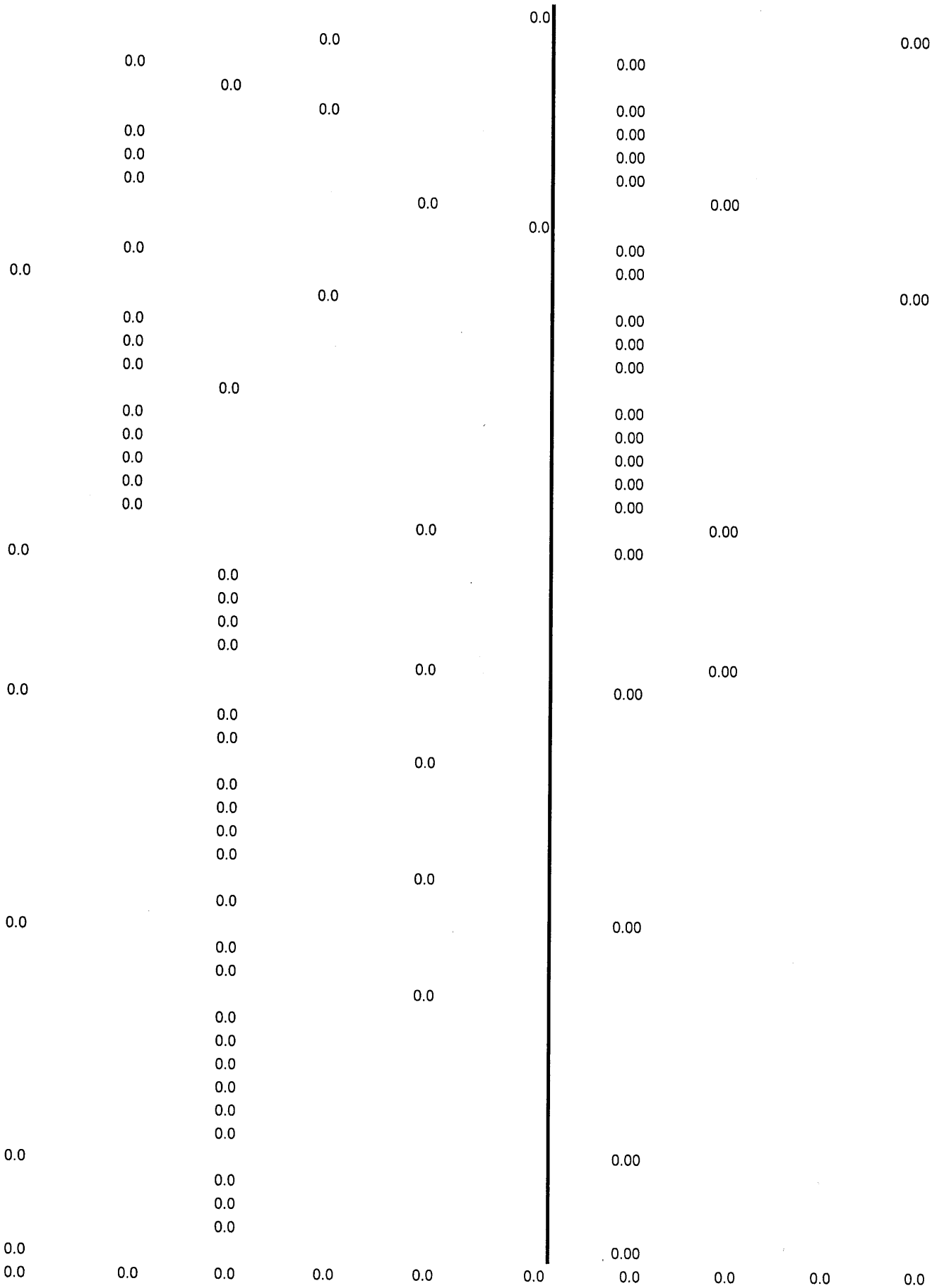
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Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
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0.00	0.00	0.00	0.00	0.00	0.00

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SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**LABQC**	
Laboratory Number:		**B03315**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.00	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = Cn

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	Cn ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.09E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.09E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.09E+04	0	0.0	0.00	0.00
Propene	3	TRG	4.5	2.09E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.09E+04	0	0.0	0.00	0.00
i-Butane	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.09E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.09E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.09E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.09E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.09E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.09E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.09E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.09E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.09E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.09E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.09E+04	0	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.09E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.09E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.09E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	2.09E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.09E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.09E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.09E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.09E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.09E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.09E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.09E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.09E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbc	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	
Total Non-Methane Hydrocarbc	1	TRG	16.0	2.09E+04	0	0.0	0.00	0.00	
Total Volatile Organic Compou	8	TRG	100.0	2.09E+04	0	0.0	0.00	0.00	
TPH (gasoline)	7	TRG	95.0	2.09E+04	0	0.0	0.00	0.00	
TPH (diesel)	15	TRG	198.0	2.09E+04	0	0.0	0.00	0.00	
TPH (hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	
TPH (toluene)	7	TRG	92.1	2.09E+04	0	0.0	0.00	0.00	
TPH (methane)	1	TRG	16.0	2.09E+04	0	0.0	0.00	0.00	
TPH (Jet A Fuel)	13	TRG	177.0	2.09E+04	0	0.0	0.00	0.00	
TPH (Mineral Spirits)	8	TRG	117.8	2.09E+04	0	0.0	0.00	0.00	
C6+ (hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.09E+04		0.0			Sum ID
Paraffins	P	TRG	0.0	2.09E+04		0.0			Sum P
Isoparaffins	I	TRG	0.0	2.09E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.09E+04		0.0			Sum A
Napthlenes	N	TRG	0.0	2.09E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.09E+04		0.0			Sum O
Oxygenates		TRG	0.0	2.09E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.09E+04	0	0.0	0.00	0.00	
C3 (propane)	3	TRG	44.1	2.09E+04	0	0.0	0.00	0.00	
C4 (Butane)	4	TRG	58.1	2.09E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.09E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.09E+04	0	0.0	0.00	0.00	
C7 (Heptane)	7	TRG	100.2	2.09E+04	0	0.0	0.00	0.00	

C8 (Octane)	8	TRG	114.2	2.09E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.09E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.09E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.09E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.09E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.09E+04	0	0.0	0.00	0.00

Area Percent Report

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Operator : MM
Instrument : ANALYZER1
Sample Name : METHOD BLANK
Run Time Bar Code:
Acquired on : 31 Mar 25 10:44 AM
Report Created on: 31 Mar 25 11:00 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03315K\B03315B.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
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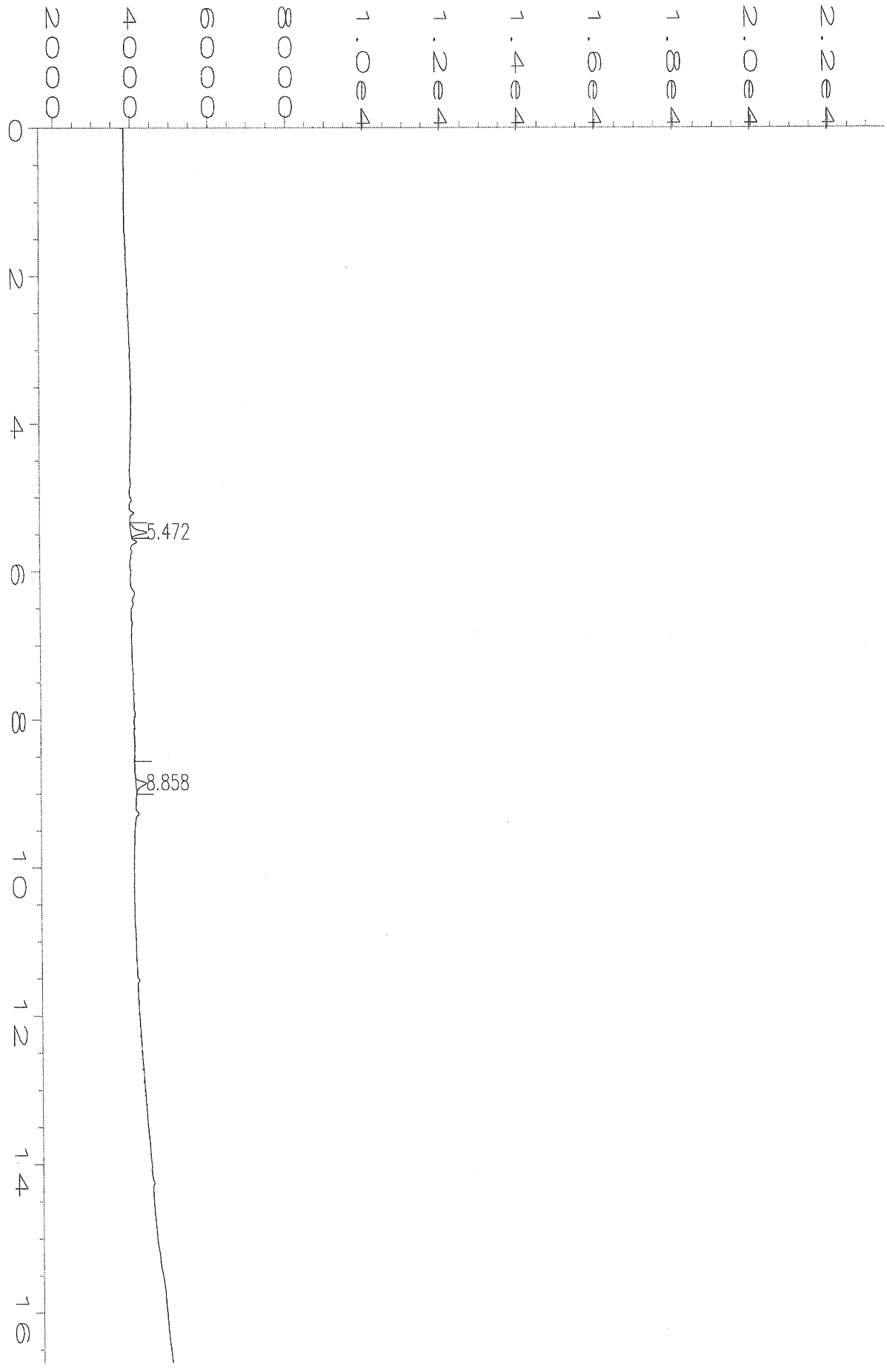
2	8.858	1230	259	BB	0.064	40.4942

Total area = 3038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METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: LABQC
Laboratory Number: B04015

File Name: B04015B
Description: METHOD BLANK
Canister:
QC_Batch: 040125-GCK

Date Sampled: **Time:**
Date Analyzed: 04/01/25 **Time:** 10:35
Can Factor: 1.00
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.00	3.00	ND	1.15	3.45	ND	ND
74-86-2	Acetylene	1.00	3.00	ND	1.07	3.20	ND	ND
74-84-0	Ethane	1.00	3.00	ND	1.23	3.70	ND	ND
115-07-1	Propene	0.67	2.00	ND	1.15	3.45	ND	ND
74-98-6	Propane	0.67	2.00	ND	1.20	3.61	ND	ND
75-28-5	i-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
106-98-9	1-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
106-97-8	n-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
624-64-6	t-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
590-18-1	c-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
78-78-4	i-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
109-67-1	1-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
109-66-0	n-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
646-04-8	t-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
627-20-3	c-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
75-83-2	2,2-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
142-29-0	Cyclopentene	0.40	1.20	ND	1.12	3.35	ND	ND
287-92-3	Cyclopentane	0.40	1.20	ND	1.15	3.45	ND	ND
79-29-8	2,3-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
107-83-5	2-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
96-14-0	3-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
592-41-6	1-Hexene	0.33	1.00	ND	1.15	3.45	ND	ND
110-54-3	n-Hexane	0.33	1.00	ND	1.18	3.53	ND	ND
1120-62-3	3-Methylcyclopentene	0.33	1.00	ND	1.12	3.36	ND	ND
96-37-7	Methylcyclopentane	0.33	1.00	ND	1.15	3.45	ND	ND
108-08-7	2,4-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
71-43-2	Benzene	0.33	1.00	ND	1.07	3.20	ND	ND
110-82-7	Cyclohexane	0.33	1.00	ND	1.15	3.45	ND	ND
591-76-4	2-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
565-59-3	2,3-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
589-34-4	3-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND
142-82-5	n-Heptane	0.29	0.86	ND	1.17	3.52	ND	ND
108-87-2	Methylcyclohexane	0.29	0.86	ND	1.15	3.45	ND	ND
592-13-2	2,5-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
589-43-5	2,4-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.29	0.86	ND	1.08	3.24	ND	ND
584-94-1	2,3-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
592-27-8	2-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-53-7	4-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-81-1	3-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
111-65-9	n-Octane	0.25	0.75	ND	1.17	3.51	ND	ND
100-41-4	Ethylbenzene	0.25	0.75	ND	1.09	3.26	ND	ND
108-38-3	m,p-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
100-42-5	Styrene	0.25	0.75	ND	1.07	3.20	ND	ND
95-47-6	o-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
111-84-2	n-Nonane	0.22	0.67	ND	1.17	3.51	ND	ND
98-82-8	i-Propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
103-65-1	n-propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
620-14-4	3-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
622-96-8	4-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
611-14-3	2-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
124-18-5	n-Decane	0.20	0.60	ND	1.17	3.50	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
141-93-5	1,3-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
105-05-5	1,4-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
104-51-8	n-Butylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
1120-21-4	Undecane	0.18	0.55	ND	1.16	3.49	ND	ND
91-20-3	Naphthalene	0.20	0.60	ND	1.05	3.15	ND	ND
112-40-3	Dodecane	0.17	0.50	ND	1.16	3.49	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	7.50	22.50	ND	26.50	79.49	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	45.00	135.00	ND	29.51	88.52	ND	ND

	Sample: Composition	**ppbC**	**Percent**
	Total Identified	0.00	100.0
P	Paraffins	0.00	0.0
I	Isoparaffins	0.00	0.0
A	Aromatics	0.00	0.0
N	Napthlenes	0.00	0.0
O	Olefins	0.00	0.0

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **LABQC**
EAS ID: **B04015**
File Name: **B04015B**
Sample ID: **METHOD BLANK**
Sampled: **NA**
Received: **NA**
Analyzed: **04/01/25**
QCBatch: **040125-GCK**
Can: **NA**
Can Factor: **1.00**
Volume: **200.0**
Type: **MB**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **NA** Matrix **AA**
Time: **NA** Chem **TRG**
Time: **10:35** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **390567**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

							RT Win	C2-C4	C5-C12		
							RT	**0.3**	**0.1**		
							RTI	**3**	**3**		
CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.06			NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.10			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.17**		I	I	H	200	200
115-07-1	Propene	P	5.11	5.11						-204	290
74-98-6	Propane	P	5.20	**5.20**	**5.20**		I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.60**						134	351
67-56-1	Methanol		8.30	8.30						134	401
106-98-9	1-Butene	P	7.29	7.29						134	367
106-99-0	1,3-Butadiene		**7.48**	7.48						134	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75						198	410
590-18-1	c-2-Butene	P	9.63	9.63						198	431
64-17-5	Ethanol		10.85	10.85						198	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.05						198	465
67-64-1	Acetone		11.52	11.52						198	476
78-78-4	i-Pentane	P	11.37	11.37						198	473
109-67-1	1-Pentene	P	12.30	12.30						198	495
67-63-0	Isopropanol		12.65	12.65						198	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.36						198	497
109-66-0	n-Pentane	P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.55						162	503
646-04-8	t-2-Pentene	P	12.79	12.79						162	510
627-20-3	c-2-Pentene	P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.55						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.62						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.77						162	537
142-29-0	Cyclopentene	15	**14.61**	14.61						162	551
71-23-8	n-Propanol		**14.75**	14.75						162	558
287-92-3	Cyclopentane	P	14.88	14.88						162	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.06						162	570
107-83-5	2-Methylpentane	P	15.08	15.08						162	571
96-14-0	3-Methylpentane	P	15.55	15.55						162	583
592-41-6	1-Hexene	P	**15.80**	15.80						162	590
110-54-3	n-Hexane	P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						101	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						101	626
71-43-2	Benzene		P	17.87	**17.87**	**17.87**		I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.14						101	658
591-76-4	2-Methylhexane		P	18.38	18.38						101	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.45						101	671
589-34-4	3-Methylhexane		P	18.66	18.66						101	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.75						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.80						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.09						101	690
142-82-5	n-Heptane		P	19.41	19.41	**19.41**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.09						21	722
592-13-2	2,5-Dimethylhexane			20.35	20.35						21	734
589-43-5	2,4-Dimethylhexane			20.43	20.43						21	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.93						21	753
108-88-3	Toluene		P	21.12	**21.12**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						21	763
592-27-8	2-Methylheptane		P	21.33	21.33						21	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						21	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						21	772
589-81-1	3-Methylheptane		p	21.55	21.55						21	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						21	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75						-57	855
108-38-3	m,p-xylene		P	23.95	23.95						-57	863
100-42-5	Styrene		P	24.40	24.40						-57	881
95-47-6	o-xylene		P	24.57	24.57						-57	886
124-11-8	1-Nonene	64		24.60	24.60						-57	889
111-84-2	n-Nonane		P	24.87	24.87	**24.87**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36						-141	919
103-65-1	n-propylbenzene		P	25.93	25.93						-141	947
80-56-8	a-Pinene			26.09	26.09						-141	950
620-14-4	3-Ethyltoluene		P	26.17	26.17						-141	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-141	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45						-141	964
611-14-3	2-Ethyltoluene		P	26.61	26.61						-141	975
127-91-3	b-Pinene			26.80	26.80						-141	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08						-141	991
124-18-5	n-Decane		P	27.26	27.26	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-48	1014
496-11-7	Indan	81		27.55	27.55						-48	1020
5989-27-5	d-Limonene			27.65	27.65						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10						-48	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-48	1037
104-51-8	n-Butylbenzene			28.45	28.45						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123
527-53-7	1,2,3,5-Tetramethylbenzene			30.50	30.50						-48	1124

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					0		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					0		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					0		0			
TVOC	Total Volatile Organic Compounds					0		0			
TPH(g)	TPH (gasoline)					0		0			
TPH(d)	TPH (diesel)					0		0			
TPH(h)	TPH (hexane)					0		0			
TPH(t)	TPH (toluene)					0		0			
TPHC	TPH (methane)					0		0			
TPH(Jet A)	TPH (Jet A Fuel)					0		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					0					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			0		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			0		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**0**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040125-GCK		
Hexane Std Area:	390567		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.00	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.00		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	

Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0
Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3

Total Non-Methane Hydrocarbons	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
Total Non-Methane Hydrocarbons	16	1.0	0.00	0.0	0.0	ND	ND	ND	0
Total Volatile Organic Compounds	100	7.6	0.00	0.0	0.0	ND	ND	ND	0
TPH (gasoline)	95	7.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (diesel)	198	15.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (toluene)	92.14	7.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (methane)	16	1.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (Jet A Fuel)	177	13.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (Mineral Spirits)	117.81	8.0	0.00	0.0	0.0	ND	ND	ND	0
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3
Total Identified			0.0	0.0					
Paraffins			0.0						
Isoparaffins			0.0						
Aromatics			0.0						
Napthlenes			0.0						
Olefins			0.0						
Oxygenates			0.0						
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
C3 (propane)	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			0.0						
Totals from Identified:									
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00				
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00				
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00				
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00				
Aromatic C8-C10	114.2	9	0.0	0.00	0.00				
Aromatic C10-12	142.3	11	0.0	0.00	0.00				
n-Hexane	86.18	6.0	0.0	0.00	0.00				

TNMHC - C6	86.2	6
TNMHC - C1	16	1
TVOC	86.2	6
TPH(g)	95	7
TPH(d)	198	15
TPH(h)	86.2	6
TPH(t)	92.14	7
TPHC	16	1
TPH(Jet A)	177	13
TPH (MS)	117.81	8
C6+	117.81	8

Alkanes	0.0	0.0
Alkenes	0.0	0.0
Alkynes	0.0	0.0
Cycloalkanes	0.0	0.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	0.0	0.0
Terpenes	0.0	0.0

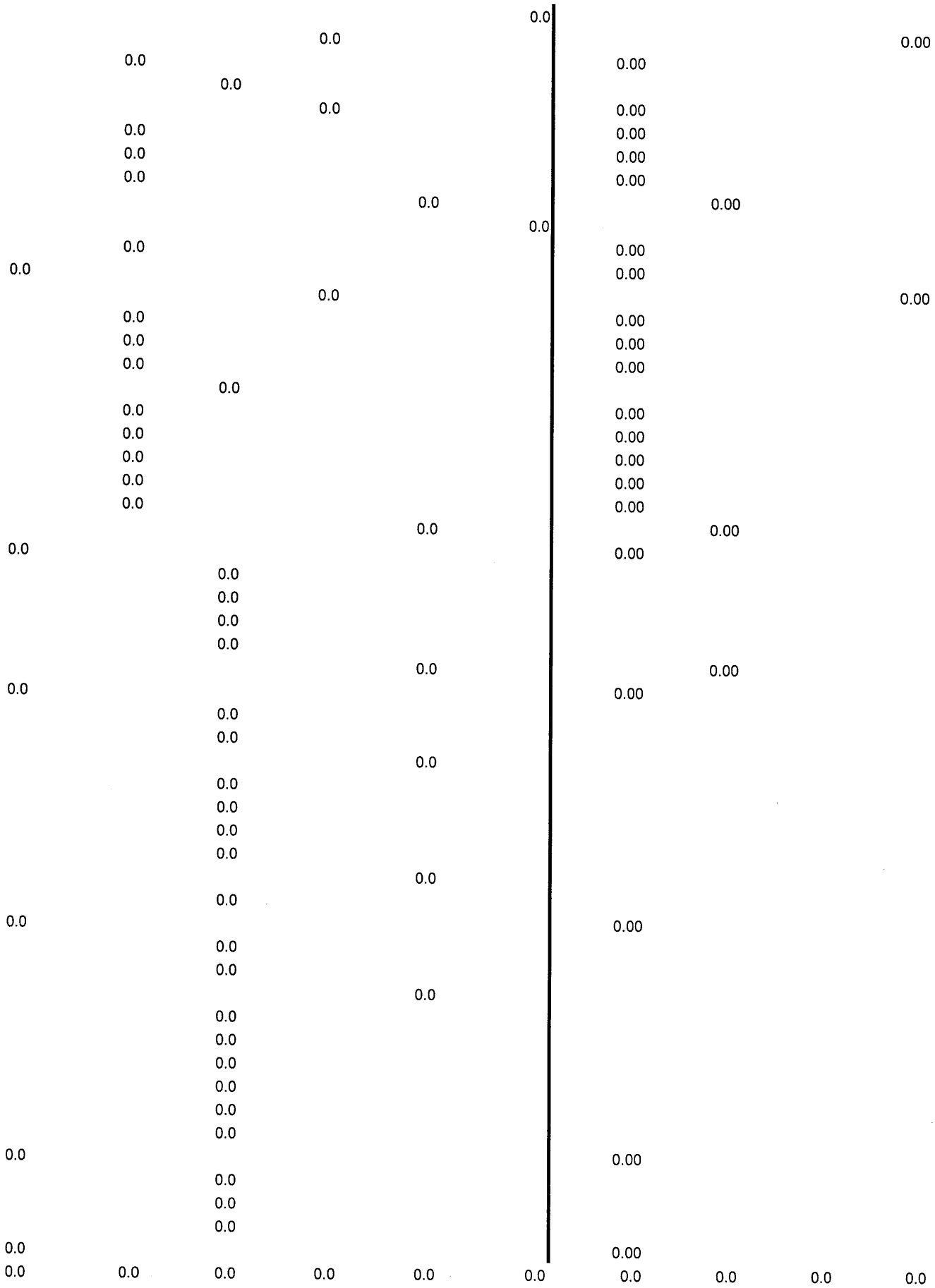
SDG: **LABQC**
Laboratory Number: **B04015**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
0.0	2.000	1.00	1.00	1.15	2.00	3.00	3.45	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.07	2.00	3.00	3.20	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.23	2.00	3.00	3.70	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.15	2.00	2.00	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.20	2.00	2.00	3.61	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.19	2.00	1.50	3.57	6.0	U	ND		Y
0.0	2.000	2.00	2.00	2.62	2.00	6.00	7.87	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.11	2.00	1.50	3.33	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.19	2.00	1.50	3.57	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.89	2.00	3.00	5.67	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.59	2.00	2.00	4.76	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.18	2.00	1.20	3.55	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.64	2.00	2.00	4.93	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.18	2.00	1.20	3.55	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.12	2.00	1.20	3.35	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.52	2.00	1.50	4.56	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.12	2.00	1.20	3.35	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.64	2.00	2.00	4.93	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.45	2.00	1.20	4.34	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.12	2.00	1.00	3.36	6.0	U	ND		Y

0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.07	2.00	1.00	3.20	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.15	2.00	0.86	3.45	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.15	2.00	0.86	3.45	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.08	2.00	0.86	3.24	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.15	2.00	0.75	3.45	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.07	2.00	0.75	3.20	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.15	2.00	0.67	3.45	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.17	2.00	0.67	3.51	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.17	2.00	0.60	3.50	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.08	2.00	0.67	3.23	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.18	0.18	1.16	2.00	0.55	3.49	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.05	2.00	0.60	3.15	6.0	U	ND	Y
0.0	2.000	0.17	0.17	1.16	2.00	0.50	3.49	6.0	U	ND	Y
%											Y

100.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
100.0	45.00	45.0	45.00	29.51	45.00	135.0	88.5	135.0	U	ND	Y
100.0	45.00	5.9	5.92	24.27	45.00	17.8	72.8	135.0	U	ND	Y
100.0	45.00	6.4	6.43	25.03	45.00	19.3	75.1	135.0	U	ND	Y
100.0	45.00	3.0	3.00	24.34	45.00	9.0	73.0	135.0	U	ND	Y
100.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
100.0	45.00	6.4	6.43	24.28	45.00	19.3	72.8	135.0	U	ND	Y
100.0	45.00	45.0	45.00	29.51	45.00	135.0	88.5	135.0	U	ND	Y
100.0	45.00	3.5	3.46	25.11	45.00	10.4	75.3	135.0	U	ND	Y
100.0	45.00	5.6	5.63	27.16	45.00	16.9	81.5	135.0	U	ND	Y
0.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
0.0	25.000	3.6	3.57	13.91	25.00	10.7	41.7	75.0	U	ND	Y
%											Y
100.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
%											Y
0.0	5.000	2.5	2.50	3.08	5.00	7.5	9.3	15.0	U	ND	Y
0.0	5.000	1.7	1.67	3.01	5.00	5.0	9.0	15.0	U	ND	Y
0.0	25.000	6.3	6.25	14.89	25.00	18.8	44.7	75.0	U	ND	Y
0.0	25.000	5.0	5.00	14.78	25.00	15.0	44.4	75.0	U	ND	Y
0.0	25.000	4.2	4.17	14.72	25.00	12.5	44.2	75.0	U	ND	Y
0.0	25.000	3.6	3.57	14.67	25.00	10.7	44.0	75.0	U	ND	Y
0.0	25.000	3.1	3.13	14.63	25.00	9.4	43.9	75.0	U	ND	Y
0.0	25.000	2.8	2.78	14.60	25.00	8.3	43.8	75.0	U	ND	Y
0.0	25.000	2.5	2.50	14.58	25.00	7.5	43.7	75.0	U	ND	Y
0.0	25.000	2.3	2.27	14.56	25.00	6.8	43.7	75.0	U	ND	Y
0.0	25.000	2.1	2.08	14.54	25.00	6.3	43.6	75.0	U	ND	Y
0.0	25.000	2.1	2.08	14.54	25.00	6.3	43.6	75.0	U	ND	Y
0.0											Y
											Y
0.0	6.0	1.0	1.00	2.96	6.00	3.0	8.9	18.0			Y
0.0	6.0	0.9	0.86	3.52	6.00	2.6	10.6	18.0			Y
0.0	6.0	0.7	0.67	3.51	6.00	2.0	10.5	18.0			Y
0.0	6.0	0.5	0.55	3.19	6.00	1.6	9.6	18.0			Y
0.0	6.0	0.7	0.67	3.12	6.00	2.0	9.4	18.0			Y
0.0	6.0	0.5	0.55	3.18	6.00	1.6	9.5	18.0			Y
0.0	2.0	0.3	0.33	1.18	2.00	1.0	3.5	6.0	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
0.0						0.00			
					0.0		0.00		
0.0						0.00			
		0.0				0.00			
						0.0			
					0.0		0.00		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
						0.0			
		0.0				0.00			
					0.0		0.00		
						0.0			
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
						0.0			
			0.0						0.00
						0.0			
		0.0				0.00			
		0.0				0.00			
		0.0				0.00			
					0.0		0.00		
0.0						0.00			
						0.0			
			0.0						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		0.00
		0.00

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
0.00	0.00	0.00	0.00	0.00	0.00

0.00

0.00

0.00

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0.00

0.0 0.0 0.0 0.0 0.0 0.0

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**LABQC**	
Laboratory Number:		**B04015**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.00	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum $\left|\frac{\text{(Astdni)}}{\text{(Cstdni)}}\right|_i$

2) ppbC = $\frac{\text{6 Carbons} \quad \text{Ansamp} \quad \text{CDF} \quad 1000}{\text{(Avg RFn)} \quad \text{SV}}$ = **Cn**

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = $\frac{\text{(amt(ppbv)} \quad \text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.16E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.16E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.16E+04	0	0.0	0.00	0.00
Propene	3	TRG	4.5	2.16E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.16E+04	0	0.0	0.00	0.00
i-Butane	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.16E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.16E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.16E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.16E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.16E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.16E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.16E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.16E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.16E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.16E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.16E+04	0	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.16E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.16E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.16E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	2.16E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.16E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.16E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.16E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.16E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.16E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.16E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.16E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbc	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	
Total Non-Methane Hydrocarbc	1	TRG	16.0	2.16E+04	0	0.0	0.00	0.00	
Total Volatile Organic Compou	8	TRG	100.0	2.16E+04	0	0.0	0.00	0.00	
TPH (gasoline)	7	TRG	95.0	2.16E+04	0	0.0	0.00	0.00	
TPH (diesel)	15	TRG	198.0	2.16E+04	0	0.0	0.00	0.00	
TPH (hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	
TPH (toluene)	7	TRG	92.1	2.16E+04	0	0.0	0.00	0.00	
TPH (methane)	1	TRG	16.0	2.16E+04	0	0.0	0.00	0.00	
TPH (Jet A Fuel)	13	TRG	177.0	2.16E+04	0	0.0	0.00	0.00	
TPH (Mineral Spirits)	8	TRG	117.8	2.16E+04	0	0.0	0.00	0.00	
C6+ (hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.16E+04		0.0			Sum ID
Paraffins	P	TRG	0.0	2.16E+04		0.0			Sum P
Isoparaffins	I	TRG	0.0	2.16E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.16E+04		0.0			Sum A
Napthlenes	N	TRG	0.0	2.16E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.16E+04		0.0			Sum O
Oxygenates		TRG	0.0	2.16E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.16E+04	0	0.0	0.00	0.00	
C3 (propane)	3	TRG	44.1	2.16E+04	0	0.0	0.00	0.00	
C4 (Butane)	4	TRG	58.1	2.16E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.16E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.16E+04	0	0.0	0.00	0.00	
C7 (Heptane)	7	TRG	100.2	2.16E+04	0	0.0	0.00	0.00	

C8 (Octane)	8	TRG	114.2	2.16E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.16E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.16E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.16E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.16E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.16E+04	0	0.0	0.00	0.00

Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04015K\B04015B.D
Operator : MM
Instrument : ANALYZER1
Sample Name : METHOD BLANK
Run Time Bar Code:
Acquired on : 01 Apr 25 10:35 AM
Report Created on: 01 Apr 25 10:52 AM
Sample Info :

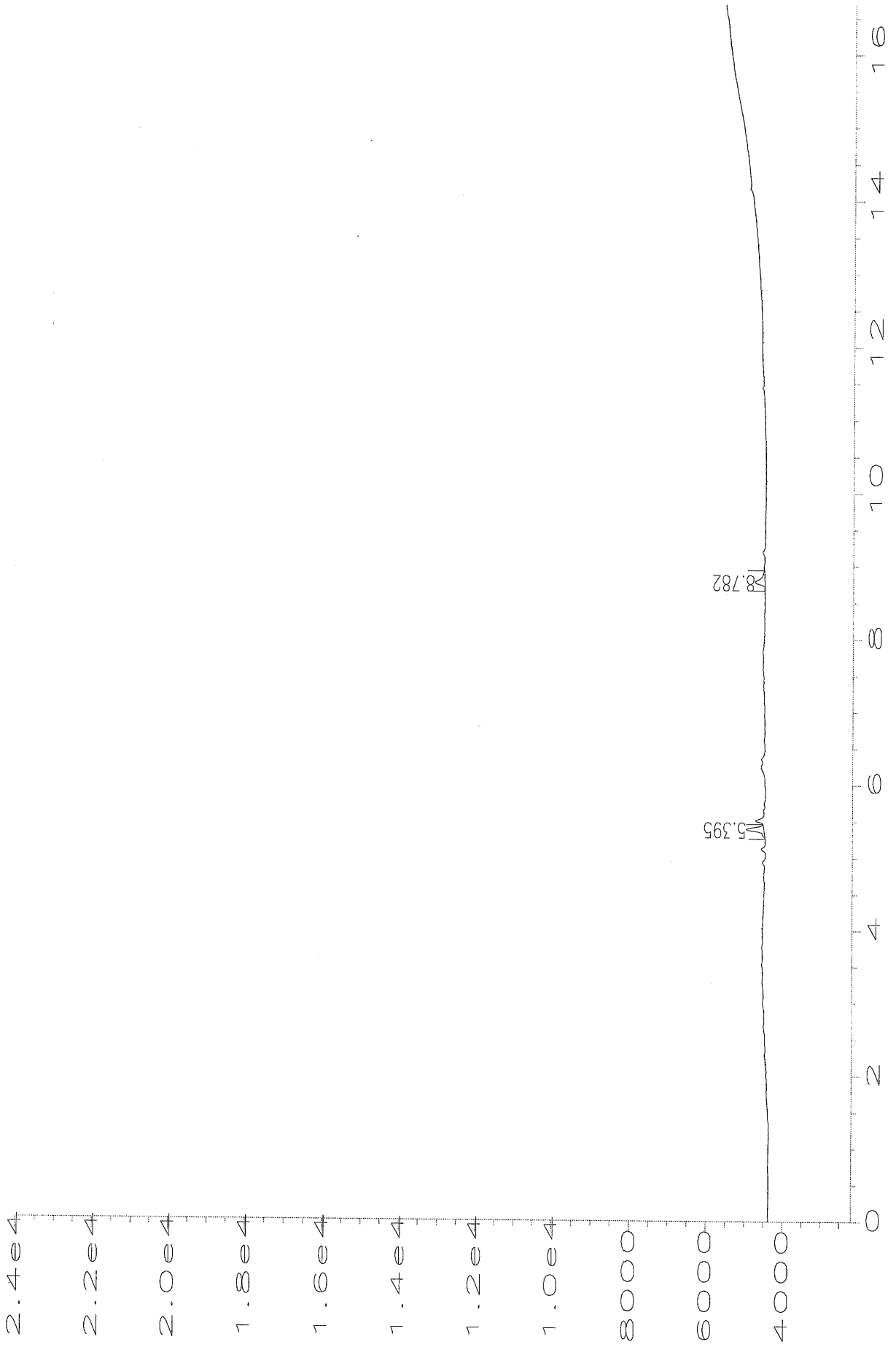
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04015K\B04015B.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.395	1744	458	BV	0.058	56.4780
2	8.782	1344	254	BB	0.072	43.5220

Total area = 3088

C:\HPCHEM\1\DATA\040155K\B040155B.D



Area Percent Report

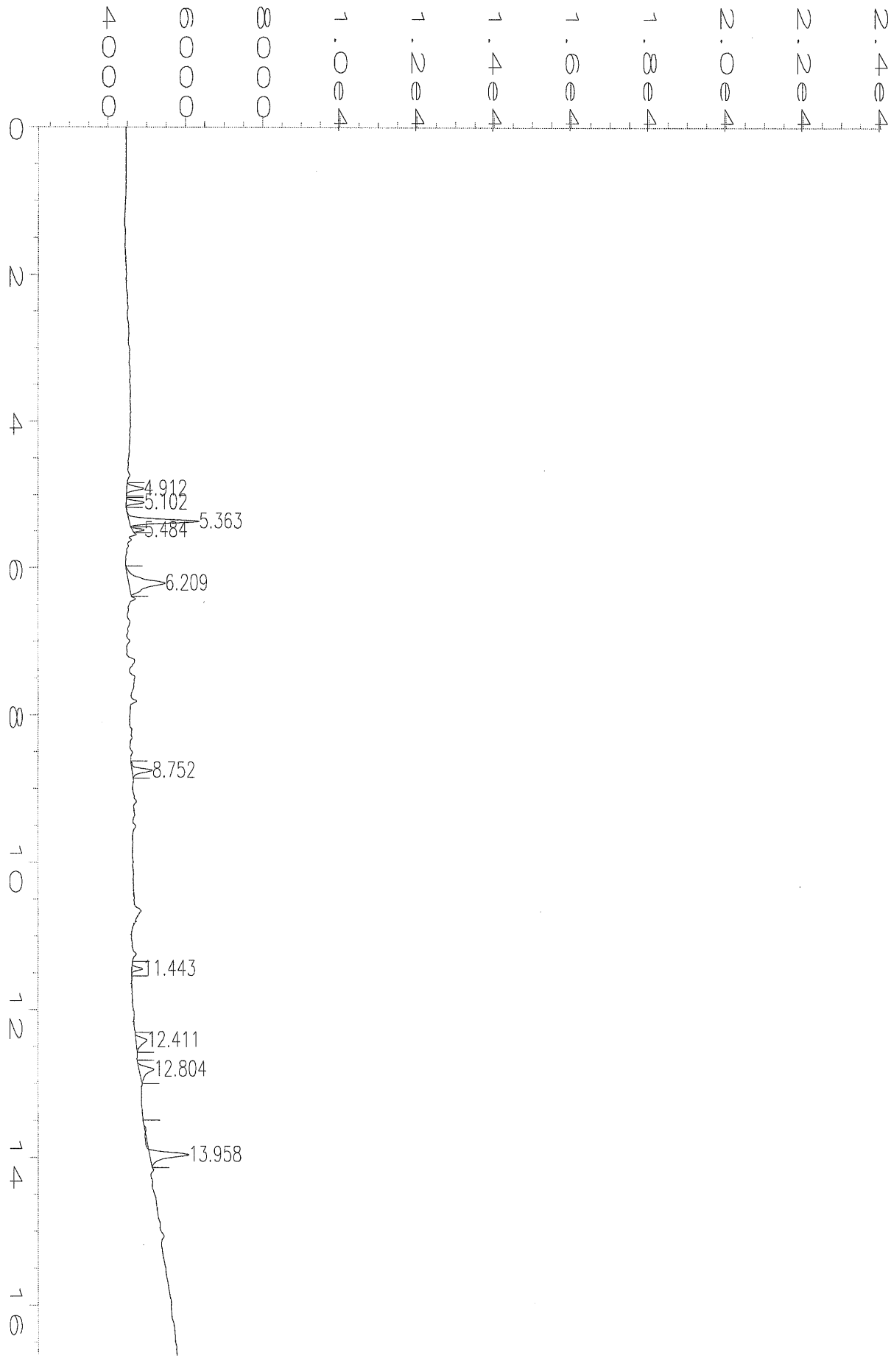
Data File Name : C:\HPCHEM\1\DATA\04015K\B04015A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : HUMID BLANK
Run Time Bar Code:
Acquired on : 01 Apr 25 09:59 AM
Report Created on: 01 Apr 25 10:15 AM
Sample Info :

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04015K\B04015A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.912	1653	436	BB	0.059	5.4356
2	5.102	1425	466	BV	0.048	4.6867
3	5.363	7030	1805	PV	0.060	23.1230
4	5.484	692	309	PV	0.037	2.2758
5	6.209	7475	935	BV	0.109	24.5851
6	8.752	2180	524	BB	0.060	7.1686
7	11.443	879	285	BB	0.043	2.8902
8	12.411	1770	282	BB	0.092	5.8210
9	12.804	2437	381	BB	0.090	8.0141
10	13.958	4865	1008	BV	0.073	15.9999

Total area = 30404


4000
6000
8000
1.0e4
1.2e4
1.4e4
1.6e4
1.8e4
2.0e4
2.2e4
2.4e4
0
2
4
6
8
10
12
14
16
4.912
5.102
5.363
5.484
6.209
8.752
11.443
12.411
12.804
13.958
C:\HPCHEM\1\DATA\040715K\B0401 5A.D

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: LABQC
Laboratory Number: B04025

File Name: B04025B
Description: METHOD BLANK
Canister:
QC_Batch: 040225-GCK

Date Sampled:
Date Analyzed: 04/02/25
Can Factor: 1.00
Air Volume: 200 ml

Time:
Time: 10:23

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.00	3.00	ND	1.15	3.45	ND	ND
74-86-2	Acetylene	1.00	3.00	ND	1.07	3.20	ND	ND
74-84-0	Ethane	1.00	3.00	ND	1.23	3.70	ND	ND
115-07-1	Propene	0.67	2.00	ND	1.15	3.45	ND	ND
74-98-6	Propane	0.67	2.00	ND	1.20	3.61	ND	ND
75-28-5	i-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
106-98-9	1-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
106-97-8	n-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
624-64-6	t-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
590-18-1	c-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
78-78-4	i-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
109-67-1	1-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
109-66-0	n-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
646-04-8	t-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
627-20-3	c-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
75-83-2	2,2-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
142-29-0	Cyclopentene	0.40	1.20	ND	1.12	3.35	ND	ND
287-92-3	Cyclopentane	0.40	1.20	ND	1.15	3.45	ND	ND
79-29-8	2,3-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
107-83-5	2-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
96-14-0	3-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
592-41-6	1-Hexene	0.33	1.00	ND	1.15	3.45	ND	ND
110-54-3	n-Hexane	0.33	1.00	ND	1.18	3.53	ND	ND
1120-62-3	3-Methylcyclopentene	0.33	1.00	ND	1.12	3.36	ND	ND
96-37-7	Methylcyclopentane	0.33	1.00	ND	1.15	3.45	ND	ND
108-08-7	2,4-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
71-43-2	Benzene	0.33	1.00	ND	1.07	3.20	ND	ND
110-82-7	Cyclohexane	0.33	1.00	ND	1.15	3.45	ND	ND
591-76-4	2-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
565-59-3	2,3-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
589-34-4	3-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND
142-82-5	n-Heptane	0.29	0.86	ND	1.17	3.52	ND	ND
108-87-2	Methylcyclohexane	0.29	0.86	ND	1.15	3.45	ND	ND
592-13-2	2,5-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
589-43-5	2,4-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.29	0.86	ND	1.08	3.24	ND	ND
584-94-1	2,3-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
592-27-8	2-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-53-7	4-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-81-1	3-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
111-65-9	n-Octane	0.25	0.75	ND	1.17	3.51	ND	ND
100-41-4	Ethylbenzene	0.25	0.75	ND	1.09	3.26	ND	ND
108-38-3	m,p-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
100-42-5	Styrene	0.25	0.75	ND	1.07	3.20	ND	ND
95-47-6	o-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
111-84-2	n-Nonane	0.22	0.67	ND	1.17	3.51	ND	ND
98-82-8	i-Propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
103-65-1	n-propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
620-14-4	3-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
622-96-8	4-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
611-14-3	2-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
124-18-5	n-Decane	0.20	0.60	ND	1.17	3.50	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
141-93-5	1,3-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
105-05-5	1,4-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
104-51-8	n-Butylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
1120-21-4	Undecane	0.18	0.55	ND	1.16	3.49	ND	ND
91-20-3	Naphthalene	0.20	0.60	ND	1.05	3.15	ND	ND
112-40-3	Dodecane	0.17	0.50	ND	1.16	3.49	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	7.50	22.50	ND	26.50	79.49	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	45.00	135.00	ND	29.51	88.52	ND	ND

	Sample: Composition	**ppbC**	**Percent**
	Total Identified	0.00	100.0
P	Paraffins	0.00	0.0
I	Isoparaffins	0.00	0.0
A	Aromatics	0.00	0.0
N	Napthlenes	0.00	0.0
O	Olefins	0.00	0.0

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **LABQC**
EAS ID: **B04025**
File Name: **B04025B**
Sample ID: **METHOD BLANK**
Sampled: **NA**
Received: **NA**
Analyzed: **04/02/25**
QCBatch: **040225-GCK**
Can: **NA**
Can Factor: **1.00**
Volume: **200.0**
Type: **MB**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **NA** Matrix **AA**
Time: **NA** Chem **TRG**
Time: **10:23** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **385895**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C4 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.06			NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.10			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.17**		I	I	H	200	200
115-07-1	Propene	P	5.11	5.11						-204	290
74-98-6	Propane	P	5.20	**5.20**	**5.20**		I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.60**						134	351
67-56-1	Methanol		8.30	8.30						134	401
106-98-9	1-Butene	P	7.29	7.29						134	367
106-99-0	1,3-Butadiene		**7.48**	7.48						134	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75						198	410
590-18-1	c-2-Butene	P	9.63	9.63						198	431
64-17-5	Ethanol		10.85	10.85						198	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.05						198	465
67-64-1	Acetone		11.52	11.52						198	476
78-78-4	i-Pentane	P	11.37	11.37						198	473
109-67-1	1-Pentene	P	12.30	12.30						198	495
67-63-0	Isopropanol		12.65	12.65						198	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.36						198	497
109-66-0	n-Pentane	P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.55						162	503
646-04-8	t-2-Pentene	P	12.79	12.79						162	510
627-20-3	c-2-Pentene	P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.55						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.62						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.77						162	537
142-29-0	Cyclopentene	15	**14.61**	14.61						162	551
71-23-8	n-Propanol		**14.75**	14.75						162	558
287-92-3	Cyclopentane	P	14.88	14.88						162	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.06						162	570
107-83-5	2-Methylpentane	P	15.08	15.08						162	571
96-14-0	3-Methylpentane	P	15.55	15.55						162	583
592-41-6	1-Hexene	P	**15.80**	15.80						162	590
110-54-3	n-Hexane	P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						101	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						101	626
71-43-2	Benzene		P	17.87	**17.87**	**17.87**		I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.14						101	658
591-76-4	2-Methylhexane		P	18.38	18.38						101	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.45						101	671
589-34-4	3-Methylhexane		P	18.66	18.66						101	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.75						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.80						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.09						101	690
142-82-5	n-Heptane		P	19.41	19.41	**19.41**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.09						21	722
592-13-2	2,5-Dimethylhexane			20.35	20.35						21	734
589-43-5	2,4-Dimethylhexane			20.43	20.43						21	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.93						21	753
108-88-3	Toluene		P	21.12	**21.12**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						21	763
592-27-8	2-Methylheptane		P	21.33	21.33						21	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						21	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						21	772
589-81-1	3-Methylheptane		p	21.55	21.55						21	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						21	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75						-57	855
108-38-3	m,p-xylene		P	23.95	23.95						-57	863
100-42-5	Styrene		P	24.40	24.40						-57	881
95-47-6	o-xylene		P	24.57	24.57						-57	886
124-11-8	1-Nonene	64		24.60	24.60						-57	889
111-84-2	n-Nonane		P	24.87	24.87	**24.87**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36						-141	919
103-65-1	n-propylbenzene		P	25.93	25.93						-141	947
80-56-8	a-Pinene			26.09	26.09						-141	950
620-14-4	3-Ethyltoluene		P	26.17	26.17						-141	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-141	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45						-141	964
611-14-3	2-Ethyltoluene		P	26.61	26.61						-141	975
127-91-3	b-Pinene			26.80	26.80						-141	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08						-141	991
124-18-5	n-Decane		P	27.26	27.26	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-48	1014
496-11-7	Indan	81		27.55	27.55						-48	1020
5989-27-5	d-Limonene			27.65	27.65						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10						-48	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-48	1037
104-51-8	n-Butylbenzene			28.45	28.45						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123
527-53-7	1,2,3,5-Tetramethylbenzene			30.50	30.50						-48	1124

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					0		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					0		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					0		0			
TVOC	Total Volatile Organic Compounds					0		0			
TPH(g)	TPH (gasoline)					0		0			
TPH(d)	TPH (diesel)					0		0			
TPH(h)	TPH (hexane)					0		0			
TPH(t)	TPH (toluene)					0		0			
TPHC	TPH (methane)					0		0			
TPH(Jet A)	TPH (Jet A Fuel)					0		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					0					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			0		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			0		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**0**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040225-GCK		
Hexane Std Area:	385895		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.00	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.00		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	

Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0
Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3

Total Non-Methane Hydrocarbons	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
Total Non-Methane Hydrocarbons	16	1.0	0.00	0.0	0.0	ND	ND	ND	0
Total Volatile Organic Compounds	100	7.6	0.00	0.0	0.0	ND	ND	ND	0
TPH (gasoline)	95	7.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (diesel)	198	15.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (toluene)	92.14	7.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (methane)	16	1.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (Jet A Fuel)	177	13.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (Mineral Spirits)	117.81	8.0	0.00	0.0	0.0	ND	ND	ND	0
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3
Total Identified			0.0	0.0					
Paraffins			0.0						
Isoparaffins			0.0						
Aromatics			0.0						
Napthlenes			0.0						
Olefins			0.0						
Oxygenates			0.0						
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
C3 (propane)	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			0.0						
Totals from Identified:									
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00				
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00				
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00				
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00				
Aromatic C8-C10	114.2	9	0.0	0.00	0.00				
Aromatic C10-12	142.3	11	0.0	0.00	0.00				
n-Hexane	86.18	6.0	0.0	0.00	0.00				
TNMHC - C6	86.2	6							
TNMHC - C1	16	1							
TVOC	86.2	6							
TPH(g)	95	7							
TPH(d)	198	15							
TPH(h)	86.2	6							
TPH(t)	92.14	7							
TPHC	16	1							
TPH(Jet A)	177	13							
TPH (MS)	117.81	8							
C6+	117.81	8							

Alkanes	0.0	0.0
Alkenes	0.0	0.0
Alkynes	0.0	0.0
Cycloalkanes	0.0	0.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	0.0	0.0
Terpenes	0.0	0.0

SDG: **LABQC**
Laboratory Number: **B04025**

Mole %	(1)	(2)	Calc	Calc	Calc	Calc	Calc	Calc				
Result	MDL	MDL	MDL	MDL	MDL	RL	RL	RL		Detect	EPA	Rept
%	ppbC	ppbV	ppbV	ug/m3	ppbC	ppbV	ug/m3	ppbC	Flag	Flan	Flag	Res
0.0	2.000	1.00	1.00	1.15	2.00	3.00	3.45	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.07	2.00	3.00	3.20	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.23	2.00	3.00	3.70	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.15	2.00	2.00	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.20	2.00	2.00	3.61	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.19	2.00	1.50	3.57	6.0	U	ND		Y
0.0	2.000	2.00	2.00	2.62	2.00	6.00	7.87	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.11	2.00	1.50	3.33	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.19	2.00	1.50	3.57	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.89	2.00	3.00	5.67	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.59	2.00	2.00	4.76	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.18	2.00	1.20	3.55	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.64	2.00	2.00	4.93	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.18	2.00	1.20	3.55	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.12	2.00	1.20	3.35	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.52	2.00	1.50	4.56	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.12	2.00	1.20	3.35	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.64	2.00	2.00	4.93	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.45	2.00	1.20	4.34	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.12	2.00	1.00	3.36	6.0	U	ND		Y

0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.07	2.00	1.00	3.20	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.15	2.00	0.86	3.45	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.15	2.00	0.86	3.45	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.08	2.00	0.86	3.24	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.15	2.00	0.75	3.45	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.07	2.00	0.75	3.20	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.15	2.00	0.67	3.45	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.17	2.00	0.67	3.51	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.17	2.00	0.60	3.50	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.08	2.00	0.67	3.23	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.18	0.18	1.16	2.00	0.55	3.49	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.05	2.00	0.60	3.15	6.0	U	ND	Y
0.0	2.000	0.17	0.17	1.16	2.00	0.50	3.49	6.0	U	ND	Y
%											Y

100.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
100.0	45.00	45.0	45.00	29.51	45.00	135.0	88.5	135.0	U	ND	Y
100.0	45.00	5.9	5.92	24.27	45.00	17.8	72.8	135.0	U	ND	Y
100.0	45.00	6.4	6.43	25.03	45.00	19.3	75.1	135.0	U	ND	Y
100.0	45.00	3.0	3.00	24.34	45.00	9.0	73.0	135.0	U	ND	Y
100.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
100.0	45.00	6.4	6.43	24.28	45.00	19.3	72.8	135.0	U	ND	Y
100.0	45.00	45.0	45.00	29.51	45.00	135.0	88.5	135.0	U	ND	Y
100.0	45.00	3.5	3.46	25.11	45.00	10.4	75.3	135.0	U	ND	Y
100.0	45.00	5.6	5.63	27.16	45.00	16.9	81.5	135.0	U	ND	Y
0.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
0.0	25.000	3.6	3.57	13.91	25.00	10.7	41.7	75.0	U	ND	Y
%											Y
100.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
%											Y
0.0	5.000	2.5	2.50	3.08	5.00	7.5	9.3	15.0	U	ND	Y
0.0	5.000	1.7	1.67	3.01	5.00	5.0	9.0	15.0	U	ND	Y
0.0	25.000	6.3	6.25	14.89	25.00	18.8	44.7	75.0	U	ND	Y
0.0	25.000	5.0	5.00	14.78	25.00	15.0	44.4	75.0	U	ND	Y
0.0	25.000	4.2	4.17	14.72	25.00	12.5	44.2	75.0	U	ND	Y
0.0	25.000	3.6	3.57	14.67	25.00	10.7	44.0	75.0	U	ND	Y
0.0	25.000	3.1	3.13	14.63	25.00	9.4	43.9	75.0	U	ND	Y
0.0	25.000	2.8	2.78	14.60	25.00	8.3	43.8	75.0	U	ND	Y
0.0	25.000	2.5	2.50	14.58	25.00	7.5	43.7	75.0	U	ND	Y
0.0	25.000	2.3	2.27	14.56	25.00	6.8	43.7	75.0	U	ND	Y
0.0	25.000	2.1	2.08	14.54	25.00	6.3	43.6	75.0	U	ND	Y
0.0	25.000	2.1	2.08	14.54	25.00	6.3	43.6	75.0	U	ND	Y
0.0											Y
											Y
0.0	6.0	1.0	1.00	2.96	6.00	3.0	8.9	18.0			Y
0.0	6.0	0.9	0.86	3.52	6.00	2.6	10.6	18.0			Y
0.0	6.0	0.7	0.67	3.51	6.00	2.0	10.5	18.0			Y
0.0	6.0	0.5	0.55	3.19	6.00	1.6	9.6	18.0			Y
0.0	6.0	0.7	0.67	3.12	6.00	2.0	9.4	18.0			Y
0.0	6.0	0.5	0.55	3.18	6.00	1.6	9.5	18.0			Y
0.0	2.0	0.3	0.33	1.18	2.00	1.0	3.5	6.0	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
0.0						0.00			
					0.0		0.00		
0.0						0.00			
	0.0					0.00			
						0.0			
					0.0		0.00		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
						0.0			
	0.0					0.00			
					0.0		0.00		
						0.0			
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
	0.0					0.00			
			0.0						0.00
						0.0			
			0.0						0.00
						0.0			
	0.0					0.00			
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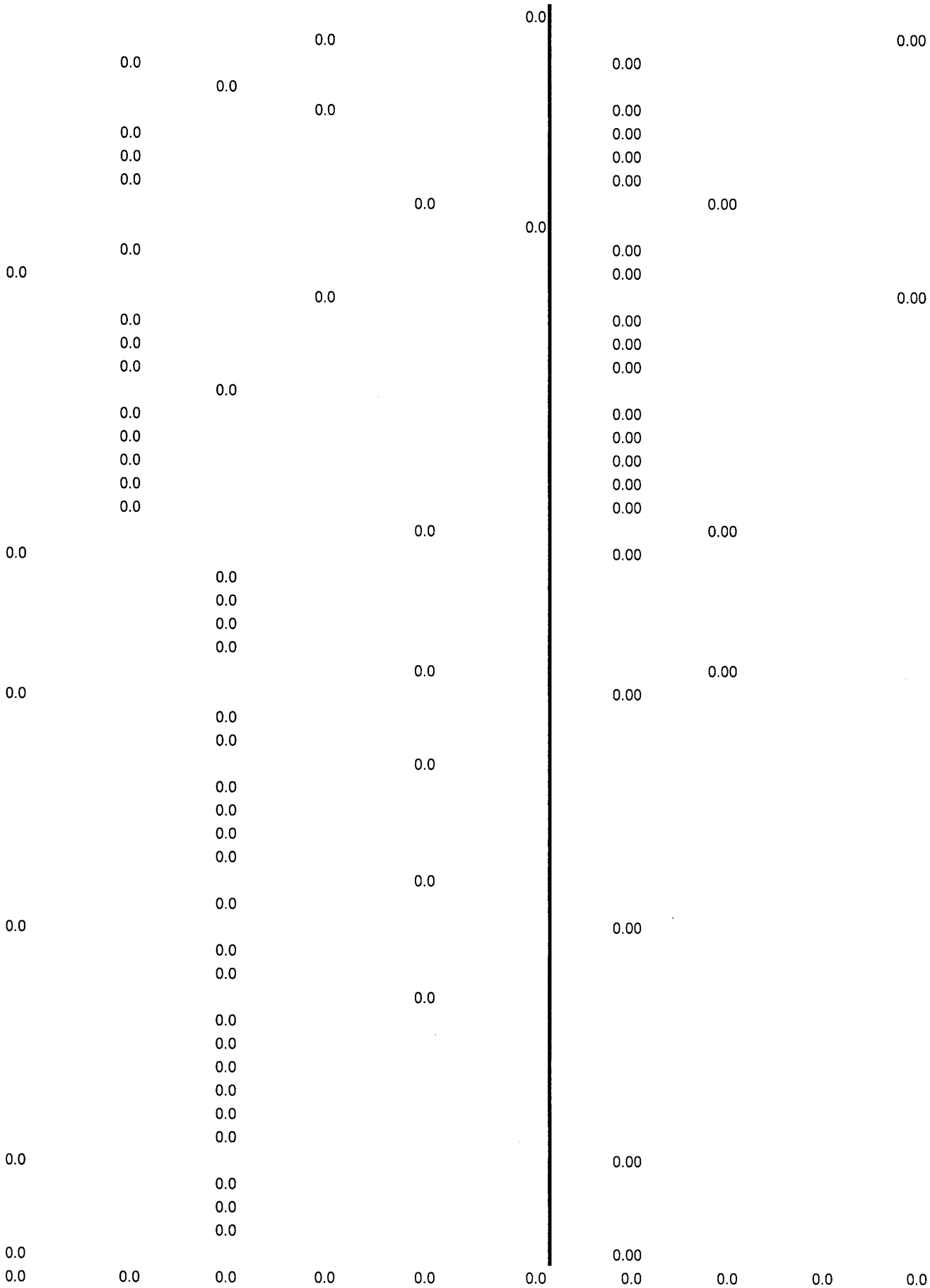
0.0						0.00			
						0.0			
			0.0						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		0.00

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
0.00	0.00	0.00	0.00	0.00	0.00

0.00

0.00

0.00

0.00

0.00
0.00
0.00
0.00

0.00
0.00
0.00

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**LABQC**	
Laboratory Number:		**B04025**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.00	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = Sum (Astdni) / (Cstdni) i

2) ppbC = 6 Carbons × Ansamp × CDF × 1000 / (Avg RFn) / SV = **Cn**

3) Amount ppbv = Cn / C#

4) Amount ug/m3 = (amt(ppbv) × MW) / 24.4

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.14E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.14E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.14E+04	0	0.0	0.00	0.00
Propene	3	TRG	4.5	2.14E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.14E+04	0	0.0	0.00	0.00
i-Butane	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.14E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.14E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.14E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.14E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.14E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.14E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.14E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.14E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.14E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.14E+04	0	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.14E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.14E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.14E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	2.14E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.14E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.14E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.14E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.14E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.14E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.14E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.14E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.14E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbc	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	
Total Non-Methane Hydrocarbc	1	TRG	16.0	2.14E+04	0	0.0	0.00	0.00	
Total Volatile Organic Compou	8	TRG	100.0	2.14E+04	0	0.0	0.00	0.00	
TPH (gasoline)	7	TRG	95.0	2.14E+04	0	0.0	0.00	0.00	
TPH (diesel)	15	TRG	198.0	2.14E+04	0	0.0	0.00	0.00	
TPH (hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	
TPH (toluene)	7	TRG	92.1	2.14E+04	0	0.0	0.00	0.00	
TPH (methane)	1	TRG	16.0	2.14E+04	0	0.0	0.00	0.00	
TPH (Jet A Fuel)	13	TRG	177.0	2.14E+04	0	0.0	0.00	0.00	
TPH (Mineral Spirits)	8	TRG	117.8	2.14E+04	0	0.0	0.00	0.00	
C6+ (hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.14E+04		0.0			Sum ID
Paraffins	P	TRG	0.0	2.14E+04		0.0			Sum P
Isoparaffins	I	TRG	0.0	2.14E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.14E+04		0.0			Sum A
Napthlenes	N	TRG	0.0	2.14E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.14E+04		0.0			Sum O
Oxygenates		TRG	0.0	2.14E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.14E+04	0	0.0	0.00	0.00	
C3 (propane)	3	TRG	44.1	2.14E+04	0	0.0	0.00	0.00	
C4 (Butane)	4	TRG	58.1	2.14E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.14E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.14E+04	0	0.0	0.00	0.00	
C7 (Heptane)	7	TRG	100.2	2.14E+04	0	0.0	0.00	0.00	

C8 (Octane)	8	TRG	114.2	2.14E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.14E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.14E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.14E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.14E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.14E+04	0	0.0	0.00	0.00

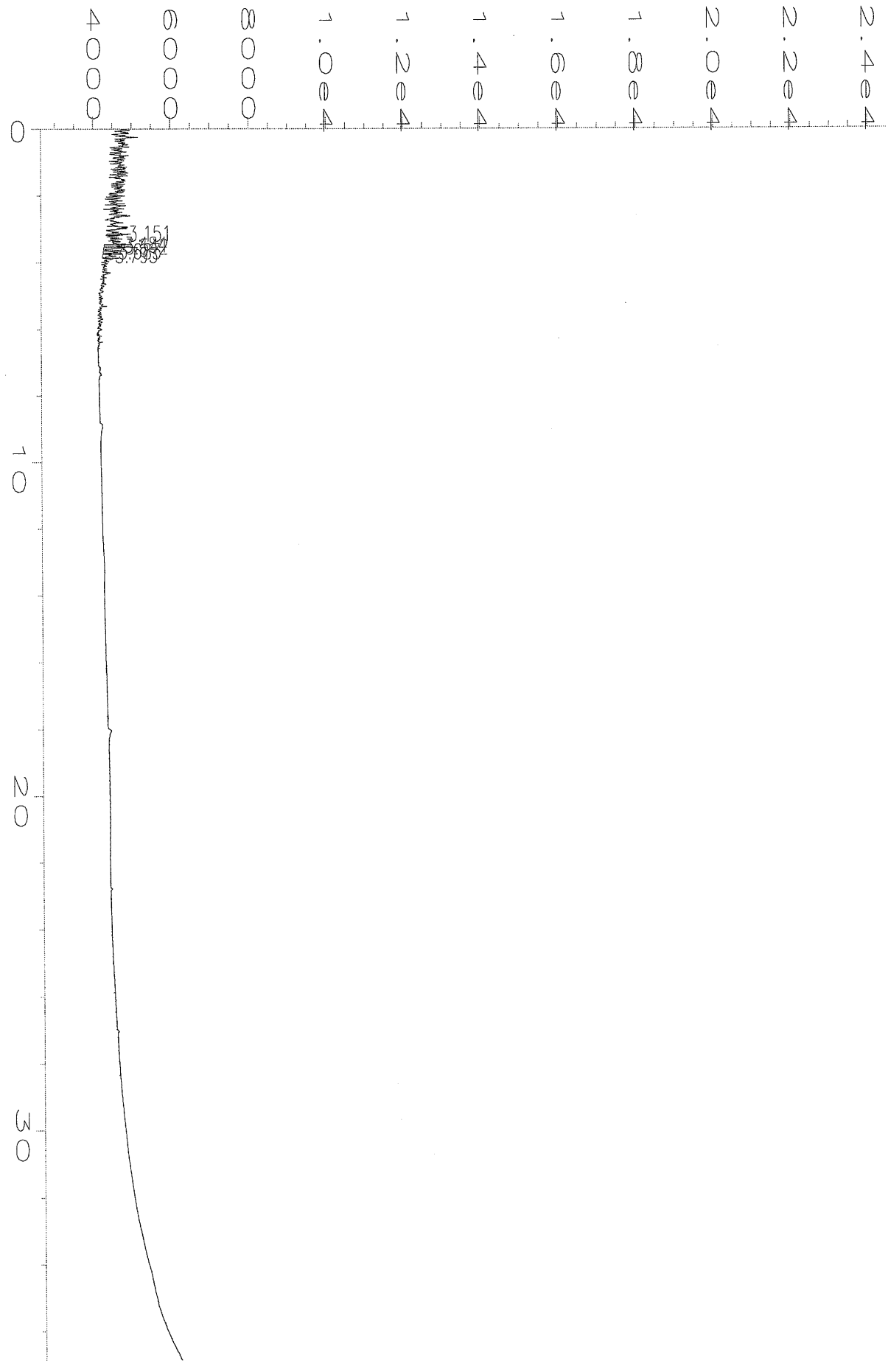
Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04025K\B04025B.D
Operator : MM
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : METHOD BLANK
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 02 Apr 25 10:23 AM
Instrument Method: KTO3DHC.MTH
Report Created on: 02 Apr 25 11:00 AM
Analysis Method : KTO3DHC.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04025K\B04025B.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.151	828	557	VV	0.023	14.7629
2	3.484	1351	529	VV	0.036	24.0984
3	3.542	1462	552	VV	0.044	26.0777
4	3.683	871	387	VV	0.033	15.5336
5	3.793	1095	350	VV	0.041	19.5274

Total area = 5606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1.8e4
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2.4e4
0
10
20
30
3.151
C:\HPCHEM\1\DATA\040225B\B0402 5B.D

Area Percent Report

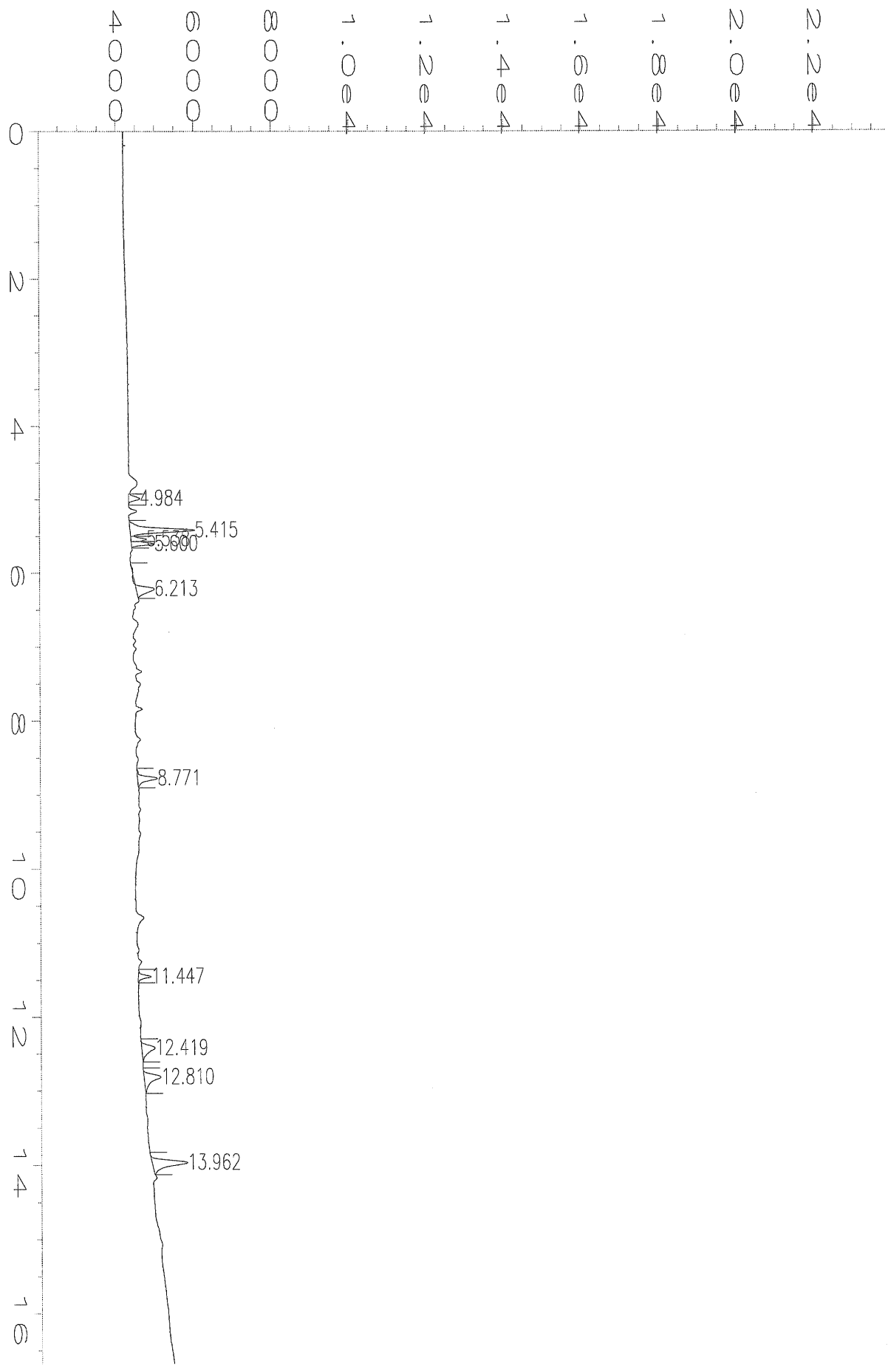
Data File Name : C:\HPCHEM\1\DATA\04025K\B04025A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : HUMID BLANK
Run Time Bar Code:
Acquired on : 02 Apr 25 09:44 AM
Report Created on: 02 Apr 25 10:01 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04025K\B04025A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.984	1147	285	VB	0.062	4.3138
2	5.415	7001	1669	BV	0.063	26.3304
3	5.538	1131	402	VV	0.043	4.2558
4	5.600	1630	592	VB	0.042	6.1308
5	6.213	2307	463	BV	0.073	8.6773
6	8.771	2237	517	BB	0.066	8.4143
7	11.447	1061	331	BB	0.047	3.9895
8	12.419	2292	346	BB	0.098	8.6219
9	12.810	2883	437	BB	0.096	10.8448
10	13.962	4898	902	BV	0.082	18.4213

Total area = 26587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2
4
6
8
10
12
14
16
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8.771
11.447
12.419
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13.962
C:\HPCHEM\1\DATA\04-025K\B0402502.D

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: LABQC
Laboratory Number: B04035

File Name: B04035B
Description: METHOD BLANK
Canister:
QC_Batch: 040325-GCK

Date Sampled: **Time:**
Date Analyzed: 04/03/25 **Time:** 10:37
Can Factor: 1.00
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.00	3.00	ND	1.15	3.45	ND	ND
74-86-2	Acetylene	1.00	3.00	ND	1.07	3.20	ND	ND
74-84-0	Ethane	1.00	3.00	ND	1.23	3.70	ND	ND
115-07-1	Propene	0.67	2.00	ND	1.15	3.45	ND	ND
74-98-6	Propane	0.67	2.00	ND	1.20	3.61	ND	ND
75-28-5	i-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
106-98-9	1-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
106-97-8	n-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
624-64-6	t-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
590-18-1	c-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
78-78-4	i-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
109-67-1	1-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
109-66-0	n-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
646-04-8	t-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
627-20-3	c-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
75-83-2	2,2-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
142-29-0	Cyclopentene	0.40	1.20	ND	1.12	3.35	ND	ND
287-92-3	Cyclopentane	0.40	1.20	ND	1.15	3.45	ND	ND
79-29-8	2,3-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
107-83-5	2-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
96-14-0	3-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
592-41-6	1-Hexene	0.33	1.00	ND	1.15	3.45	ND	ND
110-54-3	n-Hexane	0.33	1.00	ND	1.18	3.53	ND	ND
1120-62-3	3-Methylcyclopentene	0.33	1.00	ND	1.12	3.36	ND	ND
96-37-7	Methylcyclopentane	0.33	1.00	ND	1.15	3.45	ND	ND
108-08-7	2,4-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
71-43-2	Benzene	0.33	1.00	ND	1.07	3.20	ND	ND
110-82-7	Cyclohexane	0.33	1.00	ND	1.15	3.45	ND	ND
591-76-4	2-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
565-59-3	2,3-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
589-34-4	3-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND
142-82-5	n-Heptane	0.29	0.86	ND	1.17	3.52	ND	ND
108-87-2	Methylcyclohexane	0.29	0.86	ND	1.15	3.45	ND	ND
592-13-2	2,5-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
589-43-5	2,4-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.29	0.86	ND	1.08	3.24	ND	ND
584-94-1	2,3-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
592-27-8	2-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-53-7	4-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-81-1	3-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
111-65-9	n-Octane	0.25	0.75	ND	1.17	3.51	ND	ND
100-41-4	Ethylbenzene	0.25	0.75	ND	1.09	3.26	ND	ND
108-38-3	m,p-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
100-42-5	Styrene	0.25	0.75	ND	1.07	3.20	ND	ND
95-47-6	o-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
111-84-2	n-Nonane	0.22	0.67	ND	1.17	3.51	ND	ND
98-82-8	i-Propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
103-65-1	n-propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
620-14-4	3-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
622-96-8	4-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
611-14-3	2-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
124-18-5	n-Decane	0.20	0.60	ND	1.17	3.50	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
141-93-5	1,3-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
105-05-5	1,4-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
104-51-8	n-Butylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
1120-21-4	Undecane	0.18	0.55	ND	1.16	3.49	ND	ND
91-20-3	Naphthalene	0.20	0.60	ND	1.05	3.15	ND	ND
112-40-3	Dodecane	0.17	0.50	ND	1.16	3.49	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	7.50	22.50	ND	26.50	79.49	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	45.00	135.00	ND	29.51	88.52	ND	ND

	Sample: Composition	**ppbC**	**Percent**
	Total Identified	0.00	100.0
P	Paraffins	0.00	0.0
I	Isoparaffins	0.00	0.0
A	Aromatics	0.00	0.0
N	Napthlenes	0.00	0.0
O	Olefins	0.00	0.0

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **LABQC**
EAS ID: **B04035**
File Name: **B04035B**
Sample ID: **METHOD BLANK**
Sampled: **NA**
Received: **NA**
Analyzed: **04/03/25**
QCBatch: **040325-GCK**
Can: **NA**
Can Factor: **1.00**
Volume: **200.0**
Type: **MB**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **NA** Matrix **AA**
Time: **NA** Chem **TRG**
Time: **10:37** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **402031**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win C2-C4 C5-C12
RT **0.3** **0.1**
RTI **3** **3**

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene	P	4.06	4.06			NA	NA	NA		
74-86-2	Acetylene	P	4.10	4.10			NA	NA	NA		
74-84-0	Ethane	P	4.17	**4.17**	**4.17**		I	I	H	200	200
115-07-1	Propene	P	5.11	5.11						-204	290
74-98-6	Propane	P	5.20	**5.20**	**5.20**		I	I	H	300	300
75-28-5	i-Butane	P	6.60	**6.60**						134	351
67-56-1	Methanol		8.30	8.30						134	401
106-98-9	1-Butene	P	7.29	7.29						134	367
106-99-0	1,3-Butadiene		**7.48**	7.48						134	373
106-97-8	n-Butane	P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene	P	8.75	8.75						198	410
590-18-1	c-2-Butene	P	9.63	9.63						198	431
64-17-5	Ethanol		10.85	10.85						198	461
563-45-1	3-Methyl-1-butene	6	**11.05**	11.05						198	465
67-64-1	Acetone		11.52	11.52						198	476
78-78-4	i-Pentane	P	11.37	11.37						198	473
109-67-1	1-Pentene	P	12.30	12.30						198	495
67-63-0	Isopropanol		12.65	12.65						198	504
563-46-2	2-Methyl-1-butene	9	**12.36**	12.36						198	497
109-66-0	n-Pentane	P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene	P	12.55	12.55						162	503
646-04-8	t-2-Pentene	P	12.79	12.79						162	510
627-20-3	c-2-Pentene	P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol		**13.55**	13.55						600	526
513-35-9	2-Methyl-2-butene	13	**13.62**	13.62						600	520
75-83-2	2,2-Dimethylbutane	P	13.77	13.77						162	537
142-29-0	Cyclopentene	15	**14.61**	14.61						162	551
71-23-8	n-Propanol		**14.75**	14.75						162	558
287-92-3	Cyclopentane	P	14.88	14.88						162	567
1634-04-4	Methyl tert butyl ether		**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane	P	15.06	15.06						162	570
107-83-5	2-Methylpentane	P	15.08	15.08						162	571
96-14-0	3-Methylpentane	P	15.55	15.55						162	583
592-41-6	1-Hexene	P	**15.80**	15.80						162	590
110-54-3	n-Hexane	P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether		**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						101	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						101	626
71-43-2	Benzene		P	17.87	**17.87**	**17.87**		I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.14						101	658
591-76-4	2-Methylhexane		P	18.38	18.38						101	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.45						101	671
589-34-4	3-Methylhexane		P	18.66	18.66						101	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.75						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.80						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.09						101	690
142-82-5	n-Heptane		P	19.41	19.41	**19.41**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.09						21	722
592-13-2	2,5-Dimethylhexane			20.35	20.35						21	734
589-43-5	2,4-Dimethylhexane			20.43	20.43						21	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.93						21	753
108-88-3	Toluene		P	21.12	**21.12**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						21	763
592-27-8	2-Methylheptane		P	21.33	21.33						21	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						21	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						21	772
589-81-1	3-Methylheptane		p	21.55	21.55						21	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						21	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75						-57	855
108-38-3	m,p-xylene		P	23.95	23.95						-57	863
100-42-5	Styrene		P	24.40	24.40						-57	881
95-47-6	o-xylene		P	24.57	24.57						-57	886
124-11-8	1-Nonene	64		24.60	24.60						-57	889
111-84-2	n-Nonane		P	24.87	24.87	**24.87**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36						-141	919
103-65-1	n-propylbenzene		P	25.93	25.93						-141	947
80-56-8	a-Pinene			26.09	26.09						-141	950
620-14-4	3-Ethyltoluene		P	26.17	26.17						-141	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-141	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45						-141	964
611-14-3	2-Ethyltoluene		P	26.61	26.61						-141	975
127-91-3	b-Pinene			26.80	26.80						-141	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08						-141	991
124-18-5	n-Decane		P	27.26	27.26	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-48	1014
496-11-7	Indan	81		27.55	27.55						-48	1020
5989-27-5	d-Limonene			27.65	27.65						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10						-48	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-48	1037
104-51-8	n-Butylbenzene			28.45	28.45						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123
527-53-7	1,2,3,5-Tetramethylbenzene			30.50	30.50						-48	1124

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					0		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					0		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					0		0			
TVOC	Total Volatile Organic Compounds					0		0			
TPH(g)	TPH (gasoline)					0		0			
TPH(d)	TPH (diesel)					0		0			
TPH(h)	TPH (hexane)					0		0			
TPH(t)	TPH (toluene)					0		0			
TPHC	TPH (methane)					0		0			
TPH(Jet A)	TPH (Jet A Fuel)					0		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					0					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			0		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			0		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**0**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040325-GCK		
Hexane Std Area:	402031		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.00	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.00		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	

Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0
Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3

Total Non-Methane Hydrocarbons	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
Total Non-Methane Hydrocarbons	16	1.0	0.00	0.0	0.0	ND	ND	ND	0
Total Volatile Organic Compounds	100	7.6	0.00	0.0	0.0	ND	ND	ND	0
TPH (gasoline)	95	7.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (diesel)	198	15.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (toluene)	92.14	7.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (methane)	16	1.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (Jet A Fuel)	177	13.0	0.00	0.0	0.0	ND	ND	ND	0
TPH (Mineral Spirits)	117.81	8.0	0.00	0.0	0.0	ND	ND	ND	0
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3
Total Identified			0.0	0.0					
Paraffins			0.0						
Isoparaffins			0.0						
Aromatics			0.0						
Napthlenes			0.0						
Olefins			0.0						
Oxygenates			0.0						
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
C3 (propane)	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			0.0						
Totals from Identified:									
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00				
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00				
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00				
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00				
Aromatic C8-C10	114.2	9	0.0	0.00	0.00				
Aromatic C10-12	142.3	11	0.0	0.00	0.00				
n-Hexane	86.18	6.0	0.0	0.00	0.00				
TNMHC - C6	86.2	6							
TNMHC - C1	16	1							
TVOC	86.2	6							
TPH(g)	95	7							
TPH(d)	198	15							
TPH(h)	86.2	6							
TPH(t)	92.14	7							
TPHC	16	1							
TPH(Jet A)	177	13							
TPH (MS)	117.81	8							
C6+	117.81	8							

Alkanes	0.0	0.0
Alkenes	0.0	0.0
Alkynes	0.0	0.0
Cycloalkanes	0.0	0.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	0.0	0.0
Terpenes	0.0	0.0

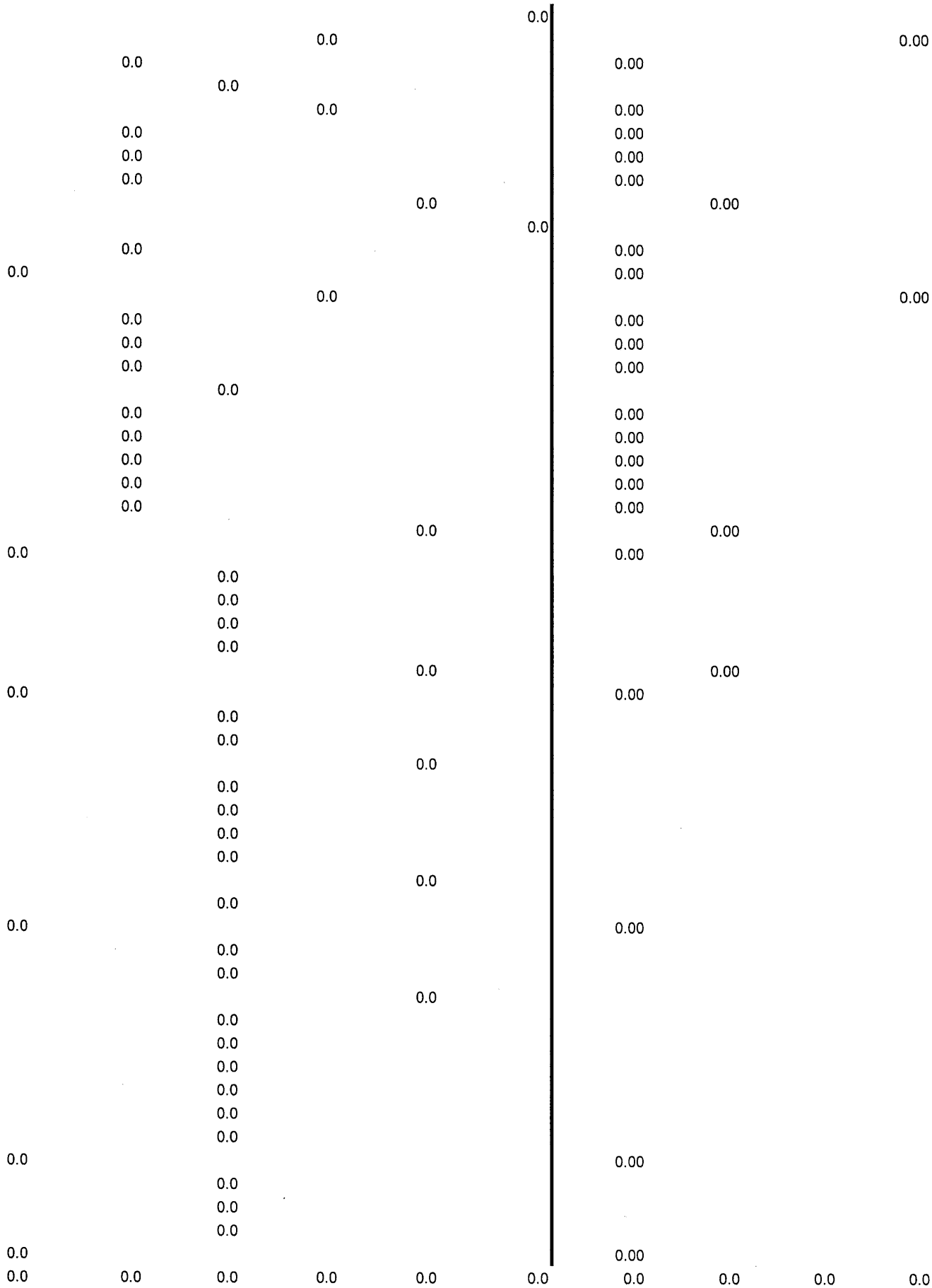
SDG: **LABQC**
Laboratory Number: **B04035**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
0.0	2.000	1.00	1.00	1.15	2.00	3.00	3.45	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.07	2.00	3.00	3.20	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.23	2.00	3.00	3.70	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.15	2.00	2.00	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.20	2.00	2.00	3.61	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.19	2.00	1.50	3.57	6.0	U	ND		Y
0.0	2.000	2.00	2.00	2.62	2.00	6.00	7.87	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.11	2.00	1.50	3.33	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.19	2.00	1.50	3.57	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.89	2.00	3.00	5.67	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.59	2.00	2.00	4.76	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.18	2.00	1.20	3.55	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.64	2.00	2.00	4.93	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.18	2.00	1.20	3.55	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.12	2.00	1.20	3.35	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.52	2.00	1.50	4.56	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.12	2.00	1.20	3.35	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.64	2.00	2.00	4.93	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.45	2.00	1.20	4.34	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.12	2.00	1.00	3.36	6.0	U	ND		Y

0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.07	2.00	1.00	3.20	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.15	2.00	0.86	3.45	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.15	2.00	0.86	3.45	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.08	2.00	0.86	3.24	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.15	2.00	0.75	3.45	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.07	2.00	0.75	3.20	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.15	2.00	0.67	3.45	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.17	2.00	0.67	3.51	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.17	2.00	0.60	3.50	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.08	2.00	0.67	3.23	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.18	0.18	1.16	2.00	0.55	3.49	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.05	2.00	0.60	3.15	6.0	U	ND	Y
0.0	2.000	0.17	0.17	1.16	2.00	0.50	3.49	6.0	U	ND	Y
%											Y

100.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
100.0	45.00	45.0	45.00	29.51	45.00	135.0	88.5	135.0	U	ND	Y
100.0	45.00	5.9	5.92	24.27	45.00	17.8	72.8	135.0	U	ND	Y
100.0	45.00	6.4	6.43	25.03	45.00	19.3	75.1	135.0	U	ND	Y
100.0	45.00	3.0	3.00	24.34	45.00	9.0	73.0	135.0	U	ND	Y
100.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
100.0	45.00	6.4	6.43	24.28	45.00	19.3	72.8	135.0	U	ND	Y
100.0	45.00	45.0	45.00	29.51	45.00	135.0	88.5	135.0	U	ND	Y
100.0	45.00	3.5	3.46	25.11	45.00	10.4	75.3	135.0	U	ND	Y
100.0	45.00	5.6	5.63	27.16	45.00	16.9	81.5	135.0	U	ND	Y
0.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
0.0	25.000	3.6	3.57	13.91	25.00	10.7	41.7	75.0	U	ND	Y
%											Y
100.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
%											Y
0.0	5.000	2.5	2.50	3.08	5.00	7.5	9.3	15.0	U	ND	Y
0.0	5.000	1.7	1.67	3.01	5.00	5.0	9.0	15.0	U	ND	Y
0.0	25.000	6.3	6.25	14.89	25.00	18.8	44.7	75.0	U	ND	Y
0.0	25.000	5.0	5.00	14.78	25.00	15.0	44.4	75.0	U	ND	Y
0.0	25.000	4.2	4.17	14.72	25.00	12.5	44.2	75.0	U	ND	Y
0.0	25.000	3.6	3.57	14.67	25.00	10.7	44.0	75.0	U	ND	Y
0.0	25.000	3.1	3.13	14.63	25.00	9.4	43.9	75.0	U	ND	Y
0.0	25.000	2.8	2.78	14.60	25.00	8.3	43.8	75.0	U	ND	Y
0.0	25.000	2.5	2.50	14.58	25.00	7.5	43.7	75.0	U	ND	Y
0.0	25.000	2.3	2.27	14.56	25.00	6.8	43.7	75.0	U	ND	Y
0.0	25.000	2.1	2.08	14.54	25.00	6.3	43.6	75.0	U	ND	Y
0.0	25.000	2.1	2.08	14.54	25.00	6.3	43.6	75.0	U	ND	Y
0.0											Y
											Y
0.0	6.0	1.0	1.00	2.96	6.00	3.0	8.9	18.0			Y
0.0	6.0	0.9	0.86	3.52	6.00	2.6	10.6	18.0			Y
0.0	6.0	0.7	0.67	3.51	6.00	2.0	10.5	18.0			Y
0.0	6.0	0.5	0.55	3.19	6.00	1.6	9.6	18.0			Y
0.0	6.0	0.7	0.67	3.12	6.00	2.0	9.4	18.0			Y
0.0	6.0	0.5	0.55	3.18	6.00	1.6	9.5	18.0			Y
0.0	2.0	0.3	0.33	1.18	2.00	1.0	3.5	6.0	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
0.0						0.00			
					0.0		0.00		
0.0						0.00			
		0.0				0.00			
						0.0			
					0.0		0.00		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
						0.0			
		0.0				0.00			
					0.0		0.00		
						0.0			
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
					0.0		0.00		
						0.0			
					0.0		0.00		
		0.0				0.00			
			0.0						0.00
						0.0			
			0.0						0.00
						0.0			
		0.0				0.00			
		0.0				0.00			
		0.0				0.00			
					0.0		0.00		
0.0						0.00			
						0.0			
			0.0						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		0.00

Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
0.00	0.00	0.00	0.00	0.00	0.00

0.00

0.00

0.00

0.00

0.00
0.00
0.00
0.00

0.00
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0.00

SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**LABQC**
Laboratory Number:		**B04035**
Standard Volume	STV	1.0
Sample Volume	SV	200
Can Dilution Factor	CDF	1.00
Gas Constant		24.4 25C
Decimal Places:		2

Sample Calculation:

1) Avg RFn = $\sum \frac{(Astdni)}{(Cstdni)_i}$

2) ppbC = $\frac{6 \text{ Carbons} \times Ansamp \times CDF \times 1000}{(Avg\ RFn) \times SV} = \mathbf{Cn}$

3) Amount ppbv = $\frac{Cn}{C\#}$

4) Amount ug/m3 = $\frac{(amt(ppbv) \times MW}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.23E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.23E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.23E+04	0	0.0	0.00	0.00
Propene	3	TRG	4.5	2.23E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.23E+04	0	0.0	0.00	0.00
i-Butane	4	TRG	58.1	2.23E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.23E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.23E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.23E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.23E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.23E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.23E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.23E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.23E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.23E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.23E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.23E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.23E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.23E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.23E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.23E+04	0	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.23E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.23E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.23E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.23E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.23E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.23E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.23E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.23E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	2.23E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.23E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.23E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.23E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.23E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.23E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.23E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.23E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.23E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.23E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.23E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.23E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.23E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.23E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.23E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbc	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00	
Total Non-Methane Hydrocarbc	1	TRG	16.0	2.23E+04	0	0.0	0.00	0.00	
Total Volatile Organic Compou	8	TRG	100.0	2.23E+04	0	0.0	0.00	0.00	
TPH (gasoline)	7	TRG	95.0	2.23E+04	0	0.0	0.00	0.00	
TPH (diesel)	15	TRG	198.0	2.23E+04	0	0.0	0.00	0.00	
TPH (hexane)	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00	
TPH (toluene)	7	TRG	92.1	2.23E+04	0	0.0	0.00	0.00	
TPH (methane)	1	TRG	16.0	2.23E+04	0	0.0	0.00	0.00	
TPH (Jet A Fuel)	13	TRG	177.0	2.23E+04	0	0.0	0.00	0.00	
TPH (Mineral Spirits)	8	TRG	117.8	2.23E+04	0	0.0	0.00	0.00	
C6+ (hexane)	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.23E+04		0.0			Sum ID
Paraffins	P	TRG	0.0	2.23E+04		0.0			Sum P
Isoparaffins	I	TRG	0.0	2.23E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.23E+04		0.0			Sum A
Napthlenes	N	TRG	0.0	2.23E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.23E+04		0.0			Sum O
Oxygenates		TRG	0.0	2.23E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.23E+04	0	0.0	0.00	0.00	
C3 (propane)	3	TRG	44.1	2.23E+04	0	0.0	0.00	0.00	
C4 (Butane)	4	TRG	58.1	2.23E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.23E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.23E+04	0	0.0	0.00	0.00	
C7 (Heptane)	7	TRG	100.2	2.23E+04	0	0.0	0.00	0.00	

C8 (Octane)	8	TRG	114.2	2.23E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.23E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.23E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.23E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.23E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.23E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.23E+04	0	0.0	0.00	0.00

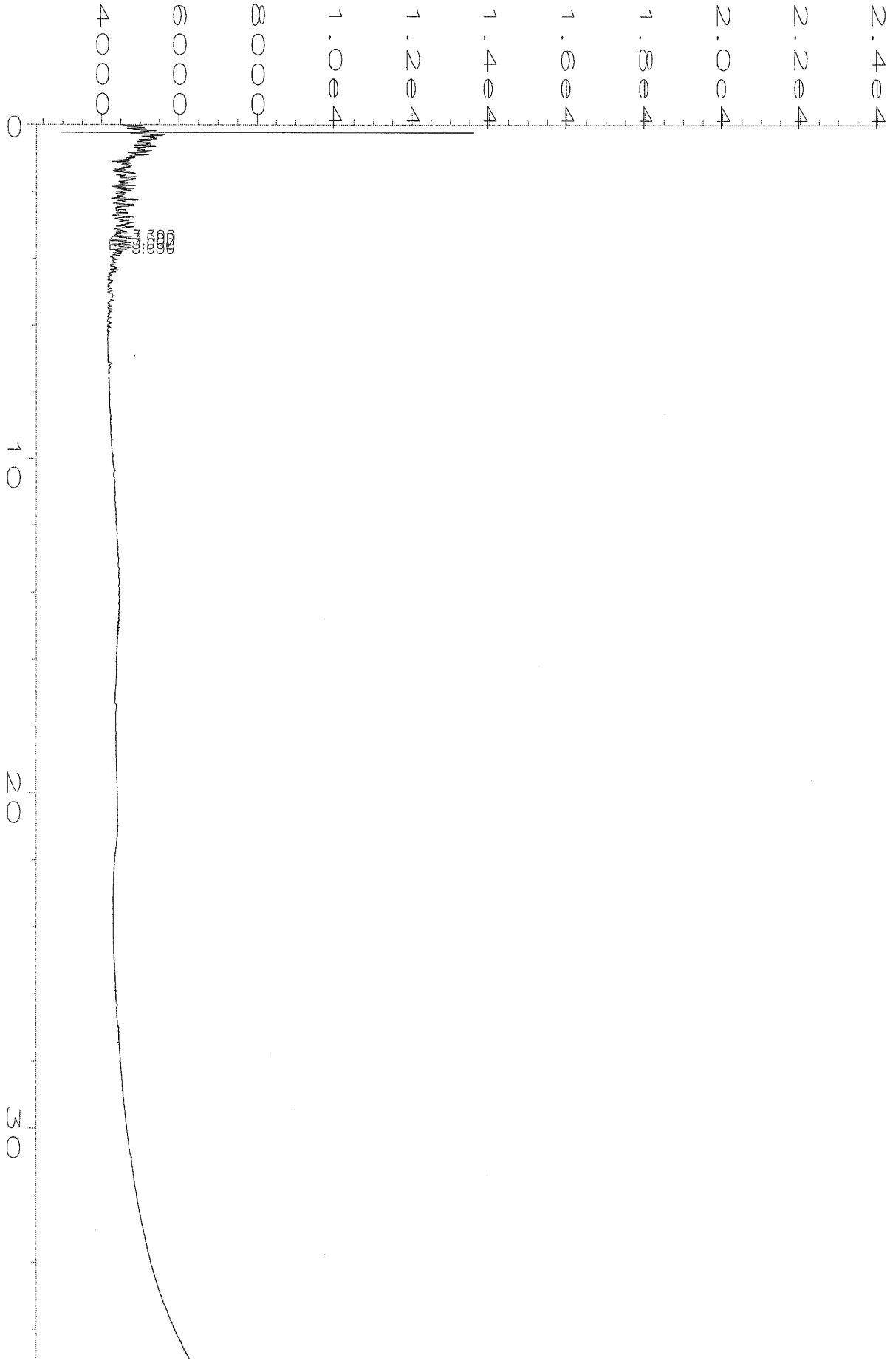
Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04035K\B04035B.D
Operator : MM
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : METHOD BLANK
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 03 Apr 25 10:40 AM
Instrument Method: KTO3DHC.MTH
Report Created on: 03 Apr 25 11:17 AM
Analysis Method : KTO3DHC.MTH
Sample Info :

Sig. 1 in C:\HPCHEM\1\DATA\04035K\B04035B.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.390	1978	668	VV	0.040	31.1546
2	3.502	1975	575	PV	0.053	31.1066
3	3.650	2396	558	VV	0.060	37.7388

Total area = 6348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1.4e4
1.6e4
1.8e4
2.0e4
2.2e4
2.4e4
0
10
20
30
C:\HPCHEM\1\DATA\SCOTSK\B0403SB.D

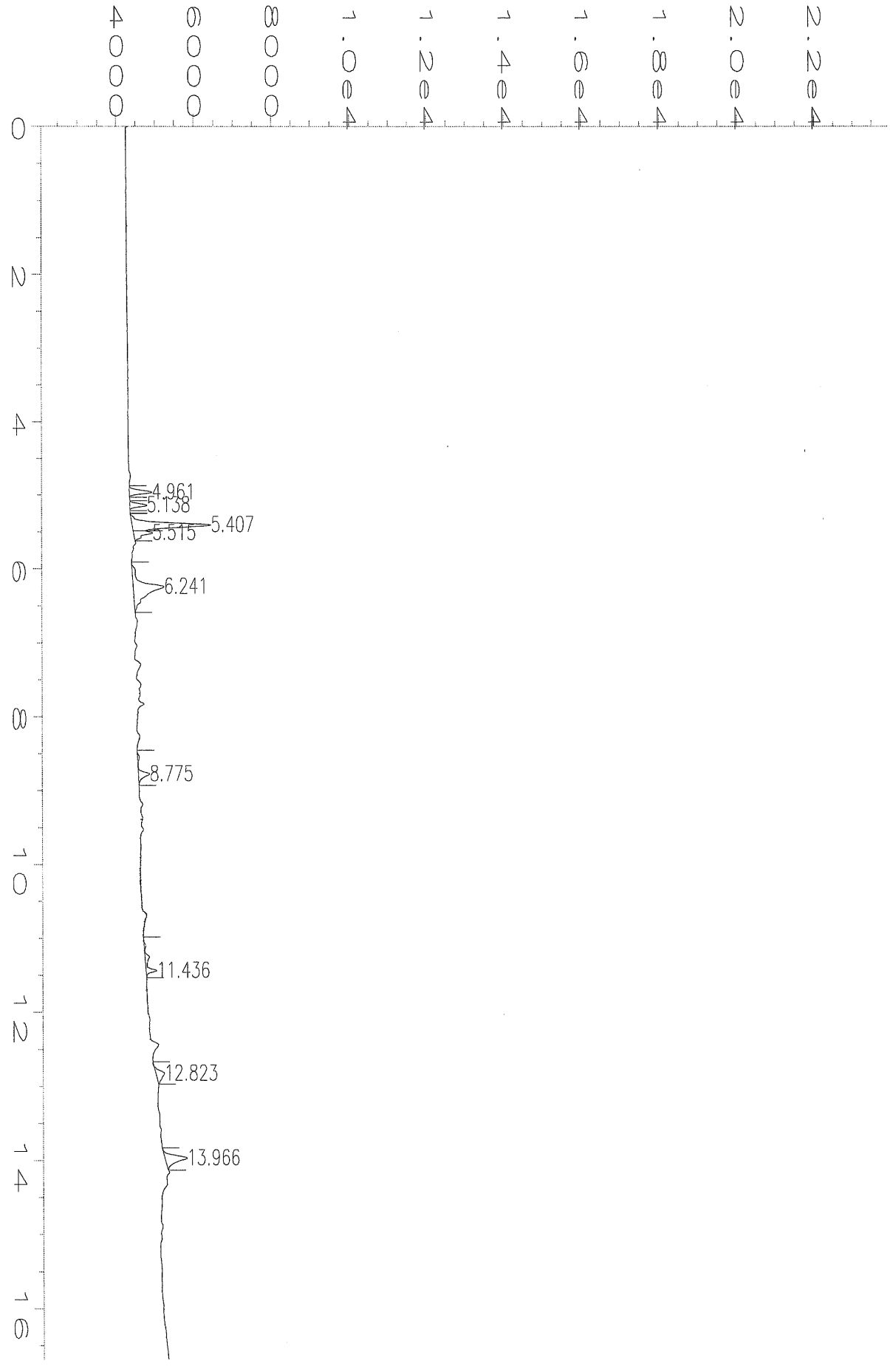
Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04035K\B04035A.D
Operator : MM
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : HUMID BLANK
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 03 Apr 25 10:03 AM
Instrument Method: GC1SHORT.MTH
Report Created on: 03 Apr 25 10:20 AM
Analysis Method : GC1SHORT.MTH
Sample Info :

Sig. 1 in C:\HPCHEM\1\DATA\04035K\B04035A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.961	1963	571	BB	0.052	6.2682
2	5.138	1388	439	BB	0.050	4.4327
3	5.407	9403	2016	BV	0.069	30.0317
4	5.515	1952	484	VB	0.057	6.2337
5	6.241	8349	788	BB	0.140	26.6656
6	8.775	1626	290	BB	0.079	5.1937
7	11.436	1732	275	BB	0.084	5.5321
8	12.823	1522	220	BB	0.100	4.8603
9	13.966	3376	560	BV	0.088	10.7822

Total area = 31311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1.4e4
1.6e4
1.8e4
2.0e4
2.2e4
0
2
4
6
8
10
12
14
16
4.961
5.138
5.407
5.515
6.241
8.775
11.436
12.823
13.966
C:\HPCHEM\1\DATA\0115SK\B0403SA.D

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-14 Modified GC/FID

Analytical Method: TO-14FID

SDG: LABQC
Laboratory Number: B04085

File Name: B04085B
Description: METHOD BLANK
Canister:
QC_Batch: 040825-GCK

Date Sampled: **Time:**
Date Analyzed: 04/08/25 **Time:** 11:36
Can Factor: 1.00
Air Volume: 200 ml

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
74-85-1	Ethene	1.00	3.00	ND	1.15	3.45	ND	ND
74-86-2	Acetylene	1.00	3.00	ND	1.07	3.20	ND	ND
74-84-0	Ethane	1.00	3.00	ND	1.23	3.70	ND	ND
115-07-1	Propene	0.67	2.00	ND	1.15	3.45	ND	ND
74-98-6	Propane	0.67	2.00	ND	1.20	3.61	ND	ND
75-28-5	i-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
106-98-9	1-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
106-97-8	n-Butane	0.50	1.50	ND	1.19	3.57	ND	ND
624-64-6	t-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
590-18-1	c-2-Butene	0.50	1.50	ND	1.15	3.45	ND	ND
78-78-4	i-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
109-67-1	1-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
109-66-0	n-Pentane	0.40	1.20	ND	1.18	3.55	ND	ND
646-04-8	t-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
627-20-3	c-2-Pentene	0.40	1.20	ND	1.15	3.45	ND	ND
75-83-2	2,2-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
142-29-0	Cyclopentene	0.40	1.20	ND	1.12	3.35	ND	ND
287-92-3	Cyclopentane	0.40	1.20	ND	1.15	3.45	ND	ND
79-29-8	2,3-Dimethylbutane	0.33	1.00	ND	1.18	3.53	ND	ND
107-83-5	2-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
96-14-0	3-Methylpentane	0.33	1.00	ND	1.18	3.53	ND	ND
592-41-6	1-Hexene	0.33	1.00	ND	1.15	3.45	ND	ND
110-54-3	n-Hexane	0.33	1.00	ND	1.18	3.53	ND	ND
1120-62-3	3-Methylcyclopentene	0.33	1.00	ND	1.12	3.36	ND	ND
96-37-7	Methylcyclopentane	0.33	1.00	ND	1.15	3.45	ND	ND
108-08-7	2,4-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
71-43-2	Benzene	0.33	1.00	ND	1.07	3.20	ND	ND
110-82-7	Cyclohexane	0.33	1.00	ND	1.15	3.45	ND	ND
591-76-4	2-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
565-59-3	2,3-Dimethylpentane	0.29	0.86	ND	1.17	3.52	ND	ND
589-34-4	3-Methylhexane	0.29	0.86	ND	1.17	3.52	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND
142-82-5	n-Heptane	0.29	0.86	ND	1.17	3.52	ND	ND
108-87-2	Methylcyclohexane	0.29	0.86	ND	1.15	3.45	ND	ND
592-13-2	2,5-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
589-43-5	2,4-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
565-75-3	2,3,4-Trimethylpentane	0.25	0.75	ND	1.17	3.51	ND	ND

CAS#	Compound	MDL ppbV	RL ppbV	Amount ppbV	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
108-88-3	Toluene	0.29	0.86	ND	1.08	3.24	ND	ND
584-94-1	2,3-Dimethylhexane	0.25	0.75	ND	1.17	3.51	ND	ND
592-27-8	2-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-53-7	4-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
589-81-1	3-Methylheptane	0.25	0.75	ND	1.17	3.51	ND	ND
111-65-9	n-Octane	0.25	0.75	ND	1.17	3.51	ND	ND
100-41-4	Ethylbenzene	0.25	0.75	ND	1.09	3.26	ND	ND
108-38-3	m,p-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
100-42-5	Styrene	0.25	0.75	ND	1.07	3.20	ND	ND
95-47-6	o-xylene	0.25	0.75	ND	1.09	3.26	ND	ND
111-84-2	n-Nonane	0.22	0.67	ND	1.17	3.51	ND	ND
98-82-8	i-Propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
103-65-1	n-propylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
620-14-4	3-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
622-96-8	4-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
611-14-3	2-Ethyltoluene	0.22	0.67	ND	1.09	3.28	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
124-18-5	n-Decane	0.20	0.60	ND	1.17	3.50	ND	ND
526-73-8	1,2,3-Trimethylbenzene	0.22	0.67	ND	1.09	3.28	ND	ND
141-93-5	1,3-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
105-05-5	1,4-Diethylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
104-51-8	n-Butylbenzene	0.20	0.60	ND	1.10	3.30	ND	ND
1120-21-4	Undecane	0.18	0.55	ND	1.16	3.49	ND	ND
91-20-3	Naphthalene	0.20	0.60	ND	1.05	3.15	ND	ND
112-40-3	Dodecane	0.17	0.50	ND	1.16	3.49	ND	ND
	Total Petroleum Hydrocarbons:							
TNMHC - C6	Total Non-Methane Hydrocarbons	7.50	22.50	ND	26.50	79.49	ND	ND
TNMHC - C1	Total Non-Methane Hydrocarbons	45.00	135.00	ND	29.51	88.52	ND	ND

	Sample: Composition	**ppbC**	**Percent**
	Total Identified	0.00	100.0
P	Paraffins	0.00	0.0
I	Isoparaffins	0.00	0.0
A	Aromatics	0.00	0.0
N	Napthlenes	0.00	0.0
O	Olefins	0.00	0.0

QUANTITATION REPORT

EPA Method TO-14 Modified GC/FID

SDG: **LABQC**
EAS ID: **B04085**
File Name: **B04085B**
Sample ID: **METHOD BLANK**
Sampled: **NA**
Received: **NA**
Analyzed: **04/08/25**
QCBatch: **040825-GCK**
Can: **NA**
Can Factor: **1.00**
Volume: **200.0**
Type: **MB**

Method: TO-14FID TO-14FID
Not Detected Flag: **ND** TO-15FID
SF: **2** TO-3
Instrument: **GCK** EPA 18M
Time: **NA** Matrix **AA**
Time: **NA** Chem **TRG**
Time: **11:36** MDL Fac: **1.0**
Unit Factor **1000** 1000 for ppb 1 for ppm
Hexane Area: **382828**
Hexane Concentration: **18.05**
Standard Volume: **1.00** **Print: QUANT REPORT CLAC SAMCALC**
Standard ID: **ST62344**

RT Win	C2-C4	C5-C12
RT	**0.3**	**0.1**
RTI	**3**	**3**

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
74-85-1	Ethene		P	4.06	4.06			NA	NA	NA		
74-86-2	Acetylene		P	4.10	4.10			NA	NA	NA		
74-84-0	Ethane		P	4.17	**4.17**	**4.17**		I	I	H	200	200
115-07-1	Propene		P	5.11	5.11						-204	290
74-98-6	Propane		P	5.20	**5.20**	**5.20**		I	I	H	300	300
75-28-5	i-Butane		P	6.60	**6.60**						134	351
67-56-1	Methanol			8.30	8.30						134	401
106-98-9	1-Butene		P	7.29	7.29						134	367
106-99-0	1,3-Butadiene			**7.48**	7.48						134	373
106-97-8	n-Butane		P	8.34	**8.34**	**8.34**		I	I	H	400	400
624-64-6	t-2-Butene		P	8.75	8.75						198	410
590-18-1	c-2-Butene		P	9.63	9.63						198	431
64-17-5	Ethanol			10.85	10.85						198	461
563-45-1	3-Methyl-1-butene	6		**11.05**	11.05						198	465
67-64-1	Acetone			11.52	11.52						198	476
78-78-4	i-Pentane		P	11.37	11.37						198	473
109-67-1	1-Pentene		P	12.30	12.30						198	495
67-63-0	Isopropanol			12.65	12.65						198	504
563-46-2	2-Methyl-1-butene	9		**12.36**	12.36						198	497
109-66-0	n-Pentane		P	12.48	**12.48**	**12.48**		I	I	H	500	500
78-79-5	Isoprene		P	12.55	12.55						162	503
646-04-8	t-2-Pentene		P	12.79	12.79						162	510
627-20-3	c-2-Pentene		P	13.08	13.08						162	518
75-65-0	Tert butyl alcohol			**13.55**	13.55						600	526
513-35-9	2-Methyl-2-butene	13		**13.62**	13.62						600	520
75-83-2	2,2-Dimethylbutane		P	13.77	13.77						162	537
142-29-0	Cyclopentene	15		**14.61**	14.61						162	551
71-23-8	n-Propanol			**14.75**	14.75						162	558
287-92-3	Cyclopentane		P	14.88	14.88						162	567
1634-04-4	Methyl tert butyl ether			**15.00**	15.00						162	569
79-29-8	2,3-Dimethylbutane		P	15.06	15.06						162	570
107-83-5	2-Methylpentane		P	15.08	15.08						162	571
96-14-0	3-Methylpentane		P	15.55	15.55						162	583
592-41-6	1-Hexene		P	**15.80**	15.80						162	590
110-54-3	n-Hexane		P	16.17	**16.17**	**16.17**		I	I	H	600	600
108-20-3	Diisopropyl ether			**16.30**	16.30						700	606

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
1120-62-3	3-Methylcyclopentene	21		**16.45**	16.45						700	609
637-92-3	Ethyl tert butyl ether			**16.80**	16.80						700	623
96-37-7	Methylcyclopentane		P	16.86	16.86						101	622
108-08-7	2,4-Dimethylpentane		P	17.05	17.05						101	626
71-43-2	Benzene		P	17.87	**17.87**	**17.87**		I	I	H	652	651
110-82-7	Cyclohexane		P	18.14	18.14						101	658
591-76-4	2-Methylhexane		P	18.38	18.38						101	670
565-59-3	2,3-Dimethylpentane		P	18.45	18.45						101	671
589-34-4	3-Methylhexane		P	18.66	18.66						101	678
6094-02-6	2-Methyl-1hexene	33		**18.75**	18.75						101	687
994-05-8	Tert amyl methyl ether			**18.80**	18.80						101	674
540-84-1	2,2,4-Trimethylpentane		P	19.09	19.09						101	690
142-82-5	n-Heptane		P	19.41	19.41	**19.41**		I	I	H	700	700
108-87-2	Methylcyclohexane		P	20.09	20.09						21	722
592-13-2	2,5-Dimethylhexane			20.35	20.35						21	734
589-43-5	2,4-Dimethylhexane			20.43	20.43						21	737
565-75-3	2,3,4-Trimethylpentane		P	20.93	20.93						21	753
108-88-3	Toluene		P	21.12	**21.12**	**21.12**		I	I	H	760	758
584-94-1	2,3-Dimethylhexane			21.20	21.20						21	763
592-27-8	2-Methylheptane		P	21.33	21.33						21	768
589-53-7	4-Methylheptane	48		**21.48**	21.48						21	775
1067-08-9	3-Ethyl-3-methylpentane			**21.50**	21.50						21	772
589-81-1	3-Methylheptane		p	21.55	21.55						21	775
15870-10-7	2-Methyl-1-heptene	52		**22.10**	22.10						21	786
111-65-9	n-Octane		P	22.27	22.27	**22.27**		I	I	H	800	800
100-41-4	Ethylbenzene		P	23.75	23.75						-57	855
108-38-3	m,p-xylene		P	23.95	23.95						-57	863
100-42-5	Styrene		P	24.40	24.40						-57	881
95-47-6	o-xylene		P	24.57	24.57						-57	886
124-11-8	1-Nonene	64		24.60	24.60						-57	889
111-84-2	n-Nonane		P	24.87	24.87	**24.87**		I	I	H	900	900
98-82-8	i-Propylbenzene		P	25.36	25.36						-141	919
103-65-1	n-propylbenzene		P	25.93	25.93						-141	947
80-56-8	a-Pinene			26.09	26.09						-141	950
620-14-4	3-Ethyltoluene		P	26.17	26.17						-141	957
622-96-8	4-Ethyltoluene		P	26.26	26.26						-141	959
108-67-8	1,3,5-Trimethylbenzene		P	26.45	26.45						-141	964
611-14-3	2-Ethyltoluene		P	26.61	26.61						-141	975
127-91-3	b-Pinene			26.80	26.80						-141	979
95-63-6	1,2,4-Trimethylbenzene		P	27.08	27.08						-141	991
124-18-5	n-Decane		P	27.26	27.26	**27.26**		I	I	H	1000	1000
526-73-8	1,2,3-Trimethylbenzene		P	27.55	27.55						-48	1014
496-11-7	Indan	81		27.55	27.55						-48	1020
5989-27-5	d-Limonene			27.65	27.65						-48	1017
141-93-5	1,3-Diethylbenzene		P	28.10	28.10						-48	1032
105-05-5	1,4-Diethylbenzene		P	28.23	28.23						-48	1037
104-51-8	n-Butylbenzene			28.45	28.45						-48	1045
1758-88-9	1,4-Dimethyl-2-ethylbenzene	87		28.60	28.60						-48	1053
874-41-9	1,3-Dimethyl-4-ethylbenzene	88		28.75	28.75						-48	1057
934-80-5	1,2-Dimethyl-4-ethylbenzene	89		28.83	28.83						-48	1060
1120-21-4	Undecane		P	29.86	3.41	**29.86**		O	I	M	1100	1100
95-93-2	1,2,4,5-Tetramethylbenzene			30.45	30.45						-48	1123
527-53-7	1,2,3,5-Tetramethylbenzene			30.50	30.50						-48	1124

CAS#	Compound	PAMS	STD RT	Corrected RT	Samp RT	Sample Area	RT in/out	RTI in/out	Flag	Calc RTI	EAS RTI
91-20-3	Naphthalene		32.25	32.25						-48	1193
112-40-3	Dodecane	P	32.46	6.01	**32.46**		O	I	M	1200	1200
Abbreviation	**Total Petroleum Hydrocarbons:**					0		TPH Subtractions			
TNMHC - C6	Total Non-Methane Hydrocarbons					0		0			
TNMHC - C1	Total Non-Methane Hydrocarbons					0		0			
TVOC	Total Volatile Organic Compounds					0		0			
TPH(g)	TPH (gasoline)					0		0			
TPH(d)	TPH (diesel)					0		0			
TPH(h)	TPH (hexane)					0		0			
TPH(t)	TPH (toluene)					0		0			
TPHC	TPH (methane)					0		0			
TPH(Jet A)	TPH (Jet A Fuel)					0		**0**	Total Subtracted		
TPH (MS)	TPH (Mineral Spirits)					0					
C6+	**C6+ (hexane)**		16.17	16.17	16.17	**0**		Sum from	16.17	to	end
	Sample: Composition										
	Total Identified					Calc					
P	Paraffins					Calc					
I	Isoparaffins					Calc					
A	Aromatics					Calc					
N	Napthlenes					Calc					
O	Olefins					Calc					
	Oxygenates					Calc					
	Carbon Ranges:				Sample RT						
C2	**C2 (ethane)**		Calculated			0		Calculated from C2 sum			
C3	**C3 (propane)**		Calculated			0		Calculated from C3 sum			
C4	**C4 (Butane)**					**0**		Sum from	0.00	to	8.34
C5	**C5 (Pentane)**					**0**		Sum from	8.34	to	12.48
C6	**C6 (Hexane)**					**0**		Sum from	12.48	to	16.17
C7	**C7 (Heptane)**					**0**		Sum from	16.17	to	19.41
C8	**C8 (Octane)**					**0**		Sum from	19.41	to	22.27
C9	**C9 (Nonane)**					**0**		Sum from	22.27	to	24.87
C10	**C10 (Decane)**					**0**		Sum from	24.87	to	27.26
C11	**C11 (Undecane)**					**0**		Sum from	27.26	to	29.86
C12	**C12 (Decane)**					**0**		Sum from	29.86	to	32.46
C12+	**C12+ as (Decane)**					**0**		Sum from	32.46	to	
	NOTE: THE SUM OF THE CARBON RANGES = TOTAL NMHC					**0**					
C5 to C12	C5 to C12 Gasoline					**0**		Sum from	8.34	**to**	32

Note: The Normal hydrocarbon is the last in the group. Nonane is the end of the C9 range
The compounds between Octane C8 and Noname C9 are considered C9
Note: This is not exact because is is violated for a couple of hydrocarbons (usualy trans) and aromatics.

CALCULATIONS

EPA Method TO-14 Modified GC/FID

QCBatch:	040825-GCK		
Hexane Std Area:	382828		
Hexane Conc.	18.05	Oxygenate Response	0.75
Standard Volume:	1.00	ND Flag:	ND
Can Dilution Factor:	1.00	MDL Factor	1
Air Volume:	200.00		
Combined Factor:	1.00		
Gas Constant:	24.4		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppbC	RESULTV ppbV	Result ug/m3	FIXED Result ppbC	FIXED RESULTV ppbV	FIXED Result ug/m3	FIXED RESULTQ ug/m3	FIXED RESULTG ug/m3
Ethene	28.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Acetylene	26.0	2	0.00	0.00	0.00	ND	ND	ND	0	
Ethane	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
Propene	42.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Propane	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Methanol	32.0	1	0.00	0.00	0.00	ND	ND	ND	0	
1-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
1,3-Butadiene	54.1	4	0.00	0.00	0.00	ND	ND	ND	0	
n-Butane	58.1	4	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Butene	56.1	4	0.00	0.00	0.00	ND	ND	ND	0	
Ethanol	46.1	2	0.00	0.00	0.00	ND	ND	ND	0	
3-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Acetone	58.1	3	0.00	0.00	0.00	ND	ND	ND	0	
i-Pentane	72.2	5	0.00	0.00	0.00	ND	ND	ND	0	
1-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isopropanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-1-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Pentane	72.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Isoprene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
t-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
c-2-Pentene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Tert butyl alcohol	74.1	4	0.00	0.00	0.00	ND	ND	ND	0	
2-Methyl-2-butene	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
2,2-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentene	68.1	5	0.00	0.00	0.00	ND	ND	ND	0	
n-Propanol	60.1	3	0.00	0.00	0.00	ND	ND	ND	0	
Cyclopentane	70.1	5	0.00	0.00	0.00	ND	ND	ND	0	
Methyl tert butyl ether	88.2	5	0.00	0.00	0.00	ND	ND	ND	0	
2,3-Dimethylbutane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
2-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylpentane	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
1-Hexene	84.2	6	0.00	0.00	0.00	ND	ND	ND	0	
n-Hexane	86.2	6	0.00	**0.00**	0.00	ND	ND	ND	0	
Diisopropyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0	
3-Methylcyclopentene	82.1	6	0.00	0.00	0.00	ND	ND	ND	0	

Ethyl tert butyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclopentane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Benzene	78.1	6	0.00	0.00	0.00	ND	ND	ND	0
Cyclohexane	84.2	6	0.00	0.00	0.00	ND	ND	ND	0
2-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylpentane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
3-Methylhexane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1hexene	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
Tert amyl methyl ether	102.2	6	0.00	0.00	0.00	ND	ND	ND	0
2,2,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Heptane	100.2	7	0.00	0.00	0.00	ND	ND	ND	0
Methylcyclohexane	98.2	7	0.00	0.00	0.00	ND	ND	ND	0
2,5-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,4-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2,3,4-Trimethylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Toluene	92.1	7	0.00	0.00	0.00	ND	ND	ND	0
2,3-Dimethylhexane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
4-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyl-3-methylpentane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
3-Methylheptane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
2-Methyl-1-heptene	112.2	8	0.00	0.00	0.00	ND	ND	ND	0
n-Octane	114.2	8	0.00	0.00	0.00	ND	ND	ND	0
Ethylbenzene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
m,p-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
Styrene	104.2	8	0.00	0.00	0.00	ND	ND	ND	0
o-xylene	106.2	8	0.00	0.00	0.00	ND	ND	ND	0
1-Nonene	126.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Nonane	128.3	9	0.00	0.00	0.00	ND	ND	ND	0
i-Propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-propylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
a-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
3-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
4-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
1,3,5-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
2-Ethyltoluene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
b-Pinene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,4-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
n-Decane	142.3	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3-Trimethylbenzene	120.2	9	0.00	0.00	0.00	ND	ND	ND	0
Indan	118.2	9	0.00	0.00	0.00	ND	ND	ND	0
d-Limonene	136.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Diethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
n-Butylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,4-Dimethyl-2-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,3-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2-Dimethyl-4-ethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Undecane	156.3	11	0.00	0.00	0.00	ND	ND	ND	0
1,2,4,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
1,2,3,5-Tetramethylbenzene	134.2	10	0.00	0.00	0.00	ND	ND	ND	0
Naphthalene	128.2	10	0.00	0.00	0.00	ND	ND	ND	0
Dodecane	170.3	12	0.00	0.00	0.00	ND	ND	ND	0
Total Petroleum Hydrocarbons:				ppbV	ug/m3				ug/m3

Total Non-Methane Hydrocarbons	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
Total Non-Methane Hydrocarbons	16	1.0	0.00	0.0	0.0	ND	ND	ND	0	
Total Volatile Organic Compounds	100	7.6	0.00	0.0	0.0	ND	ND	ND	0	
TPH (gasoline)	95	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (diesel)	198	15.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (toluene)	92.14	7.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (methane)	16	1.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Jet A Fuel)	177	13.0	0.00	0.0	0.0	ND	ND	ND	0	
TPH (Mineral Spirits)	117.81	8.0	0.00	0.0	0.0	ND	ND	ND	0	
C6+ (hexane)	86.2	6.0	0.00	0.0	0.0	ND	ND	ND	0	
C5 to C12 Gasoline	95	7	0.00	0.00	0.00	ND	ND	ND	0	
Sample: Composition			ppbC	ppbV	ug/m3				ug/m3	
Total Identified			0.0	0.0						
Paraffins			0.0							
Isoparaffins			0.0							
Aromatics			0.0							
Napthlenes			0.0							
Olefins			0.0							
Oxygenates			0.0							
Carbon Ranges:			ppbC	ppbV	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
C2 (ethane)	30.1	2	0.00	0.00	0.00	ND	ND	ND	0	
C3 (propane)	44.1	3	0.00	0.00	0.00	ND	ND	ND	0	
C4 (Butane)	58.12	4	0.00	0.00	0.00	ND	ND	ND	0	
C5 (Pentane)	72.15	5	0.00	0.00	0.00	ND	ND	ND	0	
C6 (Hexane)	86.2	6	0.00	0.00	0.00	ND	ND	ND	0	
C7 (Heptane)	100.2	7	0.00	0.00	0.00	ND	ND	ND	0	
C8 (Octane)	114.2	8	0.00	0.00	0.00	ND	ND	ND	0	
C9 (Nonane)	128.26	9	0.00	0.00	0.00	ND	ND	ND	0	
C10 (Decane)	142.3	10	0.00	0.00	0.00	ND	ND	ND	0	
C11 (Undecane)	156.3	11	0.00	0.00	0.00	ND	ND	ND	0	
C12 (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
C12+ as (Decane)	170.3	12	0.00	0.00	0.00	ND	ND	ND	0	
			0.0							
Totals from Identified:										
Aliphatic C5-C6	72.15	6	0.0	0.00	0.00					
Aliphatic C6-C8	100.2	7	0.0	0.00	0.00					
Aliphatic C8-C10	128.3	9	0.0	0.00	0.00					
Aliphatic C10-C12	142.8	11	0.0	0.00	0.00					
Aromatic C8-C10	114.2	9	0.0	0.00	0.00					
Aromatic C10-12	142.3	11	0.0	0.00	0.00					
n-Hexane	86.18	6.0	0.0	0.00	0.00					
TNMHC - C6	86.2	6								
TNMHC - C1	16	1								
TVOC	86.2	6								
TPH(g)	95	7								
TPH(d)	198	15								
TPH(h)	86.2	6								
TPH(t)	92.14	7								
TPHC	16	1								
TPH(Jet A)	177	13								
TPH (MS)	117.81	8								
C6+	117.81	8								

Alkanes	0.0	0.0
Alkenes	0.0	0.0
Alkynes	0.0	0.0
Cycloalkanes	0.0	0.0
Cycloalkenes	0.0	0.0
Alcohols	0.0	0.0
Ketones	0.0	0.0
Ethers	0.0	0.0
Aromatics	0.0	0.0
Terpenes	0.0	0.0

SDG: **LABQC**
Laboratory Number: **B04085**

Mole % Result %	(1) MDL ppbC	(2) MDL ppbV	Calc MDL ppbV	Calc MDL ug/m3	Calc MDL ppbC	Calc RL ppbV	Calc RL ug/m3	Calc RL ppbC	Flag	Detect Flan	EPA Flag	Rept Res
0.0	2.000	1.00	1.00	1.15	2.00	3.00	3.45	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.07	2.00	3.00	3.20	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.23	2.00	3.00	3.70	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.15	2.00	2.00	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.20	2.00	2.00	3.61	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.19	2.00	1.50	3.57	6.0	U	ND		Y
0.0	2.000	2.00	2.00	2.62	2.00	6.00	7.87	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.11	2.00	1.50	3.33	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.19	2.00	1.50	3.57	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.15	2.00	1.50	3.45	6.0	U	ND		Y
0.0	2.000	1.00	1.00	1.89	2.00	3.00	5.67	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.59	2.00	2.00	4.76	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.18	2.00	1.20	3.55	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.64	2.00	2.00	4.93	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.18	2.00	1.20	3.55	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.12	2.00	1.20	3.35	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.50	0.50	1.52	2.00	1.50	4.56	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.12	2.00	1.20	3.35	6.0	U	ND		Y
0.0	2.000	0.67	0.67	1.64	2.00	2.00	4.93	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.15	2.00	1.20	3.45	6.0	U	ND		Y
0.0	2.000	0.40	0.40	1.45	2.00	1.20	4.34	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.18	2.00	1.00	3.53	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND		Y
0.0	2.000	0.33	0.33	1.12	2.00	1.00	3.36	6.0	U	ND		Y

0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.07	2.00	1.00	3.20	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.15	2.00	1.00	3.45	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.15	2.00	0.86	3.45	6.0	U	ND	Y
0.0	2.000	0.33	0.33	1.40	2.00	1.00	4.19	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.17	2.00	0.86	3.52	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.15	2.00	0.86	3.45	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.29	0.29	1.08	2.00	0.86	3.24	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.15	2.00	0.75	3.45	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.17	2.00	0.75	3.51	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.07	2.00	0.75	3.20	6.0	U	ND	Y
0.0	2.000	0.25	0.25	1.09	2.00	0.75	3.26	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.15	2.00	0.67	3.45	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.17	2.00	0.67	3.51	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.17	2.00	0.60	3.50	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.09	2.00	0.67	3.28	6.0	U	ND	Y
0.0	2.000	0.22	0.22	1.08	2.00	0.67	3.23	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.12	2.00	0.60	3.35	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.18	0.18	1.16	2.00	0.55	3.49	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.10	2.00	0.60	3.30	6.0	U	ND	Y
0.0	2.000	0.20	0.20	1.05	2.00	0.60	3.15	6.0	U	ND	Y
0.0	2.000	0.17	0.17	1.16	2.00	0.50	3.49	6.0	U	ND	Y
%											Y

100.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
100.0	45.00	45.0	45.00	29.51	45.00	135.0	88.5	135.0	U	ND	Y
100.0	45.00	5.9	5.92	24.27	45.00	17.8	72.8	135.0	U	ND	Y
100.0	45.00	6.4	6.43	25.03	45.00	19.3	75.1	135.0	U	ND	Y
100.0	45.00	3.0	3.00	24.34	45.00	9.0	73.0	135.0	U	ND	Y
100.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
100.0	45.00	6.4	6.43	24.28	45.00	19.3	72.8	135.0	U	ND	Y
100.0	45.00	45.0	45.00	29.51	45.00	135.0	88.5	135.0	U	ND	Y
100.0	45.00	3.5	3.46	25.11	45.00	10.4	75.3	135.0	U	ND	Y
100.0	45.00	5.6	5.63	27.16	45.00	16.9	81.5	135.0	U	ND	Y
0.0	45.00	7.5	7.50	26.50	45.00	22.5	79.5	135.0	U	ND	Y
0.0	25.000	3.6	3.57	13.91	25.00	10.7	41.7	75.0	U	ND	Y
%											Y
100.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
0.0											Y
%											Y
0.0	5.000	2.5	2.50	3.08	5.00	7.5	9.3	15.0	U	ND	Y
0.0	5.000	1.7	1.67	3.01	5.00	5.0	9.0	15.0	U	ND	Y
0.0	25.000	6.3	6.25	14.89	25.00	18.8	44.7	75.0	U	ND	Y
0.0	25.000	5.0	5.00	14.78	25.00	15.0	44.4	75.0	U	ND	Y
0.0	25.000	4.2	4.17	14.72	25.00	12.5	44.2	75.0	U	ND	Y
0.0	25.000	3.6	3.57	14.67	25.00	10.7	44.0	75.0	U	ND	Y
0.0	25.000	3.1	3.13	14.63	25.00	9.4	43.9	75.0	U	ND	Y
0.0	25.000	2.8	2.78	14.60	25.00	8.3	43.8	75.0	U	ND	Y
0.0	25.000	2.5	2.50	14.58	25.00	7.5	43.7	75.0	U	ND	Y
0.0	25.000	2.3	2.27	14.56	25.00	6.8	43.7	75.0	U	ND	Y
0.0	25.000	2.1	2.08	14.54	25.00	6.3	43.6	75.0	U	ND	Y
0.0	25.000	2.1	2.08	14.54	25.00	6.3	43.6	75.0	U	ND	Y
0.0											Y
											Y
0.0	6.0	1.0	1.00	2.96	6.00	3.0	8.9	18.0			Y
0.0	6.0	0.9	0.86	3.52	6.00	2.6	10.6	18.0			Y
0.0	6.0	0.7	0.67	3.51	6.00	2.0	10.5	18.0			Y
0.0	6.0	0.5	0.55	3.19	6.00	1.6	9.6	18.0			Y
0.0	6.0	0.7	0.67	3.12	6.00	2.0	9.4	18.0			Y
0.0	6.0	0.5	0.55	3.18	6.00	1.6	9.5	18.0			Y
0.0	2.0	0.3	0.33	1.18	2.00	1.0	3.5	6.0	U	ND	Y

Parafins	Iso Parafins	Aromatics	Napthlenic	Olefins	Oxygenates	Alkanes	Alkenes	Alkynes	Cycloalkanes
					0.0		0.00		
					0.0			0.00	
0.0						0.00			
					0.0		0.00		
0.0						0.00			
		0.0				0.00			
					0.0				
					0.0		0.00		
					0.0		0.00		
0.0						0.00			
					0.0		0.00		
					0.0		0.00		
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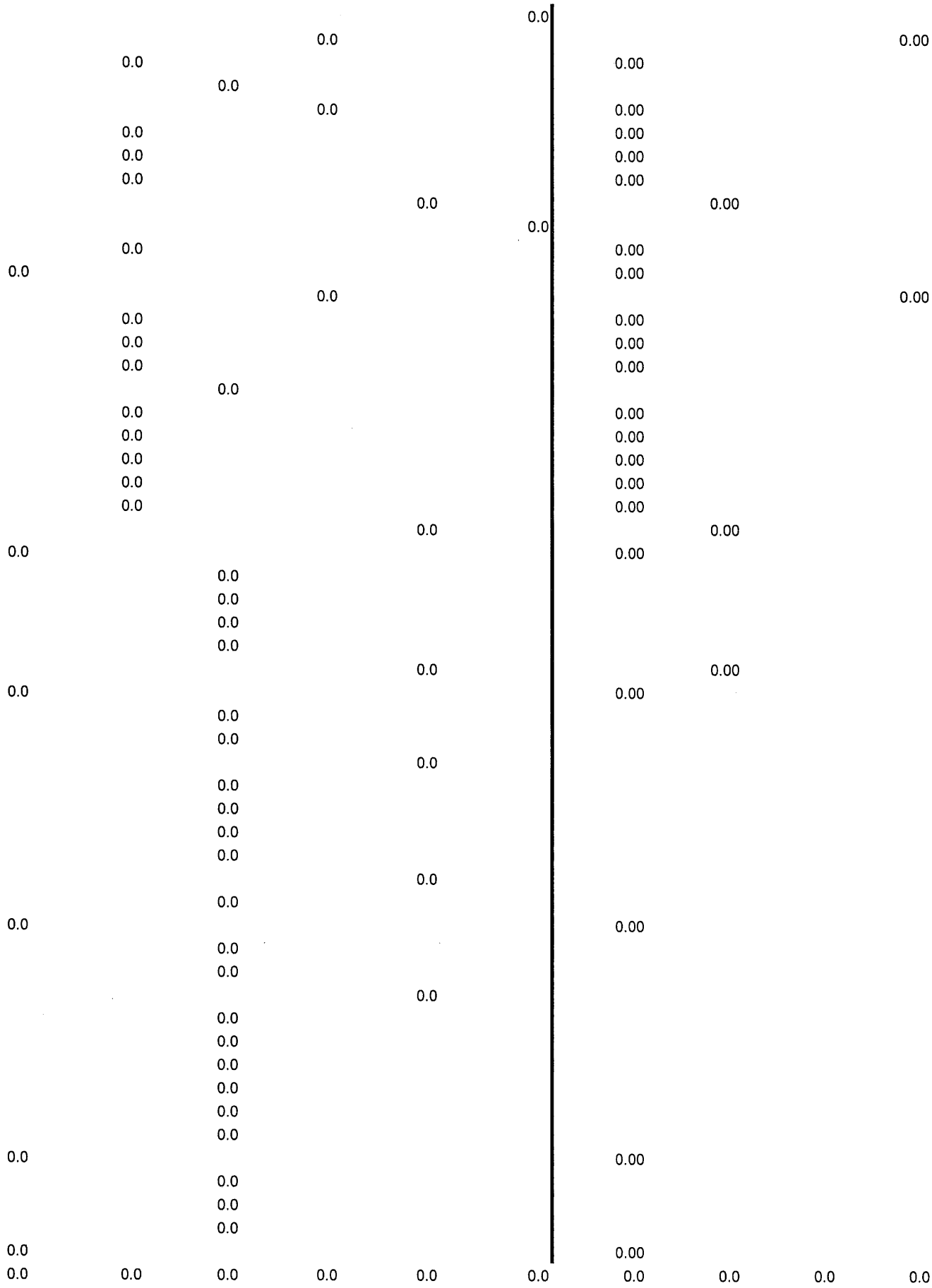
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Cycloalkenes	Alcohols	Ketones	Ethers	Aromatics	Terpenes
0.00	0.00	0.00	0.00	0.00	0.00

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SAMPLE CALCULATION

EPA Method TO-14 Modified GC/FID

SDG:		**LABQC**	
Laboratory Number:		**B04085**	
Standard Volume	STV	1.0	
Sample Volume	SV	200	
Can Dilution Factor	CDF	1.00	
Gas Constant		24.4	25C
Decimal Places:		2	

Sample Calculation:

1) Avg RFn = $\text{Sum} \left| \frac{(\text{Astdni})}{(\text{Cstdni})} \right|_i$

2) ppbC = $\frac{6 \text{ Carbons} \quad \text{Ansamp} \quad \text{CDF} \quad 1000}{(\text{Avg RFn}) \quad \text{SV}}$ = **Cn**

3) Amount ppbv = $\frac{\text{Cn}}{\text{C\#}}$

4) Amount ug/m3 = $\frac{(\text{amt(ppbv)} \quad \text{MW}}{24.4}$

Compound	C #	Chem type	MW	AvgRFn	Area Ansamp	**Cn** ppbC Raw Amt	Amount ppbv	Amount ug/m3
Ethene	2	TRG	28.1	2.12E+04	0	0.0	0.00	0.00
Acetylene	2	TRG	26.0	2.12E+04	0	0.0	0.00	0.00
Ethane	2	TRG	30.1	2.12E+04	0	0.0	0.00	0.00
Propene	3	TRG	4.5	2.12E+04	4	0.0	0.00	0.00
Propane	3	TRG	44.1	2.12E+04	0	0.0	0.00	0.00
i-Butane	4	TRG	58.1	2.12E+04	0	0.0	0.00	0.00
Methanol	1	TRG	32.0	2.12E+04	0	0.0	0.00	0.00
1-Butene	4	TRG	56.1	2.12E+04	0	0.0	0.00	0.00
n-Butane	4	TRG	54.1	2.12E+04	0	0.0	0.00	0.00
t-2-Butene	4	TRG	58.1	2.12E+04	0	0.0	0.00	0.00
c-2-Butene	4	TRG	56.1	2.12E+04	0	0.0	0.00	0.00
Ethanol	4	TRG	56.1	2.12E+04	0	0.0	0.00	0.00
i-Pentane	5	TRG	70.1	2.12E+04	0	0.0	0.00	0.00
1-Pentene	3	TRG	58.1	2.12E+04	0	0.0	0.00	0.00
Isopropanol	5	TRG	72.2	2.12E+04	0	0.0	0.00	0.00
n-Pentane	5	TRG	70.1	2.12E+04	0	0.0	0.00	0.00
Isoprene	3	TRG	60.1	2.12E+04	0	0.0	0.00	0.00
t-2-Pentene	5	TRG	70.1	2.12E+04	0	0.0	0.00	0.00
c-2-Pentene	5	TRG	72.1	2.12E+04	0	0.0	0.00	0.00
2,2-Dimethylbutane	5	TRG	68.1	2.12E+04	0	0.0	0.00	0.00
Cyclopentane	5	TRG	70.1	2.12E+04	0	0.0	0.00	0.00
2,3-Dimethylbutane	5	TRG	70.1	2.12E+04	0	0.0	0.00	0.00
2-Methylpentane	4	TRG	74.1	2.12E+04	0	0.0	0.00	0.00
3-Methylpentane	5	TRG	70.1	2.12E+04	0	0.0	0.00	0.00
n-Hexane	6	TRG	86.2	2.12E+04	0	0.0	0.00	0.00
Methylcyclopentane	5	TRG	68.1	2.12E+04	0	0.0	0.00	0.00
2,4-Dimethylpentane	3	TRG	60.1	2.12E+04	0	0.0	0.00	0.00
Benzene	5	TRG	70.1	2.12E+04	0	0.0	0.00	0.00
Cyclohexane	5	TRG	88.2	2.12E+04	0	0.0	0.00	0.00
2-Methylhexane	6	TRG	86.2	2.12E+04	0	0.0	0.00	0.00
2,3-Dimethylpentane	6	TRG	86.2	2.12E+04	0	0.0	0.00	0.00
3-Methylhexane	6	TRG	86.2	2.12E+04	0	0.0	0.00	0.00
2,2,4-Trimethylpentane	6	TRG	84.2	2.12E+04	0	0.0	0.00	0.00
n-Heptane	6	TRG	86.2	2.12E+04	0	0.0	0.00	0.00
Methylcyclohexane	6	TRG	102.2	2.12E+04	0	0.0	0.00	0.00
2,5-Dimethylhexane	6	TRG	82.1	2.12E+04	0	0.0	0.00	0.00
2,4-Dimethylhexane	6	TRG	102.2	2.12E+04	0	0.0	0.00	0.00

2,3,4-Trimethylpentane	6	TRG	84.2	2.12E+04	0	0.0	0.00	0.00	
Toluene	7	TRG	100.2	2.12E+04	0	0.0	0.00	0.00	
2,3-Dimethylhexane	6	TRG	78.1	2.12E+04	0	0.0	0.00	0.00	
2-Methylheptane	6	TRG	84.2	2.12E+04	0	0.0	0.00	0.00	
3-Methylheptane	7	TRG	100.2	2.12E+04	0	0.0	0.00	0.00	
n-Octane	7	TRG	100.2	2.12E+04	0	0.0	0.00	0.00	
Ethylbenzene	7	TRG	100.2	2.12E+04	0	0.0	0.00	0.00	
m,p-xylene	7	TRG	98.2	2.12E+04	0	0.0	0.00	0.00	
Styrene	6	TRG	102.2	2.12E+04	0	0.0	0.00	0.00	
o-xylene	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
n-Nonane	7	TRG	100.2	2.12E+04	0	0.0	0.00	0.00	
i-Propylbenzene	7	TRG	98.2	2.12E+04	0	0.0	0.00	0.00	
n-propylbenzene	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
a-Pinene	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
3-Ethyltoluene	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
4-Ethyltoluene	7	TRG	92.1	2.12E+04	0	0.0	0.00	0.00	
1,3,5-Trimethylbenzene	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
2-Ethyltoluene	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
b-Pinene	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
1,2,4-Trimethylbenzene	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
n-Decane	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
1,2,3-Trimethylbenzene	8	TRG	112.2	2.12E+04	0	0.0	0.00	0.00	
d-Limonene	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00	
1,3-Diethylbenzene	8	TRG	106.2	2.12E+04	0	0.0	0.00	0.00	
1,4-Diethylbenzene	8	TRG	106.2	2.12E+04	0	0.0	0.00	0.00	
n-Butylbenzene	8	TRG	104.2	2.12E+04	0	0.0	0.00	0.00	
Undecane	8	TRG	106.2	2.12E+04	0	0.0	0.00	0.00	
Dodecane	9	TRG	126.2	2.12E+04	0	0.0	0.00	0.00	
Total Petroleum Hydrocarbons:									
Total Non-Methane Hydrocarbc	6	TRG	86.2	2.12E+04	0	0.0	0.00	0.00	
Total Non-Methane Hydrocarbc	1	TRG	16.0	2.12E+04	0	0.0	0.00	0.00	
Total Volatile Organic Compou	8	TRG	100.0	2.12E+04	0	0.0	0.00	0.00	
TPH (gasoline)	7	TRG	95.0	2.12E+04	0	0.0	0.00	0.00	
TPH (diesel)	15	TRG	198.0	2.12E+04	0	0.0	0.00	0.00	
TPH (hexane)	6	TRG	86.2	2.12E+04	0	0.0	0.00	0.00	
TPH (toluene)	7	TRG	92.1	2.12E+04	0	0.0	0.00	0.00	
TPH (methane)	1	TRG	16.0	2.12E+04	0	0.0	0.00	0.00	
TPH (Jet A Fuel)	13	TRG	177.0	2.12E+04	0	0.0	0.00	0.00	
TPH (Mineral Spirits)	8	TRG	117.8	2.12E+04	0	0.0	0.00	0.00	
C6+ (hexane)	6	TRG	86.2	2.12E+04	0	0.0	0.00	0.00	
Sample: Composition									
Total Identified		TRG	0.0	2.12E+04		0.0			Sum ID
Paraffins	P	TRG	0.0	2.12E+04		0.0			Sum P
Isoparaffins	I	TRG	0.0	2.12E+04		0.0			Sum I
Aromatics	A	TRG	0.0	2.12E+04		0.0			Sum A
Napthlenes	N	TRG	0.0	2.12E+04		0.0			Sum N
Olefins	O	TRG	0.0	2.12E+04		0.0			Sum O
Oxygenates		TRG	0.0	2.12E+04		0.0			Sum Ox
Carbon Ranges:									
C2 (ethane)	2	TRG	30.1	2.12E+04	0	0.0	0.00	0.00	
C3 (propane)	3	TRG	44.1	2.12E+04	0	0.0	0.00	0.00	
C4 (Butane)	4	TRG	58.1	2.12E+04	0	0.0	0.00	0.00	
C5 (Pentane)	5	TRG	72.2	2.12E+04	0	0.0	0.00	0.00	
C6 (Hexane)	6	TRG	86.2	2.12E+04	0	0.0	0.00	0.00	
C7 (Heptane)	7	TRG	100.2	2.12E+04	0	0.0	0.00	0.00	

C8 (Octane)	8	TRG	114.2	2.12E+04	0	0.0	0.00	0.00
C9 (Nonane)	9	TRG	128.3	2.12E+04	0	0.0	0.00	0.00
C10 (Decane)	10	TRG	142.3	2.12E+04	0	0.0	0.00	0.00
C11 (Undecane)	11	TRG	156.3	2.12E+04	0	0.0	0.00	0.00
C12 (Decane)	12	TRG	170.3	2.12E+04	0	0.0	0.00	0.00
C12+ as (Decane)	12	TRG	170.3	2.12E+04	0	0.0	0.00	0.00
C5 to C12 Gasoline	7	TRG	95.0	2.12E+04	0	0.0	0.00	0.00

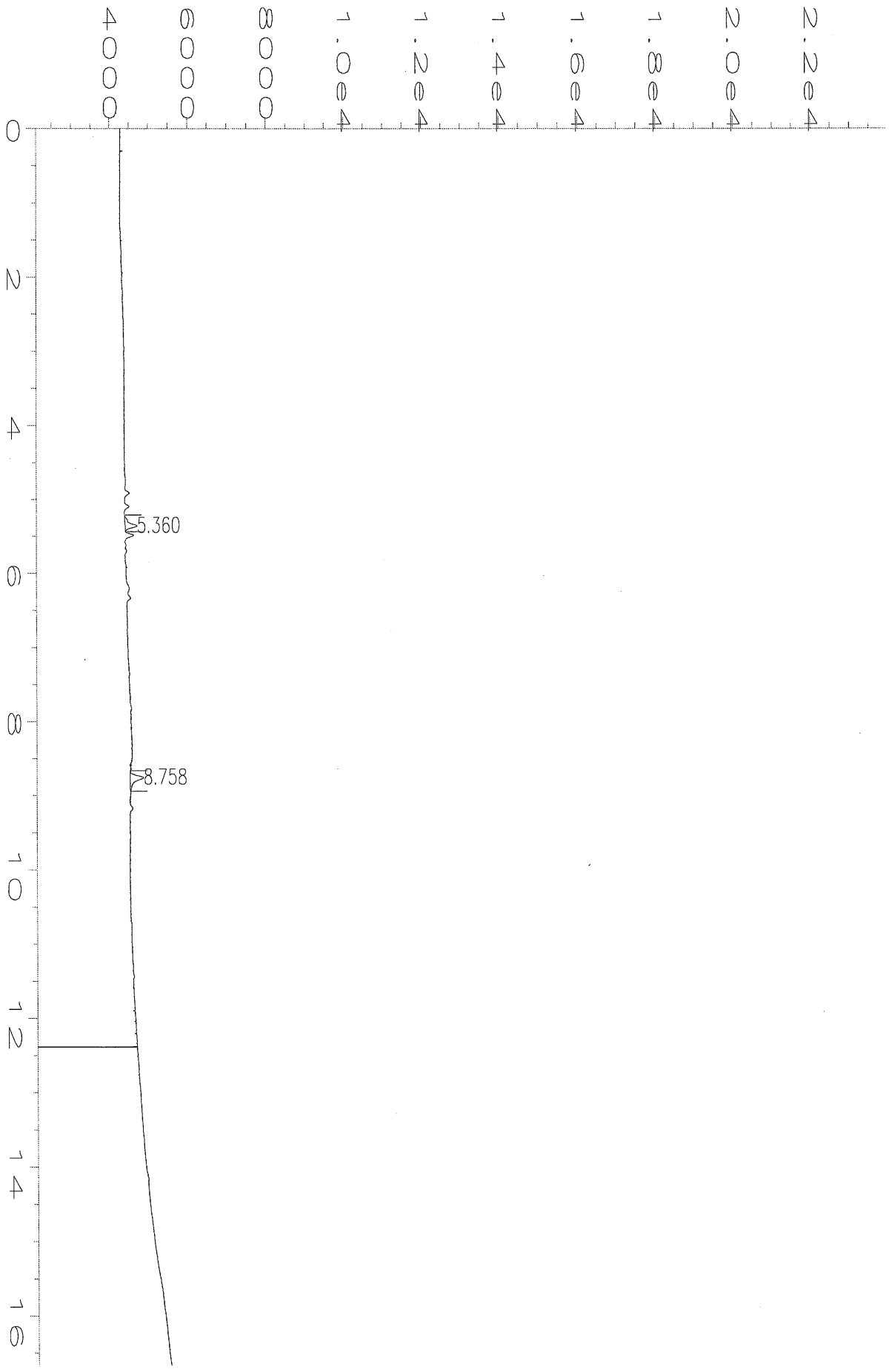
Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04085K\B04085B.D
Operator : MM
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : METHOD BLANK
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 08 Apr 25 11:36 AM
Instrument Method: GC1SHORT.MTH
Report Created on: 08 Apr 25 11:53 AM
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04085K\B04085B.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.360	1394	298	BV	0.066	44.6377
2	8.758	1729	340	BB	0.066	55.3623

Total area = 3123



C:\HPCHEM\1\DATA\CB75K\B0408585B.D

Area Percent Report

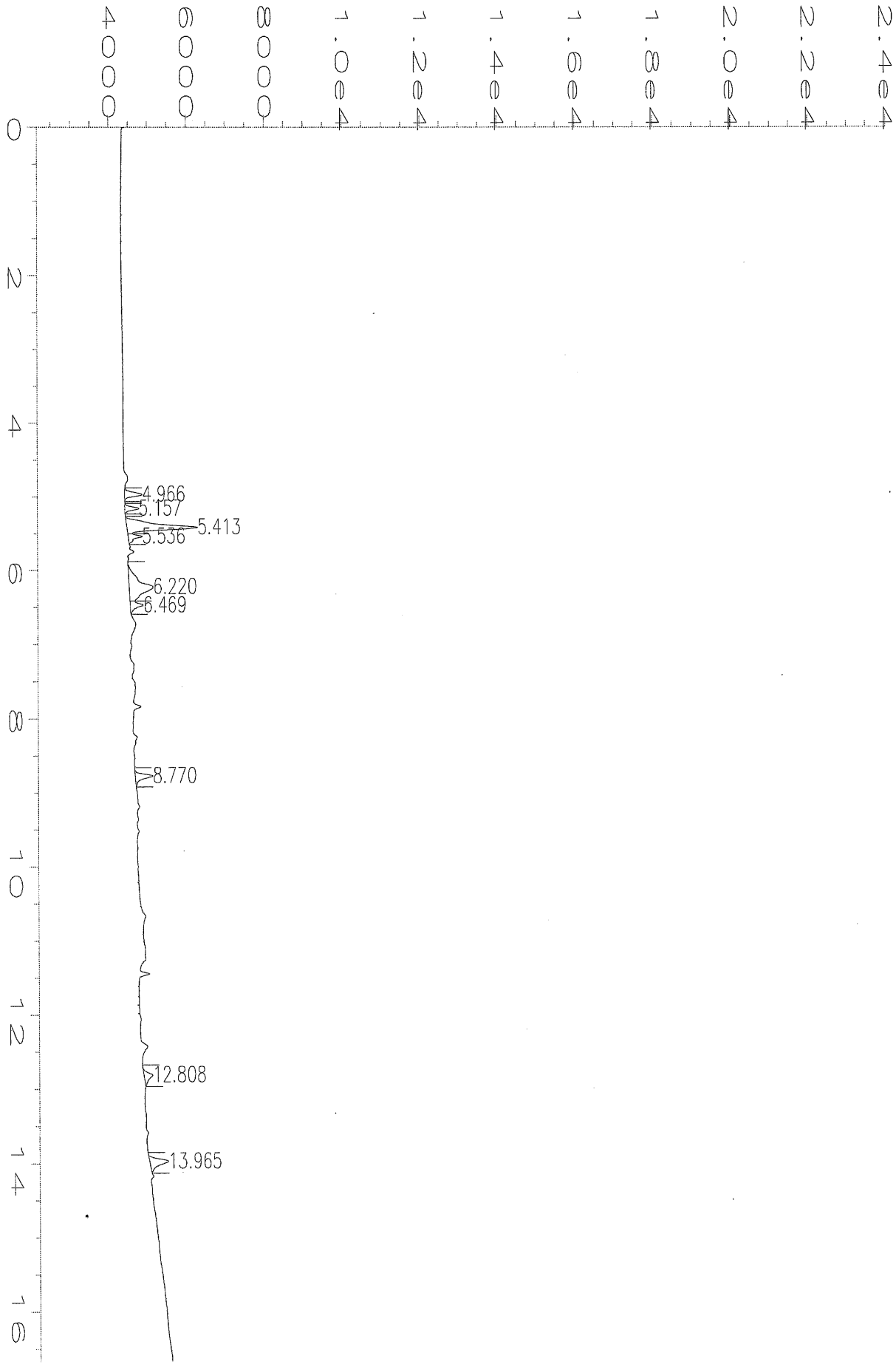
Data File Name : C:\HPCHEM\1\DATA\04085K\B04085A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : HUMID BLANK
Run Time Bar Code:
Acquired on : 08 Apr 25 10:53 AM
Report Created on: 08 Apr 25 11:10 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04085K\B04085A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.966	1687	452	BB	0.055	5.7649
2	5.157	1160	356	BB	0.049	3.9661
3	5.413	9762	1814	BV	0.079	33.3688
4	5.536	1335	361	VB	0.054	4.5639
5	6.220	7662	625	BV	0.154	26.1912
6	6.469	1569	342	VV	0.062	5.3616
7	8.770	1983	460	BB	0.064	6.7791
8	12.808	1378	225	BB	0.084	4.7115
9	13.965	2719	482	BV	0.082	9.2930

Total area = 29255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6
8
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12
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5.536
6.220
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8.770
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13.965
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LCS/LCD Data Packages

Samples are analyzed in a Daily Analytical Batch (DAB) on an instrument.
The DAB identifier is on each analytial report in the field called QC Batch.
There will be one LCS/LCD report for each QC Batch (DAB) in this SDG.

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QUALITY CONTROL SPIKE

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

EPA Method TO-12 Total Non-Methane Hydrocarbons

QC_Batch: 032725-GCK
Date: 03/27/25

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate Duplicate %	Duplicate Limit %	Flag
109-66-0	n-Pentane	103		104		70	130	1	25	
110-54-3	n-Hexane	99		101		70	130	2	25	
71-43-2	Benzene	105		105		70	130	0	25	
142-82-5	n-Heptane	104		102		70	130	2	25	
108-88-3	Toluene	111		106		70	130	5	25	
111-65-9	n-Octane	110		105		70	130	5	25	
108-38-3	m,p-xylene	123		114		70	130	9	25	
95-47-6	o-xylene	127		117		70	130	10	25	
108-67-8	1,3,5-Trimethylbenzene	115		123		70	130	8	25	

LCS- Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicates out of Limit

QUANTITATION REPORT

EPA Method TO-12 Total Non-Methane Hydrocarbons

	LCS	LCD	STD		
File Name:	**QC03275C**	**QC03275B**	**C03275A**		DAB:
SDG:	**LABQC**	**LABQC**			
LCS EAS ID:	**QC03275C**	**QC03275B**			
Time:	**8:24**	**7:54**			
Date Analyzed:	**03/27/25**				
QCBatch:	**032725-GCK**	Method:	**TO-12**	TO-14	
Hexane Con Cal:	**364105**			TO-03	
Standard:	**ST62344**	Not Detected Flag:	**ND**	EPA 18	
Chem:	**TRG**	SF:	**2**	TO-12	
Matrix:	**AA**	Instrument:	**GCK**		
Can Factor:	**1.00**	Unit Factor	**20**		
Volume:	**1.00**	ml			

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	C LCS Area	B LCD Area
109-66-0	n-Pentane	10	P	**6.44**	**6.44**	**6.44**	**15069**	**15191**
110-54-3	n-Hexane	19	P	**7.83**	**7.83**	**7.83**	**20333**	**20678**
71-43-2	Benzene	27	P	**8.77**	**8.77**	**8.77**	**20355**	**20432**
142-82-5	n-Heptane	36	P	9.53	9.53	9.53	**22237**	**21903**
108-88-3	Toluene	43	P	**10.43**	**10.43**	**10.43**	**22917**	**21827**
111-65-9	n-Octane	53	P	11.26	11.26	11.26	**26565**	**25420**
108-38-3	m,p-xylene	57	P	12.40	12.40	12.40	**24498**	**22707**
95-47-6	o-xylene	63	P	12.81	12.81	12.81	**25363**	**23353**
108-67-8	1,3,5-Trimethylbenzene	72	P	14.00	14.00	14.00	**15071**	**16063**

CALCULATIONS

EPA Method TO-12 Total Non-Methane Hydrocarbons

Calibration	03/20/24		
Can Dilution Factor:	1.00		
Air Volume:	1		
Combined Factor:	0.001	1000.00	Basis
Gas Constant:	23.68		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppmC	RESULTV ppmV	Result mg/m3
n-Pentane	72.1	5	87	17.4	52.8
n-Hexane	86.2	6	117	19.5	71.0
Benzene	78.1	6	117	19.5	64.4
n-Heptane	100.2	7	128	18.3	77.4
Toluene	92.1	7	132	18.9	73.3
n-Octane	114.2	8	153	19.1	92.2
m,p-xylene	106.2	8	141	17.6	79.1
o-xylene	106.2	8	146	18.3	81.9
1,3,5-Trimethylbenzene	120.2	9	87	9.6	48.9

Compound	M.W.	Carbon #	Result ppmC	RESULTV ppmV
n-Pentane	72.1	5	87	17.5
n-Hexane	86.2	6	119	19.8
Benzene	78.1	6	118	19.6
n-Heptane	100.2	7	126	18.0
Toluene	92.1	7	126	18.0
n-Octane	114.2	8	146	18.3
m,p-xylene	106.2	8	131	16.3
o-xylene	106.2	8	134	16.8
1,3,5-Trimethylbenzene	120.2	9	92	10.3

QUALITY CONTROL REPORT

EPA Method TO-12 Total Non-Methane Hydrocarbons

LCS QC03275C **LCD** QC03275B

Date Analyzed: 03/27/25

QC_Batch: 032725-GCK

CAS#	Compound	MW	Spike PPBV	LCS ppbv	LCS ppbv	LCS %	LCL %	UCL %	Flag	LCD %	CL %	Flag
109-66-0	n-Pentane	72.1	16.9	17.4	17.4	102.9	70	130		0.8	25	
110-54-3	n-Hexane	86.2	19.7	19.5	19.5	98.9	70	130		1.7	25	
71-43-2	Benzene	78.1	18.6	19.5	19.5	105.0	70	130		0.4	25	
142-82-5	n-Heptane	100.2	17.6	18.3	18.3	103.8	70	130		1.6	25	
108-88-3	Toluene	92.1	17.0	18.9	18.9	111.0	70	130		5.3	25	
111-65-9	n-Octane	114.2	17.3	19.1	19.1	110.2	70	130		4.8	25	
108-38-3	m,p-xylene	106.2	14.3	17.6	17.6	122.9	70	130		9.0	25	
95-47-6	o-xylene	106.2	14.4	18.3	18.3	126.8	70	130		10.1	25	
108-67-8	1,3,5-Trimethylbenzene	120.2	8.4	9.6	9.6	115.5	70	130		7.6	25	

CAS#	Compound	MW	Spike Con PPBV	LCD ppbv	LCD ppbv	LCD %	LCL %	UCL %	Flag
109-66-0	n-Pentane	72.1	16.9	17.5	17.5	103.8	70	130	
110-54-3	n-Hexane	86.2	19.7	19.8	19.8	100.5	70	130	
71-43-2	Benzene	78.1	18.6	19.6	19.6	105.4	70	130	
142-82-5	n-Heptane	100.2	17.6	18.0	18.0	102.2	70	130	
108-88-3	Toluene	92.1	17.0	18.0	18.0	105.7	70	130	
111-65-9	n-Octane	114.2	17.3	18.3	18.3	105.5	70	130	
108-38-3	m,p-xylene	106.2	14.3	16.3	16.3	113.9	70	130	
95-47-6	o-xylene	106.2	14.4	16.8	16.8	116.8	70	130	
108-67-8	1,3,5-Trimethylbenzene	120.2	8.4	10.3	10.3	123.1	70	130	

Area Percent Report

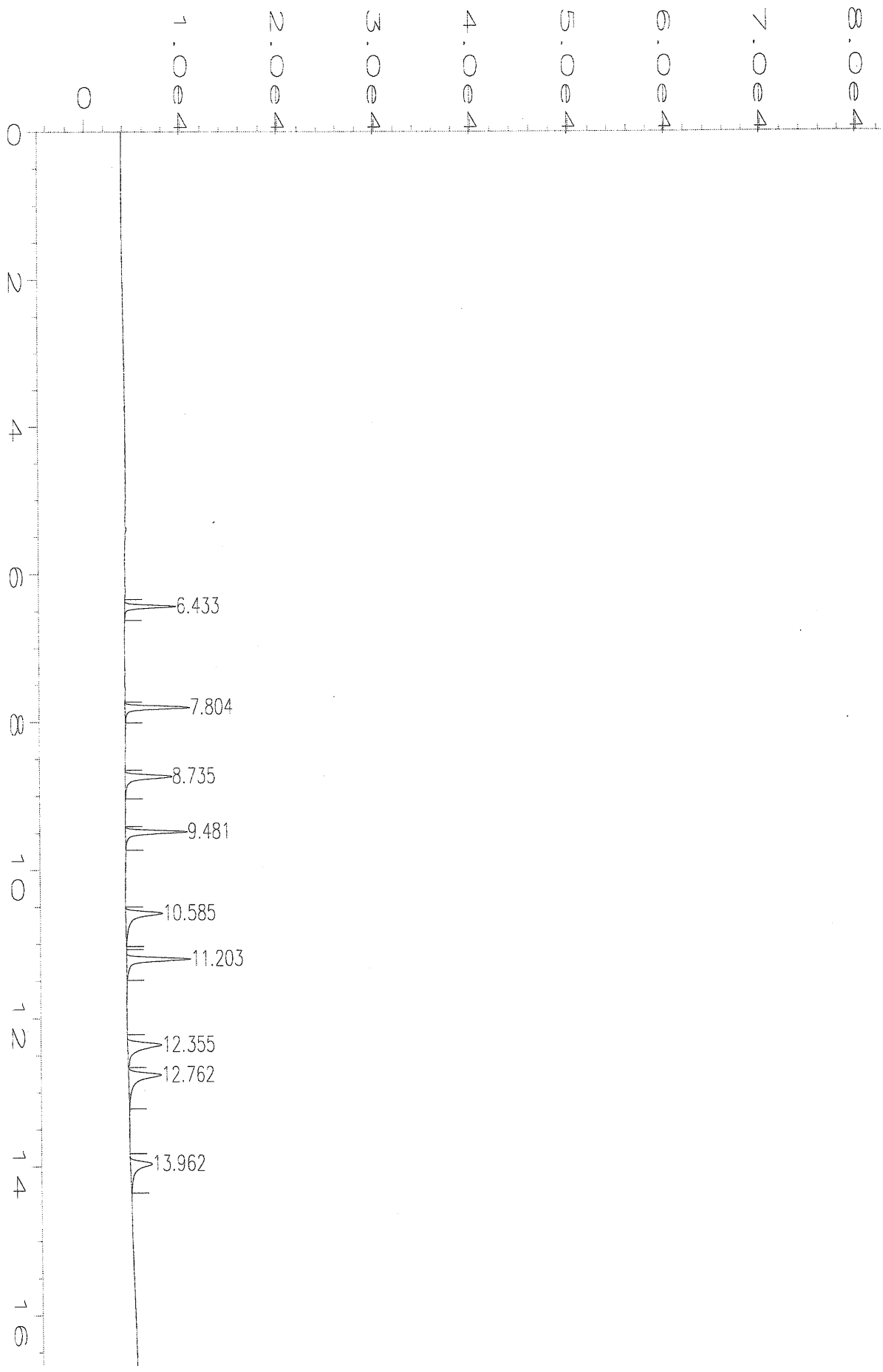
Data File Name : C:\HPCHEM\1\DATA\03275K\QC03275B.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62529
Run Time Bar Code:
Acquired on : 27 Mar 25 07:54 AM
Report Created on: 27 Mar 25 08:11 AM
Sample Info : HC SPIKE

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03275K\QC03275B.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	6.433	15191	5302	BB	0.045	8.0987
2	7.804	20678	6661	BB	0.048	11.0239
3	8.735	20432	4858	BB	0.062	10.8928
4	9.481	21903	6382	BB	0.052	11.6770
5	10.585	21827	3823	BB	0.081	11.6364
6	11.203	25420	6578	BB	0.057	13.5519
7	12.355	22707	3554	BV	0.092	12.1058
8	12.762	23353	3414	VB	0.096	12.4502
9	13.962	16063	2263	BB	0.101	8.5633

Total area = 187574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Area Percent Report

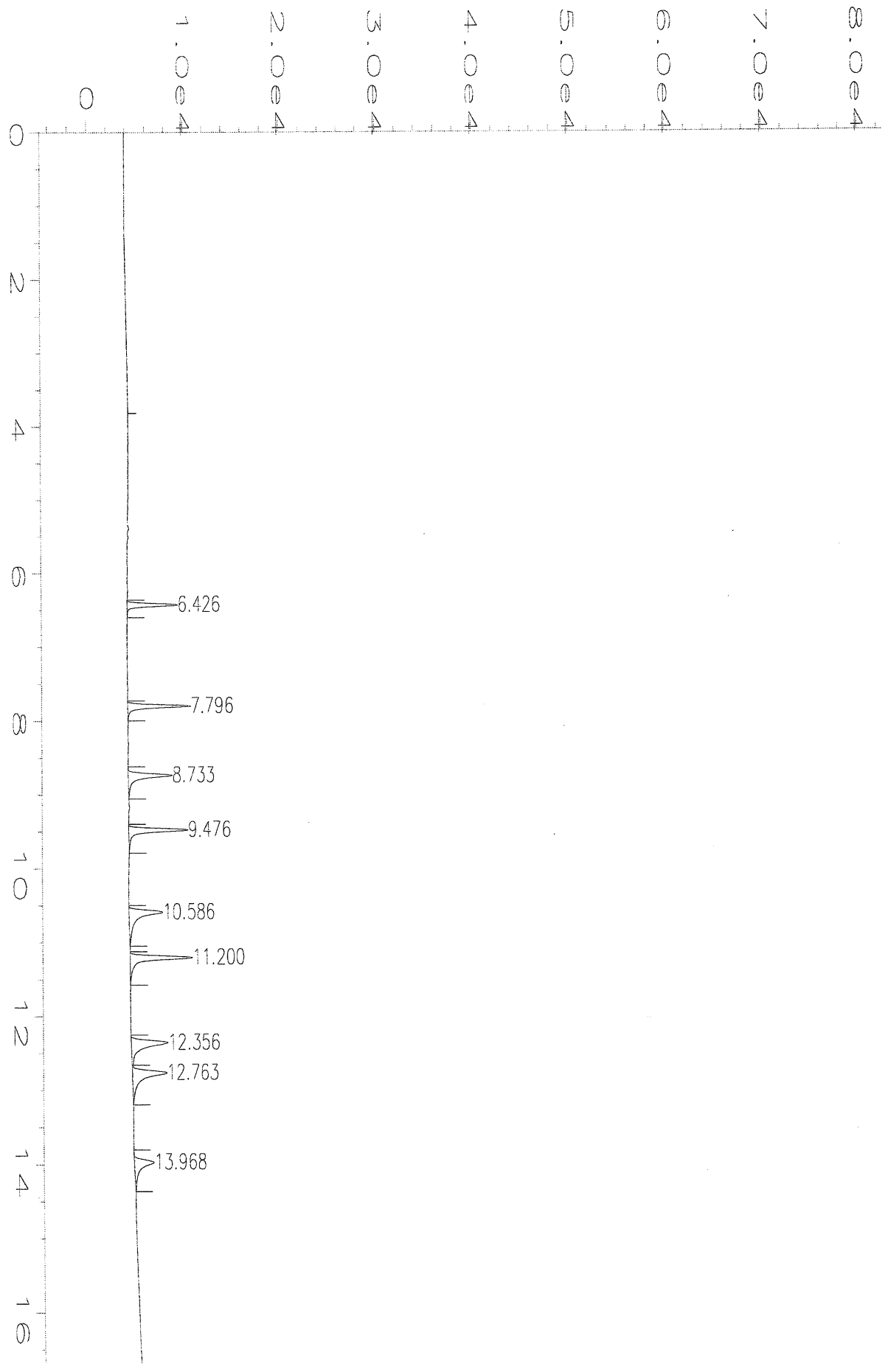
Data File Name : C:\HPCHEM\1\DATA\03275K\QC03275C.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62529
Run Time Bar Code:
Acquired on : 27 Mar 25 08:24 AM
Report Created on: 27 Mar 25 08:41 AM
Sample Info : HC SPIKE

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03275K\QC03275C.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	6.426	15069	5198	BB	0.045	7.8320
2	7.796	20333	6488	BB	0.048	10.5676
3	8.733	20355	4537	BB	0.067	10.5792
4	9.476	22237	6133	BB	0.055	11.5571
5	10.586	22917	3484	BB	0.092	11.9105
6	11.200	26565	6434	BB	0.062	13.8066
7	12.356	24498	3786	BV	0.094	12.7327
8	12.763	25363	3543	VB	0.102	13.1817
9	13.968	15071	2046	BB	0.105	7.8327

Total area = 192407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QUALITY CONTROL SPIKE

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

EPA Method TO-12 Total Non-Methane Hydrocarbons

QC_Batch: 032825-GCK
Date: 03/27/25

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate Duplicate %	Duplicate Limit %	Flag
109-66-0	n-Pentane	97		110		70	130	12	25	
110-54-3	n-Hexane	96		105		70	130	10	25	
71-43-2	Benzene	95		111		70	130	16	25	
142-82-5	n-Heptane	99		106		70	130	7	25	
108-88-3	Toluene	96		111		70	130	14	25	
111-65-9	n-Octane	97		112		70	130	15	25	
108-38-3	m,p-xylene	97		111		70	130	14	25	
95-47-6	o-xylene	97		111		70	130	14	25	
108-67-8	1,3,5-Trimethylbenzene	94		112		70	130	18	25	

LCS- Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicates out of Limit

QUANTITATION REPORT

EPA Method TO-12 Total Non-Methane Hydrocarbons

	LCS	LCD	STD			
File Name:	**QC03285A**	**QC03285B**	**C03285A**			DAB:
SDG:	**LABQC**	**LABQC**				
LCS EAS ID:	**QC03285A**	**QC03285B**				
Time:	**8:24**	**7:54**				
Date Analyzed:	**03/27/25**					
QCBatch:	**032825-GCK**	Method:	**TO-12**	TO-14		
Hexane Con Cal:	**313588**			TO-03		
Standard:	**ST62344**	Not Detected Flag:	**ND**	EPA 18		
Chem:	**TRG**	SF:	**2**	TO-12		
Matrix:	**AA**	Instrument:	**GCK**			
Can Factor:	**1.00**	Unit Factor	**20**			
Volume:	**1.00** ml					

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	A LCS Area	B LCD Area
109-66-0	n-Pentane	10	P	**6.44**	**6.44**	**6.44**	**13750**	**15516**
110-54-3	n-Hexane	19	P	**7.83**	**7.83**	**7.83**	**19501**	**21466**
71-43-2	Benzene	27	P	**8.77**	**8.77**	**8.77**	**20054**	**23360**
142-82-5	n-Heptane	36	P	9.53	9.53	9.53	**21877**	**23403**
108-88-3	Toluene	43	P	**10.43**	**10.43**	**10.43**	**23180**	**26606**
111-65-9	n-Octane	53	P	11.26	11.26	11.26	**26408**	**30625**
108-38-3	m,p-xylene	57	P	12.40	12.40	12.40	**30473**	**34998**
95-47-6	o-xylene	63	P	12.81	12.81	12.81	**32660**	**37283**
108-67-8	1,3,5-Trimethylbenzene	72	P	14.00	14.00	14.00	**43385**	**51471**

CALCULATIONS

EPA Method TO-12 Total Non-Methane Hydrocarbons

Calibration	03/20/24		
Can Dilution Factor:	1.00		
Air Volume:	1		
Combined Factor:	0.001	1000.00	Basis
Gas Constant:	23.68		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppmC	RESULTV ppmV	Result mg/m3
n-Pentane	72.1	5	79	15.8	48.2
n-Hexane	86.2	6	112	18.7	68.1
Benzene	78.1	6	115	19.2	63.5
n-Heptane	100.2	7	126	18.0	76.1
Toluene	92.1	7	133	19.1	74.2
n-Octane	114.2	8	152	19.0	91.7
m,p-xylene	106.2	8	175	21.9	98.4
o-xylene	106.2	8	188	23.5	105.4
1,3,5-Trimethylbenzene	120.2	9	250	27.8	140.9

Compound	M.W.	Carbon #	Result ppmC	RESULTV ppmV
n-Pentane	72.1	5	89	17.9
n-Hexane	86.2	6	124	20.6
Benzene	78.1	6	135	22.4
n-Heptane	100.2	7	135	19.3
Toluene	92.1	7	153	21.9
n-Octane	114.2	8	176	22.0
m,p-xylene	106.2	8	202	25.2
o-xylene	106.2	8	215	26.8
1,3,5-Trimethylbenzene	120.2	9	296	32.9

QUALITY CONTROL REPORT

EPA Method TO-12 Total Non-Methane Hydrocarbons

LCS QC03285A **LCD** QC03285B

Date Analyzed: 03/27/25

QC_Batch: 032825-GCK

CAS#	Compound	MW	Spike PPBV	LCS ppbv	LCS ppbv	LCS %	LCL %	UCL %	Flag	LCD %	CL %	Flag
109-66-0	n-Pentane	72.1	16.3	15.8	15.8	97.3	70	130		12.5	25	
110-54-3	n-Hexane	86.2	19.6	18.7	18.7	95.7	70	130		9.6	25	
71-43-2	Benzene	78.1	20.2	19.2	19.2	95.4	70	130		15.7	25	
142-82-5	n-Heptane	100.2	18.1	18.0	18.0	99.3	70	130		6.9	25	
108-88-3	Toluene	92.1	19.8	19.1	19.1	96.5	70	130		14.3	25	
111-65-9	n-Octane	114.2	19.6	19.0	19.0	96.8	70	130		15.5	25	
108-38-3	m,p-xylene	106.2	22.7	21.9	21.9	96.7	70	130		14.4	25	
95-47-6	o-xylene	106.2	24.2	23.5	23.5	97.2	70	130		13.8	25	
108-67-8	1,3,5-Trimethylbenzene	120.2	29.4	27.8	27.8	94.5	70	130		17.6	25	

CAS#	Compound	MW	Spike Con PPBV	LCD ppbv	LCD ppbv	LCD %	LCL %	UCL %	Flag
109-66-0	n-Pentane	72.1	16.3	17.9	17.9	109.8	70	130	
110-54-3	n-Hexane	86.2	19.6	20.6	20.6	105.4	70	130	
71-43-2	Benzene	78.1	20.2	22.4	22.4	111.2	70	130	
142-82-5	n-Heptane	100.2	18.1	19.3	19.3	106.3	70	130	
108-88-3	Toluene	92.1	19.8	21.9	21.9	110.7	70	130	
111-65-9	n-Octane	114.2	19.6	22.0	22.0	112.2	70	130	
108-38-3	m,p-xylene	106.2	22.7	25.2	25.2	111.1	70	130	
95-47-6	o-xylene	106.2	24.2	26.8	26.8	110.9	70	130	
108-67-8	1,3,5-Trimethylbenzene	120.2	29.4	32.9	32.9	112.1	70	130	

Area Percent Report

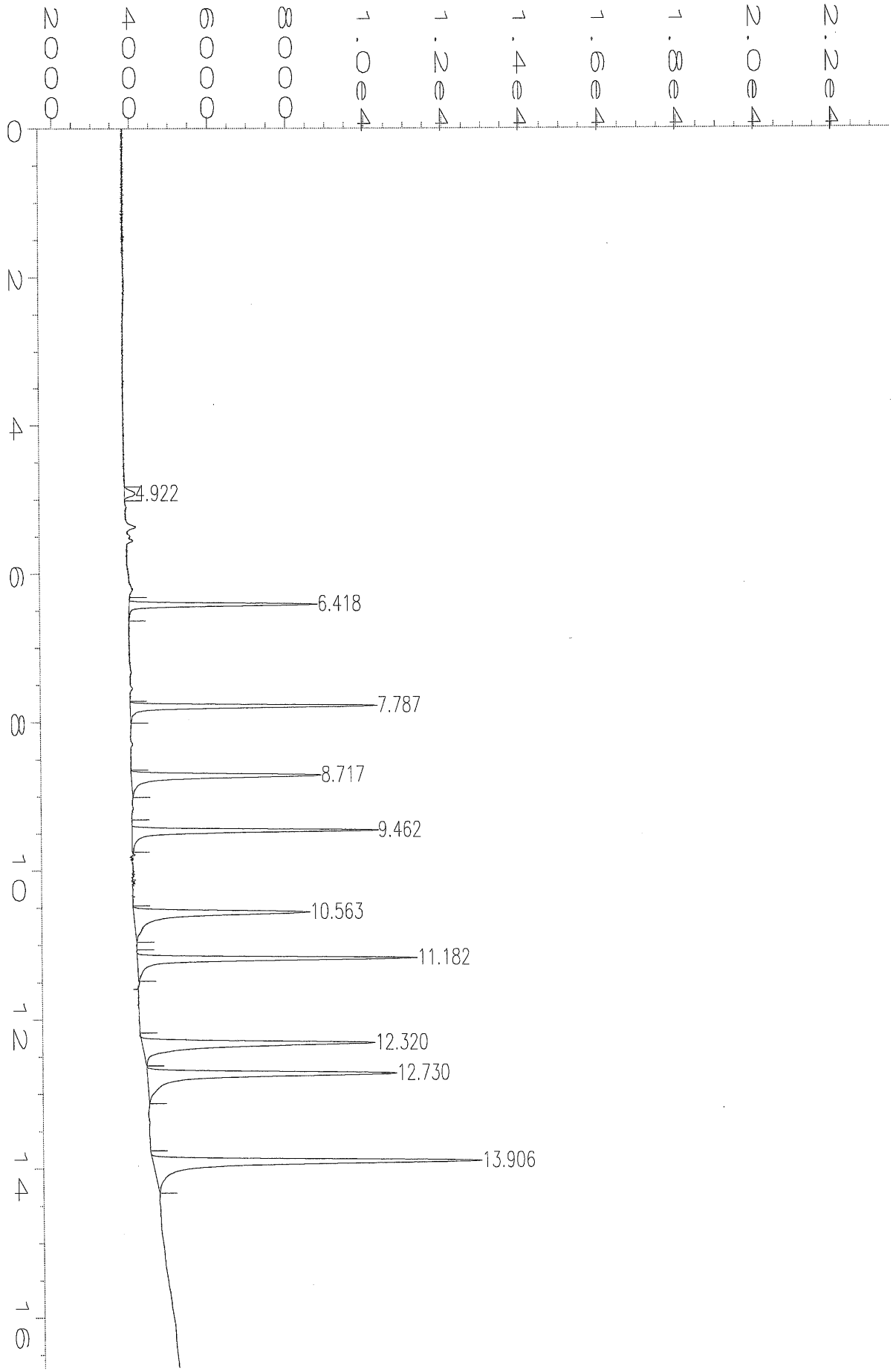
Data File Name : C:\HPCHEM\1\DATA\03285K\QC03285A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62529
Run Time Bar Code:
Acquired on : 28 Mar 25 08:08 AM
Report Created on: 28 Mar 25 08:24 AM
Sample Info :

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03285K\QC03285A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.922	1521	289	BV	0.068	0.6532
2	6.418	13750	4822	BB	0.044	5.9062
3	7.787	19501	6311	BB	0.048	8.3764
4	8.717	20054	4853	BB	0.062	8.6141
5	9.462	21877	6291	BV	0.053	9.3972
6	10.563	23180	4504	BB	0.074	9.9566
7	11.182	26408	7161	BB	0.055	11.3432
8	12.320	30473	5941	BB	0.075	13.0891
9	12.730	32660	6368	BB	0.074	14.0286
10	13.906	43385	8417	BB	0.078	18.6355

Total area = 232809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Area Percent Report

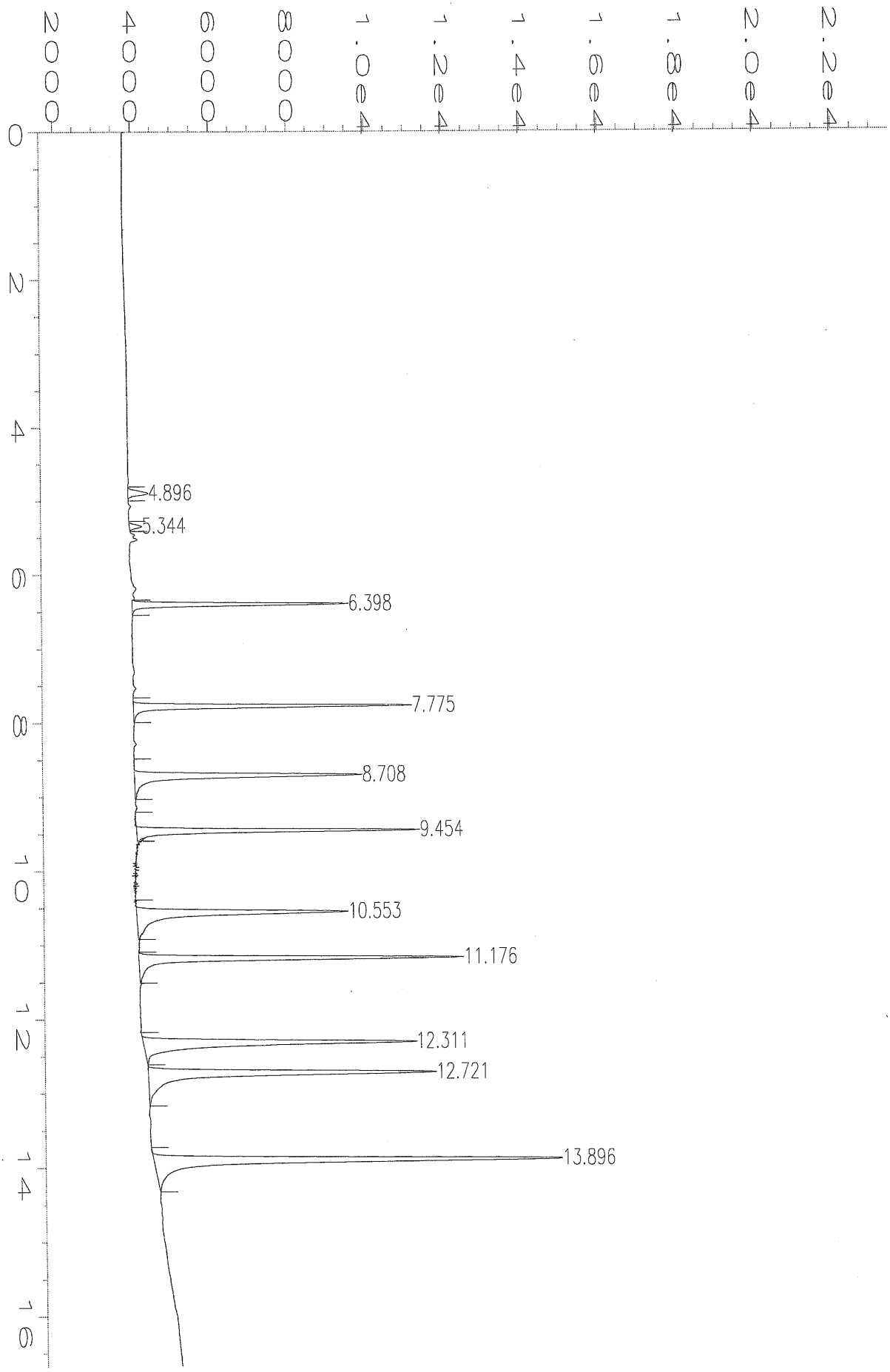
Data File Name : C:\HPCHEM\1\DATA\03285K\QC03285B.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62529
Run Time Bar Code:
Acquired on : 28 Mar 25 08:52 AM
Report Created on: 28 Mar 25 09:09 AM
Sample Info :

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03285K\QC03285B.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.896	2154	515	BB	0.067	0.8038
2	5.344	1071	318	BV	0.052	0.3997
3	6.398	15516	5558	VB	0.043	5.7905
4	7.775	21466	7168	BB	0.046	8.0111
5	8.708	23360	5849	BB	0.060	8.7179
6	9.454	23403	7280	BV	0.049	8.7339
7	10.553	26606	5420	BV	0.072	9.9294
8	11.176	30625	8363	BB	0.056	11.4294
9	12.311	34998	7038	BB	0.072	13.0613
10	12.721	37283	7403	BB	0.074	13.9140
11	13.896	51471	10487	BB	0.073	19.2091

Total area = 267953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QUALITY CONTROL SPIKE

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

EPA Method TO-12 Total Non-Methane Hydrocarbons

QC_Batch: 033125-GCK
Date: 03/27/25

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
109-66-0	n-Pentane	94		108		70	130	14	25	
110-54-3	n-Hexane	97		105		70	130	8	25	
71-43-2	Benzene	96		115		70	130	19	25	
142-82-5	n-Heptane	94		109		70	130	15	25	
108-88-3	Toluene	97		114		70	130	17	25	
111-65-9	n-Octane	94		110		70	130	16	25	
108-38-3	m,p-xylene	100		119		70	130	19	25	
95-47-6	o-xylene	101		119		70	130	17	25	
108-67-8	1,3,5-Trimethylbenzene	108		124		70	130	16	25	

LCS- Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicates out of Limit

QUANTITATION REPORT

EPA Method TO-12 Total Non-Methane Hydrocarbons

	LCS	LCD	STD		
File Name:	**QC03315A**	**QC03315B**	**C03315A**		DAB:
SDG:	**LABQC**	**LABQC**			
LCS EAS ID:	**QC03315A**	**QC03315B**			
Time:	**8:24**	**7:54**			
Date Analyzed:	**03/27/25**				
QCBatch:	**033125-GCK**	Method:	**TO-12**	TO-14	
Hexane Con Cal:	**377602**			TO-03	
Standard:	**ST62344**	Not Detected Flag:	**ND**	EPA 18	
Chem:	**TRG**	SF:	**2**	TO-12	
Matrix:	**AA**	Instrument:	**GCK**		
Can Factor:	**1.00**	Unit Factor	**20**		
Volume:	**1.00**	ml			

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	A LCS Area	B LCD Area
109-66-0	n-Pentane	10	P	**6.44**	**6.44**	**6.44**	**13277**	**15320**
110-54-3	n-Hexane	19	P	**7.83**	**7.83**	**7.83**	**19951**	**21673**
71-43-2	Benzene	27	P	**8.77**	**8.77**	**8.77**	**21096**	**25205**
142-82-5	n-Heptane	36	P	9.53	9.53	9.53	**20784**	**24137**
108-88-3	Toluene	43	P	**10.43**	**10.43**	**10.43**	**24310**	**28559**
111-65-9	n-Octane	53	P	11.26	11.26	11.26	**26144**	**30442**
108-38-3	m,p-xylene	57	P	12.40	12.40	12.40	**33745**	**39979**
95-47-6	o-xylene	63	P	12.81	12.81	12.81	**36559**	**42843**
108-67-8	1,3,5-Trimethylbenzene	72	P	14.00	14.00	14.00	**55209**	**63672**

CALCULATIONS

EPA Method TO-12 Total Non-Methane Hydrocarbons

Calibration	03/20/24		
Can Dilution Factor:	1.00		
Air Volume:	1		
Combined Factor:	0.001	1000.00	Basis
Gas Constant:	23.68		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppmC	RESULTV ppmV	Result mg/m3
n-Pentane	72.1	5	76	15.3	46.6
n-Hexane	86.2	6	115	19.1	69.7
Benzene	78.1	6	121	20.2	66.8
n-Heptane	100.2	7	120	17.1	72.3
Toluene	92.1	7	140	20.0	77.8
n-Octane	114.2	8	151	18.8	90.7
m,p-xylene	106.2	8	194	24.3	108.9
o-xylene	106.2	8	211	26.3	118.0
1,3,5-Trimethylbenzene	120.2	9	318	35.3	179.3

Compound	M.W.	Carbon #	Result ppmC	RESULTV ppmV
n-Pentane	72.1	5	88	17.6
n-Hexane	86.2	6	125	20.8
Benzene	78.1	6	145	24.2
n-Heptane	100.2	7	139	19.9
Toluene	92.1	7	164	23.5
n-Octane	114.2	8	175	21.9
m,p-xylene	106.2	8	230	28.8
o-xylene	106.2	8	247	30.8
1,3,5-Trimethylbenzene	120.2	9	367	40.7

QUALITY CONTROL REPORT

EPA Method TO-12 Total Non-Methane Hydrocarbons

LCS QC03315A **LCD** QC03315B

Date Analyzed: 03/27/25

QC_Batch: 033125-GCK

CAS#	Compound	MW	Spike PPBV	LCS ppbv	LCS ppbv	LCS %	LCL %	UCL %	Flag	LCD %	CL %	Flag
109-66-0	n-Pentane	72.1	16.3	15.3	15.3	93.5	70	130		14.4	25	
110-54-3	n-Hexane	86.2	19.7	19.1	19.1	97.1	70	130		8.4	25	
71-43-2	Benzene	78.1	21.0	20.2	20.2	96.5	70	130		18.8	25	
142-82-5	n-Heptane	100.2	18.3	17.1	17.1	93.6	70	130		15.1	25	
108-88-3	Toluene	92.1	20.6	20.0	20.0	97.3	70	130		17.0	25	
111-65-9	n-Octane	114.2	19.9	18.8	18.8	94.4	70	130		15.5	25	
108-38-3	m,p-xylene	106.2	24.2	24.3	24.3	100.3	70	130		18.5	25	
95-47-6	o-xylene	106.2	25.9	26.3	26.3	101.4	70	130		17.4	25	
108-67-8	1,3,5-Trimethylbenzene	120.2	32.8	35.3	35.3	107.6	70	130		16.5	25	

CAS#	Compound	MW	Spike Con PPBV	LCD ppbv	LCD ppbv	LCD %	LCL %	UCL %	Flag
109-66-0	n-Pentane	72.1	16.3	17.6	17.6	107.9	70	130	
110-54-3	n-Hexane	86.2	19.7	20.8	20.8	105.5	70	130	
71-43-2	Benzene	78.1	21.0	24.2	24.2	115.3	70	130	
142-82-5	n-Heptane	100.2	18.3	19.9	19.9	108.7	70	130	
108-88-3	Toluene	92.1	20.6	23.5	23.5	114.3	70	130	
111-65-9	n-Octane	114.2	19.9	21.9	21.9	109.9	70	130	
108-38-3	m,p-xylene	106.2	24.2	28.8	28.8	118.8	70	130	
95-47-6	o-xylene	106.2	25.9	30.8	30.8	118.9	70	130	
108-67-8	1,3,5-Trimethylbenzene	120.2	32.8	40.7	40.7	124.0	70	130	

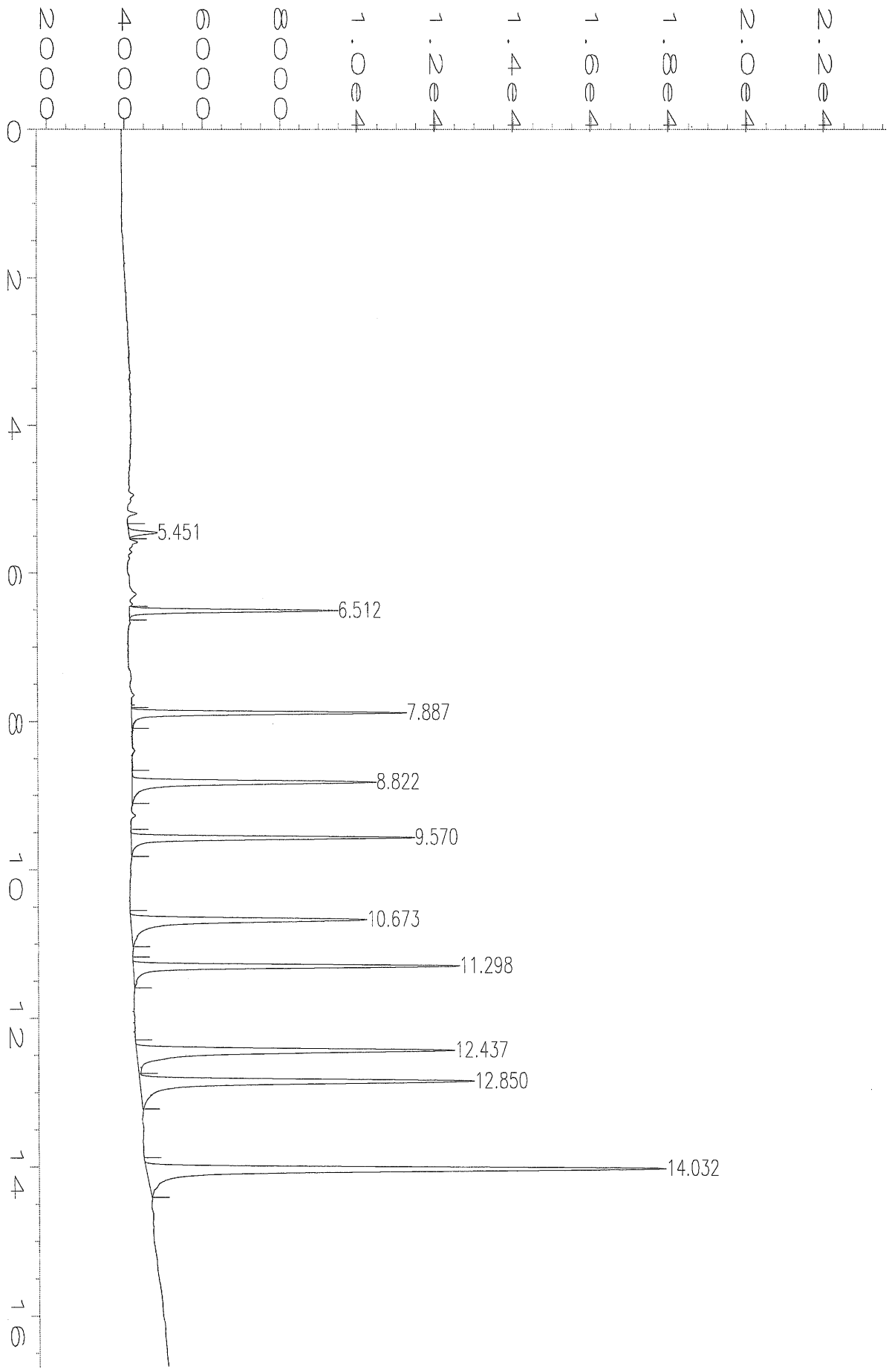
Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\03315K\QC03315B.D
Operator : MM
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : ST62529
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 31 Mar 25 09:08 AM
Instrument Method: GC1SHORT.MTH
Report Created on: 31 Mar 25 09:24 AM
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03315K\QC03315B.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.451	2438	723	BV	0.051	0.8284
2	6.512	15320	5372	VB	0.044	5.2063
3	7.887	21673	7071	BB	0.047	7.3649
4	8.822	25205	6282	BB	0.061	8.5653
5	9.570	24137	7287	BB	0.050	8.2026
6	10.673	28559	6052	BB	0.070	9.7051
7	11.298	30442	8420	BB	0.056	10.3449
8	12.437	39979	8187	BV	0.074	13.5861
9	12.850	42843	8600	VB	0.075	14.5592
10	14.032	63672	13363	BB	0.071	21.6373

Total area = 294267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Area Percent Report

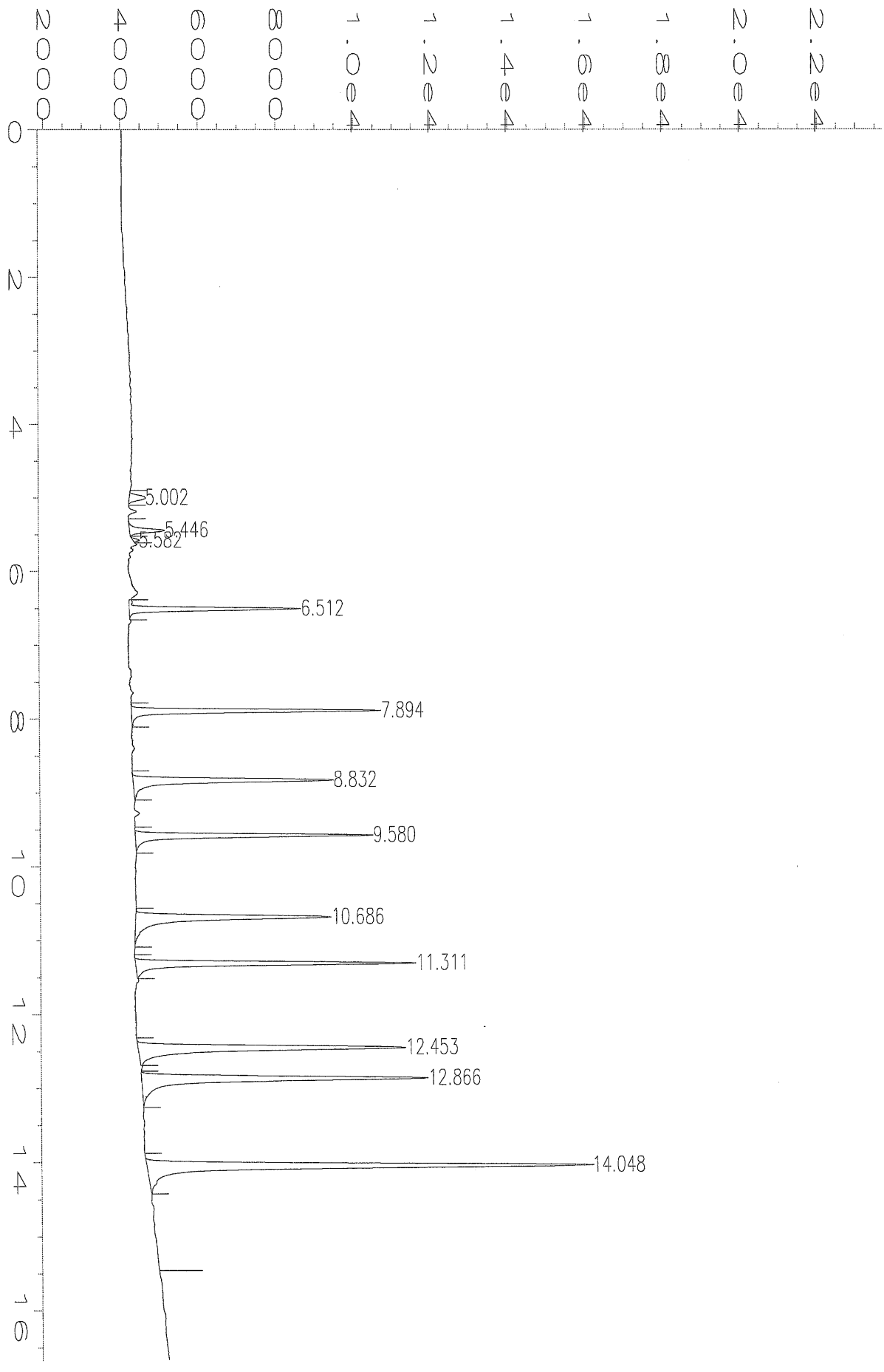
Data File Name : C:\HPCHEM\1\DATA\03315K\QC03315A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62529
Run Time Bar Code:
Acquired on : 31 Mar 25 08:32 AM
Report Created on: 31 Mar 25 08:49 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03315K\QC03315A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.002	1956	406	BB	0.070	0.7618
2	5.446	3356	907	BV	0.055	1.3071
3	5.582	363	156	PV	0.036	0.1414
4	6.512	13277	4415	VB	0.046	5.1710
5	7.894	19951	6433	BB	0.048	7.7706
6	8.832	21096	5165	BB	0.059	8.2166
7	9.580	20784	6123	BB	0.052	8.0951
8	10.686	24310	5028	BB	0.071	9.4684
9	11.311	26144	7235	BV	0.056	10.1825
10	12.453	33745	6903	BB	0.072	13.1433
11	12.866	36559	7404	BB	0.074	14.2393
12	14.048	55209	11552	BB	0.072	21.5031

Total area = 256750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QUALITY CONTROL SPIKE

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

EPA Method TO-12 Total Non-Methane Hydrocarbons

QC_Batch: 040125-GCK
Date: 04/01/25

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate Duplicate %	Duplicate Limit %	Flag
109-66-0	n-Pentane	94		109		70	130	15	25	
110-54-3	n-Hexane	96		106		70	130	10	25	
71-43-2	Benzene	96		112		70	130	17	25	
142-82-5	n-Heptane	96		110		70	130	14	25	
108-88-3	Toluene	95		116		70	130	21	25	
111-65-9	n-Octane	95		114		70	130	19	25	
108-38-3	m,p-xylene	99		115		70	130	16	25	
95-47-6	o-xylene	100		111		70	130	11	25	
108-67-8	1,3,5-Trimethylbenzene	109		125		70	130	16	25	

LCS- Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicates out of Limit

QUANTITATION REPORT

EPA Method TO-12 Total Non-Methane Hydrocarbons

	LCS	LCD	STD		
File Name:	**QC04015A**	**QC04015B**	**C04015A**		DAB:
SDG:	**LABQC**	**LABQC**			
LCS EAS ID:	**QC04015A**	**QC04015B**			
Time:	**8:04**	**7:54**			
Date Analyzed:	**04/01/25**				
QCBatch:	**040125-GCK**	Method:	**TO-12**	TO-14	
Hexane Con Cal:	**390567**			TO-03	
Standard:	**ST62344**	Not Detected Flag:	**ND**	EPA 18	
Chem:	**TRG**	SF:	**2**	TO-12	
Matrix:	**AA**	Instrument:	**GCK**		
Can Factor:	**1.00**	Unit Factor	**20**		
Volume:	**1.00**	ml			

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	A LCS Area	B LCD Area
109-66-0	n-Pentane	10	P	**6.44**	**6.44**	**6.44**	**13442**	**15563**
110-54-3	n-Hexane	19	P	**7.83**	**7.83**	**7.83**	**19801**	**21796**
71-43-2	Benzene	27	P	**8.77**	**8.77**	**8.77**	**21261**	**24969**
142-82-5	n-Heptane	36	P	9.53	9.53	9.53	**21576**	**24836**
108-88-3	Toluene	43	P	**10.43**	**10.43**	**10.43**	**24310**	**29552**
111-65-9	n-Octane	53	P	11.26	11.26	11.26	**26936**	**32218**
108-38-3	m,p-xylene	57	P	12.40	12.40	12.40	**34427**	**39982**
95-47-6	o-xylene	63	P	12.81	12.81	12.81	**36897**	**40926**
108-67-8	1,3,5-Trimethylbenzene	72	P	14.00	14.00	14.00	**60212**	**68907**

CALCULATIONS

EPA Method TO-12 Total Non-Methane Hydrocarbons

Calibration	03/20/24		
Can Dilution Factor:	1.00		
Air Volume:	1		
Combined Factor:	0.001	1000.00	Basis
Gas Constant:	23.68		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppmC	RESULTV ppmV	Result mg/m3
n-Pentane	72.1	5	77	15.5	47.1
n-Hexane	86.2	6	114	19.0	69.2
Benzene	78.1	6	122	20.4	67.3
n-Heptane	100.2	7	124	17.7	75.1
Toluene	92.1	7	140	20.0	77.8
n-Octane	114.2	8	155	19.4	93.5
m,p-xylene	106.2	8	198	24.8	111.1
o-xylene	106.2	8	212	26.6	119.1
1,3,5-Trimethylbenzene	120.2	9	347	38.5	195.5

Compound	M.W.	Carbon #	Result ppmC	RESULTV ppmV
n-Pentane	72.1	5	90	17.9
n-Hexane	86.2	6	125	20.9
Benzene	78.1	6	144	24.0
n-Heptane	100.2	7	143	20.4
Toluene	92.1	7	170	24.3
n-Octane	114.2	8	186	23.2
m,p-xylene	106.2	8	230	28.8
o-xylene	106.2	8	236	29.5
1,3,5-Trimethylbenzene	120.2	9	397	44.1

QUALITY CONTROL REPORT

EPA Method TO-12 Total Non-Methane Hydrocarbons

LCS QC04015A **LCD** QC04015B

Date Analyzed: 04/01/25

QC_Batch: 040125-GCK

CAS#	Compound	MW	Spike PPBV	LCS ppbv	LCS ppbv	LCS %	LCL %	UCL %	Flag	LCD %	CL %	Flag
109-66-0	n-Pentane	72.1	16.4	15.5	15.5	94.1	70	130		14.8	25	
110-54-3	n-Hexane	86.2	19.8	19.0	19.0	96.0	70	130		9.7	25	
71-43-2	Benzene	78.1	21.3	20.4	20.4	95.7	70	130		16.7	25	
142-82-5	n-Heptane	100.2	18.5	17.7	17.7	95.9	70	130		14.5	25	
108-88-3	Toluene	92.1	21.0	20.0	20.0	95.2	70	130		20.5	25	
111-65-9	n-Octane	114.2	20.3	19.4	19.4	95.4	70	130		18.7	25	
108-38-3	m,p-xylene	106.2	25.0	24.8	24.8	99.3	70	130		16.0	25	
95-47-6	o-xylene	106.2	26.5	26.6	26.6	100.1	70	130		10.9	25	
108-67-8	1,3,5-Trimethylbenzene	120.2	35.3	38.5	38.5	109.3	70	130		15.8	25	

CAS#	Compound	MW	Spike Con PPBV	LCD ppbv	LCD ppbv	LCD %	LCL %	UCL %	Flag
109-66-0	n-Pentane	72.1	16.4	17.9	17.9	109.0	70	130	
110-54-3	n-Hexane	86.2	19.8	20.9	20.9	105.7	70	130	
71-43-2	Benzene	78.1	21.3	24.0	24.0	112.3	70	130	
142-82-5	n-Heptane	100.2	18.5	20.4	20.4	110.4	70	130	
108-88-3	Toluene	92.1	21.0	24.3	24.3	115.7	70	130	
111-65-9	n-Octane	114.2	20.3	23.2	23.2	114.1	70	130	
108-38-3	m,p-xylene	106.2	25.0	28.8	28.8	115.3	70	130	
95-47-6	o-xylene	106.2	26.5	29.5	29.5	111.0	70	130	
108-67-8	1,3,5-Trimethylbenzene	120.2	35.3	44.1	44.1	125.0	70	130	

Area Percent Report

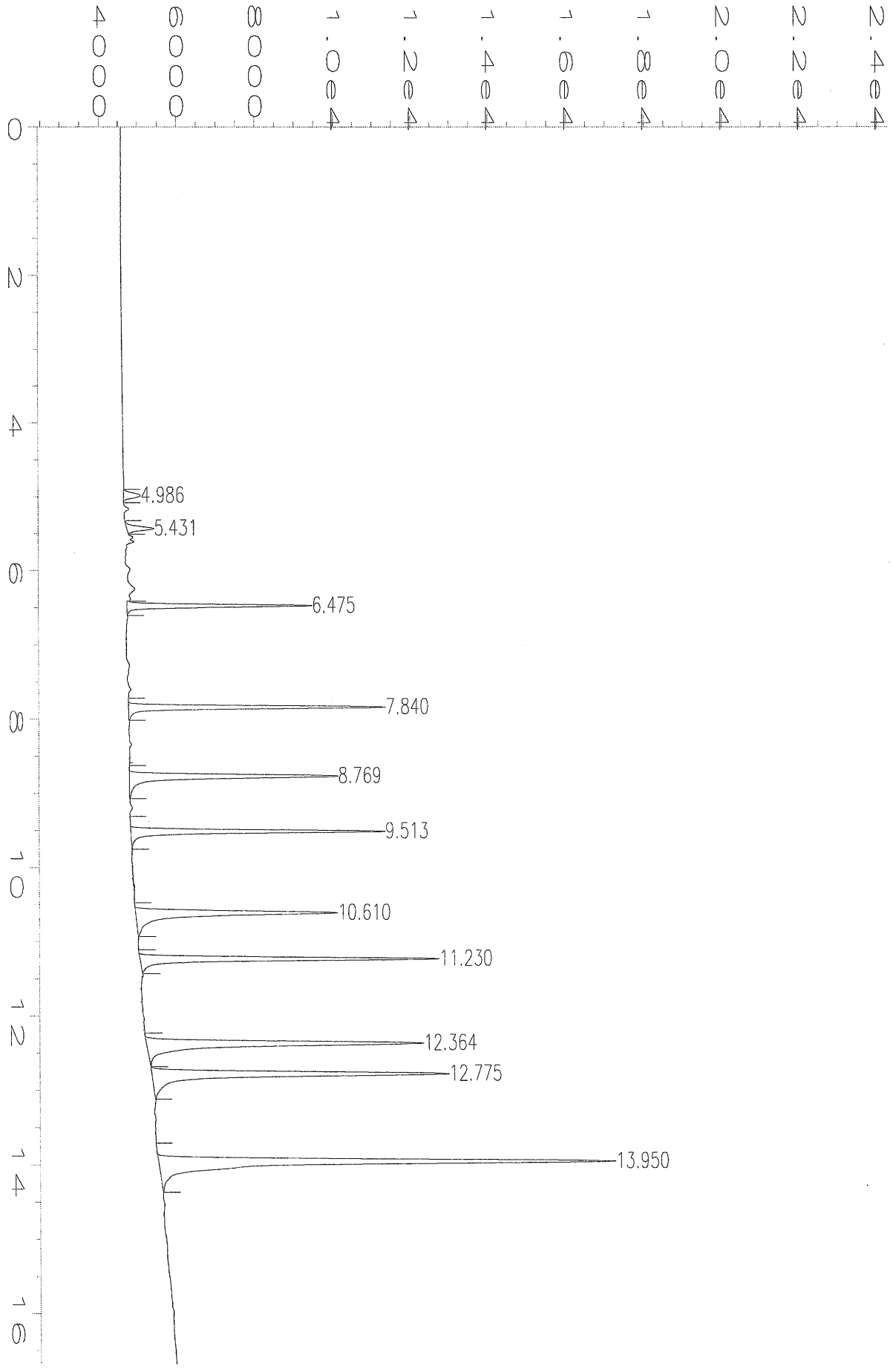
Data File Name : C:\HPCHEM\1\DATA\04015K\QC04015A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62529
Run Time Bar Code:
Acquired on : 01 Apr 25 08:04 AM
Report Created on: 01 Apr 25 08:21 AM
Sample Info :

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04015K\QC04015A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.986	2053	443	BB	0.064	0.7787
2	5.431	2682	691	BV	0.060	1.0174
3	6.475	13442	4748	VB	0.044	5.0987
4	7.840	19801	6590	BV	0.046	7.5109
5	8.769	21261	5343	BB	0.061	8.0645
6	9.513	21576	6515	BB	0.050	8.1842
7	10.610	24347	5166	BB	0.069	9.2351
8	11.230	26936	7689	BV	0.054	10.2171
9	12.364	34427	7105	BB	0.073	13.0587
10	12.775	36897	7651	BB	0.074	13.9956
11	13.950	60212	11728	BB	0.076	22.8393

Total area = 263633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2.2e4
2.4e4
0
2
4
6
8
10
12
14
16
4.986
5.431
6.475
7.840
8.769
9.513
10.610
11.230
12.364
12.775
13.950
C:\HPCHEM\1\DATA\ZBSKNQCO401SA.D

Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04015K\QC04015B.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62529
Run Time Bar Code:
Acquired on : 01 Apr 25 08:39 AM
Report Created on: 01 Apr 25 09:04 AM

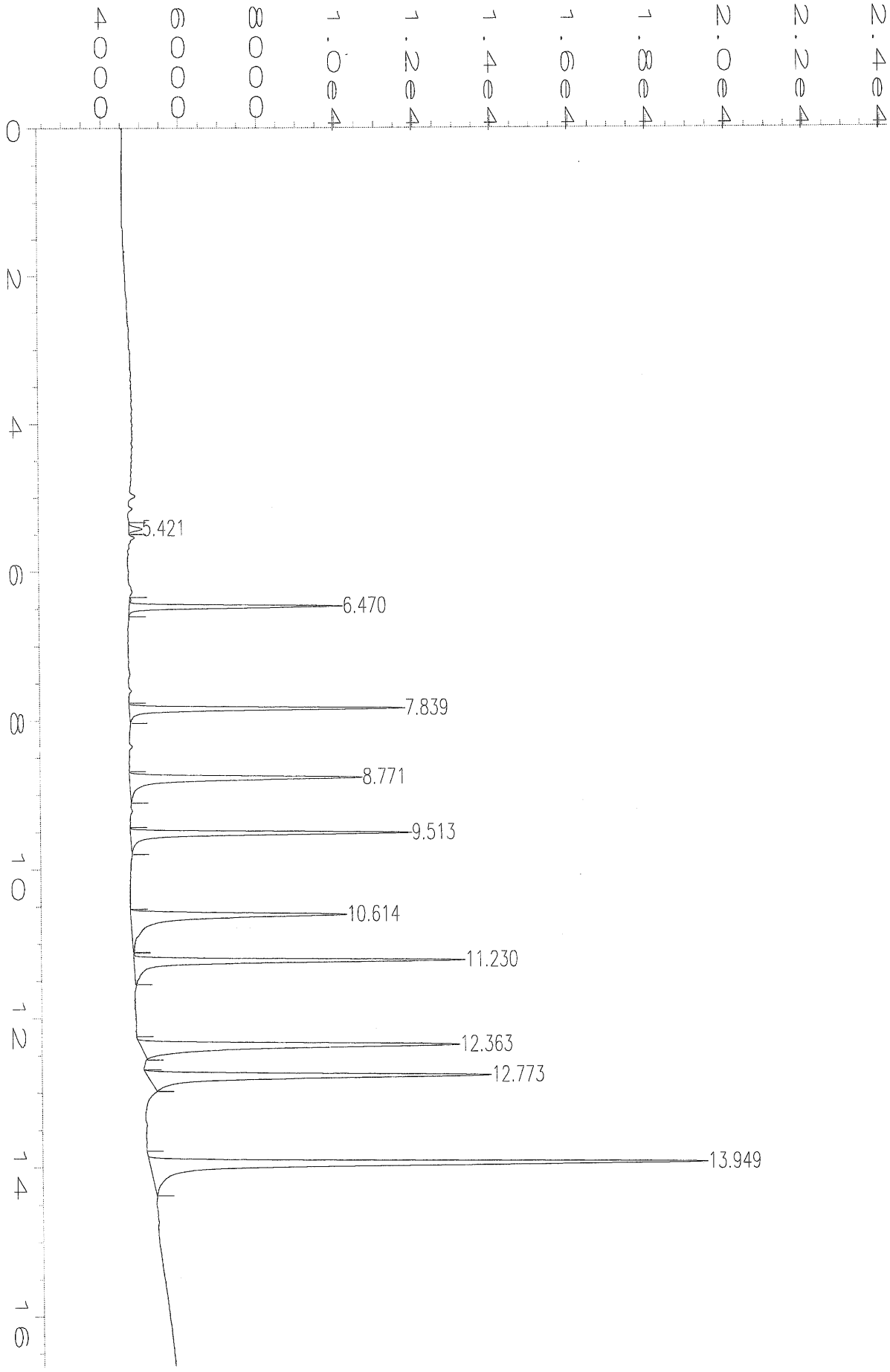
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04015K\QC04015B.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.421	1169	336	BV	0.051	0.3897
2	6.470	15563	5468	BB	0.044	5.1891
3	7.839	21796	7065	BB	0.047	7.2673
4	8.771	24969	5956	BB	0.062	8.3254
5	9.513	24836	7207	BB	0.052	8.2808
6	10.614	29552	5519	BB	0.077	9.8534
7	11.230	32218	8487	BF	0.058	10.7423
8	12.363	39982	8177	MM	0.081	13.3310
9	12.773	40926	8811	MM	0.077	13.6456
10	13.949	68907	14295	BB	0.073	22.9753

Total area = 299916

User Modified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0
2
4
6
8
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User modified
C:\HPCHEM\1\DATA\ZDK\QCO401 5B.D

QUALITY CONTROL SPIKE

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

EPA Method TO-12 Total Non-Methane Hydrocarbons

QC_Batch: 040225-GCK
Date: 04/02/25

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
109-66-0	n-Pentane	101		109		70	130	8	25	
110-54-3	n-Hexane	104		102		70	130	2	25	
71-43-2	Benzene	103		103		70	130	0	25	
142-82-5	n-Heptane	101		108		70	130	7	25	
108-88-3	Toluene	97		106		70	130	10	25	
111-65-9	n-Octane	103		111		70	130	8	25	
108-38-3	m,p-xylene	99		108		70	130	9	25	
95-47-6	o-xylene	104		111		70	130	7	25	
108-67-8	1,3,5-Trimethylbenzene	100		97		70	130	3	25	

LCS- Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicates out of Limit

QUANTITATION REPORT

EPA Method TO-12 Total Non-Methane Hydrocarbons

	LCS	LCD	STD		
File Name:	**QC04025A**	**QC04025B**	**C04025A**		DAB:
SDG:	**LABQC**	**LABQC**			
LCS EAS ID:	**QC04025A**	**QC04025B**			
Time:	**8:26**	**9:00**			
Date Analyzed:	**04/02/25**				
QCBatch:	**040225-GCK**	Method:	**TO-12**	TO-14	
Hexane Con Cal:	**385895**			TO-03	
Standard:	**ST62344**	Not Detected Flag:	**ND**	EPA 18	
Chem:	**TRG**	SF:	**2**	TO-12	
Matrix:	**AA**	Instrument:	**GCK**		
Can Factor:	**1.00**	Unit Factor	**20**		
Volume:	**1.00**	ml			

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	A LCS Area	B LCD Area
109-66-0	n-Pentane	10	P	**6.44**	**6.44**	**6.44**	**14621**	**15835**
110-54-3	n-Hexane	19	P	**7.83**	**7.83**	**7.83**	**21749**	**21309**
71-43-2	Benzene	27	P	**8.77**	**8.77**	**8.77**	**22973**	**23081**
142-82-5	n-Heptane	36	P	9.53	9.53	9.53	**23084**	**24701**
108-88-3	Toluene	43	P	**10.43**	**10.43**	**10.43**	**24782**	**27291**
111-65-9	n-Octane	53	P	11.26	11.26	11.26	**29662**	**31959**
108-38-3	m,p-xylene	57	P	12.40	12.40	12.40	**34646**	**37884**
95-47-6	o-xylene	63	P	12.81	12.81	12.81	**39212**	**41956**
108-67-8	1,3,5-Trimethylbenzene	72	P	14.00	14.00	14.00	**55106**	**53231**

NAME(Mo/D)
0402
04025
C **A**
QC
QC
YR ANA
24 -GCK

A	1	5	9
B	2	6	
C	3	7	
	4	8	

Kryo RT	
12.014	1
15.568	2
17.24	3
18.745	4
20.477	5
21.595	6
23.284	7
23.886	8
25.724	9

CALCULATIONS

EPA Method TO-12 Total Non-Methane Hydrocarbons

Calibration	03/20/24		
Can Dilution Factor:	1.00		
Air Volume:	1		
Combined Factor:	0.001	1000.00	Basis
Gas Constant:	23.68		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppmC	RESULTV ppmV	Result mg/m3
n-Pentane	72.1	5	84	16.8	51.3
n-Hexane	86.2	6	125	20.9	76.0
Benzene	78.1	6	132	22.0	72.7
n-Heptane	100.2	7	133	19.0	80.3
Toluene	92.1	7	143	20.4	79.3
n-Octane	114.2	8	171	21.3	103.0
m,p-xylene	106.2	8	199	24.9	111.8
o-xylene	106.2	8	226	28.2	126.6
1,3,5-Trimethylbenzene	120.2	9	317	35.3	179.0

Compound	M.W.	Carbon #	Result ppmC	RESULTV ppmV
n-Pentane	72.1	5	91	18.2
n-Hexane	86.2	6	123	20.4
Benzene	78.1	6	133	22.1
n-Heptane	100.2	7	142	20.3
Toluene	92.1	7	157	22.4
n-Octane	114.2	8	184	23.0
m,p-xylene	106.2	8	218	27.3
o-xylene	106.2	8	242	30.2
1,3,5-Trimethylbenzene	120.2	9	306	34.1

QUALITY CONTROL REPORT

EPA Method TO-12 Total Non-Methane Hydrocarbons

LCS QC04025A **LCD** QC04025B

Date Analyzed: 04/02/25

QC_Batch: 040225-GCK

CAS#	Compound	MW	Spike PPBV	LCS ppbv	LCS ppbv	LCS %	LCL %	UCL %	Flag	LCD %	CL %	Flag
109-66-0	n-Pentane	72.1	16.7	16.8	16.8	100.9	70	130		8.4	25	
110-54-3	n-Hexane	86.2	20.0	20.9	20.9	104.4	70	130		2.1	25	
71-43-2	Benzene	78.1	21.5	22.0	22.0	102.5	70	130		0.5	25	
142-82-5	n-Heptane	100.2	18.8	19.0	19.0	101.2	70	130		7.1	25	
108-88-3	Toluene	92.1	21.1	20.4	20.4	96.6	70	130		9.8	25	
111-65-9	n-Octane	114.2	20.7	21.3	21.3	103.0	70	130		8.0	25	
108-38-3	m,p-xylene	106.2	25.2	24.9	24.9	98.9	70	130		9.2	25	
95-47-6	o-xylene	106.2	27.1	28.2	28.2	104.0	70	130		7.3	25	
108-67-8	1,3,5-Trimethylbenzene	120.2	35.1	35.3	35.3	100.4	70	130		3.4	25	

CAS#	Compound	MW	Spike Con PPBV	LCD ppbv	LCD ppbv	LCD %	LCL %	UCL %	Flag
109-66-0	n-Pentane	72.1	16.7	18.2	18.2	109.3	70	130	
110-54-3	n-Hexane	86.2	20.0	20.4	20.4	102.3	70	130	
71-43-2	Benzene	78.1	21.5	22.1	22.1	103.0	70	130	
142-82-5	n-Heptane	100.2	18.8	20.3	20.3	108.3	70	130	
108-88-3	Toluene	92.1	21.1	22.4	22.4	106.4	70	130	
111-65-9	n-Octane	114.2	20.7	23.0	23.0	111.0	70	130	
108-38-3	m,p-xylene	106.2	25.2	27.3	27.3	108.2	70	130	
95-47-6	o-xylene	106.2	27.1	30.2	30.2	111.3	70	130	
108-67-8	1,3,5-Trimethylbenzene	120.2	35.1	34.1	34.1	97.0	70	130	

Area Percent Report

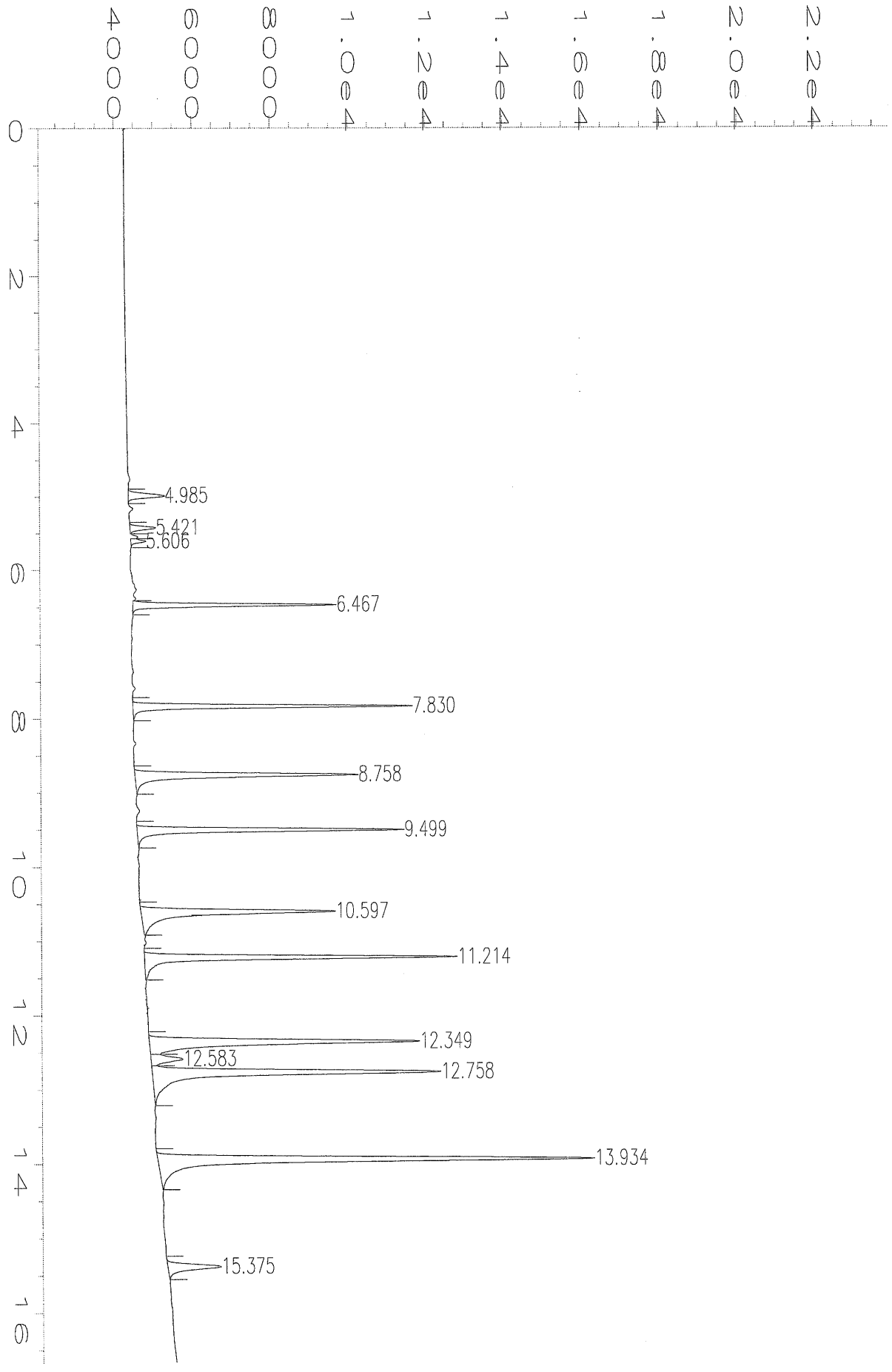
Data File Name : C:\HPCHEM\1\DATA\04025K\QC04025A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62529
Run Time Bar Code:
Acquired on : 02 Apr 25 08:26 AM
Report Created on: 02 Apr 25 08:43 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04025K\QC04025A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.985	3721	928	BB	0.064	1.3106
2	5.421	2169	662	BV	0.051	0.7639
3	5.606	1146	387	VB	0.046	0.4037
4	6.467	14621	5207	VB	0.044	5.1495
5	7.830	21749	7173	BB	0.047	7.6598
6	8.758	22973	5731	BB	0.061	8.0908
7	9.499	23084	6859	BB	0.052	8.1299
8	10.597	24782	4975	BV	0.073	8.7279
9	11.214	29662	8050	BB	0.056	10.4467
10	12.349	34646	6937	BV	0.074	12.2019
11	12.583	4262	813	VV	0.077	1.5011
12	12.758	39212	7427	VB	0.079	13.8100
13	13.934	55106	11216	BB	0.074	19.4078
14	15.375	6804	1370	BB	0.076	2.3963

Total area = 283936



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Area Percent Report

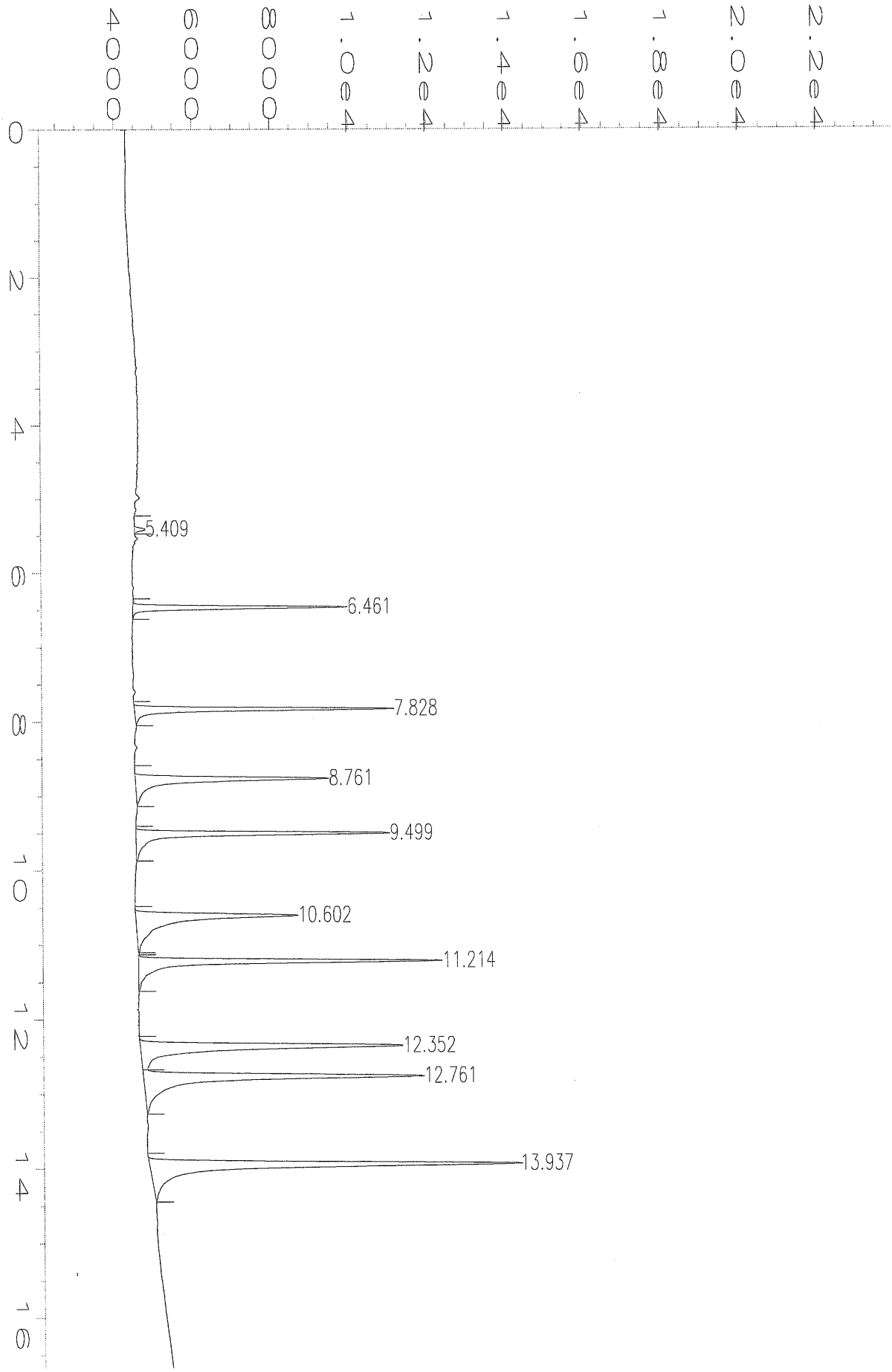
Data File Name : C:\HPCHEM\1\DATA\04025K\QC04025B.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62529
Run Time Bar Code:
Acquired on : 02 Apr 25 09:00 AM
Report Created on: 02 Apr 25 09:16 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04025K\QC04025B.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.409	732	278	BB	0.042	0.2634
2	6.461	15835	5493	BB	0.045	5.6965
3	7.828	21309	6659	BB	0.049	7.6658
4	8.761	23081	4954	BB	0.068	8.3031
5	9.499	24701	6503	BB	0.056	8.8861
6	10.602	27291	4151	BB	0.090	9.8177
7	11.214	31959	7766	BB	0.062	11.4970
8	12.352	37884	6711	BV	0.083	13.6282
9	12.761	41956	7190	VB	0.085	15.0931
10	13.937	53231	9542	BB	0.081	19.1491

Total area = 277980



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QUALITY CONTROL SPIKE

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

EPA Method TO-12 Total Non-Methane Hydrocarbons

QC_Batch: 040325-GCK
Date: 04/03/25

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
109-66-0	n-Pentane	110		106		70	130	4	25	
110-54-3	n-Hexane	107		102		70	130	6	25	
71-43-2	Benzene	111		104		70	130	8	25	
142-82-5	n-Heptane	107		102		70	130	5	25	
108-88-3	Toluene	107		96		70	130	11	25	
111-65-9	n-Octane	112		100		70	130	11	25	
108-38-3	m,p-xylene	109		98		70	130	11	25	
95-47-6	o-xylene	109		100		70	130	9	25	
108-67-8	1,3,5-Trimethylbenzene	117		99		70	130	18	25	

LCS- Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicates out of Limit

QUANTITATION REPORT

EPA Method TO-12 Total Non-Methane Hydrocarbons

	LCS	LCD	STD		
File Name:	**QC04035A**	**QC04035B**	**C04035A**		DAB:
SDG:	**LABQC**	**LABQC**			
LCS EAS ID:	**QC04035A**	**QC04035B**			
Time:	**8:26**	**9:09**			
Date Analyzed:	**04/03/25**				
QCBatch:	**040325-GCK**	Method:	**TO-12**	TO-14	
Hexane Con Cal:	**402031**			TO-03	
Standard:	**ST62344**	Not Detected Flag:	**ND**	EPA 18	
Chem:	**TRG**	SF:	**2**	TO-12	
Matrix:	**AA**	Instrument:	**GCK**		
Can Factor:	**1.00**	Unit Factor	**20**		
Volume:	**1.00** ml				

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	A LCS Area	B LCD Area
109-66-0	n-Pentane	10	P	**6.44**	**6.44**	**6.44**	**16294**	**15710**
110-54-3	n-Hexane	19	P	**7.83**	**7.83**	**7.83**	**22560**	**21347**
71-43-2	Benzene	27	P	**8.77**	**8.77**	**8.77**	**25373**	**23603**
142-82-5	n-Heptane	36	P	9.53	9.53	9.53	**24731**	**23519**
108-88-3	Toluene	43	P	**10.43**	**10.43**	**10.43**	**27596**	**24803**
111-65-9	n-Octane	53	P	11.26	11.26	11.26	**32692**	**29337**
108-38-3	m,p-xylene	57	P	12.40	12.40	12.40	**38514**	**34540**
95-47-6	o-xylene	63	P	12.81	12.81	12.81	**41725**	**38255**
108-67-8	1,3,5-Trimethylbenzene	72	P	14.00	14.00	14.00	**65447**	**55178**

NAME(Mo/D)
0403
04035
C **A**
QC
QC
YR ANA
24 -GCK

A	1	5	9
B	2	6	
C	3	7	
	4	8	

Kryo
RT

12.014	1
15.568	2
17.24	3
18.745	4
20.477	5
21.595	6
23.284	7
23.886	8
25.724	9

CALCULATIONS

EPA Method TO-12 Total Non-Methane Hydrocarbons

Calibration	03/20/24		
Can Dilution Factor:	1.00		
Air Volume:	1		
Combined Factor:	0.001	1000.00	Basis
Gas Constant:	23.68		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppmC	RESULTV ppmV	Result mg/m3
n-Pentane	72.1	5	94	18.8	57.1
n-Hexane	86.2	6	130	21.6	78.8
Benzene	78.1	6	146	24.3	80.3
n-Heptane	100.2	7	142	20.3	86.1
Toluene	92.1	7	159	22.7	88.3
n-Octane	114.2	8	188	23.5	113.5
m,p-xylene	106.2	8	222	27.7	124.3
o-xylene	106.2	8	240	30.0	134.7
1,3,5-Trimethylbenzene	120.2	9	377	41.9	212.5

Compound	M.W.	Carbon #	Result ppmC	RESULTV ppmV
n-Pentane	72.1	5	90	18.1
n-Hexane	86.2	6	123	20.5
Benzene	78.1	6	136	22.7
n-Heptane	100.2	7	135	19.3
Toluene	92.1	7	143	20.4
n-Octane	114.2	8	169	21.1
m,p-xylene	106.2	8	199	24.9
o-xylene	106.2	8	220	27.5
1,3,5-Trimethylbenzene	120.2	9	318	35.3

QUALITY CONTROL REPORT

EPA Method TO-12 Total Non-Methane Hydrocarbons

LCS QC04035A **LCD** QC04035B

Date Analyzed: 04/03/25

QC_Batch: 040325-GCK

CAS#	Compound	MW	Spike PPBV	LCS ppbv	LCS ppbv	LCS %	LCL %	UCL %	Flag	LCD %	CL %	Flag
109-66-0	n-Pentane	72.1	17.0	18.8	18.8	110.3	70	130		4.0	25	
110-54-3	n-Hexane	86.2	20.2	21.6	21.6	107.3	70	130		5.8	25	
71-43-2	Benzene	78.1	21.9	24.3	24.3	111.4	70	130		7.8	25	
142-82-5	n-Heptane	100.2	19.0	20.3	20.3	107.3	70	130		5.3	25	
108-88-3	Toluene	92.1	21.2	22.7	22.7	107.2	70	130		10.8	25	
111-65-9	n-Octane	114.2	21.0	23.5	23.5	111.9	70	130		11.5	25	
108-38-3	m,p-xylene	106.2	25.4	27.7	27.7	109.1	70	130		11.3	25	
95-47-6	o-xylene	106.2	27.4	30.0	30.0	109.5	70	130		9.1	25	
108-67-8	1,3,5-Trimethylbenzene	120.2	35.8	41.9	41.9	117.1	70	130		18.4	25	

CAS#	Compound	MW	Spike Con PPBV	LCD ppbv	LCD ppbv	LCD %	LCL %	UCL %	Flag
109-66-0	n-Pentane	72.1	17.0	18.1	18.1	106.4	70	130	
110-54-3	n-Hexane	86.2	20.2	20.5	20.5	101.5	70	130	
71-43-2	Benzene	78.1	21.9	22.7	22.7	103.6	70	130	
142-82-5	n-Heptane	100.2	19.0	19.3	19.3	102.1	70	130	
108-88-3	Toluene	92.1	21.2	20.4	20.4	96.3	70	130	
111-65-9	n-Octane	114.2	21.0	21.1	21.1	100.5	70	130	
108-38-3	m,p-xylene	106.2	25.4	24.9	24.9	97.9	70	130	
95-47-6	o-xylene	106.2	27.4	27.5	27.5	100.4	70	130	
108-67-8	1,3,5-Trimethylbenzene	120.2	35.8	35.3	35.3	98.7	70	130	

Area Percent Report

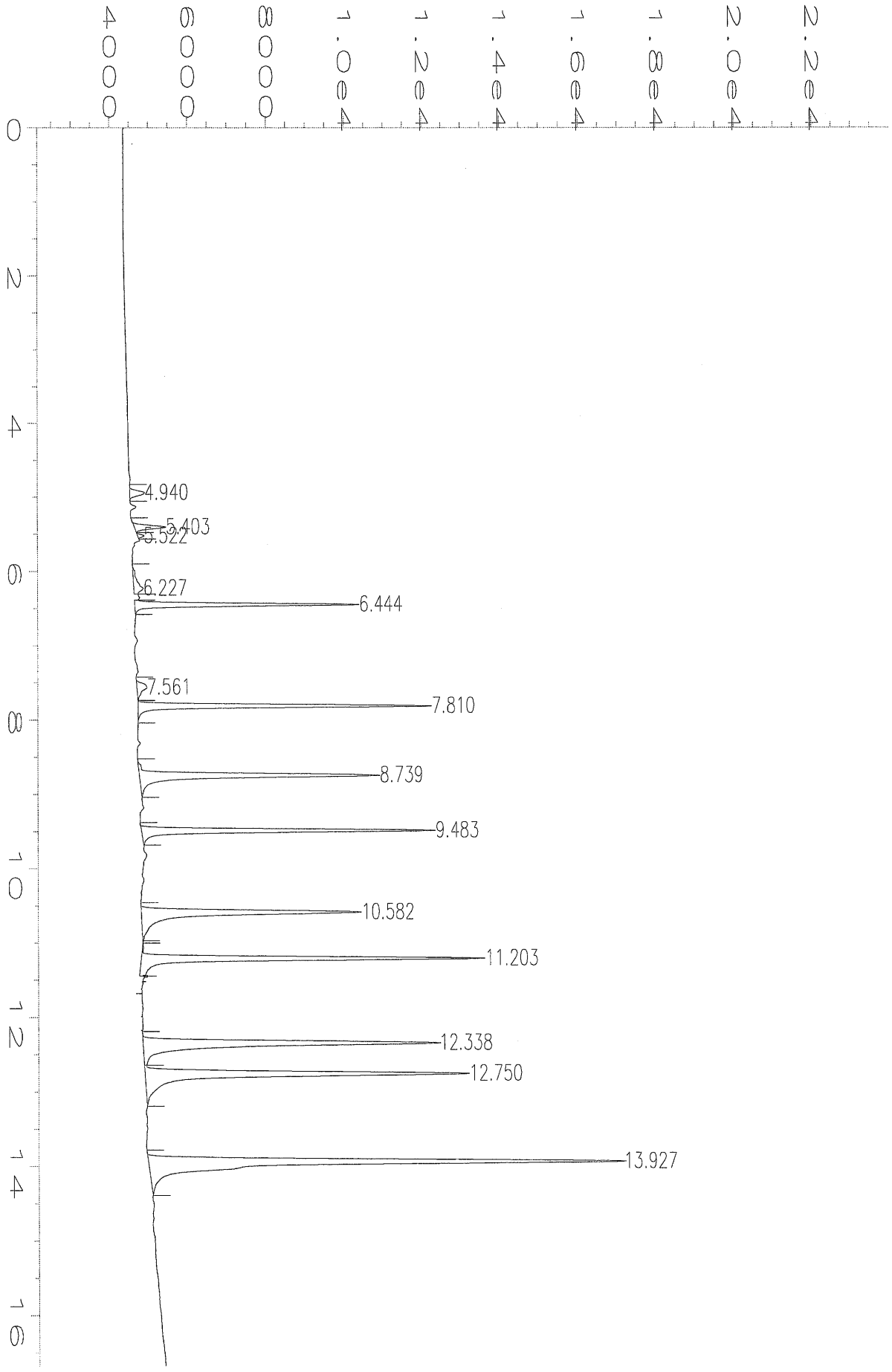
Data File Name : C:\HPCHEM\1\DATA\04035K\QC04035A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62529
Run Time Bar Code:
Acquired on : 03 Apr 25 08:33 AM
Report Created on: 03 Apr 25 08:50 AM
Sample Info :

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04035K\QC04035A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.940	1726	377	BB	0.073	0.5682
2	5.403	2647	808	BV	0.052	0.8713
3	5.522	389	169	VV	0.036	0.1282
4	6.227	2178	237	BV	0.119	0.7170
5	6.444	16294	5732	VB	0.044	5.3638
6	7.561	1906	258	BB	0.095	0.6276
7	7.810	22560	7521	BB	0.047	7.4264
8	8.739	25373	6148	BB	0.062	8.3526
9	9.483	24731	7538	BB	0.050	8.1410
10	10.582	27596	5622	BB	0.073	9.0841
11	11.203	32692	8812	BV	0.056	10.7618
12	12.338	38514	7634	BV	0.075	12.6783
13	12.750	41725	8298	VB	0.075	13.7353
14	13.927	65447	12215	BB	0.079	21.5444

Total area = 303778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Area Percent Report

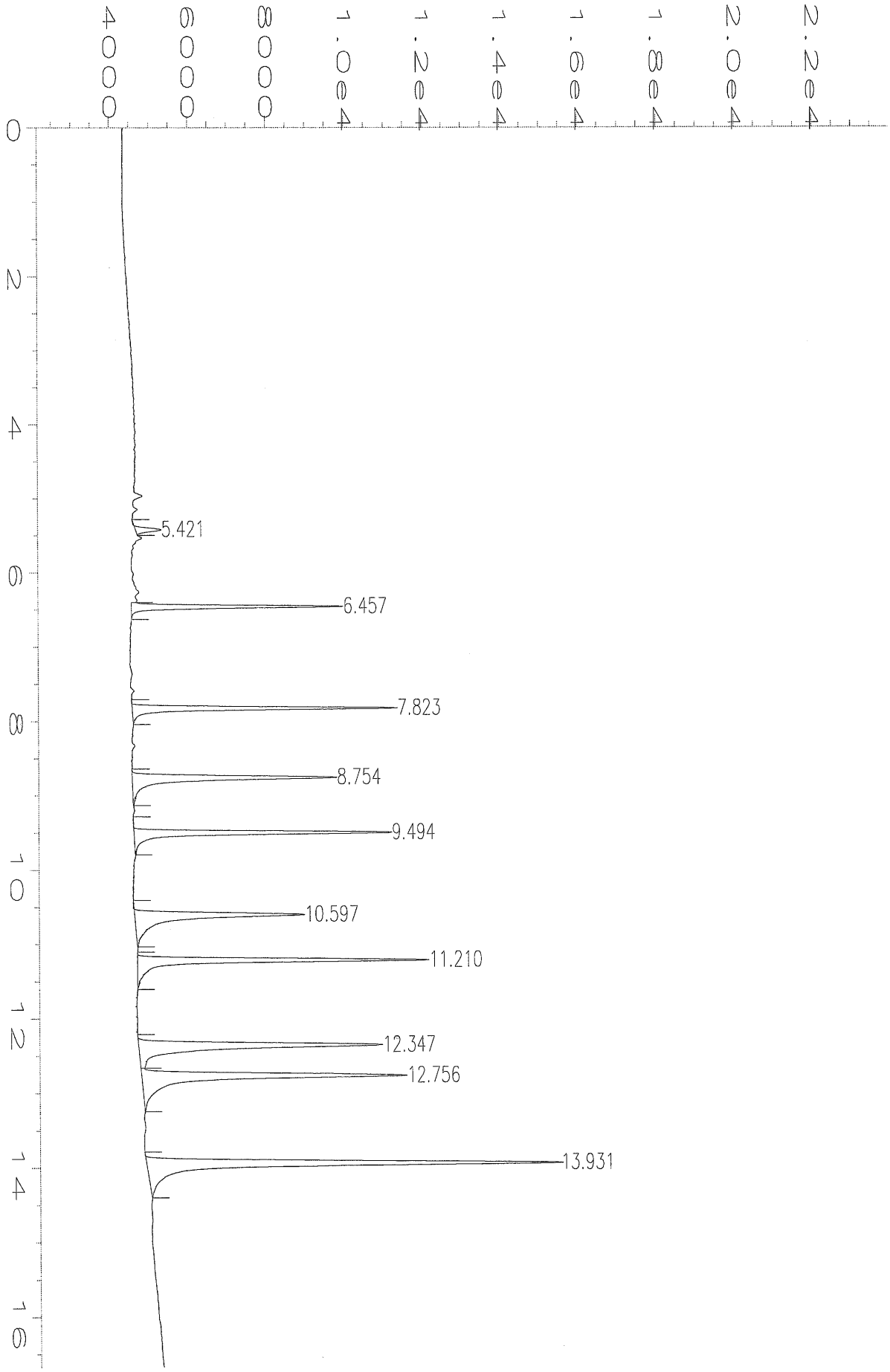
Data File Name : C:\HPCHEM\1\DATA\04035K\QC04035B.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62529
Run Time Bar Code:
Acquired on : 03 Apr 25 09:09 AM
Report Created on: 03 Apr 25 09:25 AM
Sample Info :

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04035K\QC04035B.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.421	2138	658	BV	0.052	0.7966
2	6.457	15710	5408	VB	0.045	5.8524
3	7.823	21347	6789	BB	0.048	7.9525
4	8.754	23603	5235	BB	0.067	8.7929
5	9.494	23519	6591	BB	0.053	8.7616
6	10.597	24803	4350	BB	0.081	9.2399
7	11.210	29337	7463	BB	0.059	10.9291
8	12.347	34540	6241	BV	0.079	12.8676
9	12.756	38255	6798	VB	0.082	14.2515
10	13.931	55178	10683	BB	0.075	20.5558

Total area = 268428



C:\HPCHEM\1\DATA\2015KW\QC04035B.D

QUALITY CONTROL SPIKE

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

EPA Method TO-12 Total Non-Methane Hydrocarbons

QC_Batch: 040825-GCK
Date: 04/08/25

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
109-66-0	n-Pentane	105		104		70	130	1	25	
110-54-3	n-Hexane	105		104		70	130	1	25	
71-43-2	Benzene	107		106		70	130	1	25	
142-82-5	n-Heptane	105		106		70	130	2	25	
108-88-3	Toluene	109		108		70	130	1	25	
111-65-9	n-Octane	105		103		70	130	2	25	
108-38-3	m,p-xylene	107		102		70	130	6	25	
95-47-6	o-xylene	109		102		70	130	7	25	
108-67-8	1,3,5-Trimethylbenzene	107		103		70	130	4	25	

LCS- Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicates out of Limit

QUANTITATION REPORT

EPA Method TO-12 Total Non-Methane Hydrocarbons

	LCS	LCD	STD		
File Name:	**QC04085A**	**QC04085B**	**C04085A**		DAB:
SDG:	**LABQC**	**LABQC**			
LCS EAS ID:	**QC04085A**	**QC04085B**			
Time:	**8:26**	**9:09**			
Date Analyzed:	**04/08/25**				
QCBatch:	**040825-GCK**	Method:	**TO-12**	TO-14	
Hexane Con Cal:	**402031**			TO-03	
Standard:	**ST62344**	Not Detected Flag:	**ND**	EPA 18	
Chem:	**TRG**	SF:	**2**	TO-12	
Matrix:	**AA**	Instrument:	**GCK**		
Can Factor:	**1.00**	Unit Factor	**20**		
Volume:	**1.00** ml				

CAS#	Compound		PAMS	STD RT	Corrected RT	Samp RT	A LCS Area	B LCD Area
109-66-0	n-Pentane	10	P	**6.44**	**6.44**	**6.44**	**15451**	**15343**
110-54-3	n-Hexane	19	P	**7.83**	**7.83**	**7.83**	**22133**	**21867**
71-43-2	Benzene	27	P	**8.77**	**8.77**	**8.77**	**24403**	**24123**
142-82-5	n-Heptane	36	P	9.53	9.53	9.53	**24131**	**24495**
108-88-3	Toluene	43	P	**10.43**	**10.43**	**10.43**	**28067**	**27886**
111-65-9	n-Octane	53	P	11.26	11.26	11.26	**30740**	**30189**
108-38-3	m,p-xylene	57	P	12.40	12.40	12.40	**37859**	**35856**
95-47-6	o-xylene	63	P	12.81	12.81	12.81	**41365**	**38745**
108-67-8	1,3,5-Trimethylbenzene	72	P	14.00	14.00	14.00	**60016**	**57633**

NAME(Mo/D)
0408
04085
C **A**
QC
QC
YR ANA
24 -GCK

A	1	5	9
B	2	6	
C	3	7	
	4	8	

Kryo
RT

12.014	1
15.568	2
17.24	3
18.745	4
20.477	5
21.595	6
23.284	7
23.886	8
25.724	9

CALCULATIONS

EPA Method TO-12 Total Non-Methane Hydrocarbons

Calibration	03/20/24		
Can Dilution Factor:	1.00		
Air Volume:	1		
Combined Factor:	0.001	1000.00	Basis
Gas Constant:	23.68		
Decimal Places:	2		

Compound	M.W.	Carbon #	Result ppmC	RESULTV ppmV	Result mg/m3
n-Pentane	72.1	5	89	17.8	54.2
n-Hexane	86.2	6	127	21.2	77.3
Benzene	78.1	6	141	23.4	77.2
n-Heptane	100.2	7	139	19.8	84.0
Toluene	92.1	7	162	23.1	89.8
n-Octane	114.2	8	177	22.1	106.7
m,p-xylene	106.2	8	218	27.2	122.2
o-xylene	106.2	8	238	29.8	133.5
1,3,5-Trimethylbenzene	120.2	9	346	38.4	194.9

Compound	M.W.	Carbon #	Result ppmC	RESULTV ppmV
n-Pentane	72.1	5	88	17.7
n-Hexane	86.2	6	126	21.0
Benzene	78.1	6	139	23.1
n-Heptane	100.2	7	141	20.1
Toluene	92.1	7	161	22.9
n-Octane	114.2	8	174	21.7
m,p-xylene	106.2	8	206	25.8
o-xylene	106.2	8	223	27.9
1,3,5-Trimethylbenzene	120.2	9	332	36.9

QUALITY CONTROL REPORT

EPA Method TO-12 Total Non-Methane Hydrocarbons

LCS QC04085A **LCD** QC04085B

Date Analyzed: 04/08/25

QC_Batch: 040825-GCK

CAS#	Compound	MW	Spike PPBV	LCS ppbv	LCS ppbv	LCS %	LCL %	UCL %	Flag	LCD %	CL %	Flag
109-66-0	n-Pentane	72.1	17.0	17.8	17.8	104.6	70	130		0.7	25	
110-54-3	n-Hexane	86.2	20.2	21.2	21.2	105.3	70	130		1.3	25	
71-43-2	Benzene	78.1	21.9	23.4	23.4	107.1	70	130		1.2	25	
142-82-5	n-Heptane	100.2	19.0	19.8	19.8	104.7	70	130		1.6	25	
108-88-3	Toluene	92.1	21.2	23.1	23.1	109.0	70	130		0.7	25	
111-65-9	n-Octane	114.2	21.0	22.1	22.1	105.3	70	130		1.9	25	
108-38-3	m,p-xylene	106.2	25.4	27.2	27.2	107.3	70	130		5.7	25	
95-47-6	o-xylene	106.2	27.4	29.8	29.8	108.5	70	130		6.9	25	
108-67-8	1,3,5-Trimethylbenzene	120.2	35.8	38.4	38.4	107.4	70	130		4.3	25	

CAS#	Compound	MW	Spike Con PPBV	LCD ppbv	LCD ppbv	LCD %	LCL %	UCL %	Flag
109-66-0	n-Pentane	72.1	17.0	17.7	17.7	103.9	70	130	
110-54-3	n-Hexane	86.2	20.2	21.0	21.0	104.0	70	130	
71-43-2	Benzene	78.1	21.9	23.1	23.1	105.9	70	130	
142-82-5	n-Heptane	100.2	19.0	20.1	20.1	106.3	70	130	
108-88-3	Toluene	92.1	21.2	22.9	22.9	108.3	70	130	
111-65-9	n-Octane	114.2	21.0	21.7	21.7	103.4	70	130	
108-38-3	m,p-xylene	106.2	25.4	25.8	25.8	101.6	70	130	
95-47-6	o-xylene	106.2	27.4	27.9	27.9	101.7	70	130	
108-67-8	1,3,5-Trimethylbenzene	120.2	35.8	36.9	36.9	103.1	70	130	

CONTINUING CALIBRATION REPORT

QC_Batch: 040825-GCK
Standard ID: C04085A
Sample Analysis Date: 04/08/25
Cal Update: 03/20/24
Standard Concentration 18.05
Calibration Level: Level 5 1.0 ml
Calibration RF: 20841 E18 for Intial Calbiration
Standard: ST62344

Sample Calculation:

1) Avg RFn = Sum $\left|\frac{(Astdni)}{(Cstdni)}\right|_i$

Compound	Area Astdi	Cal Level Cstdi ppbv	CCRRF	AvgRFn	ICal RFn C Ratio	%Dev	%Dev Limit	%Dev Flag
Hexane	402031	18.050	22273	20841	2.08E+04	6.9	30	IN

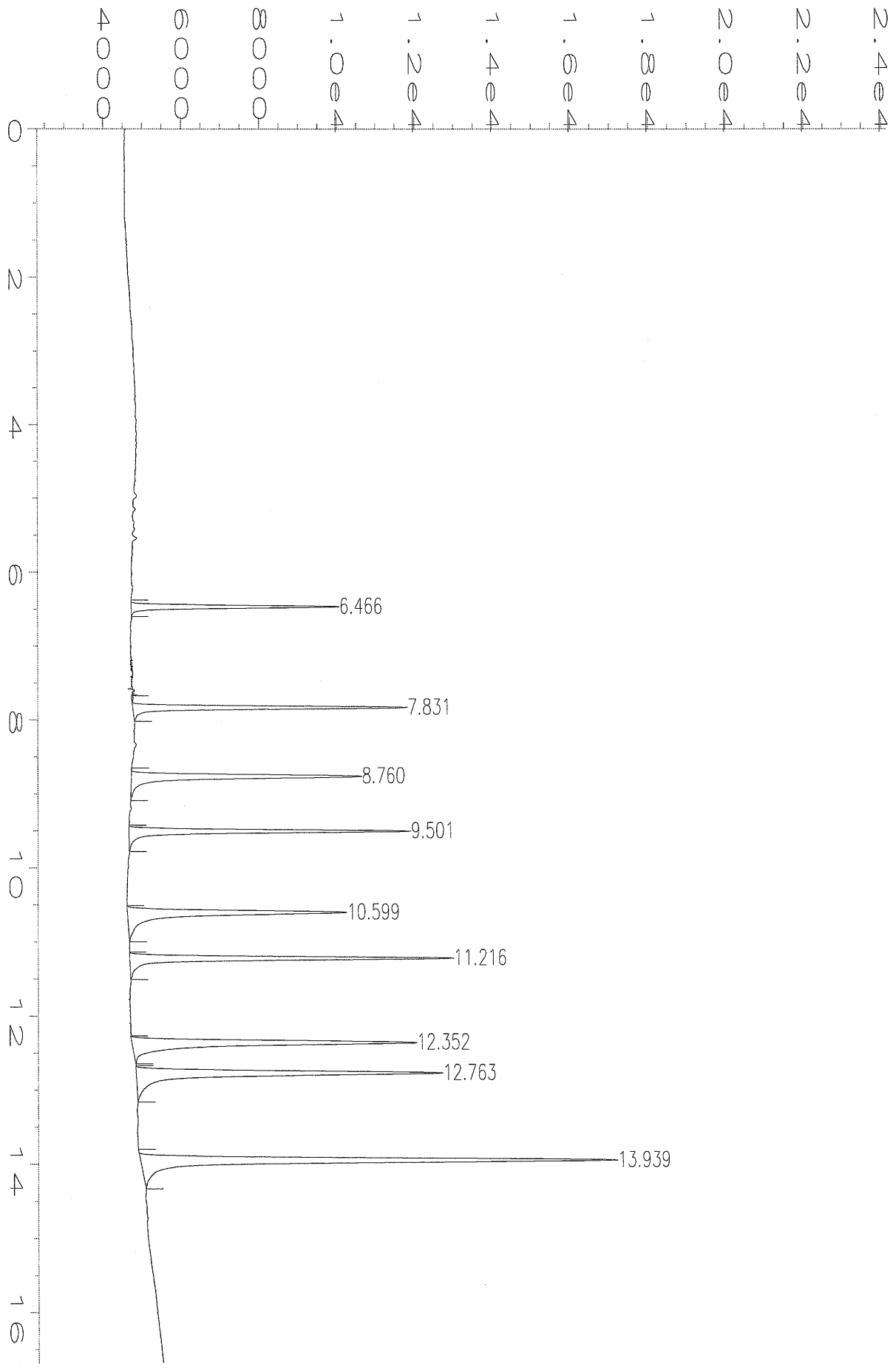
Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\04085K\QC04085B.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62529
Run Time Bar Code:
Acquired on : 08 Apr 25 10:01 AM
Report Created on: 08 Apr 25 10:18 AM
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04085K\QC04085B.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	6.466	15343	5353	BB	0.044	5.5562
2	7.831	21867	7072	PB	0.047	7.9190
3	8.760	24123	5922	BB	0.061	8.7357
4	9.501	24495	7251	BB	0.052	8.8707
5	10.599	27886	5640	BB	0.072	10.0986
6	11.216	30189	8319	BB	0.055	10.9327
7	12.352	35856	7315	BB	0.073	12.9848
8	12.763	38745	7874	BB	0.074	14.0312
9	13.939	57633	12256	BB	0.070	20.8711

Total area = 276137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Area Percent Report

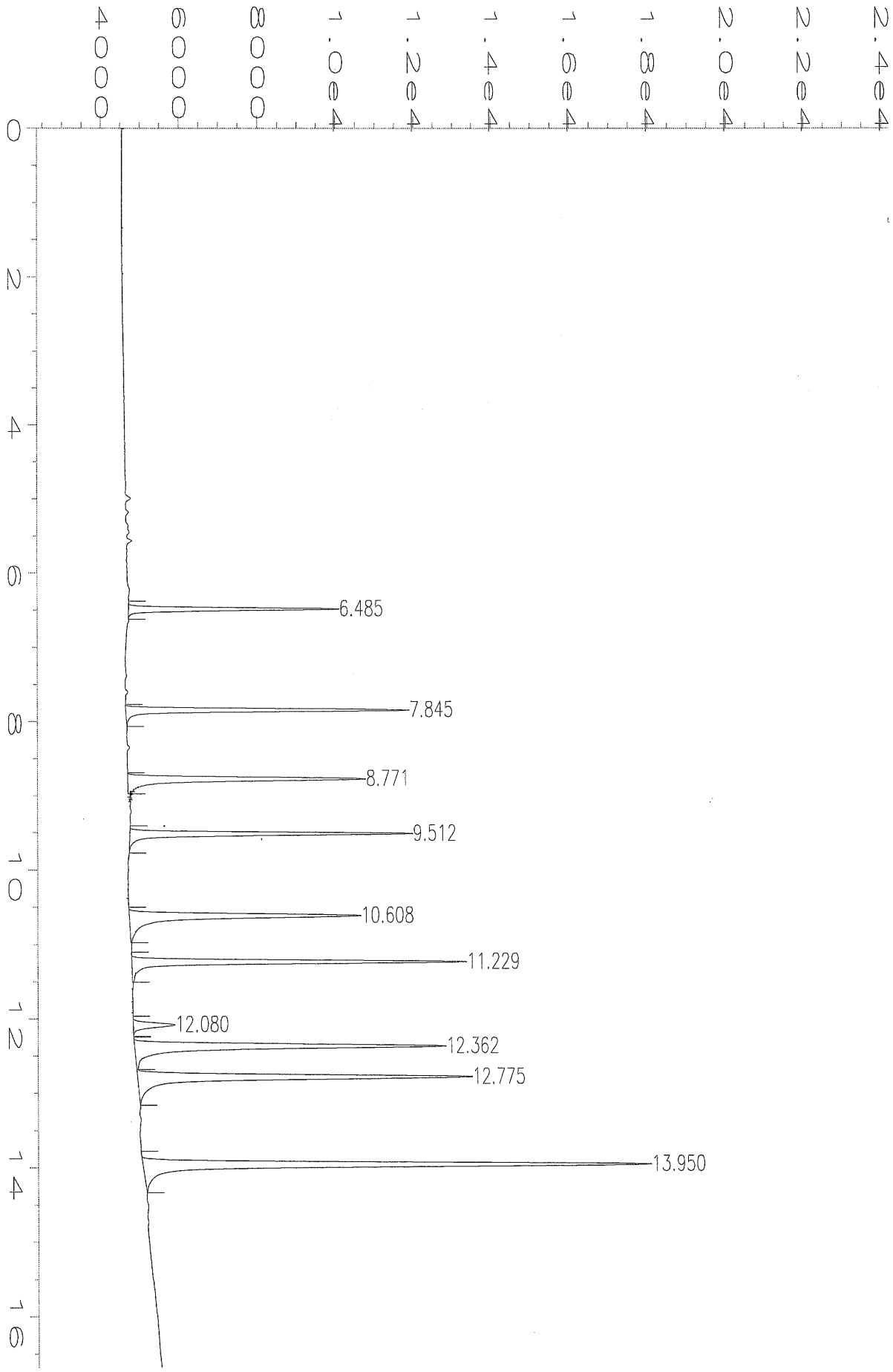
Data File Name : C:\HPCHEM\1\DATA\04085K\QC04085A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62529
Run Time Bar Code:
Acquired on : 08 Apr 25 09:27 AM
Report Created on: 08 Apr 25 09:43 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04085K\QC04085A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	6.485	15451	5398	BB	0.045	5.3494
2	7.845	22133	7277	BB	0.047	7.6627
3	8.771	24403	6098	BV	0.061	8.4485
4	9.512	24131	7269	BB	0.051	8.3546
5	10.608	28067	5932	BB	0.069	9.7172
6	11.229	30740	8605	BB	0.055	10.6427
7	12.080	4676	1074	BB	0.064	1.6188
8	12.362	37859	7981	BV	0.072	13.1071
9	12.775	41365	8585	VB	0.072	14.3209
10	13.950	60016	13009	BB	0.070	20.7782

Total area = 288842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Continuing Calibration Data Package

Samples are analyzed in a Daily Analytical Batch (DAB) on an instrument. The DAB identifier is on each analytial report in the field called QC Batch. There will be one Continuing Calibration QC Batch report for each DAB in this SDG.

Index

Analytical Report
Quantitation Report
Calculations
Sample Calculations
Chromatogram

CALIBRATION REPORT

GC/FID Methods EPA TO-03, EPA TO-12, EPA-TO15 FID, EPA-TO-14 , EPA 18 M

SDG:	**LABQC**	
QC_Batch:	**032725-GCK**	
Date:	03/27/25	
Cal Update:	03/25/25	
Standard	18.05	
Calibration Level	Level 5	1.0
calibration RF	23534	
Standard ID:	ST62344	

Sample Calculation:

1) $RRF = \frac{(Astdni)}{(Cstdni)}$

For EPA PAMS Method the Concentrations of Individual Compounds are Calculated form Daily Hexane Std.

Compound	Area Astdi	Cal Level Cstdi ppbv	Daily RRF	ICAL RRF	%DEV	%DEV LIMIT	%DEV FLAG
Hexane	364105	18.050	20172	23534	-14.3	30	IN

Area Percent Report

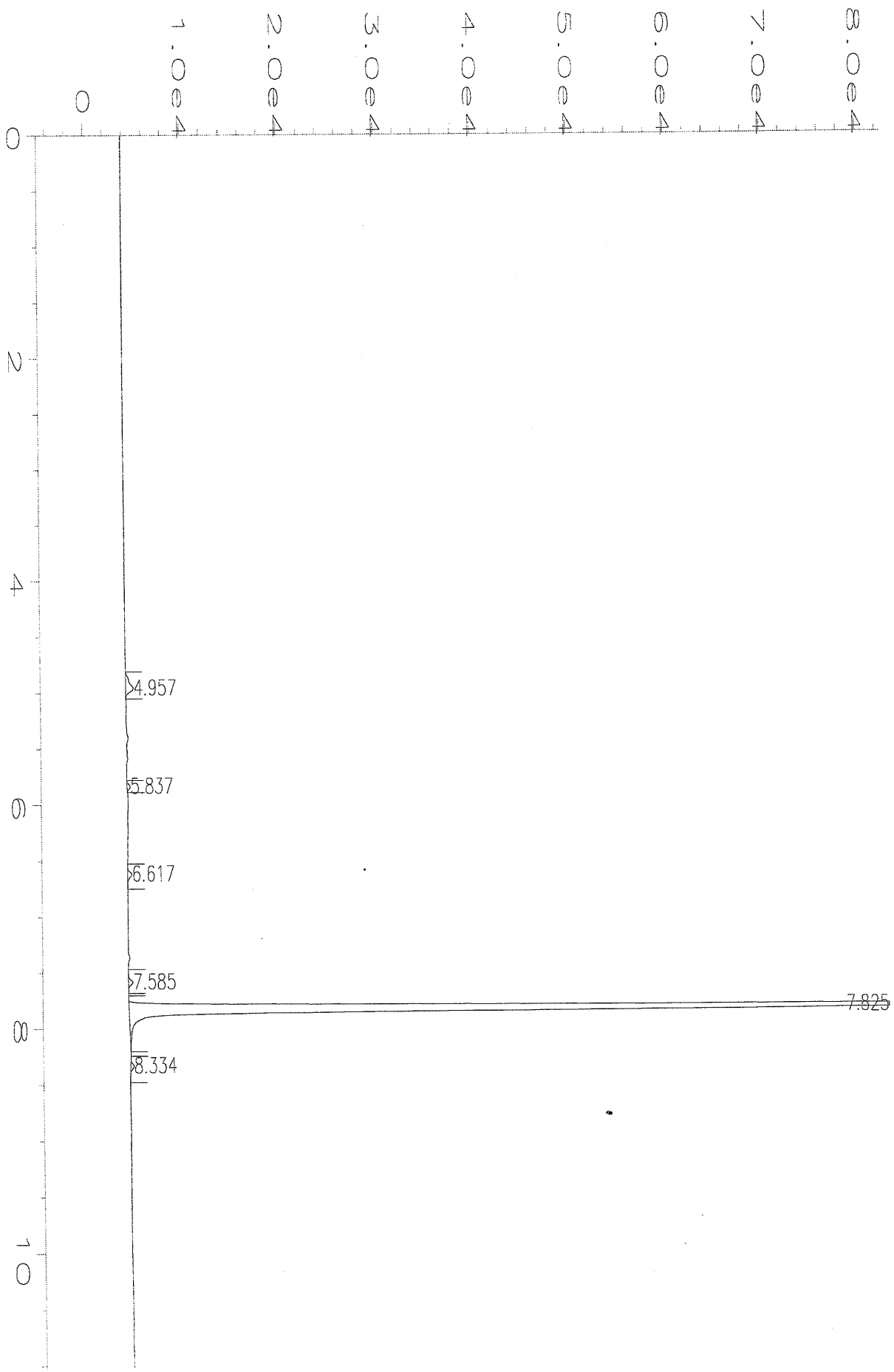
Data File Name : C:\HPCHEM\1\DATA\03275K\C03275A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62334
Run Time Bar Code:
Acquired on : 27 Mar 25 06:46 AM
Report Created on: 27 Mar 25 06:57 AM
Sample Info : 1ML HEXANE STD

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03275K\C03275A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.957	4889	794	BV	0.088	1.3068
2	5.837	947	327	BV	0.046	0.2532
3	6.617	1487	419	BB	0.053	0.3976
4	7.585	1548	470	PB	0.050	0.4139
5	7.825	364105	123363	BB	0.046	97.3242
6	8.334	1138	334	BB	0.049	0.3043

Total area = 374115



C:\HPCHEM\1\DATA\CO7675K\CO32775A.D

CALIBRATION REPORT

GC/FID Methods EPA TO-03, EPA TO-12, EPA-TO15 FID, EPA-TO-14 , EPA 18 M

SDG:	**LABQC**		**Sample Calculation:**
QC_Batch:	**032825-GCK**		1) RRF = (Astdni) / (Cstdni)
Date:	03/28/25		
Cal Update:	03/25/25		
Standard	18.05		
Calibration Level	Level 5	1.0	
Calibration RF	23534		
Standard ID:	ST62344		

For EPA PAMS Method the Concentrations of Individual Compounds are Calculated form Daily Hexane Std.

Compound	Area Astdi	Cal Level Cstdi ppbv	Daily RRF	ICAL RRF	%DEV	%DEV LIMIT	%DEV FLAG
Hexane	313588	18.050	17373	23534	-26.2	30	IN

Area Percent Report

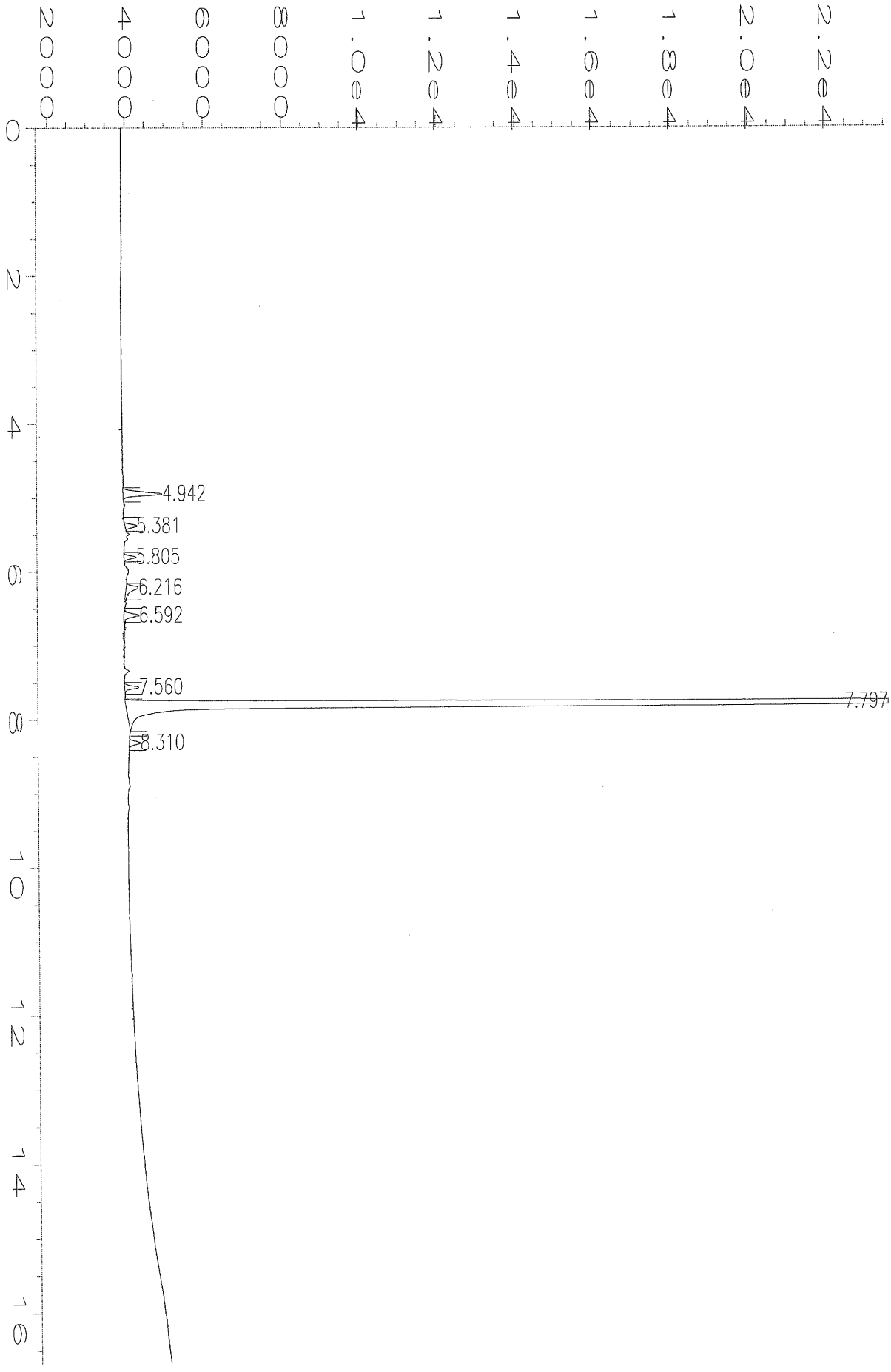
Data File Name : C:\HPCHEM\1\DATA\03285K\C03285A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62334
Run Time Bar Code:
Acquired on : 28 Mar 25 07:08 AM
Report Created on: 28 Mar 25 07:25 AM
Sample Info :

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03285K\C03285A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.942	3638	1007	BB	0.055	1.1213
2	5.381	969	307	BV	0.047	0.2987
3	5.805	956	312	BB	0.045	0.2947
4	6.216	1629	315	BV	0.067	0.5021
5	6.592	1560	394	BV	0.051	0.4809
6	7.560	1124	369	BB	0.047	0.3464
7	7.797	313588	110792	BB	0.044	96.6610
8	8.310	957	289	BB	0.051	0.2949

Total area = 324420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CALIBRATION REPORT

GC/FID Methods EPA TO-03, EPA TO-12, EPA-TO15 FID, EPA-TO-14 , EPA 18 M

SDG:	**LABQC**		**Sample Calculation:**
QC_Batch:	**033125-GCK**		1) RRF = (Astdni) / (Cstdni)
Date:	3/2312025		
Cal Update:	03/25/25		
Standard	18.05		
Calibration Level	Level 5	1.0	
Calibration RF	23534		
Standard	ST62344		

For EPA PAMS Method the Concentrations of Individual Compounds are Calculated form Daily Hexane Std.

Compound	Area Astdi	Cal Level Cstdi ppbv	Daily RRF	ICAL RRF	%DEV	%DEV LIMIT	%DEV FLAG
Hexane	377602	18.050	20920	23534	-11.1	30	IN

CONTINUING CALIBRATION REPORT

Sample Calculation:

1) Avg RFn = Sum $\left|\frac{(Astdni)}{(Cstdni)}\right|_i$

QC_Batch: 033125-GCK
Standard ID: C03315A
Sample Analysis Date: 03/27/25
Cal Update: 03/20/24
Standard Concentration 18.05
Calibration Level: Level 5 1.0 ml
Calibration RF: 20841 E18 for Intial Calbiration
Standard: ST62344

Compound	Area Astdi	Cal Level Cstdi ppbv	CCRRF	AvgRFn	ICal RFn C Ratio	%Dev	%Dev Limit	%Dev Flag
Hexane	377602	18.050	20920	20841	2.08E+04	0.4	30	IN

Area Percent Report

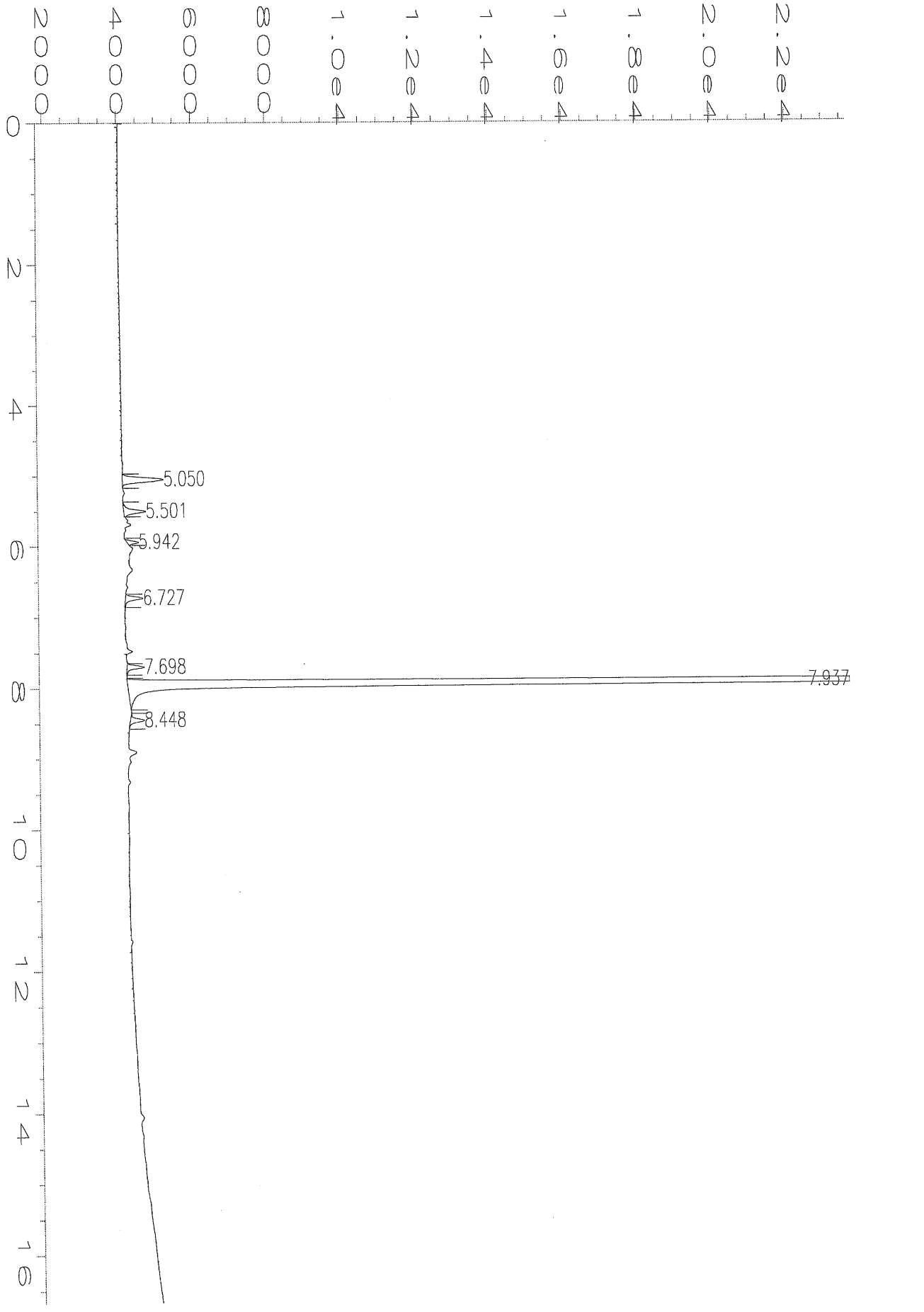
Data File Name : C:\HPCHEM\1\DATA\03315K\C03315A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62334
Run Time Bar Code:
Acquired on : 31 Mar 25 07:58 AM
Report Created on: 31 Mar 25 08:14 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03315K\C03315A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.050	4782	1106	BB	0.070	1.2262
2	5.501	2324	595	BV	0.057	0.5958
3	5.942	817	310	BV	0.043	0.2095
4	6.727	1664	477	BB	0.052	0.4267
5	7.698	1524	468	BB	0.048	0.3909
6	7.937	377602	128370	BB	0.046	96.8191
7	8.448	1294	380	BB	0.052	0.3319

Total area = 390008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CALIBRATION REPORT

GC/FID Methods EPA TO-03, EPA TO-12, EPA-TO15 FID, EPA-TO-14 , EPA 18 M

SDG:	**LABQC**	
QC_Batch:	**040125-GCK**	
Date:	04/01/25	
Cal Update:	03/25/25	
Standard	18.05	
Calibration Level	Level 5	1.0
Calibration RF	23534	
Standard	ST62344	

Sample Calculation:

1) RRF = (Astdni) / (Cstdni)

For EPA PAMS Method the Concentrations of Individual Compounds are Calculated form Daily Hexane Std.

Compound	Area Astdi	Cal Level Cstdi ppbv	Daily RRF	ICAL RRF	%DEV	%DEV LIMIT	%DEV FLAG
Hexane	390567	18.050	21638	23534	-8.1	30	IN

Area Percent Report

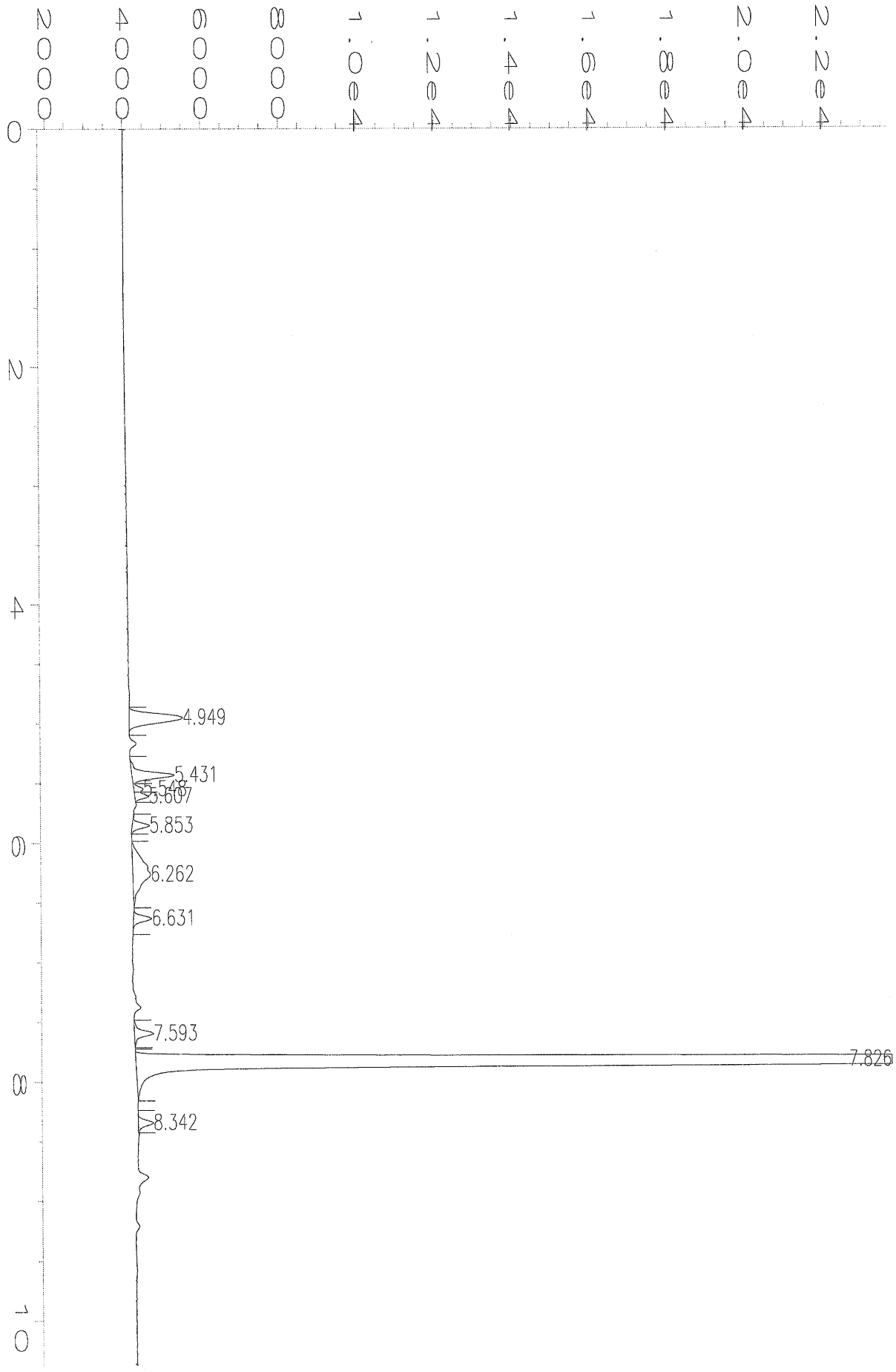
Data File Name : C:\HPCHEM\1\DATA\04015K\C04015A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62334
Run Time Bar Code:
Acquired on : 01 Apr 25 07:29 AM
Report Created on: 01 Apr 25 07:39 AM
Sample Info : HEXANE

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04015K\C04015A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.949	7178	1363	BV	0.077	1.7253
2	5.431	4186	1087	BV	0.060	1.0062
3	5.548	646	233	VV	0.043	0.1554
4	5.607	1004	355	VV	0.044	0.2412
5	5.853	1396	438	BB	0.051	0.3355
6	6.262	6295	453	BB	0.172	1.5130
7	6.631	1589	467	BB	0.048	0.3820
8	7.593	1819	488	BB	0.056	0.4373
9	7.826	390567	125391	BB	0.049	93.8777
10	8.342	1357	390	BB	0.053	0.3263

Total area = 416038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6.631
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8.342
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CALIBRATION REPORT

GC/FID Methods EPA TO-03, EPA TO-12, EPA-TO15 FID, EPA-TO-14 , EPA 18 M

SDG:	**LABQC**	
QC_Batch:	**040225-GCK**	
Date:	04/02/25	
Cal Update:	03/25/25	
Standard	18.05	
Calibration Level	Level 5	1.0
Calibration RF	23534	
Standard	ST62344	

Sample Calculation:

1) RRF = (Astdni) / (Cstdni)

For EPA PAMS Method the Concentrations of Individual Compounds are Calculated form Daily Hexane Std.

Compound	Area Astdi	Cal Level Cstdi ppbv	Daily RRF	ICAL RRF	%DEV	%DEV LIMIT	%DEV FLAG
Hexane	385895	18.050	21379	23534	-9.2	30	IN

Area Percent Report

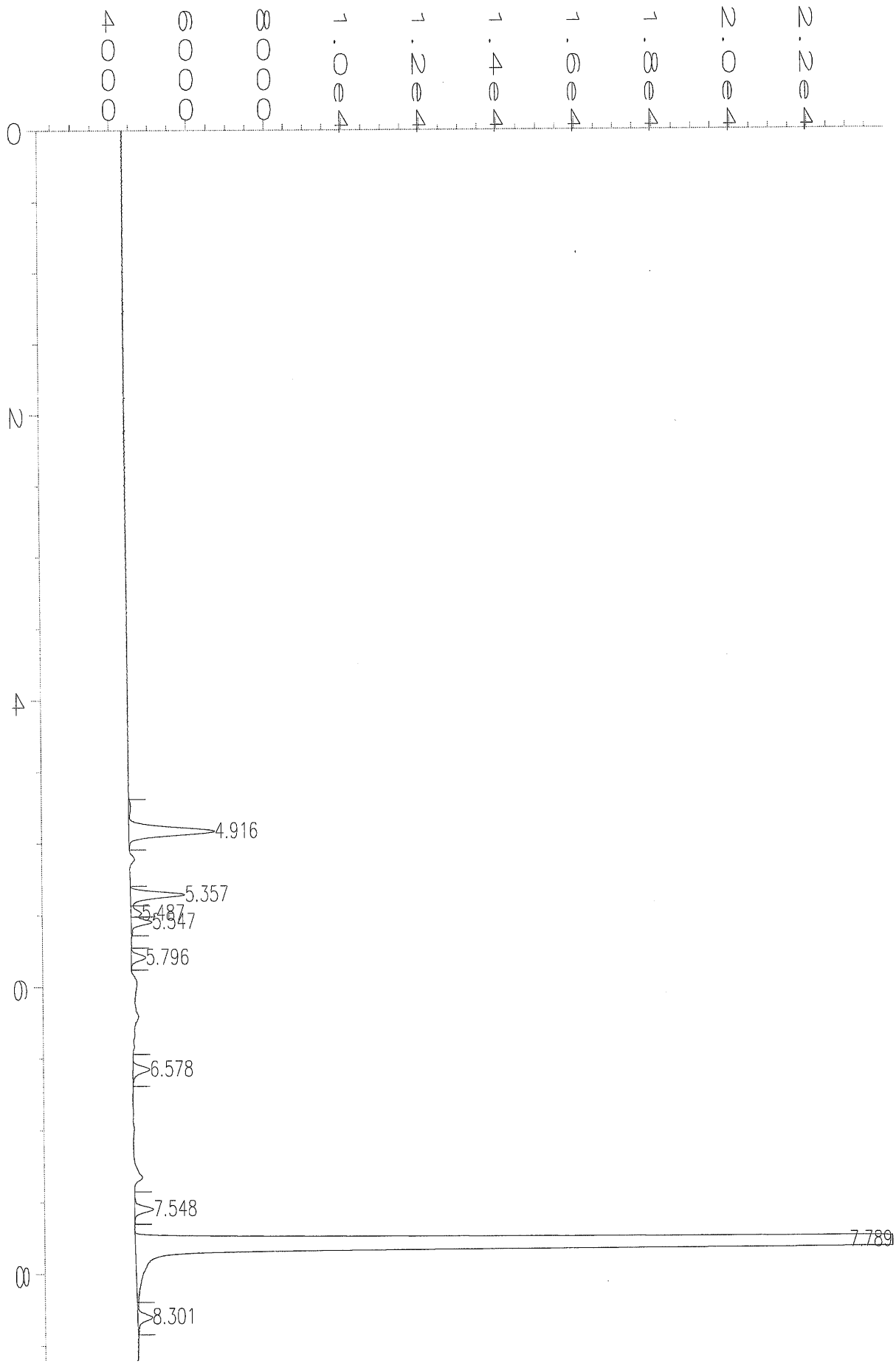
Data File Name : C:\HPCHEM\1\DATA\04025K\C04025A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62334
Run Time Bar Code:
Acquired on : 02 Apr 25 07:50 AM
Report Created on: 02 Apr 25 07:58 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04025K\C04025A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.916	9186	2206	BV	0.064	2.2554
2	5.357	4292	1402	BV	0.047	1.0538
3	5.487	794	268	VV	0.039	0.1950
4	5.547	1568	540	VB	0.043	0.3850
5	5.796	1113	369	BB	0.046	0.2732
6	6.578	1487	434	BB	0.054	0.3652
7	7.548	1506	490	BB	0.048	0.3697
8	7.789	385895	132346	BV	0.046	94.7427
9	8.301	1467	385	VV	0.056	0.3602

Total area = 407308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CALIBRATION REPORT

GC/FID Methods EPA TO-03, EPA TO-12, EPA-TO15 FID, EPA-TO-14 , EPA 18 M

SDG:	**LABQC**		**Sample Calculation:**
QC_Batch:	**040325-GCK**		1) RRF = (Astdni) / (Cstdni)
Date:	04/03/25		
Cal Update:	03/25/25		
Standard	18.05		
Calibration Level	Level 5	1.0	
Calibration RF	23534		
Standard	ST62344		

For EPA PAMS Method the Concentrations of Individual Compounds are Calculated form Daily Hexane Std.

Compound	Area Astdi	Cal Level Cstdi ppbv	Daily RRF	ICAL RRF	%DEV	%DEV LIMIT	%DEV FLAG
Hexane	402031	18.050	22273	23534	-5.4	30	IN

Area Percent Report

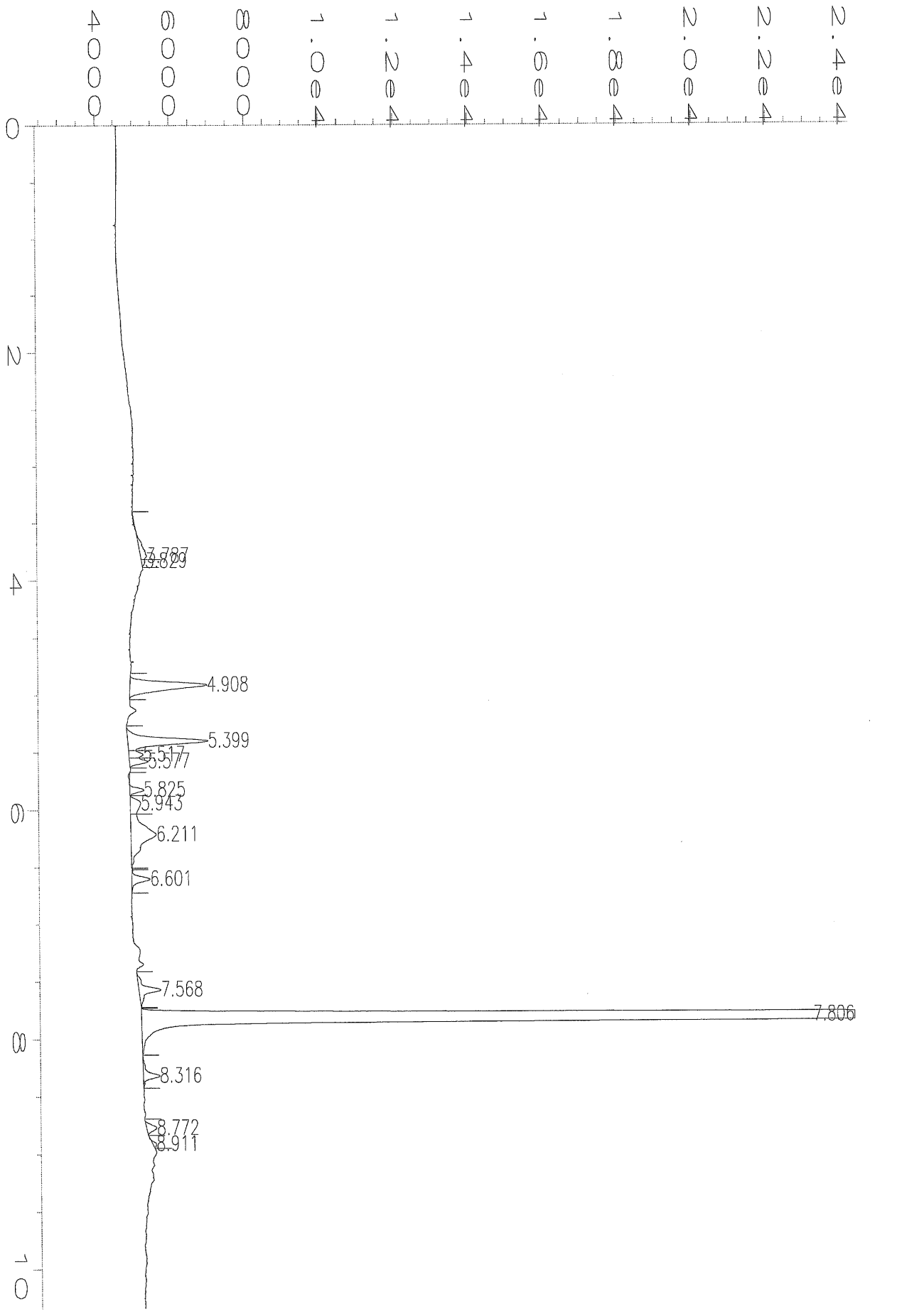
Data File Name : C:\HPCHEM\1\DATA\04035K\C04035A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62334
Run Time Bar Code:
Acquired on : 03 Apr 25 07:51 AM
Report Created on: 03 Apr 25 08:01 AM
Sample Info :

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04035K\C04035A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	3.787	1075	169	BV	0.080	0.2433
2	3.829	241	99	VB	0.041	0.0547
3	4.908	9279	2065	BB	0.066	2.1005
4	5.399	8754	2142	BV	0.062	1.9817
5	5.517	1163	377	VV	0.045	0.2633
6	5.577	1403	492	VB	0.043	0.3176
7	5.825	849	367	BV	0.040	0.1921
8	5.943	1799	279	VV	0.081	0.4071
9	6.211	7828	683	VB	0.152	1.7720
10	6.601	1695	495	BB	0.051	0.3836
11	7.568	2666	598	PB	0.063	0.6035
12	7.806	402031	140675	BB	0.045	91.0069
13	8.316	1760	443	BV	0.060	0.3983
14	8.772	988	278	BV	0.051	0.2237
15	8.911	228	94	PV	0.044	0.0515

Total area = 441759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CALIBRATION REPORT

GC/FID Methods EPA TO-03, EPA TO-12, EPA-TO15 FID, EPA-TO-14 , EPA 18 M

SDG:	**LABQC**	
QC_Batch:	**040825-GCK**	
Date:	04/08/25	
Cal Update:	03/25/25	
Standard	18.05	
Calibration Level	Level 5	1.0
Calibration RF	23534	
Standard	ST62344	

Sample Calculation:

1) RRF = (Astdni) / (Cstdni)

For EPA PAMS Method the Concentrations of Individual Compounds are Calculated form Daily Hexane Std.

Compound	Area Astdi	Cal Level Cstdi ppbv	Daily RRF	ICAL RRF	%DEV	%DEV LIMIT	%DEV FLAG
Hexane	382828	18.050	21209	23534	-9.9	30	IN

Area Percent Report

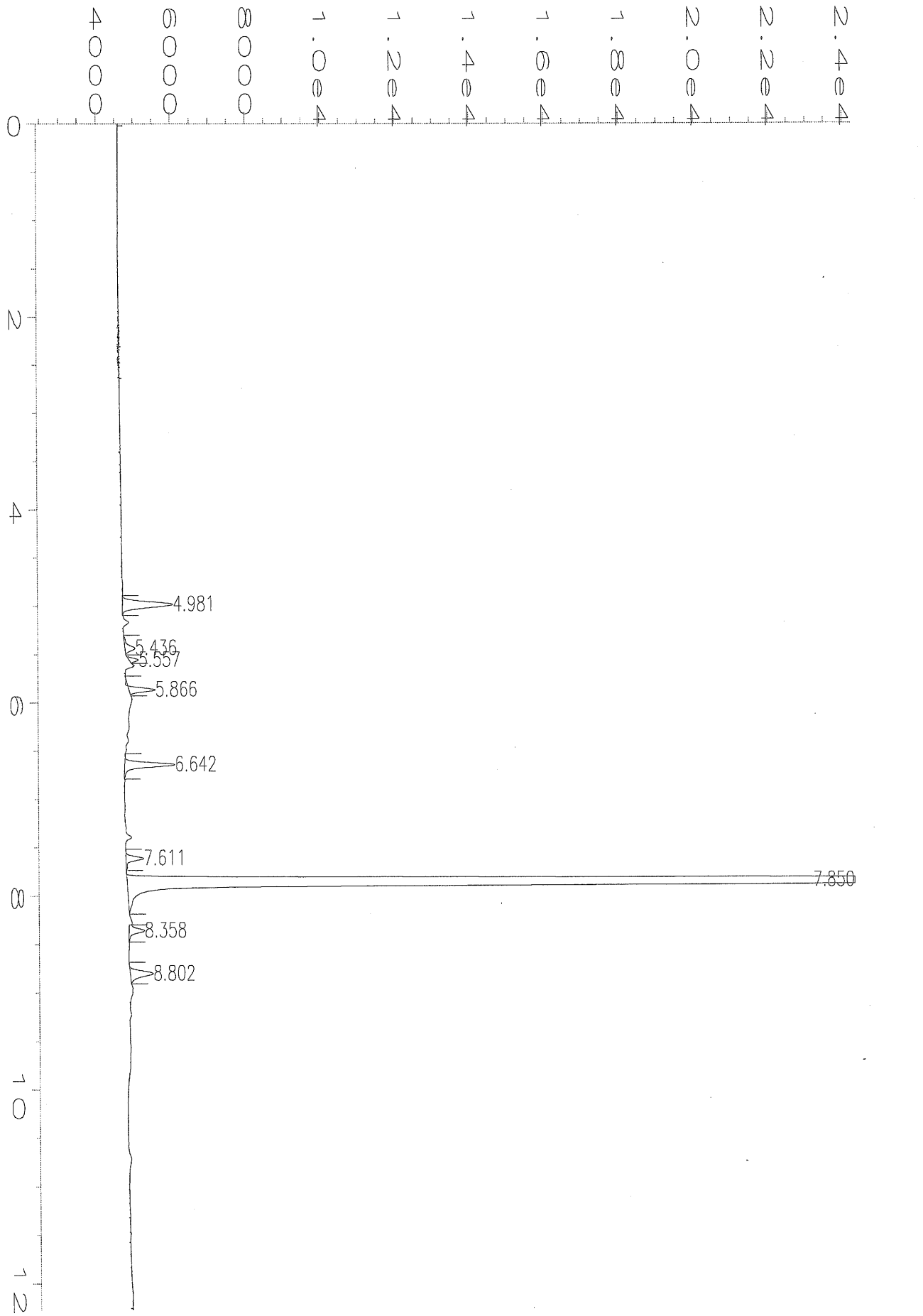
Data File Name : C:\HPCHEM\1\DATA\04085K\C04085A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62334
Run Time Bar Code:
Acquired on : 08 Apr 25 08:47 AM
Report Created on: 08 Apr 25 08:59 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\04085K\C04085A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.981	5659	1345	BV	0.066	1.4070
2	5.436	1127	270	BV	0.063	0.2802
3	5.557	561	250	PV	0.037	0.1394
4	5.866	1811	707	BV	0.042	0.4502
5	6.642	4667	1339	BB	0.054	1.1602
6	7.611	1510	475	BB	0.048	0.3753
7	7.850	382828	133513	BB	0.045	95.1753
8	8.358	1559	421	VB	0.056	0.3876
9	8.802	2513	618	BV	0.062	0.6248

Total area = 402235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C:\HPCHEM\1\DATA\040885K\C040885A.D

Initial Calibration Data Packages

Samples were analyzed using the methods listed in Section 3. For each of the methods there is an Initial Calibration Curve that meets the criteria defined in Section 2 on Quality Control for the modified method.

Index

Response Factors
Instrument Quant Report
Chromatogram

INITIAL CALIBRATION REPORT

GC/FID Methods EPA TO-03, EPA TO-12, EPA-TO15 FID, EPA-TO-14 , EPA 18 M

SDG: LABQC
QC_Batch: 032525-GCK
Initial Cal Date: 3/25/25
Standard ST2344
Std Concentration 18.05 ppmV

	Calibration Amount CA, ppbv						Calibration Response, Area					
	Level 1	Level 2	Level 4	Level 5	Level 7	Level 8	Level 1	Level 2	Level 4	Level 5	Level 7	Level 8
	Amt	Amt	Amt	Amt	Amt	Amt	C03255D	C03255C	C03255B	C03255A	C03255F	C03255E
Compound	0.03	0.10	0.50	1.00	5.00	10.00	0.030	0.10	0.50	1.00	5.00	10.00
Hexane	**0.54**	**1.81**	**9.03**	**18.05**	**90.25**	**180.50**	**16618**	**43019**	**213080**	**394918**	**1917949**	**3599200**

Hexane ppbc **0.090**

INITIAL CALIBRATION REPORT: Response Factors

GC/FID Methods EPA TO-03, EPA TO-12, EPA-TO15 FID, EPA-TO-14 , EPA 18 M

QC_Batch: **032525-GCK**
Initial Cali Date: 03/25/25

Sample Calculation:

1) Avg RFn = Sum $\left|\frac{(Astdni)}{(Cstdni)}\right|_i$

Response Factors

Compound	RF1	RF2	RF4	RF5	RF7	RF8	AvgRFn	%RSD	AngRF C Ratio
Hexane	30689	23833	23610	21879	21252	19940	23534	16.14	**2.35E+04**

Daily Analytical Batch

DAB: 032525-GCK

GCK

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
032525-GCK	01	GCK	STD			C03255A		ST62334		1	MM		GC1SHO			
032525-GCK	02	GCK	STD			C03255B		ST62334		0.5	MM		GC1SHO			
032525-GCK	03	GCK	STD			C03255C		ST62334		0.1	MM		GC1SHO			
032525-GCK	04	GCK	STD			C03255D		ST62334		0.03	MM		GC1SHO			
032525-GCK	05	GCK	STD			C03255E		ST62334		10	MM		GC1SHO			
032525-GCK	06	GCK	STD			C03255F		ST62334		5	MM		GC1SHO			
032525-GCK	07	GCK	STD			C03255G		ST62359		1	MM		GC1SHO	SECONDARY		
032525-GCK	08	GCK	SPK			QC03255A		ST62359		1	MM		GC1SHO			
032525-GCK	09	GCK	SPK			QC03255B		ST62359		1	MM		GC1SHO			
032525-GCK	10	GCK	SPK			QC03255C		ST62359		1	MM		GC1SHO			

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REVIEWED

Area Percent Report

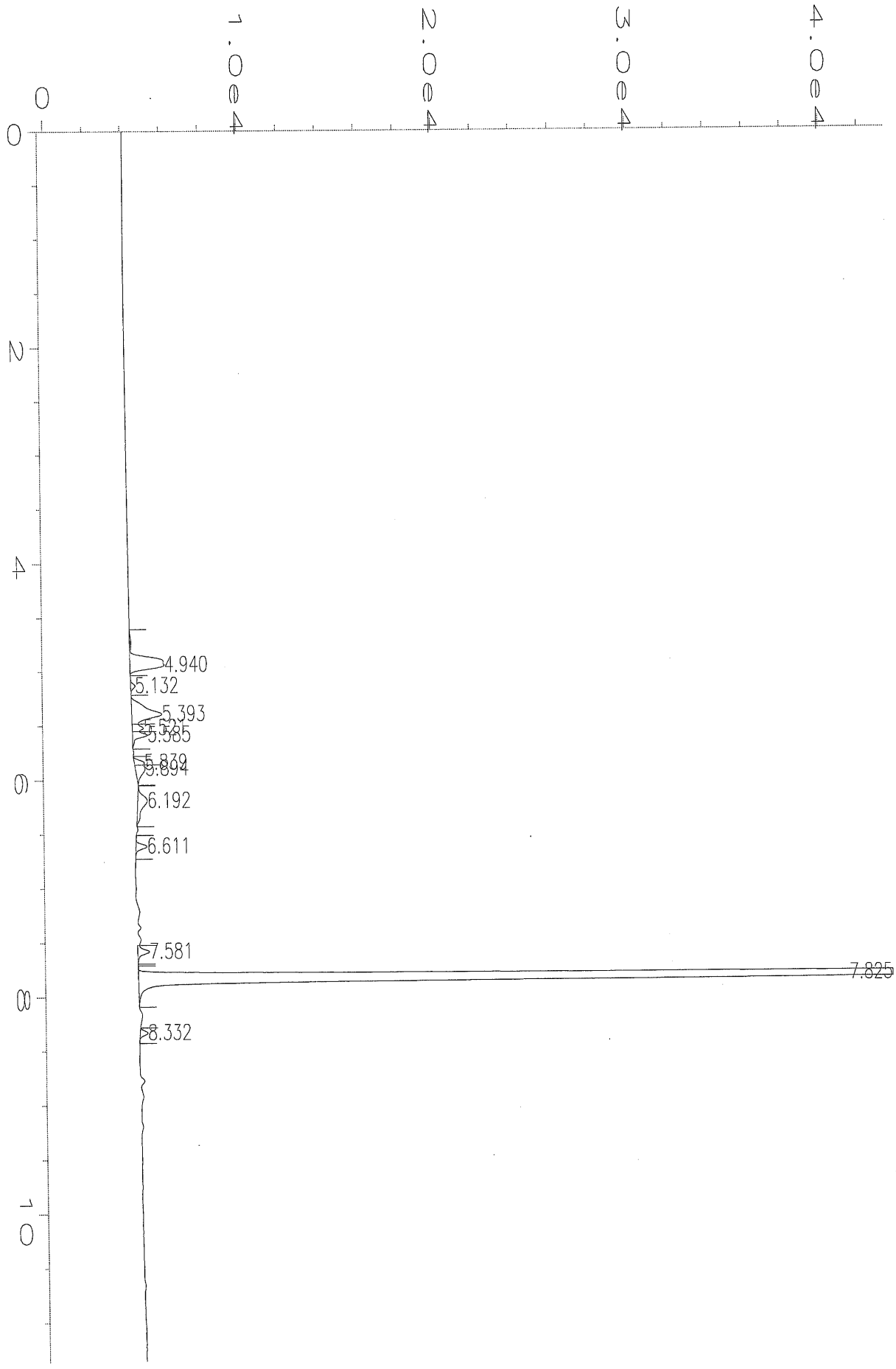
Data File Name : C:\HPCHEM\1\DATA\03255K\C03255A.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62334
Run Time Bar Code:
Acquired on : 25 Mar 25 07:06 AM
Report Created on: 25 Mar 25 09:29 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03255K\C03255A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.940	12873	1760	BV	0.099	2.9440
2	5.132	733	225	PB	0.050	0.1676
3	5.393	10708	1548	BV	0.096	2.4489
4	5.521	1841	568	VV	0.047	0.4211
5	5.585	2472	767	VB	0.048	0.5654
6	5.839	1404	501	BV	0.043	0.3211
7	5.894	2917	498	VB	0.078	0.6671
8	6.192	4375	489	BV	0.119	1.0004
9	6.611	1735	561	BB	0.047	0.3968
10	7.581	2162	607	VB	0.054	0.4944
11	7.825	394918	138783	BV	0.044	90.3131
12	8.332	1137	395	BB	0.044	0.2601

Total area = 437277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Area Percent Report

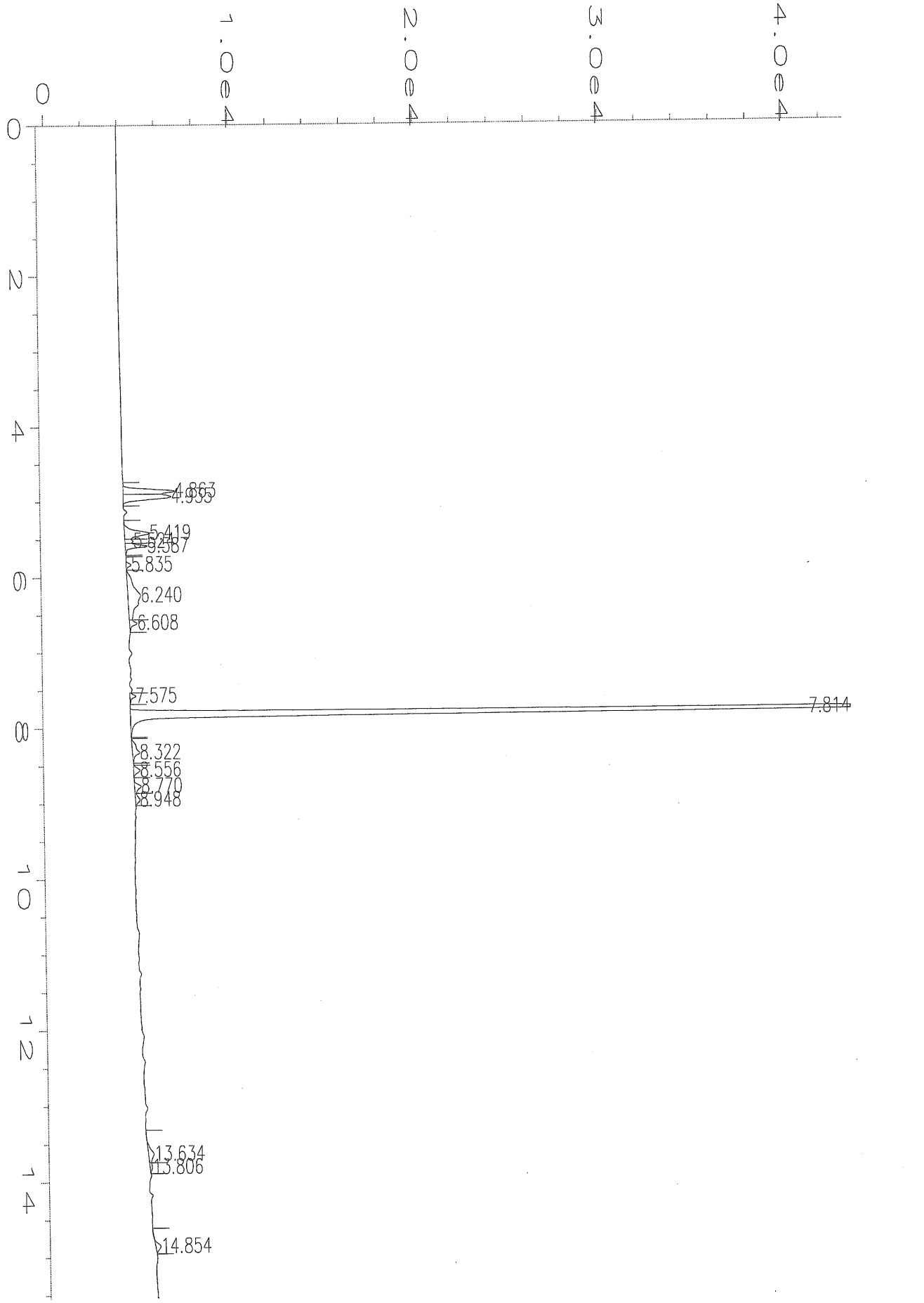
Data File Name : C:\HPCHEM\1\DATA\03255K\C03255B.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62334
Run Time Bar Code:
Acquired on : 25 Mar 25 07:48 AM
Report Created on: 25 Mar 25 09:29 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03255K\C03255B.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.863	10709	2779	BV	0.058	3.8785
2	4.935	11578	2593	VB	0.070	4.1934
3	5.419	7029	1349	BV	0.078	2.5459
4	5.524	1208	438	VV	0.040	0.4376
5	5.587	3657	1177	VB	0.047	1.3246
6	5.835	800	254	BV	0.051	0.2898
7	6.240	13421	672	PV	0.248	4.8608
8	6.608	1567	389	VB	0.058	0.5677
9	7.575	1098	306	VB	0.053	0.3976
10	7.814	213080	73566	BB	0.045	77.1717
11	8.322	2981	380	BB	0.104	1.0795
12	8.556	1502	331	BV	0.062	0.5439
13	8.770	1710	350	PV	0.069	0.6195
14	8.948	1314	224	VB	0.075	0.4760
15	13.634	2492	291	BV	0.111	0.9027
16	13.806	739	124	VV	0.077	0.2678
17	14.854	1224	265	BB	0.061	0.4433

Total area = 276111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Area Percent Report

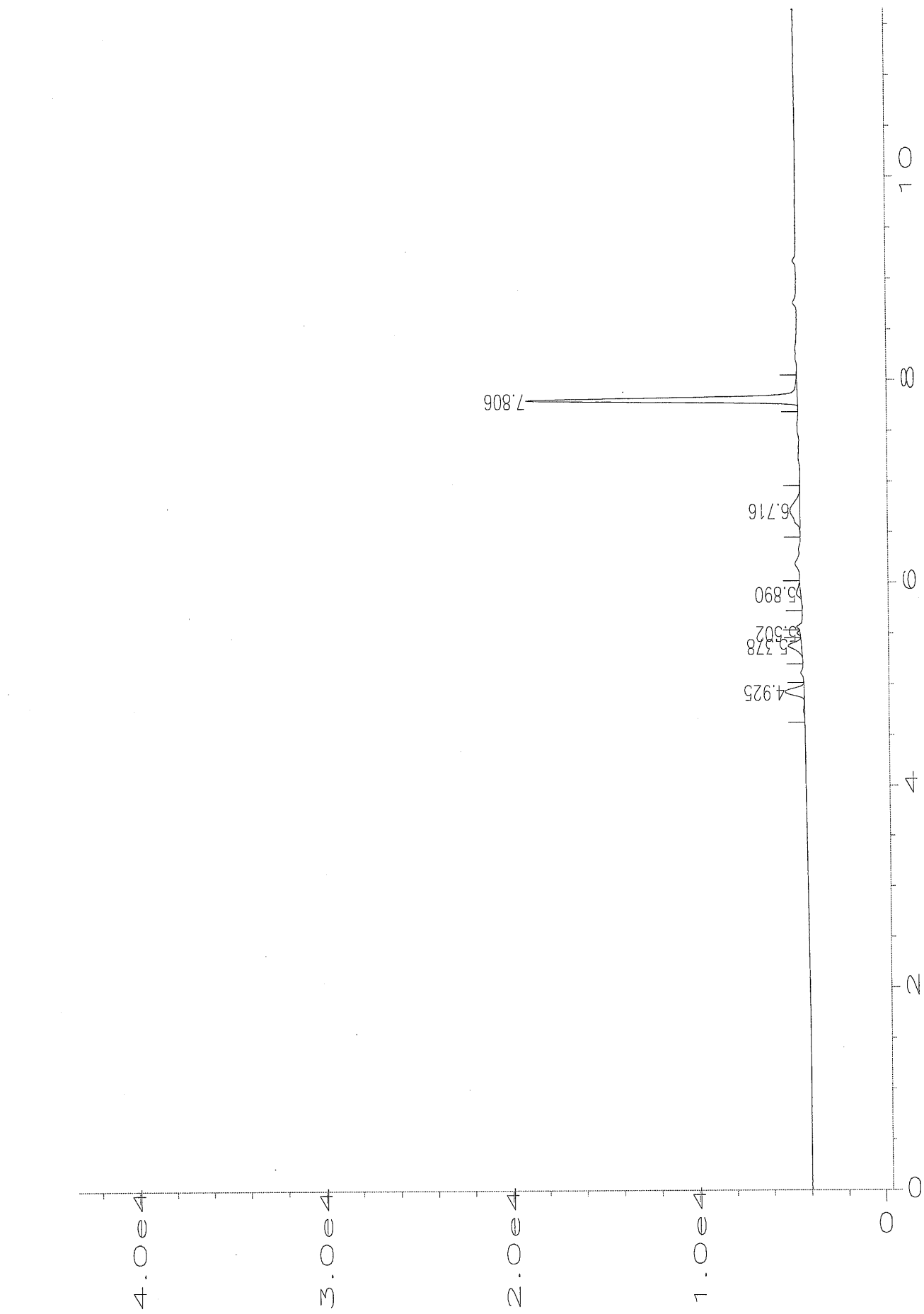
Data File Name : C:\HPCHEM\1\DATA\03255K\C03255C.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62334
Run Time Bar Code:
Acquired on : 25 Mar 25 08:31 AM
Report Created on: 25 Mar 25 08:43 AM
Sample Info : 0.1ML HEXANE

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03255K\C03255C.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.925	4915	1005	BV	0.078	8.2688
2	5.378	3455	721	BV	0.068	5.8117
3	5.502	331	155	PV	0.034	0.5570
4	5.890	1110	230	BB	0.072	1.8670
5	6.716	6614	541	BB	0.153	11.1262
6	7.806	43019	14626	BB	0.046	72.3693

Total area = 59443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Area Percent Report

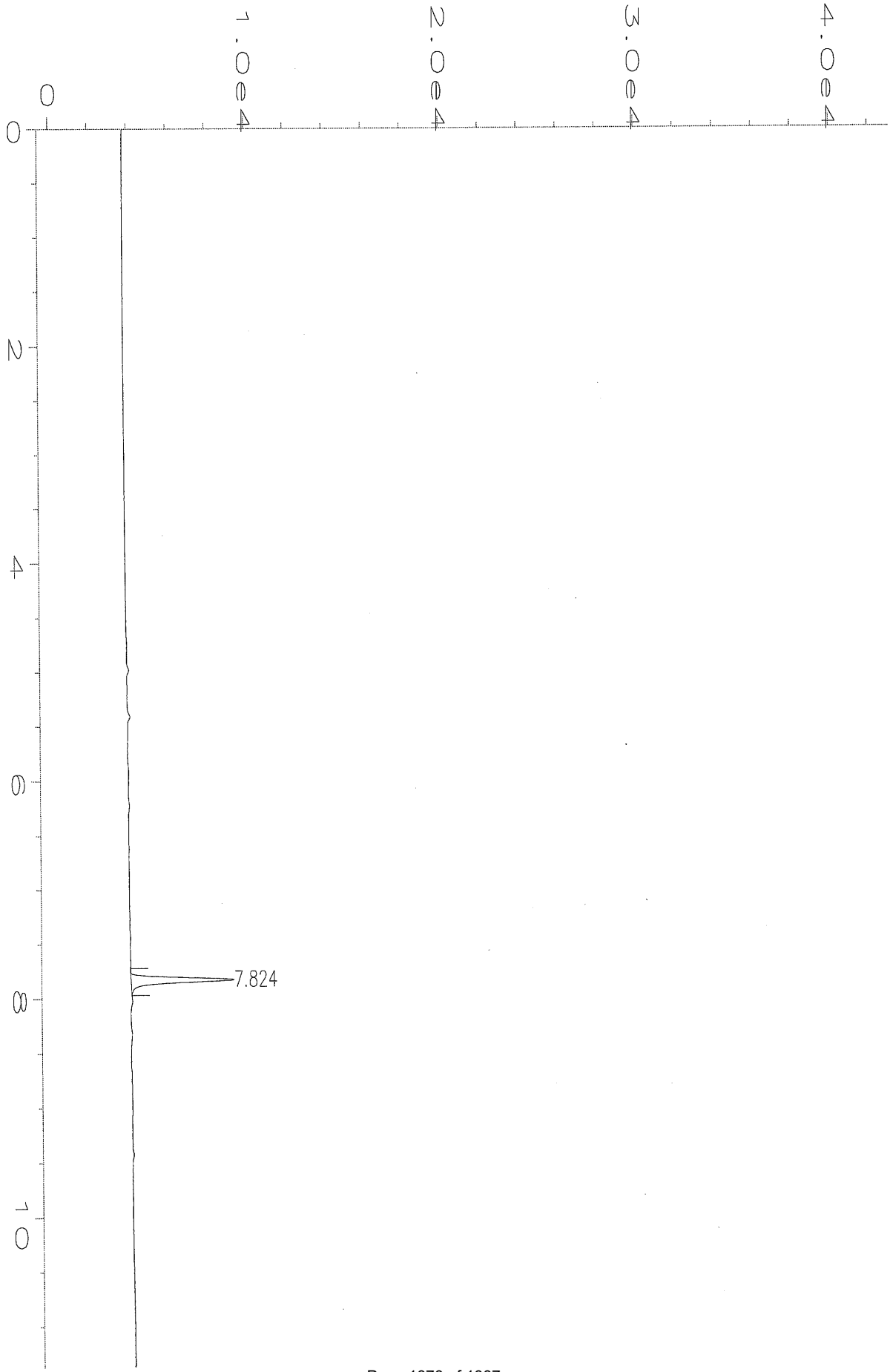
Data File Name : C:\HPCHEM\1\DATA\03255K\C03255D.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62334
Run Time Bar Code:
Acquired on : 25 Mar 25 09:05 AM
Report Created on: 25 Mar 25 09:16 AM
Sample Info : 0.03 ML HEXANE

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03255K\C03255D.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	7.824	16618	5241	BV	0.048	100.0000

Total area = 16618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Area Percent Report

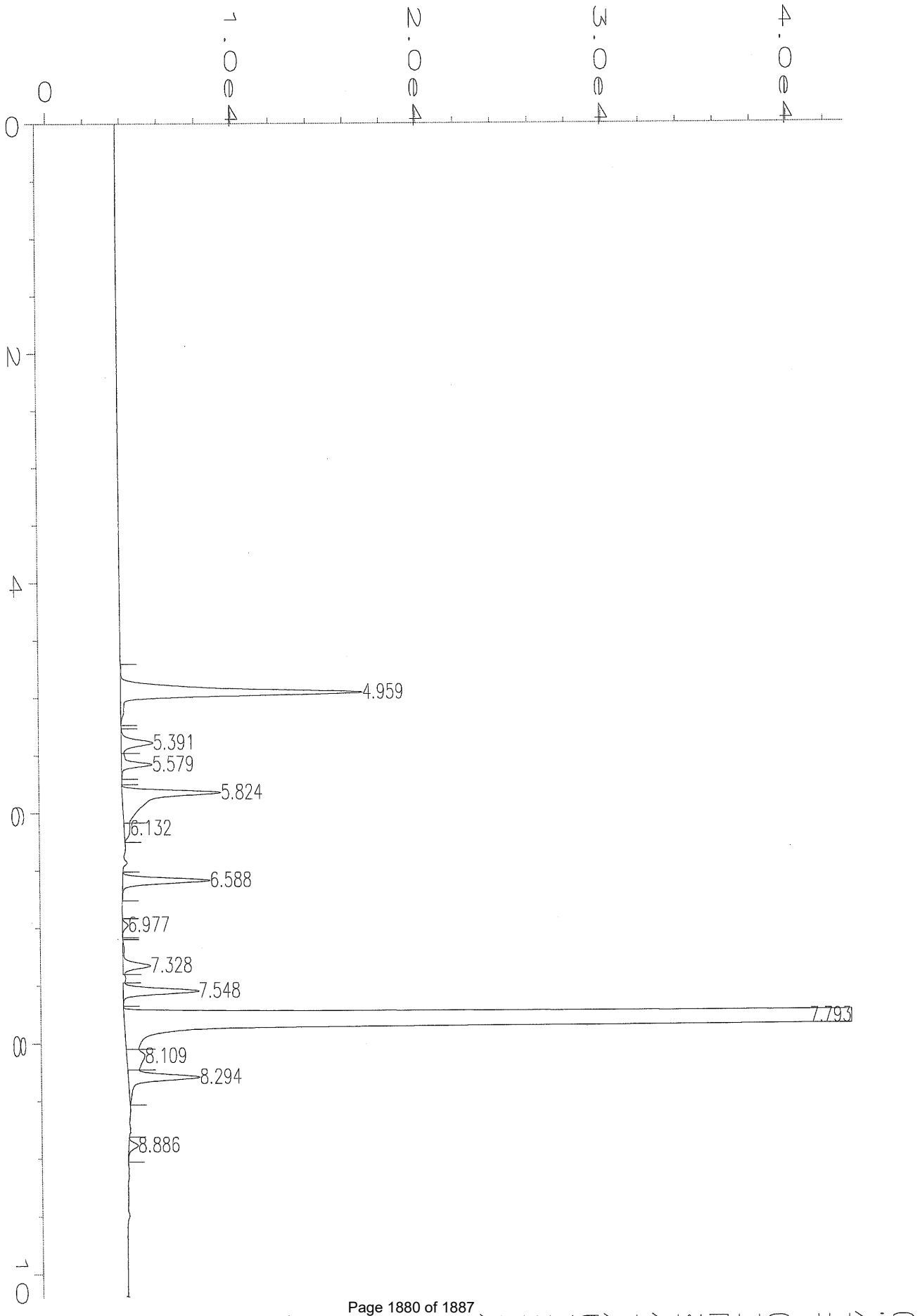
Data File Name : C:\HPCHEM\1\DATA\03255K\C03255E.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62334
Run Time Bar Code:
Acquired on : 25 Mar 25 09:37 AM
Report Created on: 25 Mar 25 09:48 AM
Sample Info : 10 ML HEXANE

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03255K\C03255E.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.959	56367	13036	BB	0.064	1.4983
2	5.391	7084	1704	BV	0.062	0.1883
3	5.579	5468	1654	VB	0.050	0.1453
4	5.824	28676	5286	BV	0.075	0.7622
5	6.132	2258	311	VB	0.096	0.0600
6	6.588	15305	4671	BB	0.051	0.4068
7	6.977	1080	293	BB	0.051	0.0287
8	7.328	5935	1486	BV	0.059	0.1578
9	7.548	13915	4058	VV	0.054	0.3699
10	7.793	3599200	982511	PV	0.059	95.6691
11	8.109	8795	980	VV	0.109	0.2338
12	8.294	16125	3842	VB	0.063	0.4286
13	8.886	1925	495	BB	0.058	0.0512

Total area = 3762132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6.977
7.328
7.548
7.793
8.109
8.294
8.886
C:\HPCHEM\1\DATA\032555KCO32555E.D

Area Percent Report

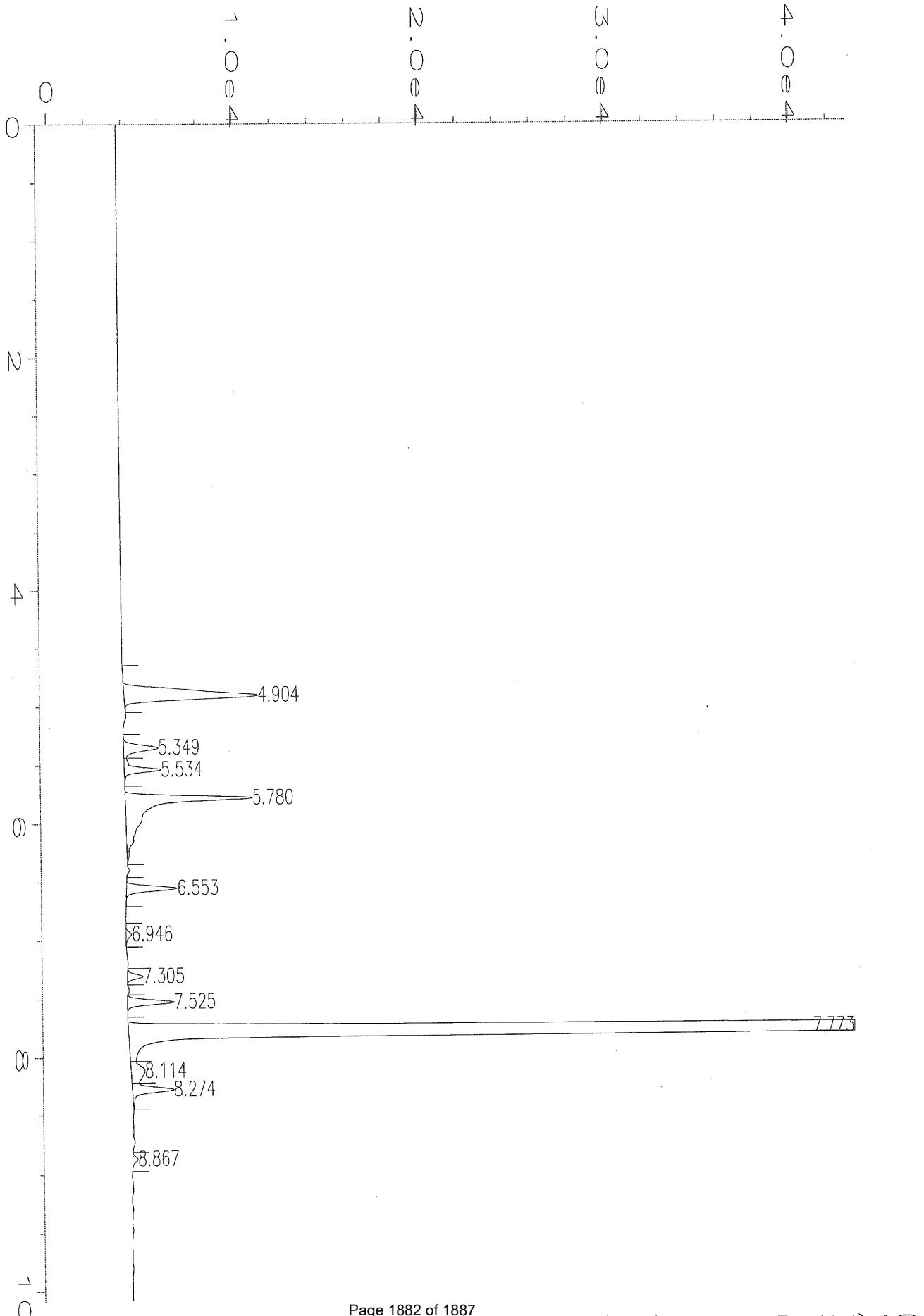
Data File Name : C:\HPCHEM\1\DATA\03255K\C03255F.D
Operator : MM
Instrument : ANALYZER1
Sample Name : ST62334
Run Time Bar Code:
Acquired on : 25 Mar 25 10:09 AM
Report Created on: 25 Mar 25 10:19 AM
Sample Info : 5 ML HEXANE

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: GC1SHORT.MTH
Analysis Method : GC1SHORT.MTH

Sig. 1 in C:\HPCHEM\1\DATA\03255K\C03255F.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	4.904	36552	7166	BV	0.076	1.7906
2	5.349	7018	1862	BV	0.057	0.3438
3	5.534	6285	1967	VB	0.048	0.3079
4	5.780	39322	6813	BB	0.079	1.9262
5	6.553	8397	2724	BB	0.048	0.4114
6	6.946	1041	287	BB	0.056	0.0510
7	7.305	2384	838	BV	0.044	0.1168
8	7.525	7349	2535	VB	0.045	0.3600
9	7.773	1917949	659053	BV	0.046	93.9538
10	8.114	6200	748	VV	0.103	0.3037
11	8.274	7966	2248	VB	0.053	0.3902
12	8.867	914	275	BB	0.050	0.0448

Total area = 2041376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6.946
7.305
7.525
7.773
8.114
8.274
8.867
C:\HPCHEM\1\DATA\032555K\CO32555F.D

Section 5 Standard Calibration Certificates

This section contains the Standard Calibration Certificates for the Standards and Internal Standards.

Section Contents

Standard Calibration Certificates

STANDARD CERTIFICATE
CALIBRATION GAS STANDARD

Standard ID: **ST62344**
Description: **TO-14 Hexane Calibration Standard**
Date Recertified : 10/7/2019
Date Expired: 10/4/2024

Canister: AL150
Analyst: SDH

Component	CAS No	Concentration ppmv
Hexane	110-54-3	18.050

Analyst: Steve Hoyt, PhD

Approved:

ST62344 Hexane Standard 18 ppm.xls

Standard Preparation

Standard Name:	TO-14 Hexane Calibration Standard					**Dilution 1**	**Dilution 2**		
Standard ID:	ST62344					ST62344	ST62344		
Target Liquid Volume (ul)	120.0	Date Prepared:				10/7/2019	10/7/2019		
Target Wt from Volume (g)		Canister ID:	AL150			AL150	AL150		
NIST 100 mg Weight		Analyst:	SDH				Recertyified Against		
Initial Syringe Wt (g)	15.18500	Pressure	Correction			Corrected	ST62118		
Final Syringe Wt (g)	15.05212 Pressure	1000	0.028			1028	psig		
Liquid Wt (g)	0.13288 Temp	25	C			1.00	1.00		
Gas Volume, ml	2088947 Atm P	760.0	torr			1.00	1.00		
Gas Constant	24454		Factor			1.00	1.00		

	Wt (g) from Vol	moles	ml gas	Conc ppmv	Conc ppmv	Conc ppmv	Weight %Error
Hexane	0.1329	0.001542	37.7052	18.0498	18.0498	18.0498	0.015

ST62344 Hexane Standard 18 ppm.xls

Multicomponent Mix Preparation

Save as Template under this STD ID ST62344

	Chemist	SDH	Actual	Dif
	NIST Wgt.	**5.00014**	5.00015	0.00001
	NIST Wgt.	**10.00012**	10.00015	0.00003
			Avg	0.00002

Final Mix Volume, ul 2500 Factor 1583.88 (use 1.0 for Factor if not using mix)

	liq vol ul	Target grams	wt Final	wt Initial	ID Number	Actual Weight	Weight Fraction	Density Fraction	% Dif
Hexane	2500.000	1.64750	15.18550	15.05212	68524	0.13338	1.00	0.659000	-91.9
	2500.000	1.64750				0.13338		0.659000	

ST62344 Hexane Standard 18 ppm.xls

STANDARD PREPARATION WORKSHEET

Instructions: Enter the compound name and date then desired ppmV for final Standard. Check mass and volume to make sure they are in a measurable range, if not enter a diltuion factor to bring in range.
Checked and Validated on 06/22/11

Description: TO-14 Hexane Calibration Standard
Cylinder Volume: 29450 ml

Standard	CAS	MW	Density g/ml	Desired ppmV	ml as Gas	mass grams	liq vol ul	Purity %
Hexane	110-54-3	86.18	0.659	10.00	0.29450	0.00104	1.578	99.0
								1.58

ST62344 Hexane Standard 18 ppm.xls

ENVIRONMENTAL
Analytical Service, Inc.

Data Deliverable Package

Prepared For:
C.E. Schmidt
19200 Live Oak Road
Red Bluff CA 96080

Client Project Manager: Chuck Schmidt
Project Name: Chiquita Canyon
Project Number: GC Methane

EAS SDG Number: **225100**
Project Number: 17807
Report Sent: 4/15/2025
Sample Event Date:),3/20,3/21/2025

This is the Laboratory Data Deliverable Package for the samples in the indicated Sample Delivery Group (SDG).

INDEX TO DATA PACKAGE:

Section 1 **Project Summary**
- Laboratory Work Order
- Sample Data
- Laboratory Case Narrative and Chain of Custody

Section 2 **Quality Control**
- Project QC Criteria
- DAB QC Reports

Section 3 **Analytical Methods**
- Analytical Method Description(s)
- Analytical Reports

Section 4 **Data Package with Quant Report and Chromatogram**
- DAB Run Logs and Preparation Log
- Sample Data Package
- Blank Data Package
- Continuing Calibration Package
- Initial Calibration Package

Section 5 **Standard Certificates**

Section 6 **SDG Documentation, Notes, Correspondence**

173 Cross Street, San Luis Obispo, California, 93401 (805) 781-3585

Section 1 Project Summary

The following pages provide detailed information about the sample receipt, log-in, and sample preparation. The Laboratory Work Order provides a cross reference between the Client ID number and the EAS Lab Number as well as a list of the analytical tests preformed. The items included in this section are listed below.

Section Contents

Laboratory Work Order

Sample Data

Laboratory Case Narrative

Chain of Custody

Laboratory Work Order

SDG Number: 225100
Client: Chuck Schmidt
C.E. Schmidt

Project Number: 17807
Received: 3/21/2025

SAMPLE DESCRIPTION AND ANALYSIS REQUESTED

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-101	225100 1	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-101	225100 1	ASTM D3416 Low Level Methane	3/19/2025
T-101	225100 1	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-101	225100 1	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-101	225100 1	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-102	225100 2	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-102	225100 2	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-102	225100 2	ASTM D3416 Low Level Methane	3/19/2025
T-102	225100 2	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-102	225100 2	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-103	225100 3	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-103	225100 3	ASTM D3416 Low Level Methane	3/19/2025
T-103	225100 3	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-103	225100 3	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-103	225100 3	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-104	225100 4	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-104	225100 4	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-104	225100 4	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-104	225100 4	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-104	225100 4	ASTM D3416 Low Level Methane	3/19/2025
T-105	225100 5	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-105	225100 5	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-105	225100 5	ASTM D3416 Low Level Methane	3/19/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-105	225100 5	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-105	225100 5	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-106	225100 6	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-106	225100 6	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-106	225100 6	ASTM D3416 Low Level Methane	3/19/2025
T-106	225100 6	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-106	225100 6	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-107	225100 7	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-107	225100 7	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-107	225100 7	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-107	225100 7	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-107	225100 7	ASTM D3416 Low Level Methane	3/19/2025
T-108	225100 8	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-108	225100 8	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-108	225100 8	ASTM D3416 Low Level Methane	3/19/2025
T-108	225100 8	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-108	225100 8	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-109	225100 9	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-109	225100 9	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-109	225100 9	ASTM D3416 Low Level Methane	3/19/2025
T-109	225100 9	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-109	225100 9	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-110	225100 10	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-110	225100 10	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-110	225100 10	ASTM D3416 Low Level Methane	3/19/2025
T-110	225100 10	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-110	225100 10	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-111	225100 11	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-111	225100 11	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-111	225100 11	ASTM D3416 Low Level Methane	3/19/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-111	225100 11	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-111	225100 11	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-112	225100 12	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-112	225100 12	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-112	225100 12	ASTM D3416 Low Level Methane	3/19/2025
T-112	225100 12	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-112	225100 12	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-113	225100 13	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-113	225100 13	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-113	225100 13	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-113	225100 13	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-113	225100 13	ASTM D3416 Low Level Methane	3/19/2025
T-114	225100 14	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-114	225100 14	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-114	225100 14	ASTM D3416 Low Level Methane	3/19/2025
T-114	225100 14	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-114	225100 14	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-115	225100 15	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-115	225100 15	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-115	225100 15	ASTM D3416 Low Level Methane	3/19/2025
T-115	225100 15	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-115	225100 15	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-116	225100 16	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-116	225100 16	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-116	225100 16	ASTM D3416 Low Level Methane	3/19/2025
T-116	225100 16	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-116	225100 16	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-117	225100 17	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-117	225100 17	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-117	225100 17	ASTM D3416 Low Level Methane	3/19/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-117	225100 17	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-117	225100 17	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-118	225100 18	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-118	225100 18	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-118	225100 18	ASTM D3416 Low Level Methane	3/19/2025
T-118	225100 18	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-118	225100 18	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-201	225100 19	ASTM D3416 Low Level Methane	3/20/2025
T-201	225100 19	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-201	225100 19	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-201	225100 19	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-201	225100 19	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-202	225100 20	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-202	225100 20	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-202	225100 20	ASTM D3416 Low Level Methane	3/20/2025
T-202	225100 20	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-202	225100 20	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-203	225100 21	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-203	225100 21	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-203	225100 21	ASTM D3416 Low Level Methane	3/20/2025
T-203	225100 21	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-203	225100 21	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-204	225100 22	ASTM D3416 Low Level Methane	3/20/2025
T-204	225100 22	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-204	225100 22	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-204	225100 22	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-204	225100 22	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-205	225100 23	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-205	225100 23	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-205	225100 23	ASTM D3416 Low Level Methane	3/20/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-205	225100 23	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-205	225100 23	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-206	225100 24	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-206	225100 24	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-206	225100 24	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-206	225100 24	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-206	225100 24	ASTM D3416 Low Level Methane	3/20/2025
T-207	225100 25	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-207	225100 25	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-207	225100 25	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-207	225100 25	ASTM D3416 Low Level Methane	3/20/2025
T-207	225100 25	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-208	225100 26	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-208	225100 26	ASTM D3416 Low Level Methane	3/20/2025
T-208	225100 26	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-208	225100 26	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-208	225100 26	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-209	225100 27	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-209	225100 27	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-209	225100 27	ASTM D3416 Low Level Methane	3/20/2025
T-209	225100 27	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-209	225100 27	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-210	225100 28	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-210	225100 28	ASTM D3416 Low Level Methane	3/20/2025
T-210	225100 28	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-210	225100 28	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-210	225100 28	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-211	225100 29	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-211	225100 29	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-211	225100 29	EPA TO-12 C2 to C12 CRYO	3/20/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-211	225100 29	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-211	225100 29	ASTM D3416 Low Level Methane	3/20/2025
T-212	225100 30	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-212	225100 30	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-212	225100 30	ASTM D3416 Low Level Methane	3/20/2025
T-212	225100 30	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-212	225100 30	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-213	225100 31	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-213	225100 31	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-213	225100 31	ASTM D3416 Low Level Methane	3/20/2025
T-213	225100 31	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-213	225100 31	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-214	225100 32	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-214	225100 32	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-214	225100 32	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-214	225100 32	ASTM D3416 Low Level Methane	3/20/2025
T-214	225100 32	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-215	225100 33	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-215	225100 33	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-215	225100 33	ASTM D3416 Low Level Methane	3/20/2025
T-215	225100 33	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-215	225100 33	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-216	225100 34	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-216	225100 34	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-216	225100 34	ASTM D3416 Low Level Methane	3/20/2025
T-216	225100 34	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-216	225100 34	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-217	225100 35	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-217	225100 35	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-217	225100 35	ASTM D3416 Low Level Methane	3/20/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-217	225100 35	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-217	225100 35	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-218	225100 36	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-218	225100 36	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-218	225100 36	ASTM D3416 Low Level Methane	3/20/2025
T-218	225100 36	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-218	225100 36	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-301	225100 37	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-301	225100 37	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-301	225100 37	ASTM D3416 Low Level Methane	3/21/2025
T-301	225100 37	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-301	225100 37	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-302	225100 38	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-302	225100 38	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-302	225100 38	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-302	225100 38	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-302	225100 38	ASTM D3416 Low Level Methane	3/21/2025
T-303	225100 39	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-303	225100 39	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-303	225100 39	ASTM D3416 Low Level Methane	3/21/2025
T-303	225100 39	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-303	225100 39	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-304	225100 40	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-304	225100 40	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-304	225100 40	ASTM D3416 Low Level Methane	3/21/2025
T-304	225100 40	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-304	225100 40	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-305	225100 41	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-305	225100 41	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-305	225100 41	ASTM D3416 Low Level Methane	3/21/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-305	225100 41	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-305	225100 41	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-306	225100 42	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-306	225100 42	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-306	225100 42	ASTM D3416 Low Level Methane	3/21/2025
T-306	225100 42	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-306	225100 42	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-307	225100 43	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-307	225100 43	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-307	225100 43	ASTM D3416 Low Level Methane	3/21/2025
T-307	225100 43	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-307	225100 43	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-308	225100 44	ASTM D3416 Low Level Methane	3/21/2025
T-308	225100 44	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-308	225100 44	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-308	225100 44	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-308	225100 44	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-309	225100 45	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-309	225100 45	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-309	225100 45	ASTM D3416 Low Level Methane	3/21/2025
T-309	225100 45	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-309	225100 45	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-310	225100 46	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-310	225100 46	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-310	225100 46	ASTM D3416 Low Level Methane	3/21/2025
T-310	225100 46	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-310	225100 46	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-311	225100 47	ASTM D3416 Low Level Methane	3/21/2025
T-311	225100 47	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-311	225100 47	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-311	225100 47	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-311	225100 47	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-312	225100 48	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-312	225100 48	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-312	225100 48	ASTM D3416 Low Level Methane	3/21/2025
T-312	225100 48	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-312	225100 48	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-313	225100 49	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-313	225100 49	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-313	225100 49	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-313	225100 49	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-313	225100 49	ASTM D3416 Low Level Methane	3/21/2025
T-314	225100 50	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-314	225100 50	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-314	225100 50	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-314	225100 50	ASTM D3416 Low Level Methane	3/21/2025
T-314	225100 50	EPA TO-12 C2 to C12 CRYO	3/21/2025

Project Sample Media

SDG Number: 225100

The following sample media was used for this Sample Delivery Group (SDG). The Sample Media column identifies the type of media. For canisters, the Sample Media Batch gives the canister number followed by the cleaning batch number, which is a unique identification. The initial pressure of the canister when it is received is recorded. If the canister is not pressurized, the final pressure will be the same as the initial pressure. If the canister is pessurized the final pressure will be recorded, and the canister dilution factor is calculated as the ratio of the final to initial pressure. The results are adjusted for the can dilution factor.

SDG	Lab ID	Client Sample No.	Sample Media	Batch	Pressure, torr Initial	Final	Can Factor
225100	1	T-101	668		723	871	1.20
225100	2	T-102	895		734	913	1.24
225100	3	T-103	881		728	870	1.20
225100	4	T-104	860		723	947	1.31
225100	5	T-105	685		719	882	1.23
225100	6	T-106	621		718	880	1.23
225100	7	T-107	644		720	888	1.23
225100	8	T-108	556		702	886	1.26
225100	9	T-109	694		713	926	1.30
225100	10	T-110	857		707	901	1.27
225100	11	T-111	504		697	871	1.25
225100	12	T-112	631		714	882	1.24
225100	13	T-113	690		705	870	1.23
225100	14	T-114	645		701	888	1.27
225100	15	T-115	654		696	881	1.27
225100	16	T-116	782		706	881	1.25
225100	17	T-117	643		709	883	1.25
225100	18	T-118	553		783	891	1.14
225100	19	T-201	726		738	895	1.21
225100	20	T-202	883		739	873	1.18
225100	21	T-203	858		735	879	1.20
225100	22	T-204	758		743	874	1.18
225100	23	T-205	659		708	897	1.27
225100	24	T-206	882		710	883	1.24
225100	25	T-207	627		692	904	1.31

SDG	Lab ID	Client Sample No.	Sample Media	Batch	Pressure, torr Initial	Final	Can Factor
225100	26	T-208	791		709	890	1.26
225100	27	T-209	778		682	887	1.30
225100	28	T-210	714		695	882	1.27
225100	29	T-211	629		685	881	1.29
225100	30	T-212	502		687	930	1.35
225100	31	T-213	712		678	905	1.33
225100	32	T-214	610		786	875	1.11
225100	33	T-215	751		677	874	1.29
225100	34	T-216	896		632	874	1.38
225100	35	T-217	634		693	881	1.27
225100	36	T-218	698		692	877	1.27
225100	37	T-301	638		738	879	1.19
225100	38	T-302	857		734	872	1.19
225100	39	T-303	552		727	877	1.21
225100	40	T-304	529		731	878	1.20
225100	41	T-305	660		709	871	1.23
225100	42	T-306	859		722	874	1.21
225100	43	T-307	636		720	878	1.22
225100	44	T-308	661		717	875	1.22
225100	45	T-309	579		726	877	1.21
225100	46	T-310	771		679	874	1.29
225100	47	T-311	605		680	873	1.28
225100	48	T-312	990		689	913	1.33
225100	49	T-313	549		695	872	1.25
225100	50	T-314	784		701	876	1.25

Laboratory Case Narrative

EAS SDG Number: 225100 **Project Number:** 17807

Client: C.E. Schmidt

The Laboratory Case Narrative for the SDG is below. The Chain of Custody form(s) follow the Laboratory Case Narrative.

Sample Control Narrative

The samples were all received in good condition and with proper preservation.

Analytical Methods

The methods used for sample analysis are listed on the Analytyical Report header, and have been modified as described in the EAS Quality Manual..

Case Narrative

QC Narrative

All analyses met EAS method criteria as defined in the Quality Manual, except as noted in the report or QC reports with data qualifiers.

Subcontract Narrative

No sample analysis was subcontracted for this project

Laboratory Certification

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness other than the condition(s) noted above. The Laboratory Report is property of EAS and its client. The entire report has been reviewed and approved.

Date Approved: 4/15/2025

Steven D. Hoyt, Ph.D.
Environmental Analytical Service
Laboratory Director

CE Schmidt, PhD, Environmental Consultant

225100

TO-15 Day 1

Chain of Custody Record

Form Serial Number CES F1-02106	For Information Regarding These Samples Please Contact: **Dr. Charles E. Schmidt** 19200 Live Oak Road, Red Bluff, CA 96080 530-529-4256 Cell: 530-200-2473 E-Mail: SCHMIDTCE@aol.com
Client Name *SCS* ***Chiquita Canyon Landfill***	
Project Manager ***Pat Sullivan***	
Requested Completion Date	

Client Address and Phone Number
3900 Kilroy Airport Way, Suite 100
Long Beach, CA 90806 562-743-7895

Laboratory Name
EAS 17807

Laboratory Address
173 Cross Street
San Luis Obispo, CA 93401

Laboratory Phone
805-781-3585

Laboratory Contact
Dr. Steve Hoyt
stevehoyt@easlab.com

Station Number	Date	Time	COMP	GRAB	Sample ID Number	Can ID Number	# OF CONTAINERS	Sample Container: Vial	Can	Tube	Analysis Requested: TO-12 FID (TNMHC)	TO-14 FID (See back)	TO-15 (List on back)	Fixed gases (if List on back)		Can Pressure In (inches Hg)	Can Pressure Out (inches	Remarks
	3/19/2025	840		x	T - 101	668	1		x		x	x	x	x		-29	0	01
	3/19/2025	850		x	T - 102	615	1		x		x	x	x	x		-29	0	02
	3/19/2025	844		x	T - 103	881	1		x		x	x	x	x		-29	0	03
	3/19/2025	837		x	T - 104	860	1		x		x	x	x	x		-29	0	04
	3/19/2025	106		x	T - 105	625	1		x		x	x	x	x		-29	0	05
	3/19/2025	1022		x	T - 106	621	1		x		x	x	x	x		-29	0	06
	3/19/2025	1022		x	T - 107	644	1		x		x	x	x	x		-29	0	07
	3/19/2025	1020		x	T - 108	556	1		x		x	x	x	x		-29	0	08
	3/19/2025	1125		x	T - 109	654	1		x		x	x	x	x		-29	0	09
	3/19/2025	1232		x	T - 110	837	1		x		x	x	x	x		-29	0	10
	3/19/2025	1138		x	T - 111	854	1		x		x	x	x	x		-29	0	11
	3/19/2025	1131		x	T - 112	631	1		x		x	x	x	x		-29	0	12
	3/19/2025	1305		x	T - 113	690	1		x		x	x	x	x		-29	0	13
	3/19/2025	1311		x	T - 114	645	1		x		x	x	x	x		-29	0	14
	3/19/2025	1253		x	T - 115	654/654	1		x		x	x	x	x		-29	0	15
	3/19/2025	1303		x	T - 116	782	1		x		x	x	x	x		-29	0	16
	3/19/2025	1303		x	T - 117	643	1		x		x	x	x	x		-29	0	17
	3/19/2025	1325		x	T - 118	553	1		x		x	x	x	x		-29	0	18

Sampler CESCHMIDT	Date/Time 3/21/25 1130	Relinquished by CESCHMIDT	Date/Time 3/21/25 1130
Recieved by FEDEX	Date/Time	Relinquished by	Date/Time
Recieved by	Date/Time	Relinquished by	Date/Time
Recieved by Laboratory FEDEX	Date/Time 3/21/2025 1430	Sample Shipped Via UPS FEDEX BUS Other	
Remarks	**Do Not Pressurize with Helium**		

HAZWRAP/NEESA Y N
QC Level 1 2 3
COC
Ana Req
Cust Seal
Sample Condition

File: Chiquita Cyn Forms TO-15.xlsb Form: COC TO-15 D1

CE Schmidt, PhD, Environmental Consultant

Chain of Custody Record

22510D

TO-15 Day 2

Form Serial Number: CES F1-02106	For Information Regarding These Samples Please Contact:
Client Name: *SCS* / *Chiquita Canyon Landfill*	**Dr. Charles E. Schmidt**
Project Manager: *Pat Sullivan*	19200 Live Oak Road, Red Bluff, CA 96080
Requested Completion Date	530-529-4256 Cell: 530-200-2473
	E-Mail: SCHMIDTCE@aol.com

Client Address and Phone Number: *3900 Kilroy Airport Way, Suite 100, Long Beach, CA 90806 562-743-7895*

Laboratory Name: *EAS* 17807

Laboratory Address: *173 Cross Street, San Luis Obispo, CA 93401*

Laboratory Phone: *805-781-3585*

Laboratory Contact: *Dr. Steve Hoyt* *stevehoyt@easlab.com*

Station Number	Date	Time	COMP	GRAB	Sample ID Number	Can ID Number	# OF CONTAINERS	Sample Container: Vial	Can	Tube	Analysis Requested: TO-12 FID (TNMHC)	TO-14 FID (See back)	TO-15 (List on back)	Fixed gases (List on back)	Can Pressure In (inches Hg)	Can Pressure Out (inches	Remarks
	3/20/2025	823		x	T - 201	726	1		x		x	x	x	x	-29	0	19
	3/20/2025	838		x	T - 202	883	1		x		x	x	x	x	-29	0	20
	3/20/2025	833		x	T - 203	858	1		x		x	x	x	x	-29	0	21
	3/20/2025	829		x	T - 204	758	1		x		x	x	x	x	-29	0	22
	3/20/2025	1000		x	T - 205	659	1		x		x	x	x	x	-29	0	23
	3/20/2025	955		x	T - 206	892	1		x		x	x	x	x	-29	0	24
	3/20/2025	1005		x	T - 207	627	1		x		x	x	x	x	-29	0	25
	3/20/2025	1008		x	T - 208	791	1		x		x	x	x	x	-29	0	26
	3/20/2025	1121		x	T - 209	778	1		x		x	x	x	x	-29	0	27
	3/20/2025	1121		x	T - 210	714	1		x		x	x	x	x	-29	0	28
	3/20/2025	1126		x	T - 211	629	1		x		x	x	x	x	-29	0	29
	3/20/2025	1130		x	T - 212	502	1		x		x	x	x	x	-29	0	30
	3/20/2025	1130		x	T - 213	712	1		x		x	x	x	x	-29	0	31
	3/20/2025	1257		x	T - 214	610	1		x		x	x	x	x	-29	0	32
	11	1244	x		T 215	751	1		x		x	x	x	x	-29	0	33
	11	1246	x		T 216	876	1		x		x	x	x	x	-29	0	34
	11	1248	x		T 217	634	1		x		x	x	x	x	-29	0	35
	11	1242	x		T 218	698	1		x		x	x	x	x	-29	0	36

Sampler: CE SCHMIDT	Date/Time: 3/21/25 1130	Relinquished by: CE SCHMIDT	Date/Time: 3/21/25 1130
Recieved by: EAS	Date/Time	Relinquished by	Date/Time
Recieved by	Date/Time	Relinquished by	Date/Time
Recieved by Laboratory	Date/Time: 3/21/2025 1430	Sample Shipped Via: UPS FEDEX BUS Other	
Remarks	**Do Not Pressurize with Helium**		

HAZWRAP/NEESA Y N

QC Level 1 2 3

COC

Ana Req

Cust Seal

Sample Condition

File: Chiquita Cyn Forms TO-15.xlsb Form: COC TO-15 D2

CE Schmidt, PhD, Environmental Consultant

Chain of Custody Record

225100

TO-15 Day 3

Form Serial Number: CES F1-02106	For Information Regarding These Samples Please Contact:
Client Name: SCS / *Chiquita Canyon Landfill*	**Dr. Charles E. Schmidt**
Project Manager: *Pat Sullivan*	19200 Live Oak Road, Red Bluff, CA 96080
Requested Completion Date	530-529-4256 Cell: 530-200-2473
	E-Mail: SCHMIDTCE@aol.com

Client Address and Phone Number: ***3900 Kilroy Airport Way, Suite 100, Long Beach, CA 90806 562-743-7895***

Laboratory Name: *EAS* 17807

Laboratory Address: ***173 Cross Street, San Luis Obispo, CA 93401***

Laboratory Phone: ***805-781-3585***

Laboratory Contact: ***Dr. Steve Hoyt*** *stevehoyt@easlab.com*

Station Number	Date	Time	COMP	GRAB	Sample ID Number	Can ID Number	# OF CONTAINERS	Sample Container: Vial	Can	Tube	Analysis Requested: TO-12 FID (TNMHC)	TO-14 FID (See back)	TO-15 (List on back)	Fixed gases (fList on back)		Can Pressure In (inches Hg)	Can Pressure Out (inches	Remarks
	3/21/2025	758		x	T - 301	638	1		x		x	x	x	x		-29	0	37
	3/21/2025	804		x	T - 302	857	1		x		x	x	x	x		-29	0	38
	3/21/2025	805		x	T - 303	552	1		x		x	x	x	x		-29	0	39
	3/21/2025	758		x	T - 304	529	1		x		x	x	x	x		-29	0	40
	3/21/2025	922		x	T - 305	560	1		x		x	x	x	x		-28	0	41
	3/21/2025	913		x	T - 306	854	1		x		x	x	x	x		-29	0	42
	3/21/2025	910		x	T - 307	636	1		x		x	x	x	x		-29	0	43
	3/21/2025	918		x	T - 308	661	1		x		x	x	x	x		-29	0	44
	3/21/2025	924		x	T - 309	579	1		x		x	x	x	x		-29	0	45
	3/21/2025	1018		x	T - 310	771	1		x		x	x	x	x		-29	0	46
	3/21/2025	1035		x	T - 311	605	1		x		x	x	x	x		-29	0	47
	3/21/2025	1030		x	T - 312	790	1		x		x	x	x	x		-29	0	48
	3/21/2025	1031		x	T - 313	549	1		x		x	x	x	x		-29	0	49
	3/21/2025	1038		x	T - 314	784	1		x		x	x	x	x		-29	0	50

Sampler: CE SCHMIDT	Date/Time: 3/21/25 1130	Relinquished by: CE SCHMIDT	Date/Time: 3/21/25 1130
Recieved by: EAS	Date/Time	Relinquished by	Date/Time
Recieved by	Date/Time	Relinquished by	Date/Time
Recieved by Laboratory: BH	Date/Time: 3/21/2025 1430	Sample Shipped Via: UPS FEDEX BUS Other	
Remarks	**Do Not Pressurize with Helium**		

HAZWRAP/NEESA Y N
QC Level 1 2 3
COC
Ana Req
Cust Seal
Sample Condition

File: Chiquita Cyn Forms TO-15.xlsb Form: COC TO-15 D3

Section 2 Quality Control

This section contains the QC Reports for each Daily Analytical Batch (DAB) which make up the Sample Delivery Group (SDG). It also contains either the EAS or Project QC criteria that was used for the DAB. The methods used for this project have been modified from the original method. The modifications include modifications to the QC for the method. This is either because the method did not specify certain aspects of the QC, the method was originally designed for a different matrix, or additional compounds were added to the target list of the method which required modified QC. The QC modifications used by EAS follows those used by other air testing laboratories.

The Daily Analytical Batch data was checked against the QC criteria for the method. Any deviations from the QC criteria are listed on the QC Reports for each DAB, which are summarized in this section and are given in more detail in Section 4 which has the Quantitation Reports and Calculations for the Samples, Method Blank, Lab Control Spikes, as well as the Initial Calibration and Continuing Calibration. This section contains the following:

Section Contents

Project QC Critera

DAB Quality Control Reports

- Method Blank
- Laboratory Control Spike
- Laboratory Control Duplicate
- Continuing Calibration

Quality Control Report

EAS SDG Number: 225100

Project Number: 17807

QC Narrative

Samples were anlayzed in a daily analytical batch (DAB) designated by a QC batch number, and were analyzed using EAS standard laboratory QC specified in the EAS Quality Manual which may be different then the referrenced agency method. Any deviations from the EAS QC criteria are flagged in the Laboratory Control Reports or in the sample Analytical Reports.

Standard Laboratory QC Report

Unless project specific QC was requested, this Section containing the standard laboratory QC (Level 2) supplied with the Analytical Reports. Each sample is analyzed in a Daily Analytical Batch (DAB) which includes the method blank, a laboratory control spike (LCS) and a laboratory control duplicate (LCD). A Daily Analytical Batch QC report is supplied for each method requested.

Method Blank

The method blank is a laboratory generated sample which assesses the degree to which laboratory operations cause a false positive. The target analytes in the analytical reports for a daily analytical batch are "B" flagged if their concentrations are present in the Method Blank above the RL, unless the result is greater then ten times the blank value..

Laboratory Control Spike

A laboratory control spike is a well characterized matrix similar to the sample which is spiked and run in duplicate with each Daily Analytical Batch. The laboratory control spike results are reported as a percent recovery. The QC Criteria for the control spike is listed in the Laboratory Control Report. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report. The control spike contains an abbreviated list of compounds in the method, and may contain compounds not on the target list for the specified report.

Laboratory Control Duplicate

The laboratory control duplicate is a duplicate analysis of the laboratory control spike, a standard, or a sample depending on the method. The results are reported as a relative percent difference (RPD). The criteria for the duplicate is in the Laboratory Control Report for the Daily Analytical Batch. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report.

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: LABQC
Laboratory Number: B03245

File Name: B03245A
Description: METHOD BLANK
Can/Tube#: 307
QC_Batch: 032425-GCL

Date Sampled: **Time:**
Date Analyzed: 03/24/25 **Time:** 12:29
Dilution Factor: 1.00

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.50	1.50	ND	0.33	0.98	ND	

QUALITY CONTROL SPIKE

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

ASTM D3416 Methane by GC/FID
Analytical Method: **ASTM D3416**

Date: 03/24/25
QC_Batch: 032425-GCL

		LCS Recovery		LCD Recovery		Spike Limit LCL	Spike Limit UCL	Duplicate	Duplicate Limit	
CAS#	Compound	%	Flag	%	Flag	%	%	%	%	Flag
74-82-8	Methane	86		91		70	130	5	25	

LCS- Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicates out of Limit

Section 3 Analytical Methods

This section has information on the analytial methods and a copy of the analytical reports for the Sample Delivery Group (SDG) listed below. The reports are organized in order of the EAS Laboratory Number.

Section Contents

Analytical Method Description(s)

Analytical Reports

Analytical Reports

EAS SDG Number: 225100

Project Number: 17807

The following pages contain the certified Analytical Reports for the samples submitted in the Sample Delivery Group (SDG) and are in order of the EAS Lab ID number. All of the analytical methods used are modifications of the published methods. Procedural method modifications, QC modifications, QC Criteria modifications, target lists, definitions of detection limits, and flags are all explained in detail in the EAS Quality Manual. The Analytical Report has columns for the method detection limit (MDL), the reporting limit (RL), and the Amount. The Amount is the concentration of the compound in the sample. The report usually has the results reported with two commonly used units. The MDL, RL, and Amount are adjusted for the canister dilution factor and any dilution caused by sample matrix effects.

NELAC CERTIFICATION

EAS is accredited by the National Environmental Laboratory Accreditation (NELAC) with the Florida Department of Health, one of the NELAC certifying states. EAS is certified for the EPA TO-15, EPA TO-11 and EPA TO-4 methods. A list of accredited compounds is available on request.

DETECTION LIMITS

MDL: The MDL is lowest concentration that can be measured to be statistically above the noise level and is determined using the EPA 2016 method which uses the standard deviation of replicate measurements made over time. The method also incorporates systematic instrumentation blank levels. See Quality Manual for detailed explanation.

RL: The reporting limit (RL) is the lowest concentration that can be reliably reported for each compound that meets the QC Criteria for the method, background levels, or project specific considerations. The QC criteria level for the method blank is to be less then the RL See Quality Manual for more information.

DATA FLAGS

In the standard report, if a compound is not detected above the method detection limit, a "ND" is in the Amount column. The flag column is used for both the not detect flag and for any data flags.

B - This compound was detected in the batch method blank above the reporting limit and is greater then one tenth the amount in the sample.

E - This compound exceeds the calibration range for this sample volume.

J - The amount reported is estimated because it was below the RL and could be below the lowest calibration point, have higher uncertainty, or could be the result of system background

SIGNIFICANT FIGURES

Based on the uncertainty in the methods, the numbers on the Analytical Reports should be used with only two significant digits. Additional significant figures are reported for ease of use and to avoid rounding errors when used in further calculations.

UNITS

PPBV or PPMV: Parts-per-billion (or million) by volume is a mole (volume) ratio of the moles of analyte divided by the moles of air (gas). This is the primary unit used to report air or gas concentrations and is independent of temperature and pressure.

UG/M3 OR MG/M3: The reported result was calculated based on 1 atm pressure and a temperature of 25C. The conversion from PPBV is: UG/M3 = PPBV x MW/24.46 where 24.26 is the gas constant and MW is the Compounds Molecular Weight (sometimes called Formula Weight)

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 01

File Name: 2510001A
Description: T-101
Can/Tube#: 668
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 8:40
Date Analyzed: 03/24/25 **Time:** 12:49
Dilution Factor: 1.20

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.60	1.81	0.93	0.39	1.18	0.61	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 02

File Name: 2510002A
Description: T-102
Can/Tube#: 895
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 8:50
Date Analyzed: 03/24/25 **Time:** 12:55
Dilution Factor: 1.24

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.62	1.87	1.15	0.41	1.22	0.76	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 03

File Name:	2510003A	**Date Sampled:**	03/19/25	**Time:**	8:44
Description:	T-103	**Date Analyzed:**	03/24/25	**Time:**	13:03
Can/Tube#:	881	**Dilution Factor:**	1.20		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.60	1.79	2.69	0.39	1.18	1.77	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 04

File Name: 2510004A
Description: T-104
Can/Tube#: 860
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 8:37
Date Analyzed: 03/24/25 **Time:** 13:10
Dilution Factor: 1.31

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.65	1.96	202.37	0.43	1.29	132.70	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: **ASTM D3416**

SDG: **225100**
Laboratory Number: **05**

File Name:	2510005A	**Date Sampled:**	03/19/25	**Time:**	10:16
Description:	T-105	**Date Analyzed:**	03/24/25	**Time:**	13:16
Can/Tube#:	685	**Dilution Factor:**	1.23		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.61	1.84	5.57	0.40	1.21	3.65	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 06

File Name: 2510006A
Description: T-106
Can/Tube#: 621
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 10:22
Date Analyzed: 03/24/25 **Time:** 13:22
Dilution Factor: 1.23

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.61	1.84	3.22	0.40	1.21	2.11	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 07

File Name: 2510007A
Description: T-107
Can/Tube#: 644
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 10:22
Date Analyzed: 03/24/25 **Time:** 13:31
Dilution Factor: 1.23

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.62	1.85	4.45	0.40	1.21	2.92	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: **ASTM D3416**

SDG: **225100**
Laboratory Number: **08**

File Name: 2510008A
Description: T-108
Can/Tube#: 556
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 10:30
Date Analyzed: 03/24/25 **Time:** 13:47
Dilution Factor: 1.26

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.63	1.89	174,161.27	0.41	1.24	114,204.11	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: **ASTM D3416**

SDG: **225100**
Laboratory Number: **09**

File Name: 2510009A
Description: T-109
Can/Tube#: 694
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 11:25
Date Analyzed: 03/24/25 **Time:** 13:57
Dilution Factor: 1.30

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.65	1.95	12.11	0.43	1.28	7.94	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 10

File Name: 2510010A
Description: T-110
Can/Tube#: 857
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 11:32
Date Analyzed: 03/24/25 **Time:** 14:05
Dilution Factor: 1.27

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.64	1.91	15.15	0.42	1.25	9.93	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: **ASTM D3416**

SDG: **225100**
Laboratory Number: **11**

File Name: 2510011A
Description: T-111
Can/Tube#: 504
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 11:32
Date Analyzed: 03/24/25 **Time:** 14:11
Dilution Factor: 1.25

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.62	1.87	7.02	0.41	1.23	4.60	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 12

File Name: 2510012A
Description: T-112
Can/Tube#: 631
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 11:38
Date Analyzed: 03/24/25 **Time:** 14:18
Dilution Factor: 1.24

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.62	1.85	12.01	0.41	1.22	7.87	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 13

File Name: 2510013A
Description: T-113
Can/Tube#: 690
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 13:05
Date Analyzed: 03/24/25 **Time:** 14:24
Dilution Factor: 1.23

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.62	1.85	1.67	0.40	1.21	1.09	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 14

File Name: 2510014A
Description: T-114
Can/Tube#: 645
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 13:11
Date Analyzed: 03/24/25 **Time:** 14:31
Dilution Factor: 1.27

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.63	1.90	1.12	0.42	1.25	0.73	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: **ASTM D3416**

SDG: **225100**
Laboratory Number: **15**

File Name: 2510015A
Description: T-115
Can/Tube#: 654
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 12:53
Date Analyzed: 03/24/25 **Time:** 14:36
Dilution Factor: 1.27

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.63	1.90	ND	0.42	1.25	ND	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: **ASTM D3416**

SDG: **225100**
Laboratory Number: **16**

File Name: 2510016A
Description: T-116
Can/Tube#: 782
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 13:03
Date Analyzed: 03/24/25 **Time:** 14:45
Dilution Factor: 1.48

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.74	2.22	ND	0.48	1.45	ND	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 17

File Name: 2510017A
Description: T-117
Can/Tube#: 643
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 13:03
Date Analyzed: 03/24/25 **Time:** 14:51
Dilution Factor: 1.25

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.62	1.87	ND	0.41	1.22	ND	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: **ASTM D3416**

SDG: **225100**
Laboratory Number: **18**

File Name: 2510018A
Description: T-118
Can/Tube#: 553
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 13:25
Date Analyzed: 03/24/25 **Time:** 14:57
Dilution Factor: 1.14

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.57	1.71	ND	0.37	1.12	ND	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: **ASTM D3416**

SDG: **225100**
Laboratory Number: **19**

File Name: 2510019A
Description: T-201
Can/Tube#: 726
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 8:23
Date Analyzed: 03/24/25 **Time:** 15:06
Dilution Factor: 1.21

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.61	1.82	5.69	0.40	1.19	3.73	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: **ASTM D3416**

SDG: **225100**
Laboratory Number: **20**

File Name: 2510020A
Description: T-202
Can/Tube#: 883
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 8:38
Date Analyzed: 03/24/25 **Time:** 15:15
Dilution Factor: 1.18

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.59	1.77	107.81	0.39	1.16	70.69	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 21

File Name: 2510021A
Description: T-203
Can/Tube#: 858
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 8:33
Date Analyzed: 03/24/25 **Time:** 15:34
Dilution Factor: 1.20

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.60	1.79	4,572.23	0.39	1.18	2,998.18	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 22

File Name: 2510022A
Description: T-204
Can/Tube#: 758
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 8:29
Date Analyzed: 03/24/25 **Time:** 15:43
Dilution Factor: 1.18

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.59	1.76	273.23	0.39	1.16	179.17	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 23

File Name: 2510023A
Description: T-205
Can/Tube#: 659
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 10:00
Date Analyzed: 03/24/25 **Time:** 15:50
Dilution Factor: 1.27

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.63	1.90	88.05	0.42	1.25	57.73	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 24

File Name: 2510024A
Description: T-206
Can/Tube#: 882
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 9:55
Date Analyzed: 03/24/25 **Time:** 16:05
Dilution Factor: 1.24

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.62	1.87	1,769.67	0.41	1.22	1,160.44	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 25

File Name: 2510025A
Description: T-207
Can/Tube#: 627
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 10:05
Date Analyzed: 03/24/25 **Time:** 16:19
Dilution Factor: 1.31

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.65	1.96	271.62	0.43	1.28	178.11	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: **ASTM D3416**

SDG: **225100**
Laboratory Number: **26**

File Name: 2510026A
Description: T-208
Can/Tube#: 791
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 10:08
Date Analyzed: 03/24/25 **Time:** 16:27
Dilution Factor: 1.26

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.63	1.88	322.09	0.41	1.23	211.21	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 27

File Name: 2510027A
Description: T-209
Can/Tube#: 778
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 11:21
Date Analyzed: 03/24/25 **Time:** 16:43
Dilution Factor: 1.30

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.65	1.95	ND	0.43	1.28	ND	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 28

File Name: 2510028A
Description: T-210
Can/Tube#: 714
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 11:21
Date Analyzed: 03/24/25 **Time:** 16:51
Dilution Factor: 1.27

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.63	1.90	2.43	0.42	1.25	1.59	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 29

File Name: 2510029A
Description: T-211
Can/Tube#: 629
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 11:26
Date Analyzed: 03/24/25 **Time:** 16:58
Dilution Factor: 1.29

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.64	1.93	ND	0.42	1.27	ND	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: **ASTM D3416**

SDG: **225100**
Laboratory Number: **30**

File Name: 2510030A
Description: T-212
Can/Tube#: 502
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 11:30
Date Analyzed: 03/24/25 **Time:** 17:08
Dilution Factor: 1.35

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.68	2.03	ND	0.44	1.33	ND	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 31

File Name: 2510031A
Description: T-213
Can/Tube#: 712
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 11:30
Date Analyzed: 03/24/25 **Time:** 17:24
Dilution Factor: 1.33

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.67	2.00	ND	0.44	1.31	ND	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 32

File Name: 2510032A
Description: T-214
Can/Tube#: 610
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 12:57
Date Analyzed: 03/24/25 **Time:** 17:30
Dilution Factor: 1.11

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.56	1.67	ND	0.36	1.09	ND	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

SDG: 225100
Modified Analytical Method: ASTM D3416 **Laboratory Number:** 33

File Name:	2510033A	**Date Sampled:**	03/20/25	**Time:**	12:44
Description:	T-215	**Date Analyzed:**	03/24/25	**Time:**	17:37
Can/Tube#:	751	**Dilution Factor:**	1.29		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.65	1.94	2.70	0.42	1.27	1.77	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 34

File Name: 2510034A
Description: T-216
Can/Tube#: 896
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 12:46
Date Analyzed: 03/24/25 **Time:** 17:46
Dilution Factor: 1.38

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.69	2.07	ND	0.45	1.36	ND	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 35

File Name: 2510035A
Description: T-217
Can/Tube#: 634
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 12:48
Date Analyzed: 03/24/25 **Time:** 17:53
Dilution Factor: 1.27

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.64	1.91	4.41	0.42	1.25	2.89	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 36

File Name: 2510036A
Description: T-218
Can/Tube#: 698
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 12:42
Date Analyzed: 03/24/25 **Time:** 18:09
Dilution Factor: 1.27

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.63	1.90	9,479.95	0.42	1.25	6,216.36	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 37

File Name: 2510037A
Description: T-301
Can/Tube#: 638
QC_Batch: 032425-GCL

Date Sampled: 03/21/25 **Time:** 7:58
Date Analyzed: 03/24/25 **Time:** 18:23
Dilution Factor: 1.19

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.59	1.78	1.40	0.39	1.17	0.92	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 38

File Name: 2510038A
Description: T-302
Can/Tube#: 857
QC_Batch: 032425-GCL

Date Sampled: 03/21/25 **Time:** 8:04
Date Analyzed: 03/24/25 **Time:** 18:16
Dilution Factor: 1.19

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.60	1.79	5.00	0.39	1.17	3.28	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 39

File Name: 2510039A
Description: T-303
Can/Tube#: 552
QC_Batch: 032425-GCL

Date Sampled: 03/21/25 **Time:** 8:05
Date Analyzed: 03/24/25 **Time:** 18:39
Dilution Factor: 1.19

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.59	1.78	12.76	0.39	1.17	8.37	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 40

File Name: 2510040A
Description: T-304
Can/Tube#: 529
QC_Batch: 032425-GCL

Date Sampled: 03/21/25 **Time:** 7:58
Date Analyzed: 03/24/25 **Time:** 18:32
Dilution Factor: 1.21

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.60	1.81	1,304.26	0.40	1.19	855.26	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 41

File Name: 2510041A
Description: T-305
Can/Tube#: 660
QC_Batch: 032425-GCL

Date Sampled: 03/21/25 **Time:** 9:22
Date Analyzed: 03/24/25 **Time:** 19:04
Dilution Factor: 1.23

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.61	1.84	1,680.23	0.40	1.21	1,101.79	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

SDG: 225100
Modified Analytical Method: ASTM D3416 **Laboratory Number:** 42

File Name:	2510042A	**Date Sampled:**	03/21/25	**Time:**	9:13
Description:	T-306	**Date Analyzed:**	03/24/25	**Time:**	19:31
Can/Tube#:	859	**Dilution Factor:**	1.21		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.61	1.82	5.73	0.40	1.19	3.76	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 43

File Name: 2510043A
Description: T-307
Can/Tube#: 636
QC_Batch: 032425-GCL

Date Sampled: 03/21/25 **Time:** 9:10
Date Analyzed: 03/24/25 **Time:** 19:49
Dilution Factor: 1.22

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.61	1.83	3.16	0.40	1.20	2.07	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 44

File Name: 2510044A
Description: T-308
Can/Tube#: 661
QC_Batch: 032425-GCL

Date Sampled: 03/21/25 **Time:** 9:18
Date Analyzed: 03/24/25 **Time:** 19:56
Dilution Factor: 1.22

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.61	1.83	206.68	0.40	1.20	135.53	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 45

File Name: 2510045A
Description: T-309
Can/Tube#: 579
QC_Batch: 032425-GCL

Date Sampled: 03/21/25 **Time:** 9:24
Date Analyzed: 03/24/25 **Time:** 20:05
Dilution Factor: 1.21

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.60	1.81	134.33	0.40	1.19	88.09	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 46

File Name: 2510046A
Description: T-310
Can/Tube#: 771
QC_Batch: 032425-GCL

Date Sampled: 03/21/25 **Time:** 10:48
Date Analyzed: 03/24/25 **Time:** 20:10
Dilution Factor: 1.29

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.64	1.93	ND	0.42	1.27	ND	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 47

File Name: 2510047A
Description: T-311
Can/Tube#: 605
QC_Batch: 032425-GCL

Date Sampled: 03/21/25 **Time:** 10:35
Date Analyzed: 03/24/25 **Time:** 20:17
Dilution Factor: 1.28

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.64	1.93	15.20	0.42	1.26	9.97	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 48

File Name: 2510048A
Description: T-312
Can/Tube#: 990
QC_Batch: 032425-GCL

Date Sampled: 03/21/25 **Time:** 10:30
Date Analyzed: 03/24/25 **Time:** 20:28
Dilution Factor: 1.33

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.66	1.99	139.90	0.43	1.30	91.74	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 49

File Name: 2510049A
Description: T-313
Can/Tube#: 549
QC_Batch: 032425-GCL

Date Sampled: 03/21/25 **Time:** 10:31
Date Analyzed: 03/24/25 **Time:** 20:42
Dilution Factor: 1.25

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.63	1.88	26.52	0.41	1.23	17.39	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 50

File Name: 2510050A
Description: T-314
Can/Tube#: 784
QC_Batch: 032425-GCL

Date Sampled: 03/21/25 **Time:** 10:38
Date Analyzed: 03/24/25 **Time:** 20:50
Dilution Factor: 1.25

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.62	1.87	260.80	0.41	1.23	171.02	

Section 4 Data Package

This section contains the Data Packages for the samples, blanks, and calibration. Each package has the analytical report, quantitation report, calculation sheet, instrument quantation report, and chromatograms.

Items provided in Data Package:

DAB Run Logs and Preparation Logs

Sample Packages

Blank Package for each Daily Analytical Batch

Quality Control Reports, LCS,LCD for each Daily Analytical Batch

Continuing Calibration Package for Each Daily Analytical Batch

Initial Calibration Data

DAB Run Logs and Preparation Logs

Samples are analyzed in a Daily Analytical Batch (DAB) on an instrument.
The DAB identifier is on each analytial report in the field called QC Batch.
This section contains the DAB Log Sheets and Preparation Logs.

Index

DAB Run Logs
Other Log Sheets

DAILY ANALYTICAL BATCH FORM

DAB 032425 - GCL

ANALYST REPORT

Method 3416CH4 Chemist RA

	NA	Passed	Out
Instrument Tune	☑	☐	☐
GC/MS BFBTune	☑	☐	☐
Continuing Calibration	☐	☑	☐
Instrument Blank	☐	☑	☐
LCS	☐	☑	☐
LCD	☐	☑	☐

PASSING DAB NOTES:

OUT Narrative:

Analyst Certification

Out of Limits QC Approval

DATA PROCESSING

SDG 225180

Lab ID 1-50

	Processed
Continuing Calibration	☑
Method Blank	☑
Samples	☑
LCS/LCD	☑

Data Processing Chemist Certification

☑ Ready for Review

DATA REVIEW

Data Review Chemist Certification

☐ Reviewed

Daily Analytical Batch

DAB: 032425-GCL

GCL

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
032425-GCL	01	GCL	STD			C03245A		ST63414	100%	5	DA		3416CH4			
032425-GCL	02	GCL	STD			C03245B		ST63414	100%	5	DA		3416CH4			
032425-GCL	03	GCL	STD			C03245C		ST63414	10%	5	DA		3416CH4			
032425-GCL	04	GCL	STD			C03245D		ST63414	10%	5	DA		3416CH4			
032425-GCL	05	GCL	STD			C03245E		ST63414	5%	5	DA		3416CH4			
032425-GCL	06	GCL	SPK			QC03245A		ABT AIR	OUTDOOR AIR	5	DA		3416CH4			
032425-GCL	07	GCL	SPK			QC03245B		ABT AIR	OUTDOOR AIR	5	DA		3416CH4			
032425-GCL	08	GCL	SPK			QC03245C		ABT AIR	OUTDOOR AIR	5	DA		3416CH4			
032425-GCL	09	GCL	SPK			QC03245D		ABT AIR	OUTDOOR AIR	5	DA		3416CH4			
032425-GCL	10	GCL	BLK			B03245A	307	METHOD BLANK		5	DA		3416CH4			
032425-GCL	11	GCL	SA	225100	01	2510001A	668	T-101	SCHMIDT	5	DA		3416CH4			
032425-GCL	12	GCL	SA	225100	02	2510002A	895	T-102	SCHMIDT	5	DA		3416CH4			
032425-GCL	13	GCL	SA	225100	03	2510003A	881	T-103	SCHMIDT	5	DA		3416CH4			
032425-GCL	14	GCL	SA	225100	04	2510004A	860	T-104	SCHMIDT	5	DA		3416CH4			
032425-GCL	15	GCL	SA	225100	05	2510005A	685	T-105	SCHMIDT	5	DA		3416CH4			
032425-GCL	16	GCL	SA	225100	06	2510006A	621	T-106	SCHMIDT	5	DA		3416CH4			
032425-GCL	17	GCL	SA	225100	07	2510007A	644	T-107	SCHMIDT	5	DA		3416CH4			
032425-GCL	18	GCL	SA	225100	08	2510008A	556	T-108	SCHMIDT	5	DA		3416CH4			
032425-GCL	19	GCL	SA	225100	08	2510008B	556	T-108	SCHMIDT	5	DA		3416CH4	EXTENDED R		

REVIEWED

Daily Analytical Batch

DAB: 032425-GCL

GCL

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
032425-GCL	20	GCL	SA	225100	09	2510009A	694	T-109	SCHMIDT	5	DA		3416CH4			
032425-GCL	21	GCL	SA	225100	10	2510010A	837	T-110	SCHMIDT	5	DA		3416CH4			
032425-GCL	22	GCL	SA	225100	11	2510011A	504	T-111	SCHMIDT	5	DA		3416CH4			
032425-GCL	23	GCL	SA	225100	12	2510012A	631	T-112	SCHMIDT	5	DA		3416CH4			
032425-GCL	24	GCL	SA	225100	13	2510013A	690	T-113	SCHMIDT	5	DA		3416CH4			
032425-GCL	25	GCL	SA	225100	14	2510014A	645	T-114	SCHMIDT	5	DA		3416CH4			
032425-GCL	26	GCL	SA	225100	15	2510015A	654	T-115	SCHMIDT	5	DA		3416CH4			
032425-GCL	27	GCL	SA	225100	16	2510016A	782	T-116	SCHMIDT	5	DA		3416CH4			
032425-GCL	28	GCL	SA	225100	17	2510017A	643	T-117	SCHMIDT	5	DA		3416CH4			
032425-GCL	29	GCL	SA	225100	18	2510018A	553	T-118	SCHMIDT	5	DA		3416CH4			
032425-GCL	30	GCL	SA	225100	19	2510019A	726	T-201	SCHMIDT	5	DA		3416CH4			
032425-GCL	31	GCL	SA	225100	20	2510020A	883	T-202	SCHMIDT	5	DA		3416CH4			
032425-GCL	32	GCL	SA	225100	21	2510021A	858	T-203	SCHMIDT	5	LR		3416CH4			
032425-GCL	33	GCL	SA	225100	22	2510022A	158	T-204	SCHMIDT	5	LR		3416CH4			
032425-GCL	34	GCL	SA	225100	23	2510023A	659	T-205	SCHMIDT	5	LR		3416CH4			
032425-GCL	35	GCL	SA	225100	24	2510024A	882	T-206	SCHMIDT	5	LR		3416CH4			
032425-GCL	36	GCL	SA	225100	25	2510025A	627	T-207	SCHMIDT	5	LR		3416CH4			
032425-GCL	37	GCL	SA	225100	26	2510026A	791	T-208	SCHMIDT	5	LR		3416CH4			
032425-GCL	38	GCL	SA	225100	27	2510027A	778	T-209	SCHMIDT	5	LR		3416CH4			

REVIEWED

Daily Analytical Batch

DAB: 032425-GCL

GCL

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
032425-GCL	39	GCL	SA	225100	28	2510028A	714	T-210	SCHMIDT	5	LR		3416CH4			
032425-GCL	40	GCL	SA	225100	29	2510029A	629	T-211	SCHMIDT	5	LR		3416CH4			
032425-GCL	41	GCL	SA	225100	30	2510030A	502	T-212	SCHMIDT	5	LR		3416CH4			
032425-GCL	42	GCL	SA	225100	31	2510031A	712	T-213	SCHMIDT	5	LR		3416CH4			
032425-GCL	43	GCL	SA	225100	32	2510032A	610	T-214	SCHMIDT	5	LR		3416CH4			
032425-GCL	44	GCL	SA	225100	33	2510033A	751	T-215	SCHMIDT	5	LR		3416CH4			
032425-GCL	45	GCL	SA	225100	34	2510034A	896	T-216	SCHMIDT	5	LR		3416CH4			
032425-GCL	46	GCL	SA	225100	35	2510035A	634	T-217	SCHMIDT	5	LR		3416CH4			
032425-GCL	47	GCL	SA	225100	36	2510036A	698	T-218	SCHMIDT	5	LR		3416CH4			
032425-GCL	48	GCL	SA	225100	37	2510037A	857	T-302	SCHMIDT	5	LR		3416CH4			
032425-GCL	49	GCL	SA	225100	38	2510038A	638	T-301	SCHMIDT	5	LR		3416CH4			
032425-GCL	50	GCL	SA	225100	39	2510039A	529	T-304	SCHMIDT	5	LR		3416CH4			
032425-GCL	51	GCL	SA	225100	40	2510040A	552	T-303	SCHMIDT	5	LR		3416CH4			
032425-GCL	52	GCL	SA	225100	41	2510041A	660	T-305	SCHMIDT	5	LR		3416CH4			
032425-GCL	53	GCL	SA	225100	42	2510042A	859	T-306	SCHMIDT	5	LR		3416CH4			
032425-GCL	54	GCL	SA	225100	43	2510043A	636	T-307	SCHMIDT	5	LR		3416CH4			
032425-GCL	55	GCL	SA	225100	44	2510044A	661	T-308	SCHMIDT	5	LR		3416CH4			
032425-GCL	56	GCL	SA	225100	45	2510045A	539	T-309	SCHMIDT	5	LR		3416CH4			
032425-GCL	57	GCL	SA	225100	46	2510046A	771	T-310	SCHMIDT	5	LR		3416CH4			

REVIEWED

Daily Analytical Batch

DAB: 032425-GCL

GCL

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
032425-GCL	58	GCL	SA	225100	47	2510047A	605	T-311	SCHMIDT	5	LR		3416CH4			
032425-GCL	59	GCL	SA	225100	48	2510048A	990	T-312	SCHMIDT	5	LR		3416CH4			
032425-GCL	60	GCL	SA	225100	49	2510049A	549	T-313	SCHMIDT	5	LR		3416CH4			
032425-GCL	61	GCL	SA	225100	50	2510050A	784	T-314	SCHMIDT	5	LR		3416CH4			

REVIEWED

Laboratory Worksheet

Due: **Expires:** **4/18/2025** **225100** **1**

Client: C.E. Schmidt
Client ID: T-101
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 668
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 8:40
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	723			
Final:	871			
Factor:	1.20			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 2

Client: C.E. Schmidt
Client ID: T-102
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 895
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:50
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	734			
Final:	913			
Factor:	1.24			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 3

Client: C.E. Schmidt
Client ID: T-103
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 881
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:44
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	728		
Final:	870		
Factor:	1.20		

LABORATORY **Analytical Test:**

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 4

Client: C.E. Schmidt
Client ID: T-104
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 860
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:37
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	723			
Final:	947			
Factor:	1.31			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 5

Client: C.E. Schmidt
Client ID: T-105
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 685
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:16
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	719			
Final:	882			
Factor:	1.23			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 6

Client: C.E. Schmidt
Client ID: T-106
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 621
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:22
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	718			
Final:	880			
Factor:	1.23			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 7

Client: C.E. Schmidt
Client ID: T-107
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 644
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:22
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	720			
Final:	888			
Factor:	1.23			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 **225100** **8**

Client:	C.E. Schmidt	**MS Load Vol:**	300
Client ID:	T-108	**MS SIM Vol:**	
Description:		**GCK Load Vol:**	200
Project Name:	Chiquita Canyon	**GCP Load Vol:**	
EAS Project:	17807 **EAS PM:** David Atkinson	**Sample Volume:**	

Media:	CAN	**Can Pressurization:**	**Sampled:**	3/19/2025	**Time:** 10:30
Can Number:	556		**Received:**	3/21/2025	**Time:** 14:30
FC Number:	0	**Date:**			
TAT Working:		**Initial :**	702		
Sampling Time:		**Final:**	886		
Flow:		**Factor:**	1.26		

LABORATORY **Analytical Test:** **Sample Location:** Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 9

Client: C.E. Schmidt
Client ID: T-109
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 694
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:25
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	713		
Final:	926		
Factor:	1.30		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 10

Client:	C.E. Schmidt	**MS Load Vol:**	300
Client ID:	T-110	**MS SIM Vol:**	
Description:		**GCK Load Vol:**	200
Project Name:	Chiquita Canyon	**GCP Load Vol:**	
EAS Project:	17807 **EAS PM:** David Atkinson	**Sample Volume:**	

Media:	CAN	**Can Pressurization:**	**Sampled:**	3/19/2025	**Time:** 11:32
Can Number:	857		**Received:**	3/21/2025	**Time:** 14:30
FC Number:	0				
TAT Working:		**Date:**			
Sampling Time:		**Initial :**	707		
Flow:		**Final:**	901		
		Factor:	1.27		

LABORATORY **Analytical Test:** **Sample Location:** Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 11

Client: C.E. Schmidt
Client ID: T-111
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 504
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:32
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	697			
Final:	871			
Factor:	1.25			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 12

Client: C.E. Schmidt
Client ID: T-112
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 631
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:38
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	714			
Final:	882			
Factor:	1.24			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 13

Client: C.E. Schmidt
Client ID: T-113
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 690
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:05
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	705			
Final:	870			
Factor:	1.23			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 14

Client: C.E. Schmidt
Client ID: T-114
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 645
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:11
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	701			
Final:	888			
Factor:	1.27			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 15

Client:	C.E. Schmidt	**MS Load Vol:**	300
Client ID:	T-115	**MS SIM Vol:**	
Description:		**GCK Load Vol:**	200
Project Name:	Chiquita Canyon	**GCP Load Vol:**	
EAS Project:	17807 **EAS PM:** David Atkinson	**Sample Volume:**	

Media:	CAN	**Can Pressurization:**	**Sampled:**	3/19/2025	**Time:** 12:53
Can Number:	654		**Received:**	3/21/2025	**Time:** 14:30
FC Number:	0	**Date:**			
TAT Working:		**Initial :**	696		
Sampling Time:		**Final:**	881		
Flow:		**Factor:**	1.27		

LABORATORY **Analytical Test:** **Sample Location:** Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 16

Client: C.E. Schmidt
Client ID: T-116
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 782
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:03
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	706			
Final:	881			
Factor:	1.25			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 17

Client: C.E. Schmidt
Client ID: T-117
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 643
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:03
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	709			
Final:	883			
Factor:	1.25			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 18

Client: C.E. Schmidt
Client ID: T-118
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 553
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:25
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	783			
Final:	891			
Factor:	1.14			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 19

Client:	C.E. Schmidt	**MS Load Vol:**	300
Client ID:	T-201	**MS SIM Vol:**	
Description:		**GCK Load Vol:**	200
Project Name:	Chiquita Canyon	**GCP Load Vol:**	
EAS Project:	17807 **EAS PM:** David Atkinson	**Sample Volume:**	

Media:	CAN	**Can Pressurization:**	**Sampled:**	3/20/2025	**Time:** 8:23
Can Number:	726		**Received:**	3/21/2025	**Time:** 14:30
FC Number:	0	**Date:**			
TAT Working:		**Initial :**	738		
Sampling Time:		**Final:**	895		
Flow:		**Factor:**	1.21		

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 20

Client: C.E. Schmidt
Client ID: T-202
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 883
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:38
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	739			
Final:	873			
Factor:	1.18			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 **225100** **21**

Client: C.E. Schmidt
Client ID: T-203
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 858
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 8:33
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	735			
Final:	879			
Factor:	1.20			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 22

Client: C.E. Schmidt
Client ID: T-204
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 758
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 8:29
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	743			
Final:	874			
Factor:	1.18			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 23

Client: C.E. Schmidt
Client ID: T-205
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 659
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 10:00
Received: 3/21/2025 **Time:** 14:30

Date:				
Initial :	708			
Final:	897			
Factor:	1.27			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 **225100** **24**

Client: C.E. Schmidt
Client ID: T-206
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 882
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 9:55
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	710			
Final:	883			
Factor:	1.24			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 25

Client:	C.E. Schmidt	**MS Load Vol:**	300
Client ID:	T-207	**MS SIM Vol:**	
Description:		**GCK Load Vol:**	200
Project Name:	Chiquita Canyon	**GCP Load Vol:**	
EAS Project:	17807 **EAS PM:** David Atkinson	**Sample Volume:**	

Media:	CAN	**Can Pressurization:**	**Sampled:**	3/20/2025	**Time:** 10:05
Can Number:	627		**Received:**	3/21/2025	**Time:** 14:30
FC Number:	0	**Date:**			
TAT Working:		**Initial :**	692		
Sampling Time:		**Final:**	904		
Flow:		**Factor:**	1.31		

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 26

Client: C.E. Schmidt
Client ID: T-208
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 791
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 10:08
Received: 3/21/2025 **Time:** 14:30

	Initial :	Final:	Factor:
Date:			
	709	890	1.26

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 27

Client:	C.E. Schmidt	**MS Load Vol:**	300
Client ID:	T-209	**MS SIM Vol:**	
Description:		**GCK Load Vol:**	200
Project Name:	Chiquita Canyon	**GCP Load Vol:**	
EAS Project:	17807 **EAS PM:** David Atkinson	**Sample Volume:**	

Media:	CAN	**Can Pressurization:**	**Sampled:**	3/20/2025	**Time:** 11:21
Can Number:	778		**Received:**	3/21/2025	**Time:** 14:30
FC Number:	0	**Date:**			
TAT Working:		**Initial :**	682		
Sampling Time:		**Final:**	887		
Flow:		**Factor:**	1.30		

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 28

Client: C.E. Schmidt
Client ID: T-210
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 714
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:21
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	695			
Final:	882			
Factor:	1.27			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 29

Client: C.E. Schmidt
Client ID: T-211
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 629
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 11:26
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	685			
Final:	881			
Factor:	1.29			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** **4/19/2025** **225100** **30**

Client: C.E. Schmidt
Client ID: T-212
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 502
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 11:30
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	687			
Final:	930			
Factor:	1.35			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 31

Client: C.E. Schmidt
Client ID: T-213
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 712
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:30
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	678		
Final:	905		
Factor:	1.33		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 32

Client: C.E. Schmidt
Client ID: T-214
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 610
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 12:57
Received: 3/21/2025 **Time:** 14:30

	Initial :	Final:	Factor:
Date:			
	786	875	1.11

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 33

Client: C.E. Schmidt
Client ID: T-215
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 751
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:44
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	677		
Final:	874		
Factor:	1.29		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 34

Client: C.E. Schmidt
Client ID: T-216
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 896
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:46
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	632		
Final:	874		
Factor:	1.38		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 35

Client: C.E. Schmidt
Client ID: T-217
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 634
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:48
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	693		
Final:	881		
Factor:	1.27		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 36

Client: C.E. Schmidt
Client ID: T-218
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 698
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 12:42
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	692			
Final:	877			
Factor:	1.27			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 **225100** **37**

Client:	C.E. Schmidt	**MS Load Vol:**	300
Client ID:	T-301	**MS SIM Vol:**	
Description:		**GCK Load Vol:**	200
Project Name:	Chiquita Canyon	**GCP Load Vol:**	
EAS Project:	17807 **EAS PM:** David Atkinson	**Sample Volume:**	

Media:	CAN	**Can Pressurization:**	**Sampled:**	3/21/2025	**Time:** 7:58
Can Number:	638		**Received:**	3/21/2025	**Time:** 14:30
FC Number:	0				
TAT Working:		**Date:**			
Sampling Time:		**Initial :**	738		
Flow:		**Final:**	879		
		Factor:	1.19		

LABORATORY **Analytical Test:** **Sample Location:** Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 38

Client: C.E. Schmidt
Client ID: T-302
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 857
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 8:04
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	734			
Final:	872			
Factor:	1.19			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 **225100** **39**

Client: C.E. Schmidt
Client ID: T-303
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 552
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 **Time:** 8:05
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	727			
Final:	877			
Factor:	1.21			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 40

Client: C.E. Schmidt
Client ID: T-304
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 529
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 7:58
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	731			
Final:	878			
Factor:	1.20			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 41

Client: C.E. Schmidt
Client ID: T-305
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 660
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 **Time:** 9:22
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	709			
Final:	871			
Factor:	1.23			

LABORATORY

Analytical Test:

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 42

Client: C.E. Schmidt
Client ID: T-306
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 859
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:13
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	722			
Final:	874			
Factor:	1.21			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 43

Client: C.E. Schmidt
Client ID: T-307
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 636
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:10
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	720			
Final:	878			
Factor:	1.22			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 44

Client: C.E. Schmidt
Client ID: T-308
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 661
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:18
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	717			
Final:	875			
Factor:	1.22			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 45

Client:	C.E. Schmidt	**MS Load Vol:**	300
Client ID:	T-309	**MS SIM Vol:**	
Description:		**GCK Load Vol:**	200
Project Name:	Chiquita Canyon	**GCP Load Vol:**	
EAS Project:	17807 **EAS PM:** David Atkinson	**Sample Volume:**	

Media:	CAN	**Can Pressurization:**	**Sampled:**	3/21/2025	**Time:** 9:24
Can Number:	579		**Received:**	3/21/2025	**Time:** 14:30
FC Number:	0				
TAT Working:		**Date:**			
Sampling Time:		**Initial :**	726		
Flow:		**Final:**	877		
		Factor:	1.21		

LABORATORY	**Analytical Test:**	**Sample Location:** Shelfs E,I-J
InstrumentMethod:	**Item Description:**	**Holding Time:**
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 46

Client: C.E. Schmidt
Client ID: T-310
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 771
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:48
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	679			
Final:	874			
Factor:	1.29			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 47

Client: C.E. Schmidt
Client ID: T-311
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 605
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:35
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	680		
Final:	873		
Factor:	1.28		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 48

Client: C.E. Schmidt
Client ID: T-312
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 990
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:30
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	689		
Final:	913		
Factor:	1.33		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCL ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 49

Client: C.E. Schmidt
Client ID: T-313
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 549
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:31
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	695			
Final:	872			
Factor:	1.25			

LABORATORY

Analytical Test:

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 50

Client: C.E. Schmidt
Client ID: T-314
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 784
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:38
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	701			
Final:	876			
Factor:	1.25			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Sample Data Packages

SDG Number **225100**

Lab Id Number **1**

Client ID T-101

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

SDG: 225100
Modified Analytical Method: ASTM D3416
Laboratory Number: 01

File Name:	2510001A	**Date Sampled:**	03/19/25	**Time:**	8:40
Description:	T-101	**Date Analyzed:**	03/24/25	**Time:**	12:49
Can/Tube#:	668	**Dilution Factor:**	1.20		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.60	1.81	0.93	0.39	1.18	0.61	J

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**01**				
File Name:	**2510001A**	A		**SF:**	**2**
Description:	**T-101**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/19/25**	**Time:**	**8:40**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**12:49**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**668**				
Can Factor	**1.20**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**4542**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510001A
QCBatch 032425-GCL
Can Factor 1.20
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.20
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** **=>** L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	0.93	0.93	0.61	0.61	0.61	0.50	0.60	1.81	0.60	1.81	0.39	1.18	**J**

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 1

Client: C.E. Schmidt
Client ID: T-101
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 668
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Initial : 723
Final: 871
Factor: 1.20

Sampled: 3/19/2025 Time: 8:40
Received: 3/21/2025 Time: 14:30

Date:

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions

Sample Type:

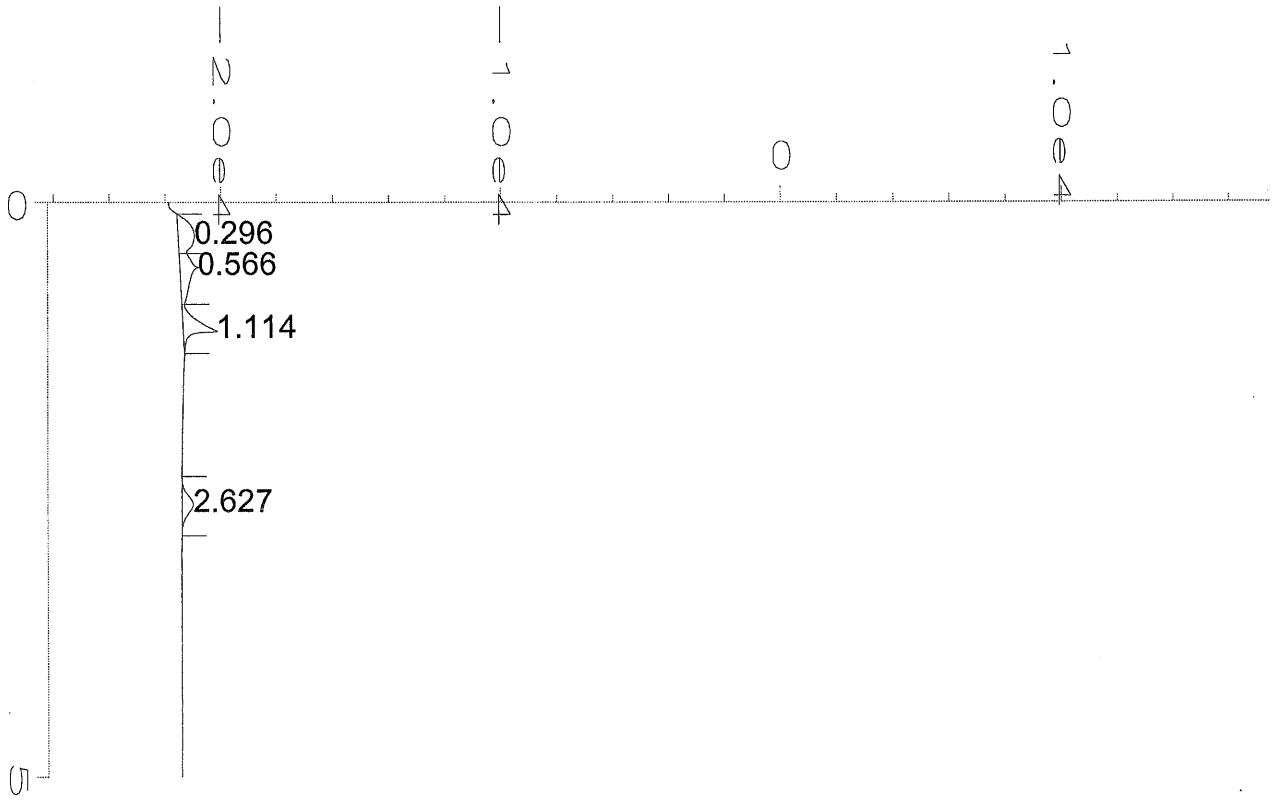
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions: EAS QC Criteria

Report Types: PDF Only

EDD Instructions EDD Type:



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510001A.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-101
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 12:49 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 12:54 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510001A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.296	8711	576	BV	0.205	28.5516
2	0.566	8741	675	VV	0.168	28.6488
3	1.114	8516	1203	VB	0.090	27.9111
4	2.627	4542	397	BB	0.151	14.8886

Total area = 30510

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Sample Data Packages

SDG Number **225100**

Lab Id Number **2**

Client ID T-102

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 02

File Name:	2510002A	**Date Sampled:**	03/19/25	**Time:**	8:50
Description:	T-102	**Date Analyzed:**	03/24/25	**Time:**	12:55
Can/Tube#:	895	**Dilution Factor:**	1.24		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.62	1.87	1.15	0.41	1.22	0.76	J

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**02**				
File Name:	**2510002A**	A		**SF:**	**2**
Description:	**T-102**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/19/25**	**Time:**	**8:50**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**12:55**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**895**				
Can Factor	**1.24**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**5434**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510002A
QCBatch 032425-GCL
Can Factor 1.24
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.24
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** => L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	Lab Qual
Methane	16.00	1.15	1.15	0.76	0.76	0.76	0.50	0.62	1.87	0.62	1.87	0.41	1.22	**J**

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 2

Client: C.E. Schmidt
Client ID: T-102
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 895
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:50
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	734		
Final:	913		
Factor:	1.24		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL	ASTM D3416 ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

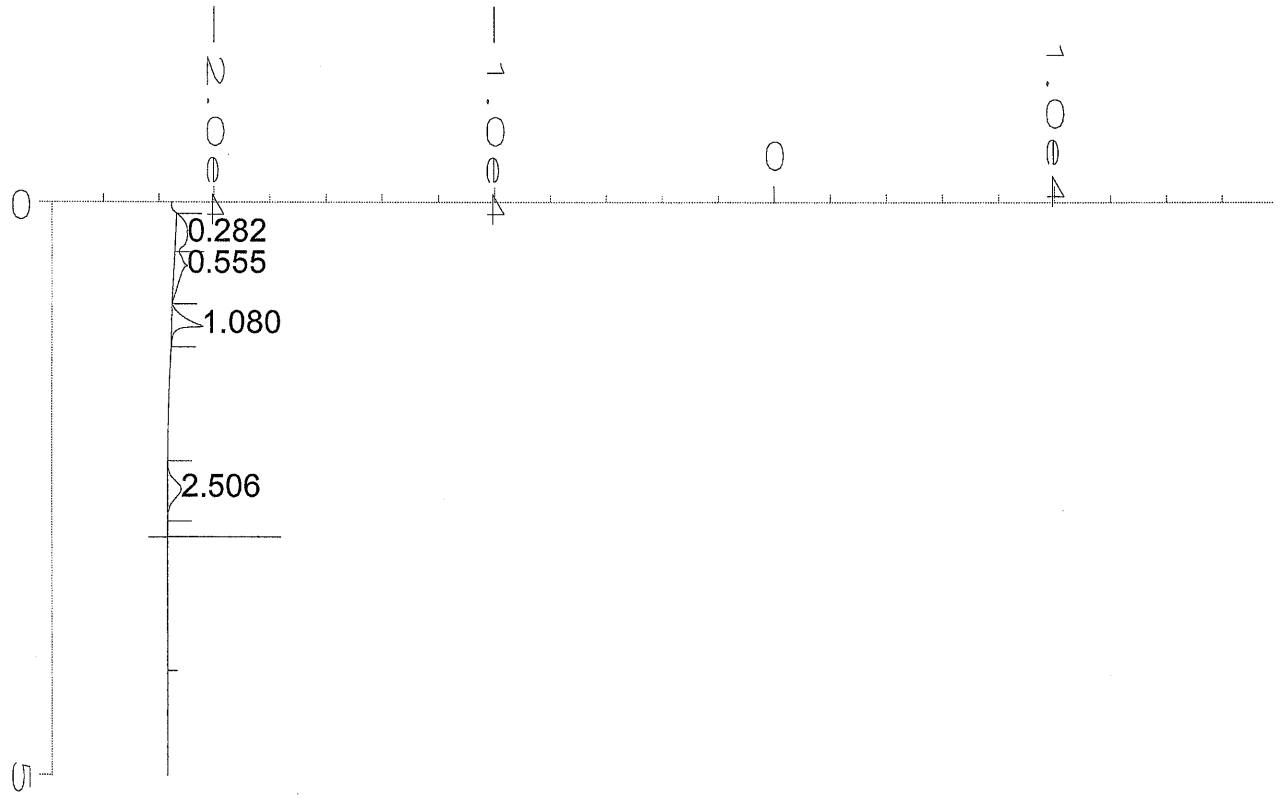
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510002A.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-102
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 12:55 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 01:00 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510002A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.282	6116	418	BV	0.206	26.3128
2	0.555	5569	470	VV	0.153	23.9603
3	1.080	6124	1091	PB	0.072	26.3477
4	2.506	5434	493	BB	0.141	23.3792

Total area = 23244

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **3**

Client ID T-103

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 03

File Name: 2510003A
Description: T-103
Can/Tube#: 881
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 8:44
Date Analyzed: 03/24/25 **Time:** 13:03
Dilution Factor: 1.20

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.60	1.79	2.69	0.39	1.18	1.77	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**03**				
File Name:	**2510003A**	A		**SF:**	**2**
Description:	**T-103**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/19/25**	**Time:**	**8:44**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**13:03**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**881**				
Can Factor	**1.20**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**13182**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name:	2510003A		**SDG:**	**225100**			
QCBatch	032425-GCL						
Can Factor	1.20		**Calibration:**	**L10**	=>	L9 = Daily Calibration	RF: 6115
Volume:	5.00	ml	**RL Factor:**	**3**		L10 = Curve	RF: 5853
Base Volume	5.00	ml					CAL: 5853
Dilution Factor	1.20						
Gas Constant:	24.4						
Decimal Places:	2						

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	2.69	2.69	1.77	1.77	1.77	0.50	0.60	1.79	0.60	1.79	0.39	1.18	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 3

Client: C.E. Schmidt
Client ID: T-103
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 881
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:44
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	728		
Final:	870		
Factor:	1.20		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

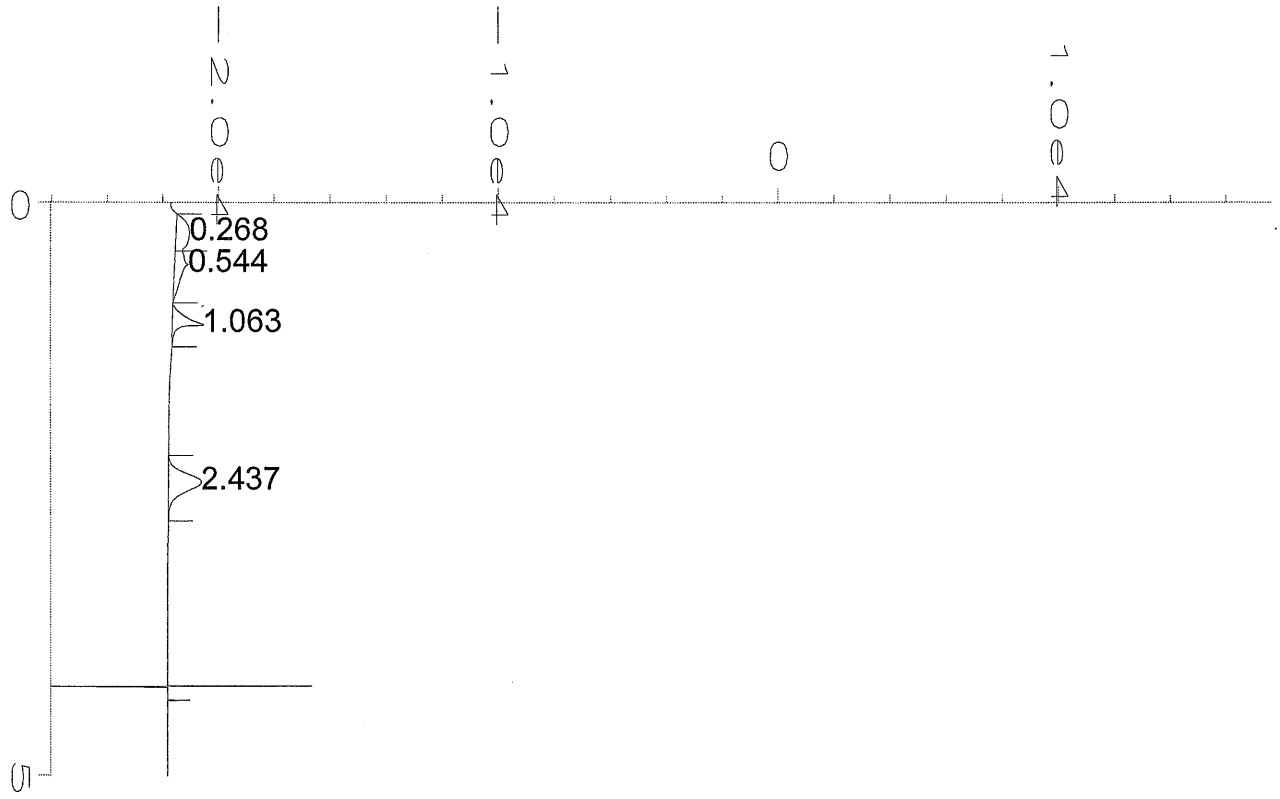
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510003A.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-103
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 01:03 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 01:08 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510003A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.268	7141	481	BV	0.205	21.8098
2	0.544	6444	498	VV	0.160	19.6811
3	1.063	5974	1088	PB	0.071	18.2456
4	2.437	13182	1169	BB	0.174	40.2635

Total area = 32740

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Sample Data Packages

SDG Number **225100**

Lab Id Number **4**

Client ID T-104

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 04

File Name: 2510004A
Description: T-104
Can/Tube#: 860
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 8:37
Date Analyzed: 03/24/25 **Time:** 13:10
Dilution Factor: 1.31

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.65	1.96	202.37	0.43	1.29	132.70	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**04**				
File Name:	**2510004A**	A		**SF:**	**2**
Description:	**T-104**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/19/25**	**Time:**	**8:37**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**13:10**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**860**				
Can Factor	**1.31**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**904211**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510004A
QCBatch 032425-GCL
Can Factor 1.31
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.31
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** => L9 = Daily Calibration
RL Factor: **3** L10 = Curve

RF: 6115
RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	202.37	202.37	132.70	132.70	132.70	0.50	0.65	1.96	0.65	1.96	0.43	1.29	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 4

Client: C.E. Schmidt
Client ID: T-104
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 860
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:37
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	723		
Final:	947		
Factor:	1.31		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

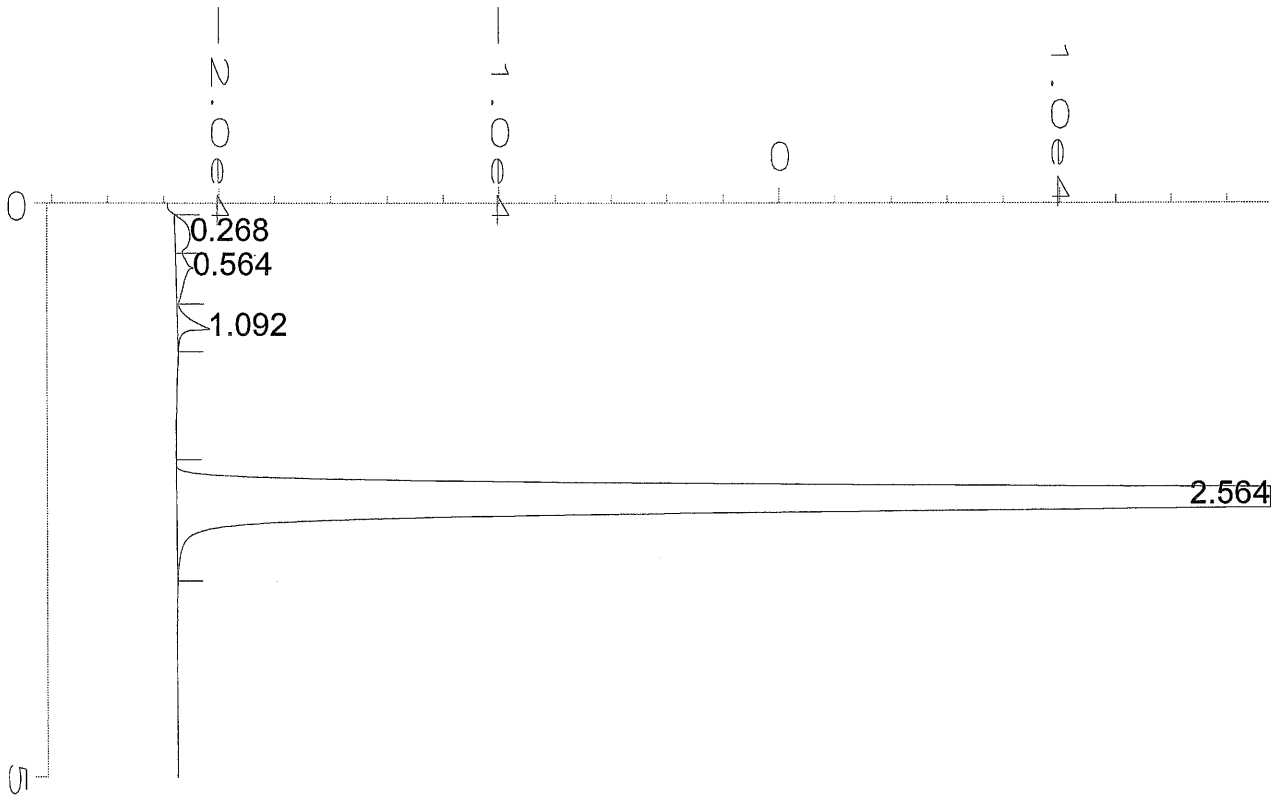
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510004A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-104
Run Time Bar Code:
Acquired on : 24 Mar 25 01:10 PM
Report Created on: 24 Mar 25 01:15 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510004A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.268	8001	537	BV	0.196	0.8631
2	0.564	7685	607	VV	0.164	0.8290
3	1.092	7135	1132	VB	0.081	0.7697
4	2.564	904211	77760	BB	0.181	97.5382

Total area = 927032

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **5**

Client ID T-105

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 05

File Name:	2510005A	**Date Sampled:**	03/19/25	**Time:**	10:16
Description:	T-105	**Date Analyzed:**	03/24/25	**Time:**	13:16
Can/Tube#:	685	**Dilution Factor:**	1.23		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.61	1.84	5.57	0.40	1.21	3.65	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**05**				
File Name:	**2510005A**	A		**SF:**	**2**
Description:	**T-105**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/19/25**	**Time:**	**10:16**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**13:16**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**685**				
Can Factor	**1.23**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**26572**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name:	2510005A		**SDG:**	**225100**			
QCBatch	032425-GCL						
Can Factor	1.23		**Calibration:**	**L10**	=>	L9 = Daily Calibration	RF: 6115
Volume:	5.00	ml	**RL Factor:**	**3**		L10 = Curve	RF: 5853
Base Volume	5.00	ml					CAL: 5853
Dilution Factor	1.23						
Gas Constant:	24.4						
Decimal Places:	2						

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	5.57	5.57	3.65	3.65	3.65	0.50	0.61	1.84	0.61	1.84	0.40	1.21	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 5

Client: C.E. Schmidt
Client ID: T-105
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 685
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:16
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	719		
Final:	882		
Factor:	1.23		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

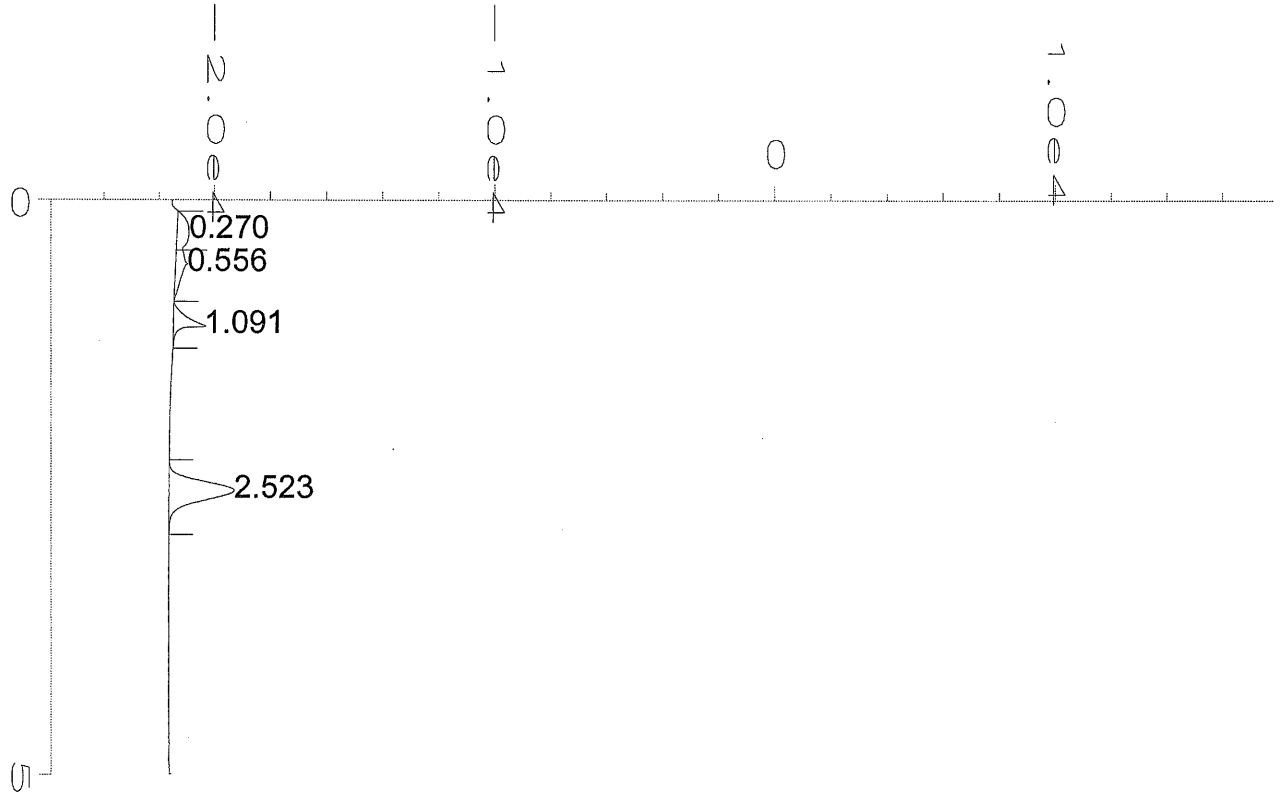
InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510005A.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-105
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 01:16 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 01:21 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510005A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.270	6661	441	BV	0.194	14.6017
2	0.556	5669	455	VV	0.158	12.4276
3	1.091	6714	1138	PB	0.076	14.7182
4	2.523	26572	2343	BB	0.176	58.2524

Total area = 45615

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Sample Data Packages

SDG Number **225100**

Lab Id Number **6**

Client ID T-106

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 06

File Name: 2510006A
Description: T-106
Can/Tube#: 621
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 10:22
Date Analyzed: 03/24/25 **Time:** 13:22
Dilution Factor: 1.23

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.61	1.84	3.22	0.40	1.21	2.11	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**06**				
File Name:	**2510006A**	A		**SF:**	**2**
Description:	**T-106**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/19/25**	**Time:**	**10:22**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**13:22**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**621**				
Can Factor	**1.23**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**15394**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name:	2510006A		**SDG:**	**225100**				
QCBatch	032425-GCL							
Can Factor	1.23		**Calibration:**	**L10**	**=>**	L9 = Daily Calibration	RF:	6115
Volume:	5.00	ml	**RL Factor:**	**3**		L10 = Curve	RF:	5853
Base Volume	5.00	ml					CAL:	5853
Dilution Factor	1.23							
Gas Constant:	24.4							
Decimal Places:	2							

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	3.22	3.22	2.11	2.11	2.11	0.50	0.61	1.84	0.61	1.84	0.40	1.21	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 6

Client: C.E. Schmidt
Client ID: T-106
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 621
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:22
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	718		
Final:	880		
Factor:	1.23		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

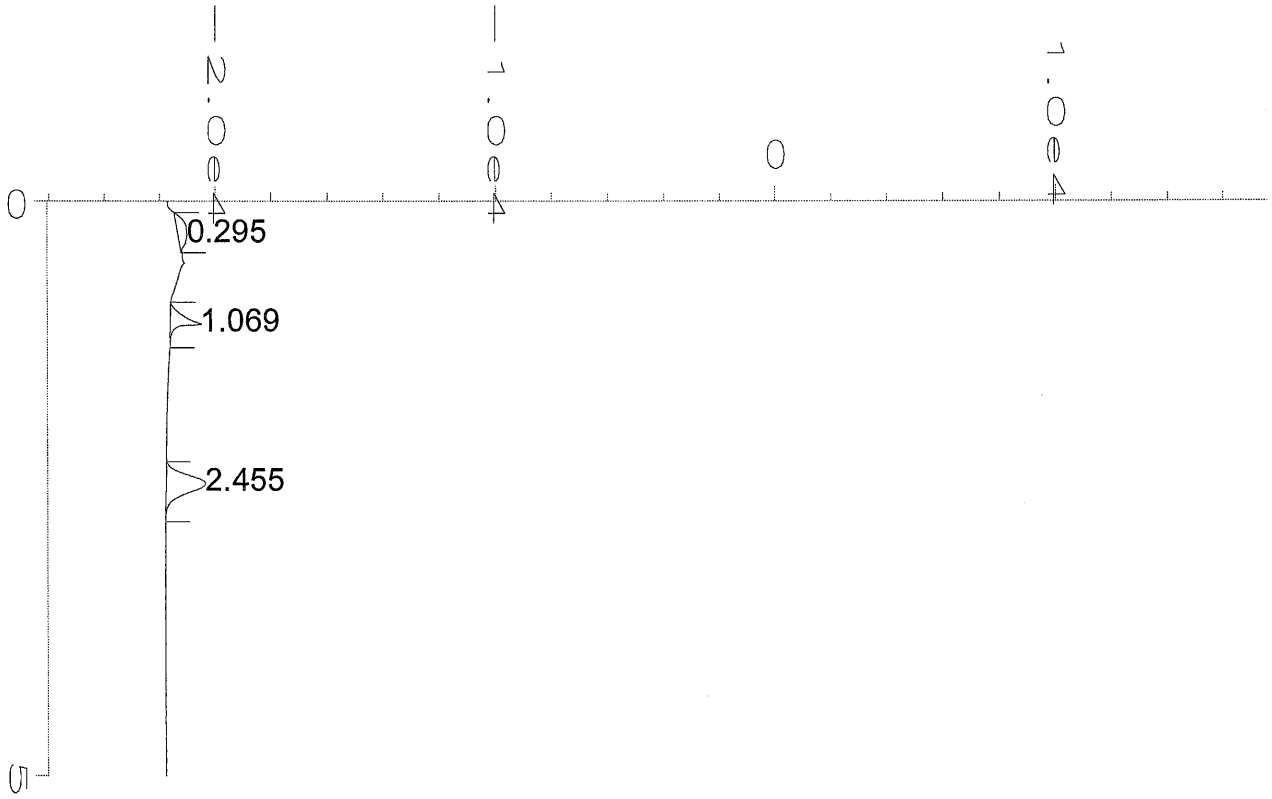
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510006A.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-106
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 01:22 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 01:27 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510006A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.295	4697	314	BB	0.192	17.9824
2	1.069	6029	1127	PB	0.067	23.0816
3	2.455	15394	1410	BB	0.153	58.9360

Total area = 26119

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Sample Data Packages

SDG Number **225100**

Lab Id Number **7**

Client ID T-107

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

SDG: 225100
Modified Analytical Method: ASTM D3416 **Laboratory Number:** 07

File Name:	2510007A	**Date Sampled:**	03/19/25	**Time:**	10:22
Description:	T-107	**Date Analyzed:**	03/24/25	**Time:**	13:31
Can/Tube#:	644	**Dilution Factor:**	1.23		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.62	1.85	4.45	0.40	1.21	2.92	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**07**				
File Name:	**2510007A**	A		**SF:**	**2**
Description:	**T-107**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/19/25**	**Time:**	**10:22**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**13:31**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**644**				
Can Factor	**1.23**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**21117**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name:	2510007A		**SDG:**	**225100**				
QCBatch	032425-GCL							
Can Factor	1.23		**Calibration:**	**L10**	=>	L9 = Daily Calibration	RF:	6115
Volume:	5.00	ml	**RL Factor:**	**3**		L10 = Curve	RF:	5853
Base Volume	5.00	ml					CAL:	5853
Dilution Factor	1.23							
Gas Constant:	24.4							
Decimal Places:	2							

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	4.45	4.45	2.92	2.92	2.92	0.50	0.62	1.85	0.62	1.85	0.40	1.21	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 7

Client: C.E. Schmidt
Client ID: T-107
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 644
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:22
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	720		
Final:	888		
Factor:	1.23		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

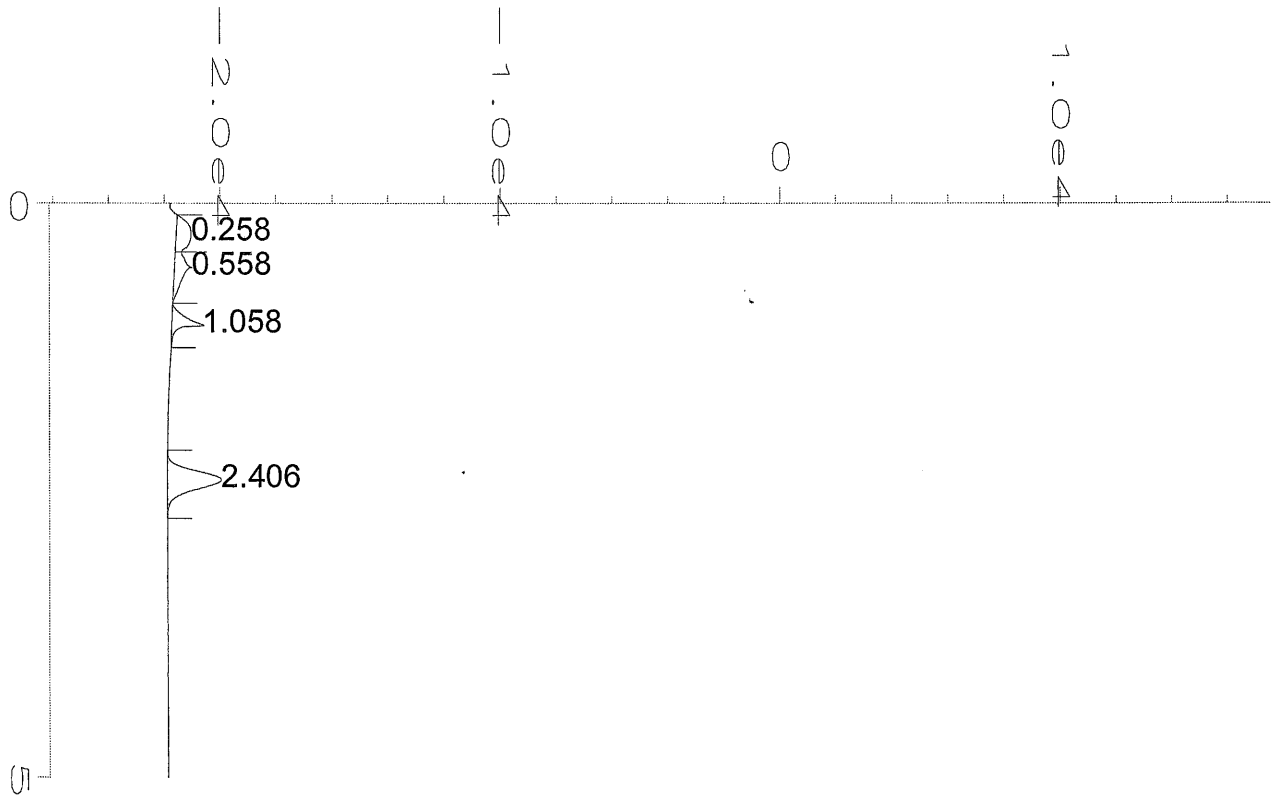
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510007A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-107
Run Time Bar Code:
Acquired on : 24 Mar 25 01:31 PM
Report Created on: 24 Mar 25 01:36 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510007A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.258	7871	538	BV	0.193	18.6249
2	0.558	7126	635	VV	0.144	16.8623
3	1.058	6147	1110	PB	0.071	14.5447
4	2.406	21117	1925	BB	0.169	49.9682

Total area = 42260

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Sample Data Packages

SDG Number **225100**

Lab Id Number **8**

Client ID T-108

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 08

File Name: 2510008A
Description: T-108
Can/Tube#: 556
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 10:30
Date Analyzed: 03/24/25 **Time:** 13:47
Dilution Factor: 1.26

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.63	1.89	174,161.27	0.41	1.24	114,204.11	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**08**				
File Name:	**2510008A**	A		**SF:**	**2**
Description:	**T-108**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/19/25**	**Time:**	**10:30**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**13:47**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**556**				
Can Factor	**1.26**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**8.08E+08**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name:	2510008A		**SDG:**	**225100**				
QCBatch	032425-GCL							
Can Factor	1.26		**Calibration:**	**L10**	=>	L9 = Daily Calibration	RF:	6115
Volume:	5.00	ml	**RL Factor:**	**3**		L10 = Curve	RF:	5853
Base Volume	5.00	ml					CAL:	5853
Dilution Factor	1.26							
Gas Constant:	24.4							
Decimal Places:	2							

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	########	174,161.27	114,204.11	114,204.11	114,204.11	0.50	0.63	1.89	0.63	1.89	0.41	1.24	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 8

Client: C.E. Schmidt
Client ID: T-108
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 556
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:30
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	702		
Final:	886		
Factor:	1.26		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

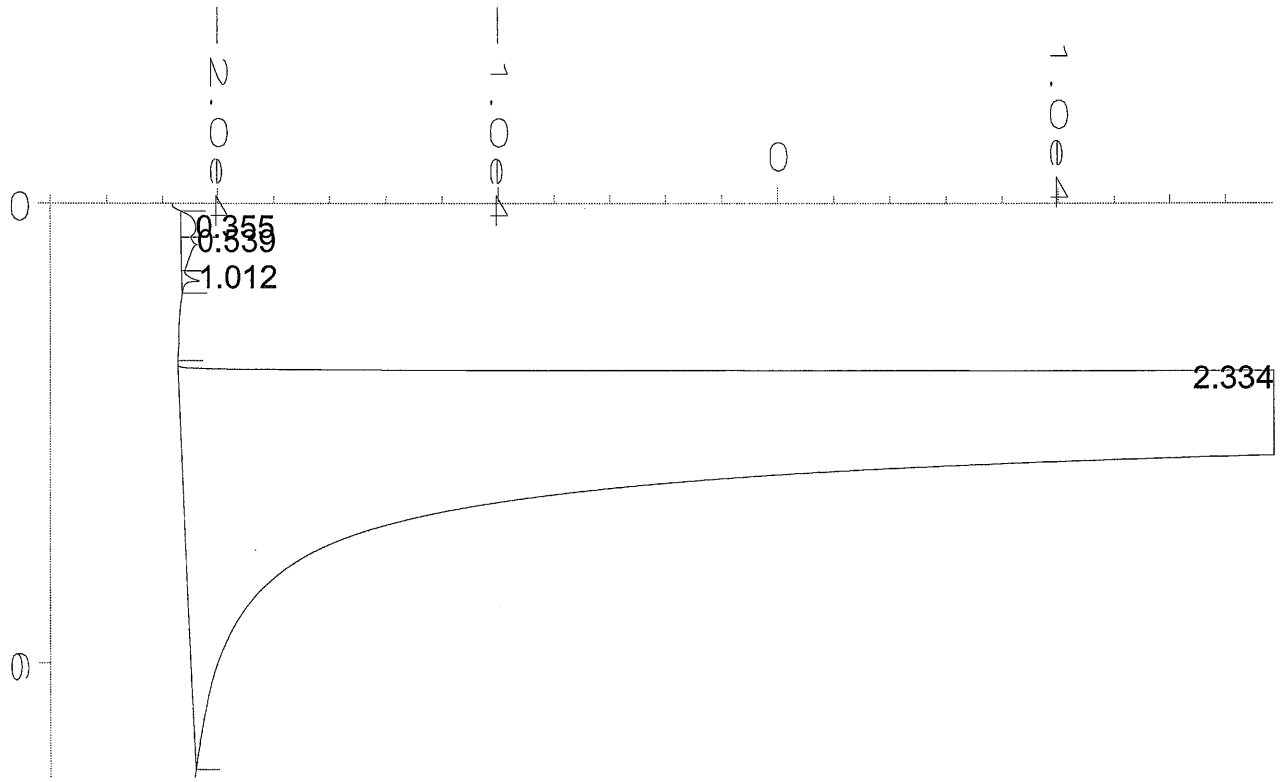
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510008B.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-108
Run Time Bar Code:
Acquired on : 24 Mar 25 01:47 PM
Report Created on: 24 Mar 25 01:55 PM
Sample Info : SCHMIDT

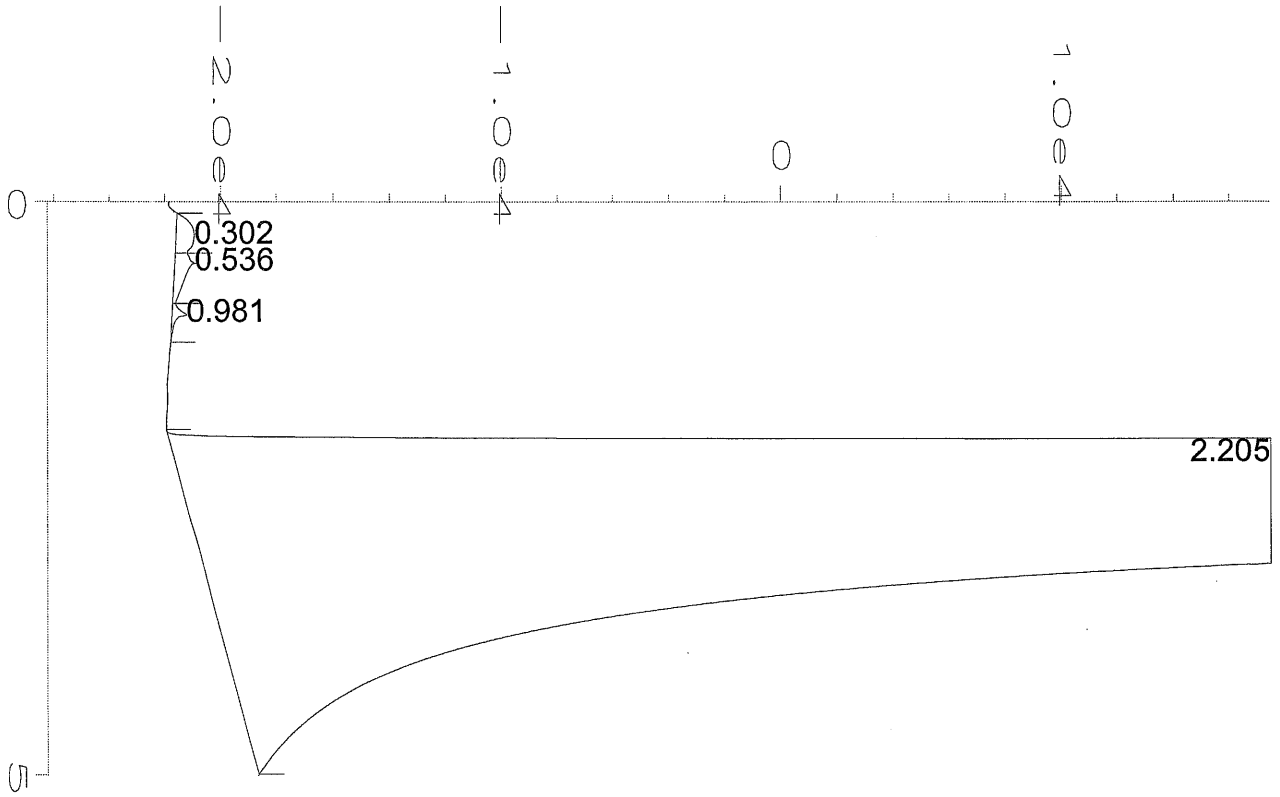
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510008B.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.355	8552	530	BV	0.212	0.0011
2	0.539	8528	579	VV	0.181	0.0011
3	1.012	3186	585	VB	0.071	0.0004
4	2.334	8.07606E+008	5.54701E+007	BB	0.238	99.9975

Total area = 8.07626E+008

==========



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510008A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-108
Run Time Bar Code:
Acquired on : 24 Mar 25 01:37 PM
Report Created on: 24 Mar 25 01:42 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510008A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.302	10399	641	BV	0.217	0.0012
2	0.536	10069	752	VV	0.168	0.0011
3	0.981	2927	532	VB	0.072	0.0003
4	2.205	8.91504E+008	6.42219E+007	BBA	0.225	99.9974

Total area = 8.91528E+008

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **9**

Client ID T-109

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 09

File Name: 2510009A
Description: T-109
Can/Tube#: 694
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 11:25
Date Analyzed: 03/24/25 **Time:** 13:57
Dilution Factor: 1.30

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.65	1.95	12.11	0.43	1.28	7.94	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**09**				
File Name:	**2510009A**	A		**SF:**	**2**
Description:	**T-109**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/19/25**	**Time:**	**11:25**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**13:57**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**694**				
Can Factor	**1.30**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**54563**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510009A
QCBatch 032425-GCL
Can Factor 1.30
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.30
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**
Calibration: **L10** => L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	12.11	12.11	7.94	7.94	7.94	0.50	0.65	1.95	0.65	1.95	0.43	1.28	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 9

Client: C.E. Schmidt
Client ID: T-109
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 694
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:25
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	713		
Final:	926		
Factor:	1.30		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

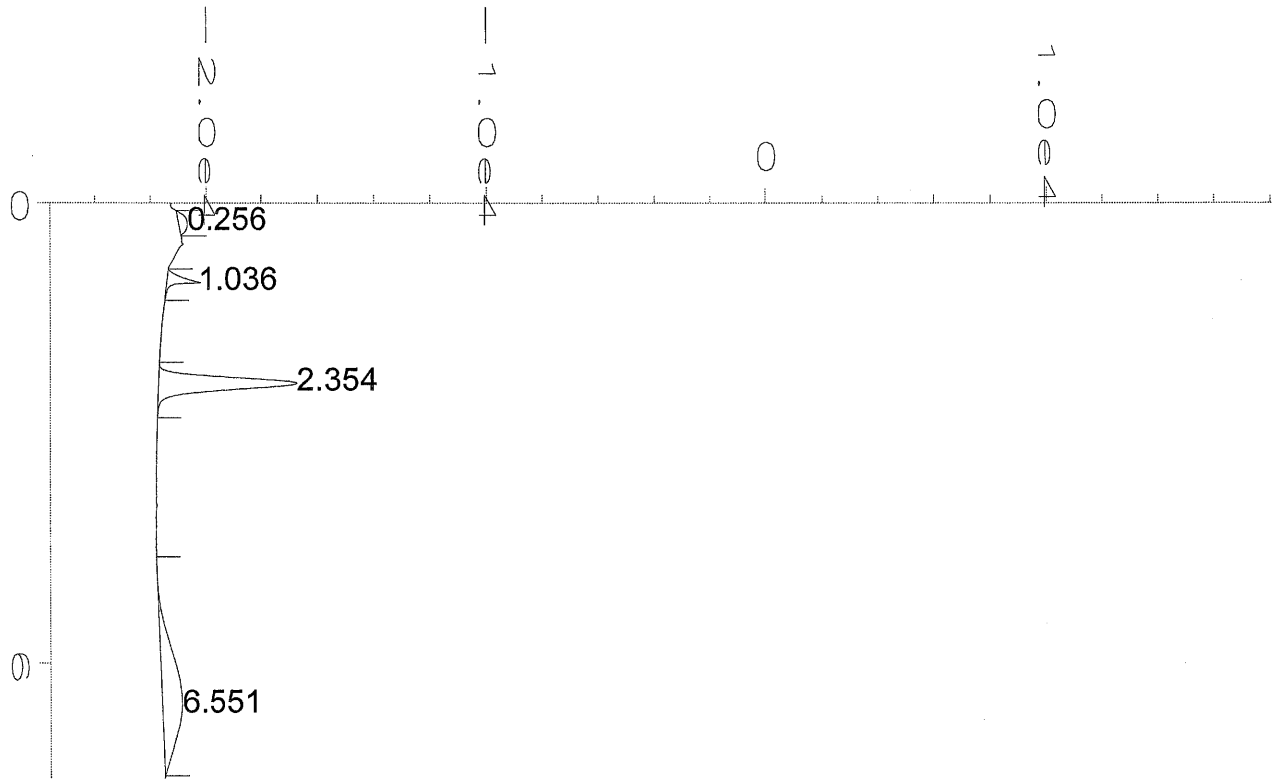
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510009A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-109
Run Time Bar Code:
Acquired on : 24 Mar 25 01:57 PM
Report Created on: 24 Mar 25 02:04 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510009A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.256	4206	318	BB	0.179	3.4434
2	1.036	6568	1167	PB	0.072	5.3772
3	2.354	54563	4980	BB	0.168	44.6697
4	6.551	56810	724	BBA	0.994	46.5097

Total area = 122147

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **10**

Client ID T-110

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 10

File Name: 2510010A
Description: T-110
Can/Tube#: 857
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 11:32
Date Analyzed: 03/24/25 **Time:** 14:05
Dilution Factor: 1.27

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.64	1.91	15.15	0.42	1.25	9.93	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**10**				
File Name:	**2510010A**	A		**SF:**	**2**
Description:	**T-110**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/19/25**	**Time:**	**11:32**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**14:05**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**857**				
Can Factor	**1.27**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**69554**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name:	2510010A		**SDG:**	**225100**				
QCBatch	032425-GCL							
Can Factor	1.27		**Calibration:**	**L10**	=>	L9 = Daily Calibration	RF:	6115
Volume:	5.00	ml	**RL Factor:**	**3**		L10 = Curve	RF:	5853
Base Volume	5.00	ml					CAL:	5853
Dilution Factor	1.27							
Gas Constant:	24.4							
Decimal Places:	2							

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	15.15	15.15	9.93	9.93	9.93	0.50	0.64	1.91	0.64	1.91	0.42	1.25	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 10

Client: C.E. Schmidt
Client ID: T-110
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 857
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:32
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	707		
Final:	901		
Factor:	1.27		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

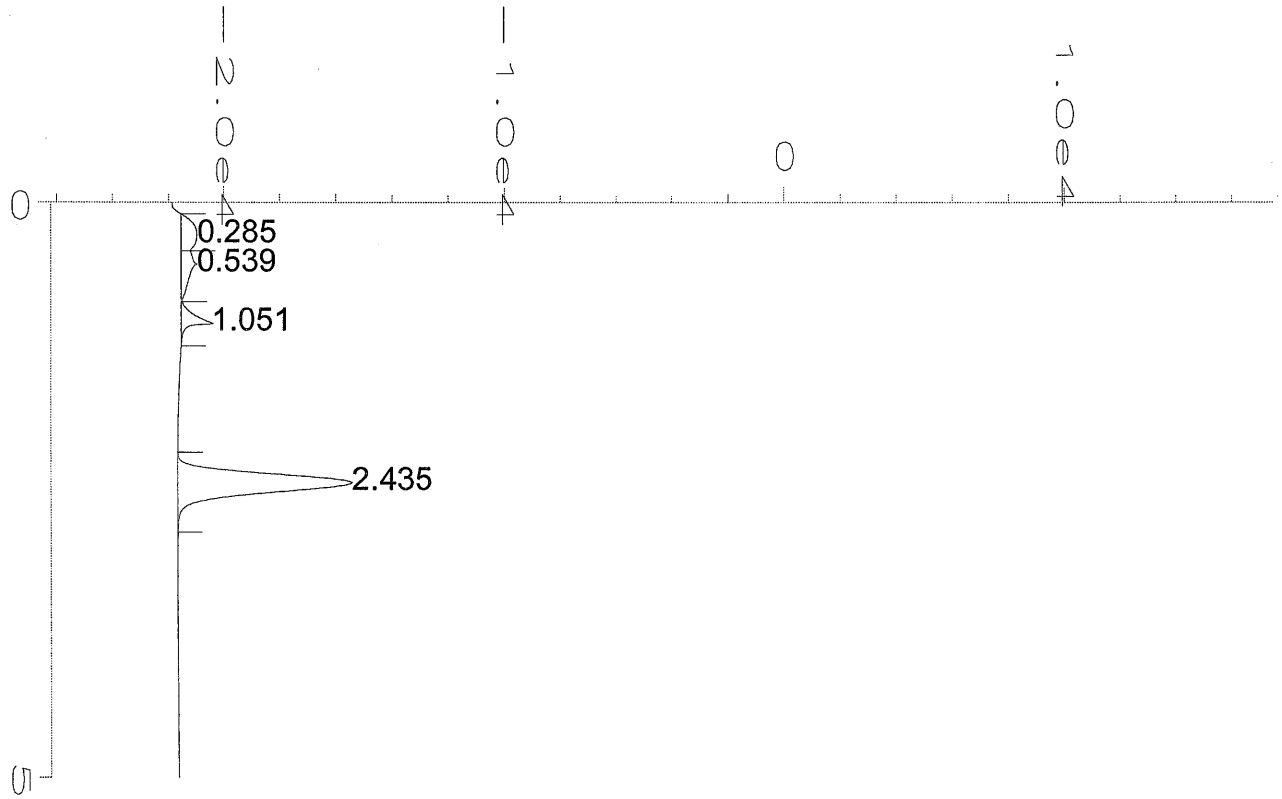
InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510010A.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-110
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 02:05 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 02:10 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510010A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.285	8701	583	BV	0.192	9.3666
2	0.539	8001	597	VV	0.168	8.6130
3	1.051	6641	1117	VB	0.076	7.1486
4	2.435	69554	6230	BB	0.172	74.8718

Total area = 92897

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Sample Data Packages

SDG Number **225100**

Lab Id Number **11**

Client ID T-111

Analytical Method ASTM D3416

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ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

SDG: 225100
Modified Analytical Method: ASTM D3416 **Laboratory Number:** 11

File Name:	2510011A	**Date Sampled:**	03/19/25	**Time:**	11:32
Description:	T-111	**Date Analyzed:**	03/24/25	**Time:**	14:11
Can/Tube#:	504	**Dilution Factor:**	1.25		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.62	1.87	7.02	0.41	1.23	4.60	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**11**				
File Name:	**2510011A**	A		**SF:**	**2**
Description:	**T-111**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/19/25**	**Time:**	**11:32**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**14:11**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**504**				
Can Factor	**1.25**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**32874**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name:	2510011A		**SDG:**	**225100**			
QCBatch	032425-GCL						
Can Factor	1.25		**Calibration:**	**L10**	=>	L9 = Daily Calibration	RF: 6115
Volume:	5.00	ml	**RL Factor:**	**3**		L10 = Curve	RF: 5853
Base Volume	5.00	ml					CAL: 5853
Dilution Factor	1.25						
Gas Constant:	24.4						
Decimal Places:	2						

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	7.02	7.02	4.60	4.60	4.60	0.50	0.62	1.87	0.62	1.87	0.41	1.23	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 11

Client: C.E. Schmidt
Client ID: T-111
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 504
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:32
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	697		
Final:	871		
Factor:	1.25		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

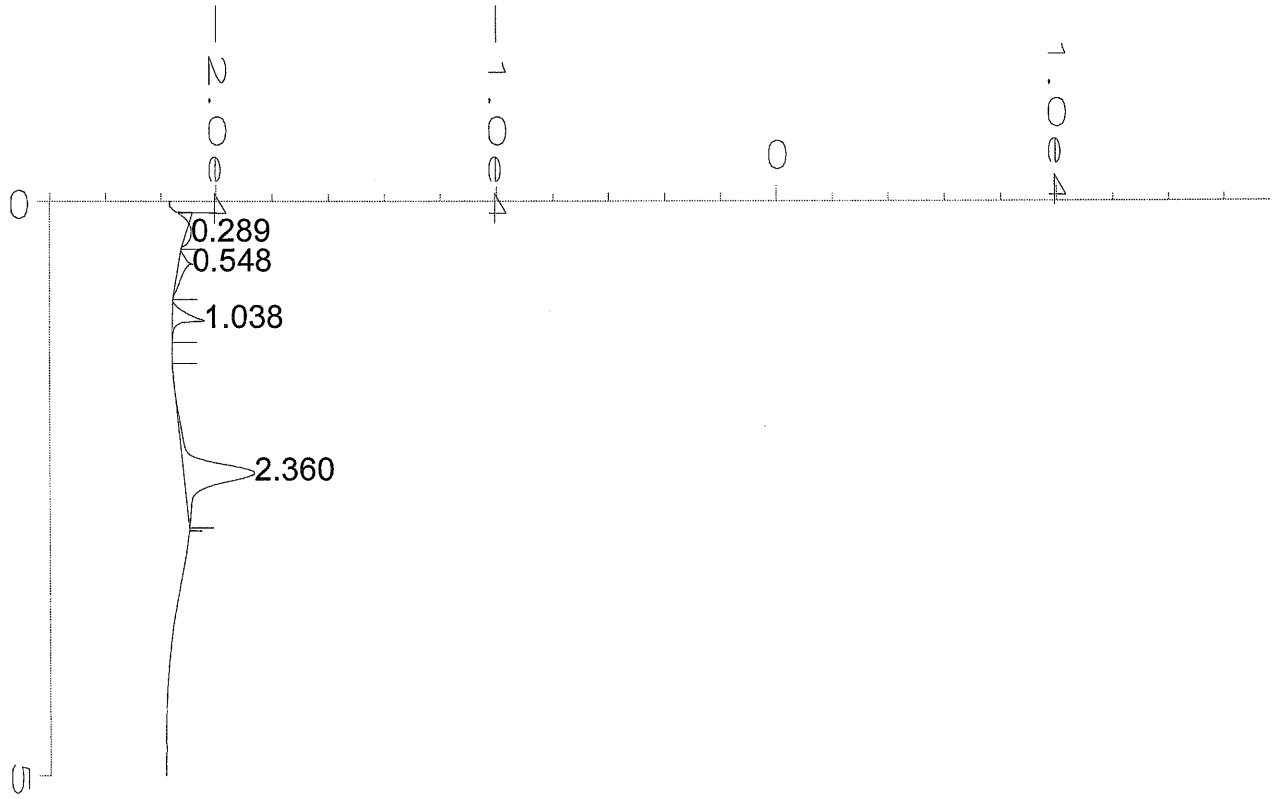
InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510011A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-111
Run Time Bar Code:
Acquired on : 24 Mar 25 02:11 PM
Report Created on: 24 Mar 25 02:16 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510011A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.289	451	206	BV	0.045	1.0381
2	0.548	4311	514	PV	0.109	9.9240
3	1.038	5800	1144	PB	0.064	13.3531
4	2.360	32874	2540	BB	0.183	75.6848

Total area = 43435

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Sample Data Packages

SDG Number **225100**

Lab Id Number **12**

Client ID T-112

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

SDG: 225100
Modified Analytical Method: ASTM D3416 **Laboratory Number:** 12

File Name:	2510012A	**Date Sampled:**	03/19/25	**Time:**	11:38
Description:	T-112	**Date Analyzed:**	03/24/25	**Time:**	14:18
Can/Tube#:	631	**Dilution Factor:**	1.24		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.62	1.85	12.01	0.41	1.22	7.87	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**12**				
File Name:	**2510012A**	A		**SF:**	**2**
Description:	**T-112**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/19/25**	**Time:**	**11:38**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**14:18**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**631**				
Can Factor	**1.24**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**56880**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name:	2510012A		**SDG:**	**225100**			
QCBatch	032425-GCL						
Can Factor	1.24		**Calibration:**	**L10**	=>	L9 = Daily Calibration	RF: 6115
Volume:	5.00	ml	**RL Factor:**	**3**		L10 = Curve	RF: 5853
Base Volume	5.00	ml					CAL: 5853
Dilution Factor	1.24						
Gas Constant:	24.4						
Decimal Places:	2						

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	12.01	12.01	7.87	7.87	7.87	0.50	0.62	1.85	0.62	1.85	0.41	1.22	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 12

Client: C.E. Schmidt
Client ID: T-112
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 631
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:38
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	714		
Final:	882		
Factor:	1.24		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

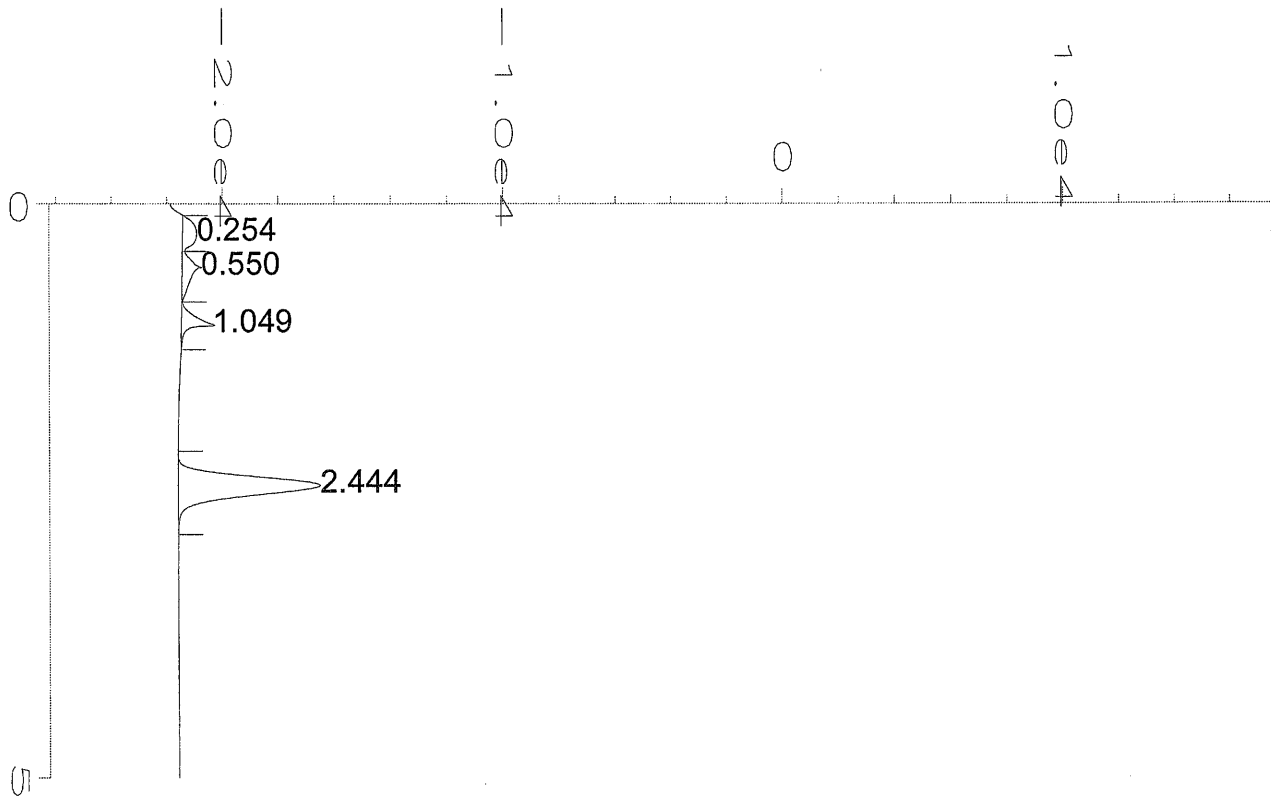
InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



==========

Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510012A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-112
Run Time Bar Code:
Acquired on : 24 Mar 25 02:18 PM
Report Created on: 24 Mar 25 02:23 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510012A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.254	6471	500	BV	0.170	8.3884
2	0.550	6924	680	VV	0.134	8.9765
3	1.049	6862	1181	VB	0.075	8.8963
4	2.444	56880	5094	BB	0.173	73.7388

Total area = 77137

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **13**

Client ID T-113

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 13

File Name:	2510013A	**Date Sampled:**	03/19/25	**Time:**	13:05
Description:	T-113	**Date Analyzed:**	03/24/25	**Time:**	14:24
Can/Tube#:	690	**Dilution Factor:**	1.23		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.62	1.85	1.67	0.40	1.21	1.09	J

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**13**				
File Name:	**2510013A**	A		**SF:**	**2**
Description:	**T-113**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/19/25**	**Time:**	**13:05**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**14:24**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**690**				
Can Factor	**1.23**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**7901**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510013A
QCBatch 032425-GCL
Can Factor 1.23
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.23
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** **=>** L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	Lab Qual
Methane	16.00	1.67	1.67	1.09	1.09	1.09	0.50	0.62	1.85	0.62	1.85	0.40	1.21	**J**

EPA Qual	Det Qual	Rpt = Y

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 13

Client: C.E. Schmidt
Client ID: T-113
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 690
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:05
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	705		
Final:	870		
Factor:	1.23		

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions

Sample Type:

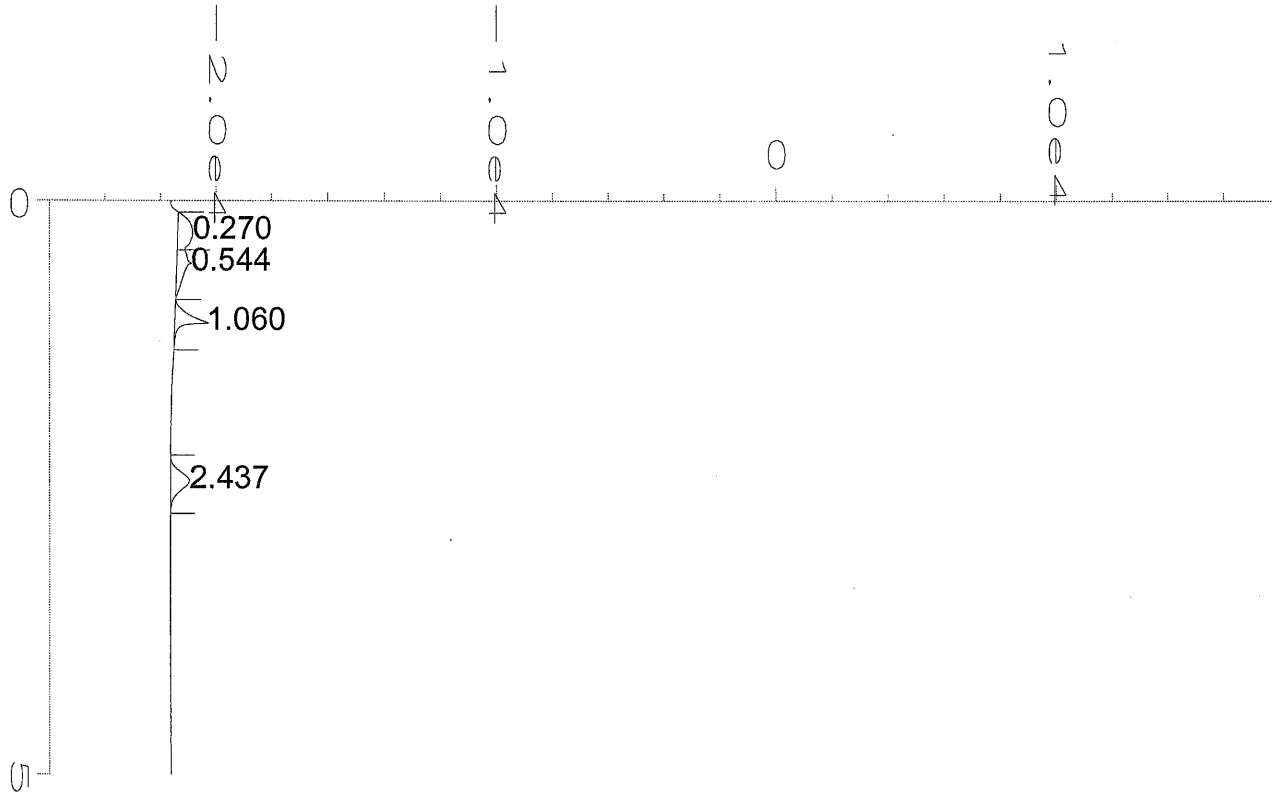
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions | EAS QC Criteria

Report Types: PDF Only

EDD Instructions EDD Type:



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510013A.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-113
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 02:24 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 02:29 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510013A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.270	7956	538	BV	0.193	27.1814
2	0.544	6631	534	VV	0.156	22.6563
3	1.060	6781	1167	VB	0.075	23.1688
4	2.437	7901	701	BB	0.164	26.9935

Total area = 29270

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **14**

Client ID T-114

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 14

File Name:	2510014A	**Date Sampled:**	03/19/25	**Time:**	13:11
Description:	T-114	**Date Analyzed:**	03/24/25	**Time:**	14:31
Can/Tube#:	645	**Dilution Factor:**	1.27		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.63	1.90	1.12	0.42	1.25	0.73	J

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**14**				
File Name:	**2510014A**	A		**SF:**	**2**
Description:	**T-114**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/19/25**	**Time:**	**13:11**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**14:31**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**645**				
Can Factor	**1.27**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**5160**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name:	2510014A		**SDG:**	**225100**			
QCBatch	032425-GCL						
Can Factor	1.27		**Calibration:**	**L10**	=>	L9 = Daily Calibration	RF: 6115
Volume:	5.00	ml	**RL Factor:**	**3**		L10 = Curve	RF: 5853
Base Volume	5.00	ml					CAL: 5853
Dilution Factor	1.27						
Gas Constant:	24.4						
Decimal Places:	2						

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	1.12	1.12	0.73	0.73	0.73	0.50	0.63	1.90	0.63	1.90	0.42	1.25	**J**

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 14

Client: C.E. Schmidt
Client ID: T-114
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 645
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:11
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	701		
Final:	888		
Factor:	1.27		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:		Item Description:	Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

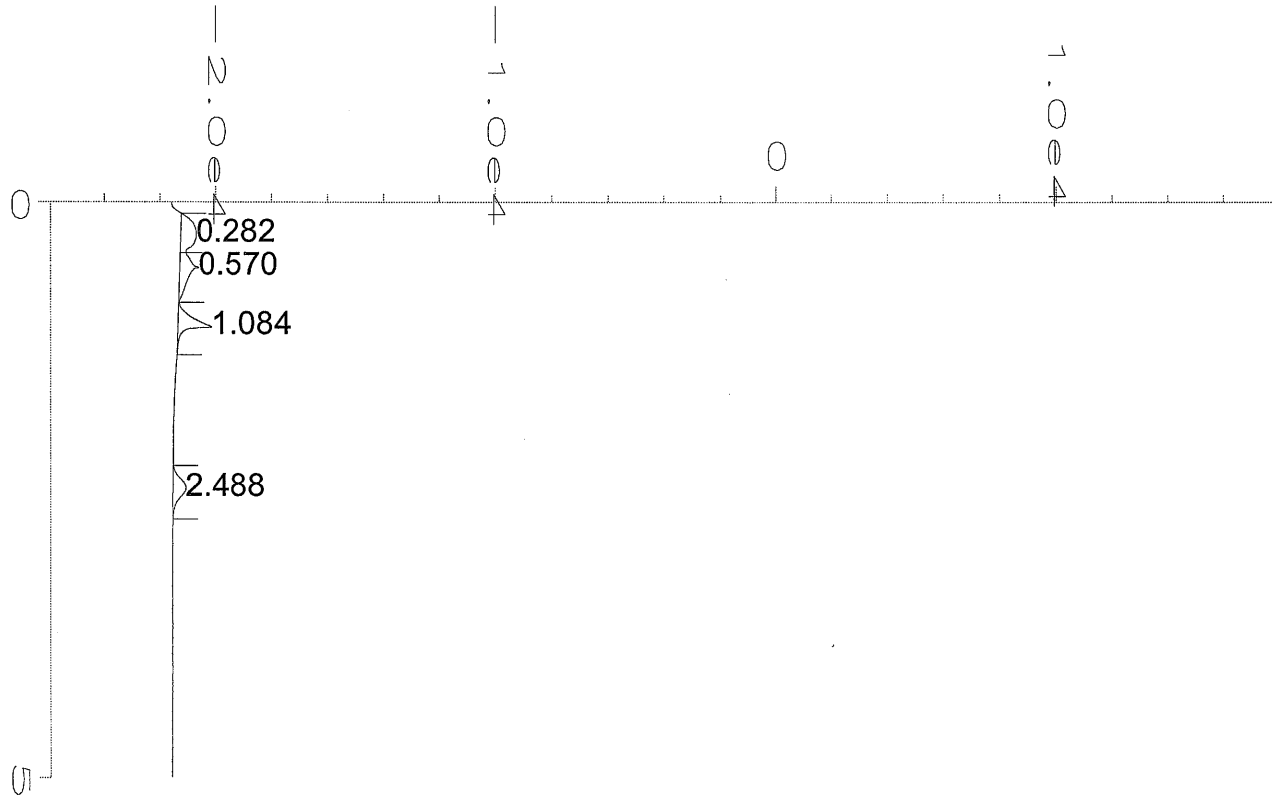
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510014A.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-114
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 02:31 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 02:36 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510014A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.282	8300	553	BV	0.192	29.5532
2	0.570	7372	670	VV	0.134	26.2474
3	1.084	7253	1227	VB	0.075	25.8257
4	2.488	5160	473	BB	0.140	18.3736

Total area = 28086

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Sample Data Packages

SDG Number **225100**

Lab Id Number **15**

Client ID T-115

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ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 15

File Name:	2510015A	**Date Sampled:**	03/19/25	**Time:**	12:53
Description:	T-115	**Date Analyzed:**	03/24/25	**Time:**	14:36
Can/Tube#:	654	**Dilution Factor:**	1.27		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.63	1.90	ND	0.42	1.25	ND	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**15**				
File Name:	**2510015A**	A		**SF:**	**2**
Description:	**T-115**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/19/25**	**Time:**	**12:53**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**14:36**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**654**				
Can Factor	**1.27**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**1795**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510015A
QCBatch 032425-GCL
Can Factor 1.27
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.27
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** **=>** L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	Lab Qual
Methane	16.00	0.39	ND	ND	0		0.50	0.63	1.90	0.63	1.90	0.42	1.25	U

EPA Qual	Det Qual	Rpt
	ND	Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 15

Client: C.E. Schmidt
Client ID: T-115
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 654
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Initial : 696
Final: 881
Factor: 1.27

Sampled: 3/19/2025 Time: 12:53
Received: 3/21/2025 Time: 14:30

Date:			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

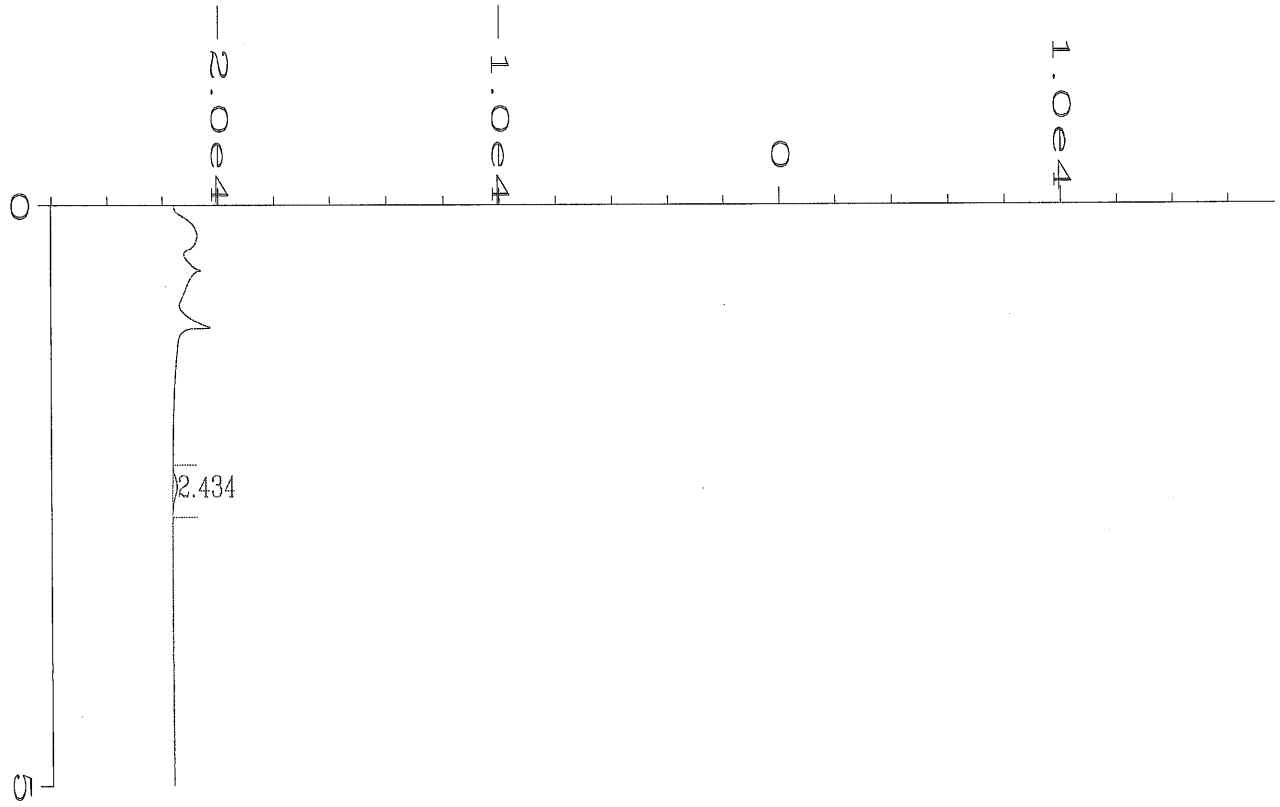
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCL\03245GCL\2510015A.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-115
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 02:36 PM
Instrument Method: 3416CH4.MTH
Report Created on: 26 Mar 25 11:01 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCL\03245GCL\2510015A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.434	1795	163	MM	0.183	100.0000

Total area = 1795

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **16**

Client ID T-116

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 16

File Name: 2510016A
Description: T-116
Can/Tube#: 782
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 13:03
Date Analyzed: 03/24/25 **Time:** 14:45
Dilution Factor: 1.48

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.74	2.22	ND	0.48	1.45	ND	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**16**				
File Name:	**2510016A**	A		**SF:**	**2**
Description:	**T-116**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/19/25**	**Time:**	**13:03**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**14:45**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**782**				
Can Factor	**1.48**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**846**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510016A
QCBatch 032425-GCL
Can Factor 1.48
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.48
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** **=>** L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	Lab Qual
Methane	16.00	0.21	ND	ND	0		0.50	0.74	2.22	0.74	2.22	0.48	1.45	U

EPA Qual	Det Qual	Rpt
	ND	Y

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 16

Client: C.E. Schmidt
Client ID: T-116
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 782
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:03
Received: 3/21/2025 Time: 14:30

	Date:		
Initial : 706	7/61		
Final: 881	9/02		
Factor: 1.25			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

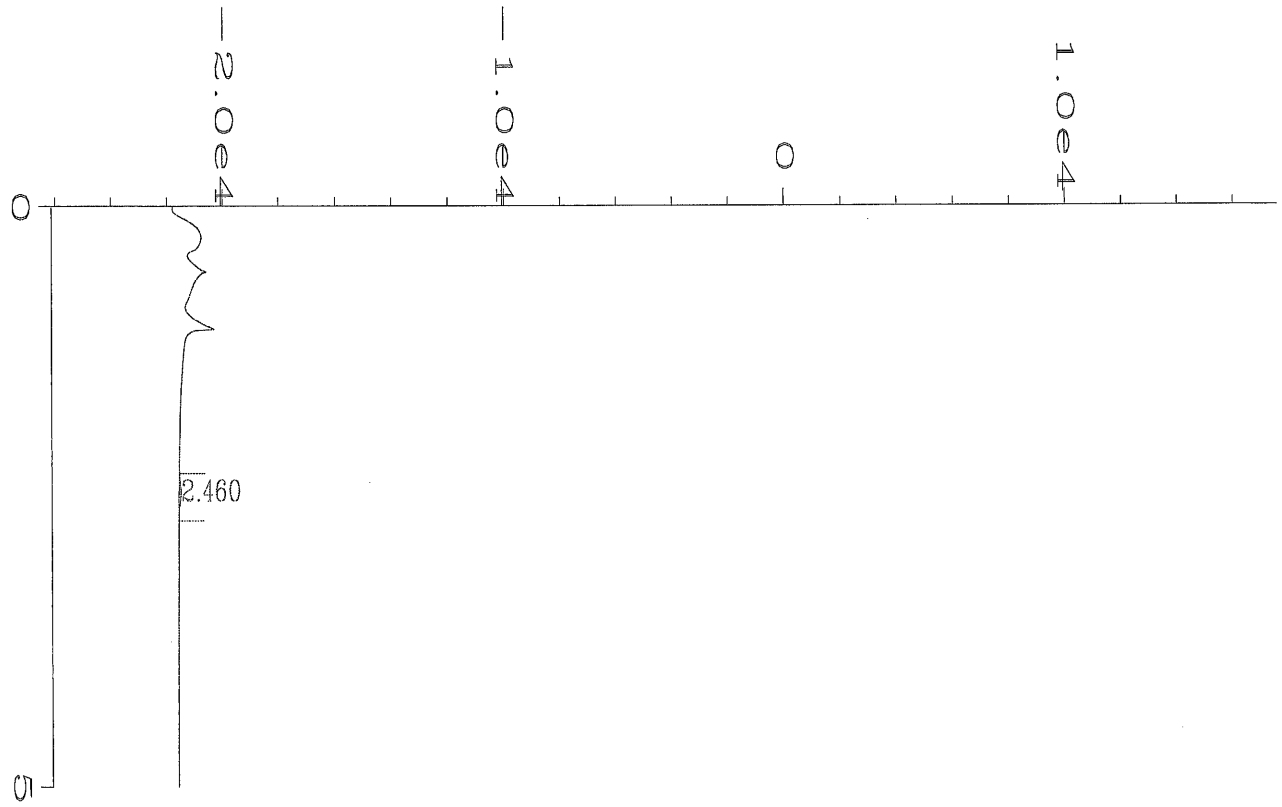
InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCL\03245GCL\2510016A.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-116
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 02:45 PM
Instrument Method: 3416CH4.MTH
Report Created on: 26 Mar 25 11:02 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCL\03245GCL\2510016A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.460	846	75	MM	0.187	100.0000

Total area = 846

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **17**

Client ID T-117

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

SDG: 225100
Modified Analytical Method: ASTM D3416 **Laboratory Number:** 17

File Name:	2510017A	**Date Sampled:**	03/19/25	**Time:**	13:03
Description:	T-117	**Date Analyzed:**	03/24/25	**Time:**	14:51
Can/Tube#:	643	**Dilution Factor:**	1.25		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.62	1.87	ND	0.41	1.22	ND	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**17**				
File Name:	**2510017A**	A		**SF:**	**2**
Description:	**T-117**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/19/25**	**Time:**	**13:03**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**14:51**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**643**				
Can Factor	**1.25**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**823**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name:	2510017A		**SDG:**	**225100**				
QCBatch	032425-GCL							
Can Factor	1.25		**Calibration:**	**L10**	=>	L9 = Daily Calibration	RF:	6115
Volume:	5.00	ml	**RL Factor:**	**3**		L10 = Curve	RF:	5853
Base Volume	5.00	ml					CAL:	5853
Dilution Factor	1.25							
Gas Constant:	24.4							
Decimal Places:	2							

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	0.18	ND	ND	0		0.50	0.62	1.87	0.62	1.87	0.41	1.22	**U**

EPA Qual	Det Qual	Rpt
	ND	Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 17

Client: C.E. Schmidt
Client ID: T-117
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 643
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:03
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	709		
Final:	883		
Factor:	1.25		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

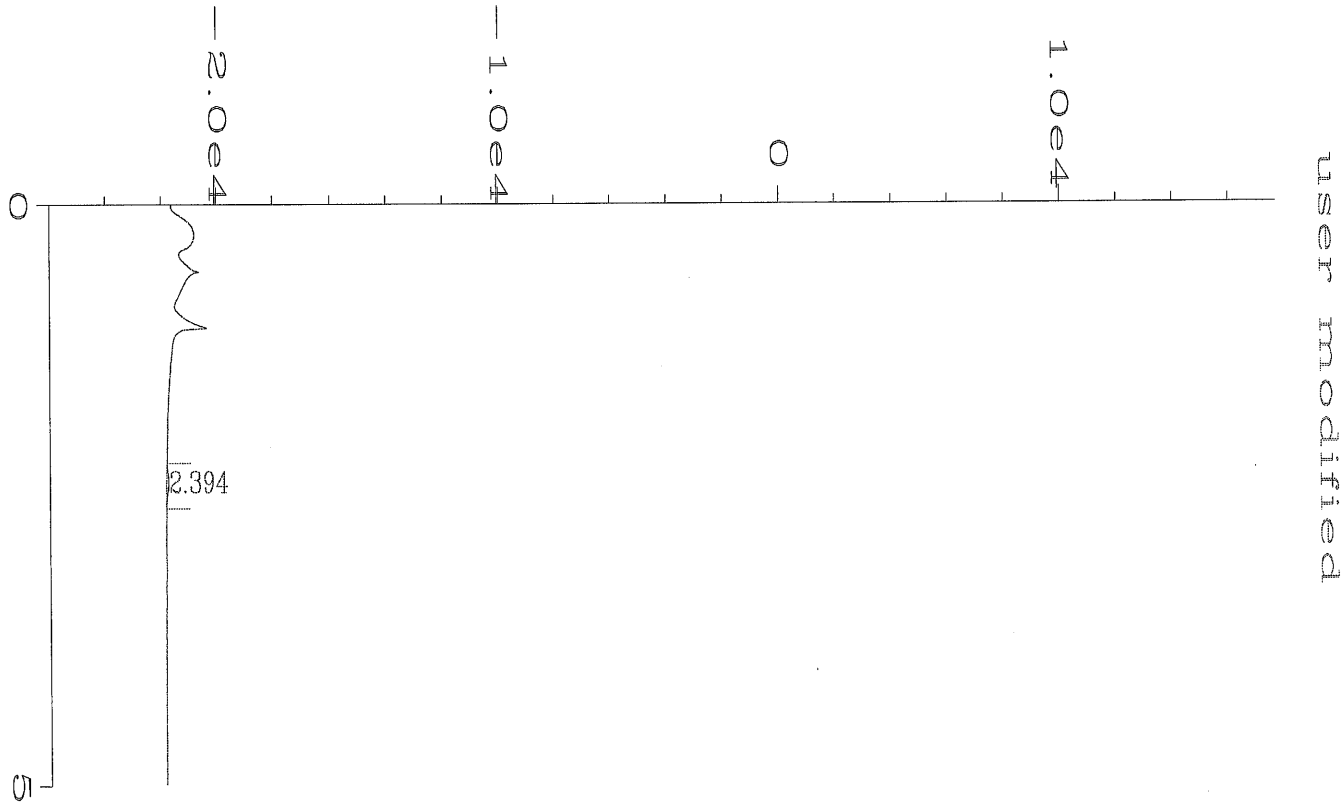
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



==========

Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCL\03245GCL\2510017A.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-117
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 02:51 PM
Instrument Method: 3416CH4.MTH
Report Created on: 26 Mar 25 11:05 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCL\03245GCL\2510017A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.394	823	83	MM	0.166	100.0000

Total area = 823

User Modified

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **18**

Client ID T-118

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 18

File Name: 2510018A
Description: T-118
Can/Tube#: 553
QC_Batch: 032425-GCL

Date Sampled: 03/19/25 **Time:** 13:25
Date Analyzed: 03/24/25 **Time:** 14:57
Dilution Factor: 1.14

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.57	1.71	ND	0.37	1.12	ND	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**18**				
File Name:	**2510018A**	A		**SF:**	**2**
Description:	**T-118**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/19/25**	**Time:**	**13:25**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**14:57**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**553**				
Can Factor	**1.14**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**0**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510018A
QCBatch 032425-GCL
Can Factor 1.14
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.14
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**
Calibration: **L10** => L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	Lab Qual
Methane	16.00	0.00	ND	ND	0		0.50	0.57	1.71	0.57	1.71	0.37	1.12	U

EPA Qual	Det Qual	Rpt
	ND	Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 18

Client: C.E. Schmidt
Client ID: T-118
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 553
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Date:
Initial : 783
Final: 891
Factor: 1.14

Sampled: 3/19/2025 Time: 13:25
Received: 3/21/2025 Time: 14:30

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

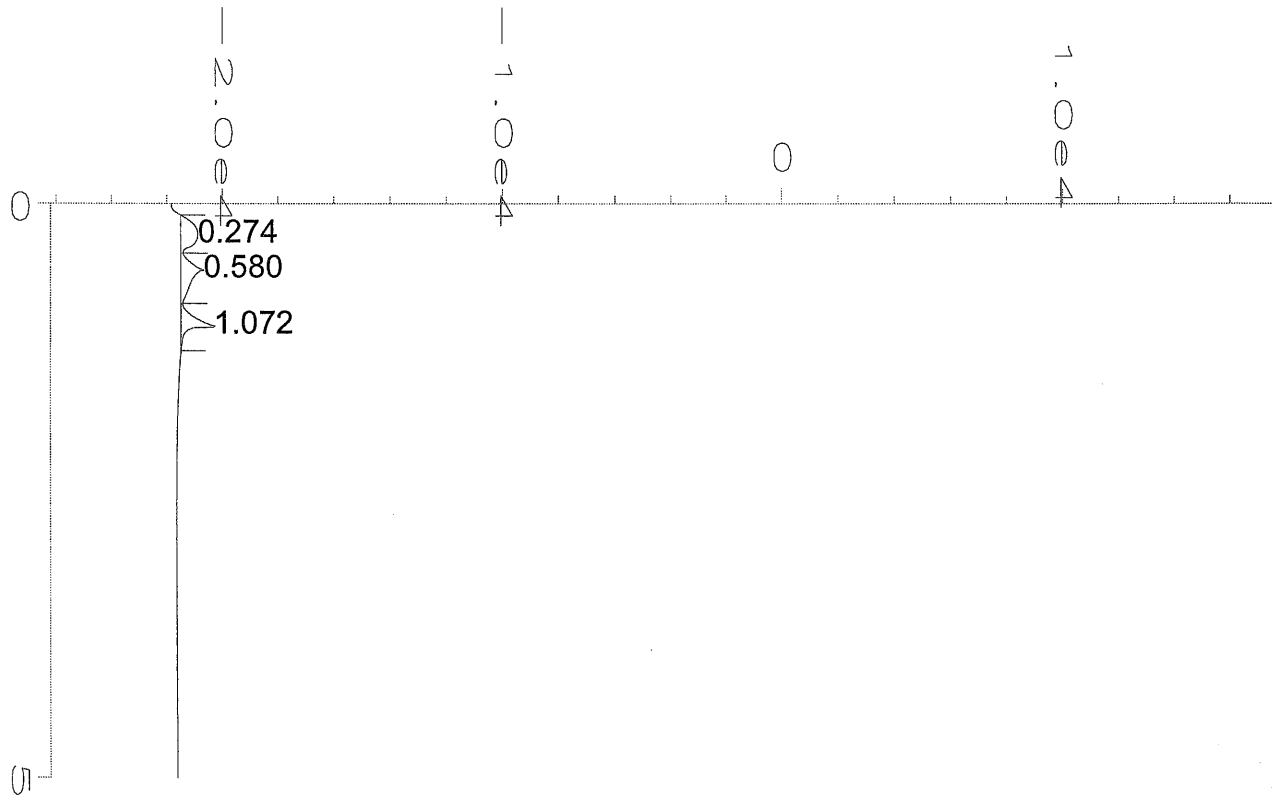
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510018A.D
Operator : DA
Instrument : ANALYZER1
Sample Name : T-118
Run Time Bar Code:
Acquired on : 24 Mar 25 02:57 PM
Report Created on: 24 Mar 25 03:02 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510018A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.274	8196	613	BV	0.169	33.9781
2	0.580	8721	816	VV	0.131	36.1568
3	1.072	7204	1222	VB	0.074	29.8652

Total area = 24120

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **19**

Client ID T-201

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

SDG: 225100
Modified Analytical Method: ASTM D3416 **Laboratory Number:** 20

File Name:	2510020A	**Date Sampled:**	03/20/25	**Time:**	8:38
Description:	T-202	**Date Analyzed:**	03/24/25	**Time:**	15:15
Can/Tube#:	883	**Dilution Factor:**	1.18		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.59	1.77	107.81	0.39	1.16	70.69	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**20**				
File Name:	**2510020A**	A		**SF:**	**2**
Description:	**T-202**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/20/25**	**Time:**	**8:38**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**15:15**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**883**				
Can Factor	**1.18**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**534111**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510020A
QCBatch 032425-GCL
Can Factor 1.18
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.18
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** => L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	107.81	107.81	70.69	70.69	70.69	0.50	0.59	1.77	0.59	1.77	0.39	1.16	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 19

Client: C.E. Schmidt
Client ID: T-201
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 726
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:23
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	738		
Final:	895		
Factor:	1.21		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

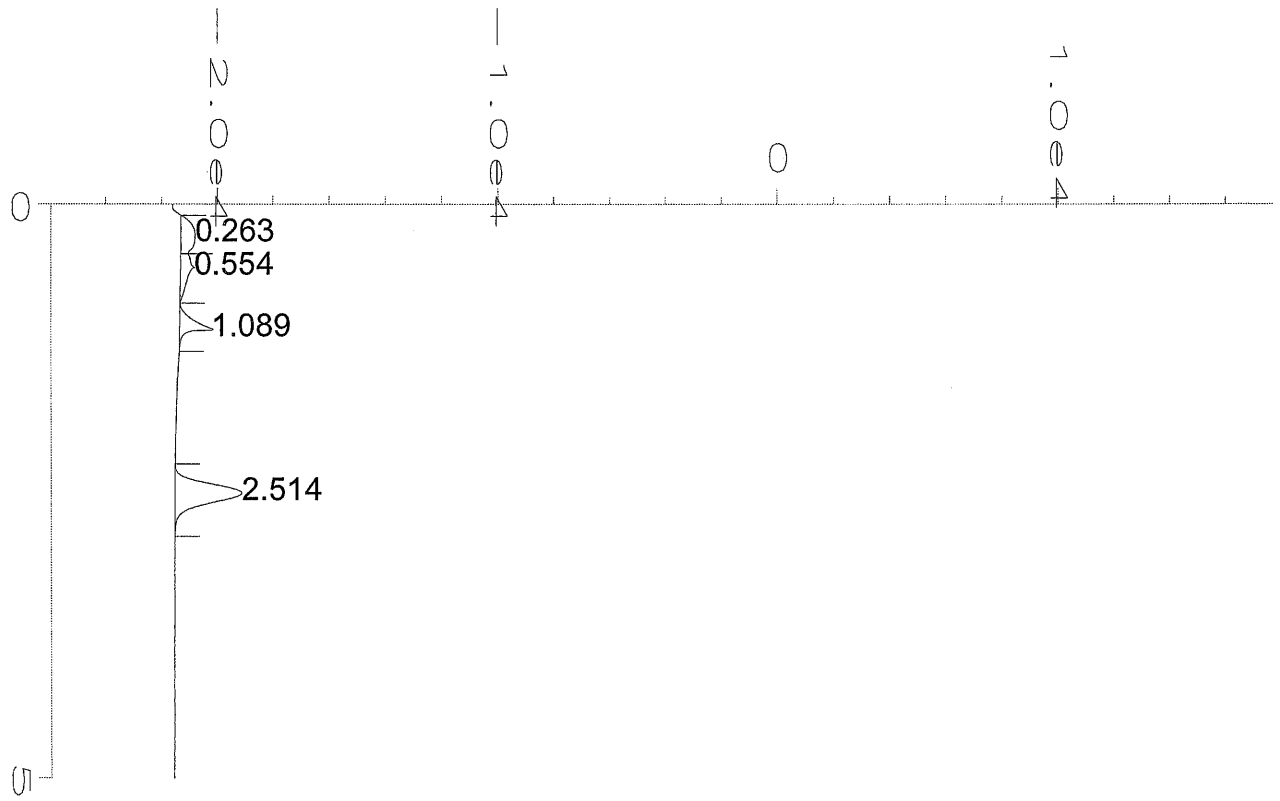
InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510019A.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-119
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 03:06 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 03:11 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510019A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.263	7898	512	BV	0.208	16.1995
2	0.554	6282	500	VV	0.160	12.8850
3	1.089	7111	1206	VB	0.076	14.5846
4	2.514	27465	2421	BB	0.177	56.3309

Total area = 48756

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Sample Data Packages

SDG Number **225100**

Lab Id Number **20**

Client ID T-202

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 20

File Name: 2510020A
Description: T-202
Can/Tube#: 883
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 8:38
Date Analyzed: 03/24/25 **Time:** 15:15
Dilution Factor: 1.18

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.59	1.77	107.81	0.39	1.16	70.69	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**20**				
File Name:	**2510020A**	A		**SF:**	**2**
Description:	**T-202**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/20/25**	**Time:**	**8:38**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**15:15**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**883**				
Can Factor	**1.18**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**534111**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name:	2510020A		**SDG:**	**225100**			
QCBatch	032425-GCL						
Can Factor	1.18		**Calibration:**	**L10**	=>	L9 = Daily Calibration	RF: 6115
Volume:	5.00	ml	**RL Factor:**	**3**		L10 = Curve	RF: 5853
Base Volume	5.00	ml					CAL: 5853
Dilution Factor	1.18						
Gas Constant:	24.4						
Decimal Places:	2						

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	107.81	107.81	70.69	70.69	70.69	0.50	0.59	1.77	0.59	1.77	0.39	1.16	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 20

Client: C.E. Schmidt
Client ID: T-202
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 883
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:38
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	739		
Final:	873		
Factor:	1.18		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

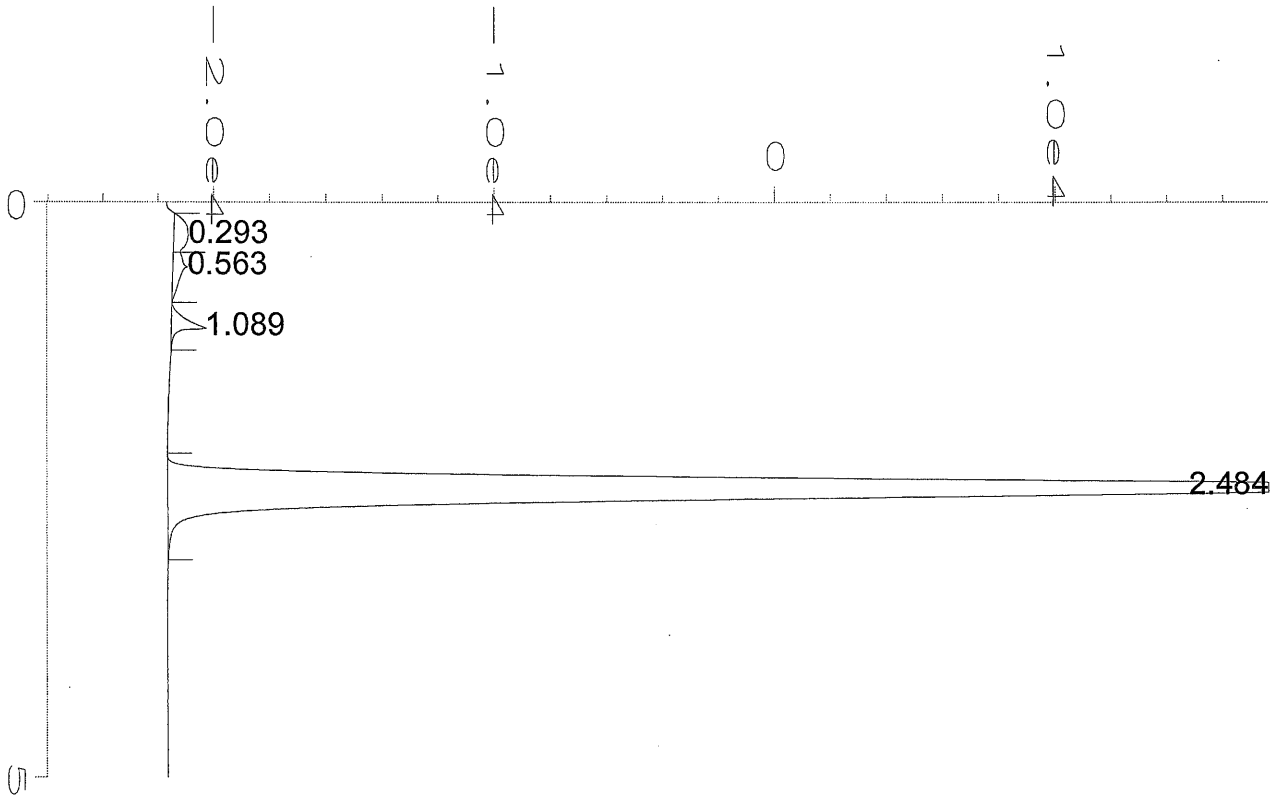
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510020A.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-202
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 03:15 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 03:20 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510020A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.293	7762	509	BV	0.198	1.3976
2	0.563	6324	518	VV	0.152	1.1386
3	1.089	7173	1212	PB	0.076	1.2916
4	2.484	534111	46963	BB	0.177	96.1722

Total area = 555369

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **21**

Client ID T-203

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 21

File Name:	2510021A	**Date Sampled:**	03/20/25	**Time:**	8:33
Description:	T-203	**Date Analyzed:**	03/24/25	**Time:**	15:34
Can/Tube#:	858	**Dilution Factor:**	1.20		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.60	1.79	4,572.23	0.39	1.18	2,998.18	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**21**				
File Name:	**2510021A**	A		**SF:**	**2**
Description:	**T-203**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/20/25**	**Time:**	**8:33**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**15:34**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**858**				
Can Factor	**1.20**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**22375400**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510021A
QCBatch 032425-GCL
Can Factor 1.20
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.20
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**
Calibration: **L10** **=>** L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	4572.23	4,572.23	2,998.18	2,998.18	2,998.18	0.50	0.60	1.79	0.60	1.79	0.39	1.18	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 21

Client: C.E. Schmidt
Client ID: T-203
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 858
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:33
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	735		
Final:	879		
Factor:	1.20		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

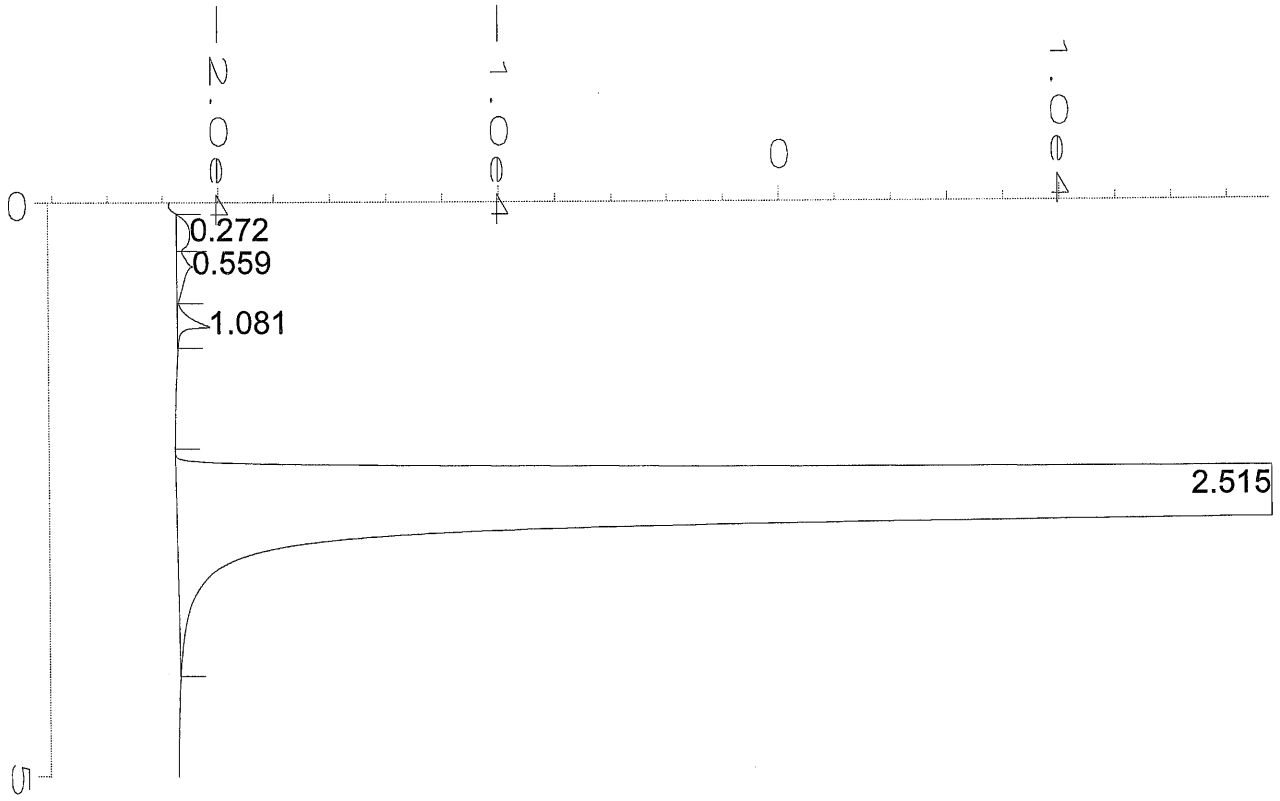
InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



==========

Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510021A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-203
Run Time Bar Code:
Acquired on : 24 Mar 25 03:34 PM
Report Created on: 24 Mar 25 03:39 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510021A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.272	7225	498	BV	0.196	0.0323
2	0.559	7225	600	VV	0.150	0.0323
3	1.081	7004	1145	VB	0.078	0.0313
4	2.515	2.23754E+007	1961337	BB	0.178	99.9042

Total area = 2.23968E+007

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **22**

Client ID T-204

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 22

File Name:	2510022A	**Date Sampled:**	03/20/25	**Time:**	8:29
Description:	T-204	**Date Analyzed:**	03/24/25	**Time:**	15:43
Can/Tube#:	758	**Dilution Factor:**	1.18		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.59	1.76	273.23	0.39	1.16	179.17	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**22**				
File Name:	**2510022A**	A		**SF:**	**2**
Description:	**T-204**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/20/25**	**Time:**	**8:29**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**15:43**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**758**				
Can Factor	**1.18**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**1359404**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510022A
QCBatch 032425-GCL
Can Factor 1.18
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.18
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** **=>** L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	273.23	273.23	179.17	179.17	179.17	0.50	0.59	1.76	0.59	1.76	0.39	1.16	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 22

Client: C.E. Schmidt
Client ID: T-204
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 758
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:29
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	743		
Final:	874		
Factor:	1.18		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

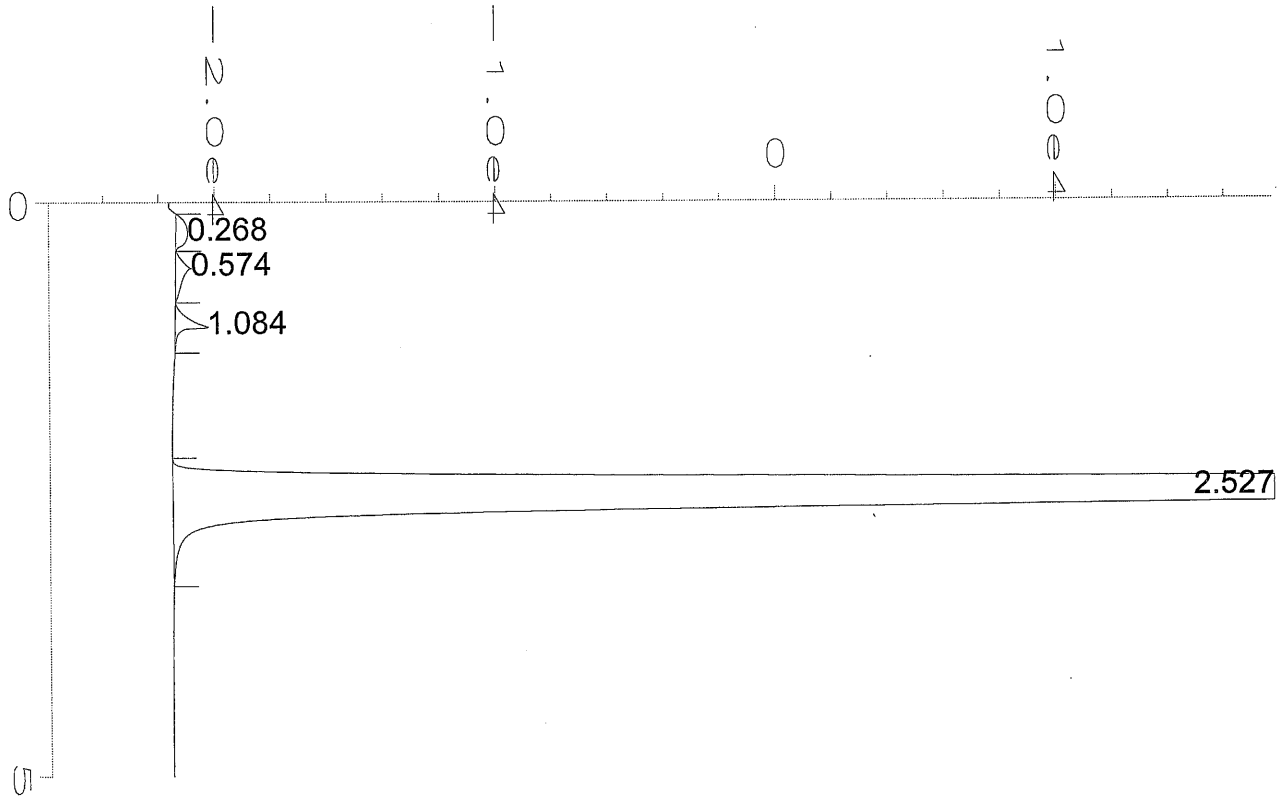
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510022A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-204
Run Time Bar Code:
Acquired on : 24 Mar 25 03:43 PM
Report Created on: 24 Mar 25 03:48 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510022A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.268	5657	433	BV	0.171	0.4106
2	0.574	5783	561	VV	0.133	0.4198
3	1.084	6797	1149	VB	0.076	0.4934
4	2.527	1359404	120083	BB	0.176	98.6762

Total area = 1377641

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **23**

Client ID T-205

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ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

SDG: 225100
Modified Analytical Method: ASTM D3416 **Laboratory Number:** 23

File Name:	2510023A	**Date Sampled:**	03/20/25	**Time:**	10:00
Description:	T-205	**Date Analyzed:**	03/24/25	**Time:**	15:50
Can/Tube#:	659	**Dilution Factor:**	1.27		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.63	1.90	88.05	0.42	1.25	57.73	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**23**				
File Name:	**2510023A**	A		**SF:**	**2**
Description:	**T-205**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/20/25**	**Time:**	**10:00**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**15:50**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**659**				
Can Factor	**1.27**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**406718**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name:	2510023A		**SDG:**	**225100**				
QCBatch	032425-GCL							
Can Factor	1.27		**Calibration:**	**L10**	=>	L9 = Daily Calibration	RF:	6115
Volume:	5.00	ml	**RL Factor:**	**3**		L10 = Curve	RF:	5853
Base Volume	5.00	ml					CAL:	5853
Dilution Factor	1.27							
Gas Constant:	24.4							
Decimal Places:	2							

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	88.05	88.05	57.73	57.73	57.73	0.50	0.63	1.90	0.63	1.90	0.42	1.25	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 23

Client: C.E. Schmidt
Client ID: T-205
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 659
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 10:00
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	708		
Final:	897		
Factor:	1.27		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:		Item Description:	Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

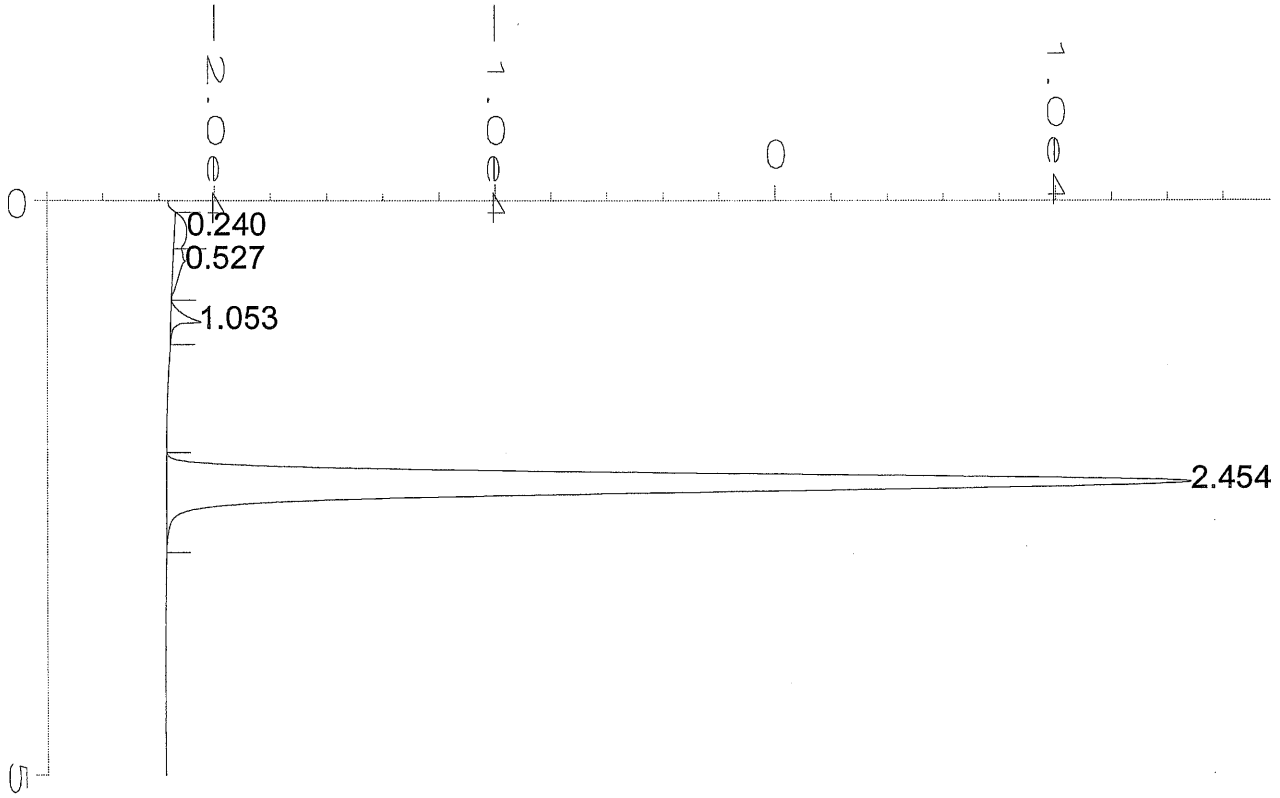
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510023A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-205
Run Time Bar Code:
Acquired on : 24 Mar 25 03:50 PM
Report Created on: 24 Mar 25 03:55 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510023A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.240	6483	432	BV	0.212	1.5264
2	0.527	5881	431	VV	0.172	1.3848
3	1.053	5641	1038	PB	0.070	1.3282
4	2.454	406718	36550	BB	0.174	95.7606

Total area = 424724

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Sample Data Packages

SDG Number **225100**

Lab Id Number **24**

Client ID T-206

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 24

File Name: 2510024A
Description: T-206
Can/Tube#: 882
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 9:55
Date Analyzed: 03/24/25 **Time:** 16:05
Dilution Factor: 1.24

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.62	1.87	1,769.67	0.41	1.22	1,160.44	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**24**				
File Name:	**2510024A**	A		**SF:**	**2**
Description:	**T-206**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/20/25**	**Time:**	**9:55**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**16:05**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**882**				
Can Factor	**1.24**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**8327865**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510024A
QCBatch 032425-GCL
Can Factor 1.24
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.24
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** => L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	1769.67	1,769.67	1,160.44	1,160.44	1,160.44	0.50	0.62	1.87	0.62	1.87	0.41	1.22	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 24

Client: C.E. Schmidt
Client ID: T-206
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 882
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Initial : 710
Final: 883
Factor: 1.24

Sampled: 3/20/2025 Time: 9:55
Received: 3/21/2025 Time: 14:30

Date:

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions

Sample Type:

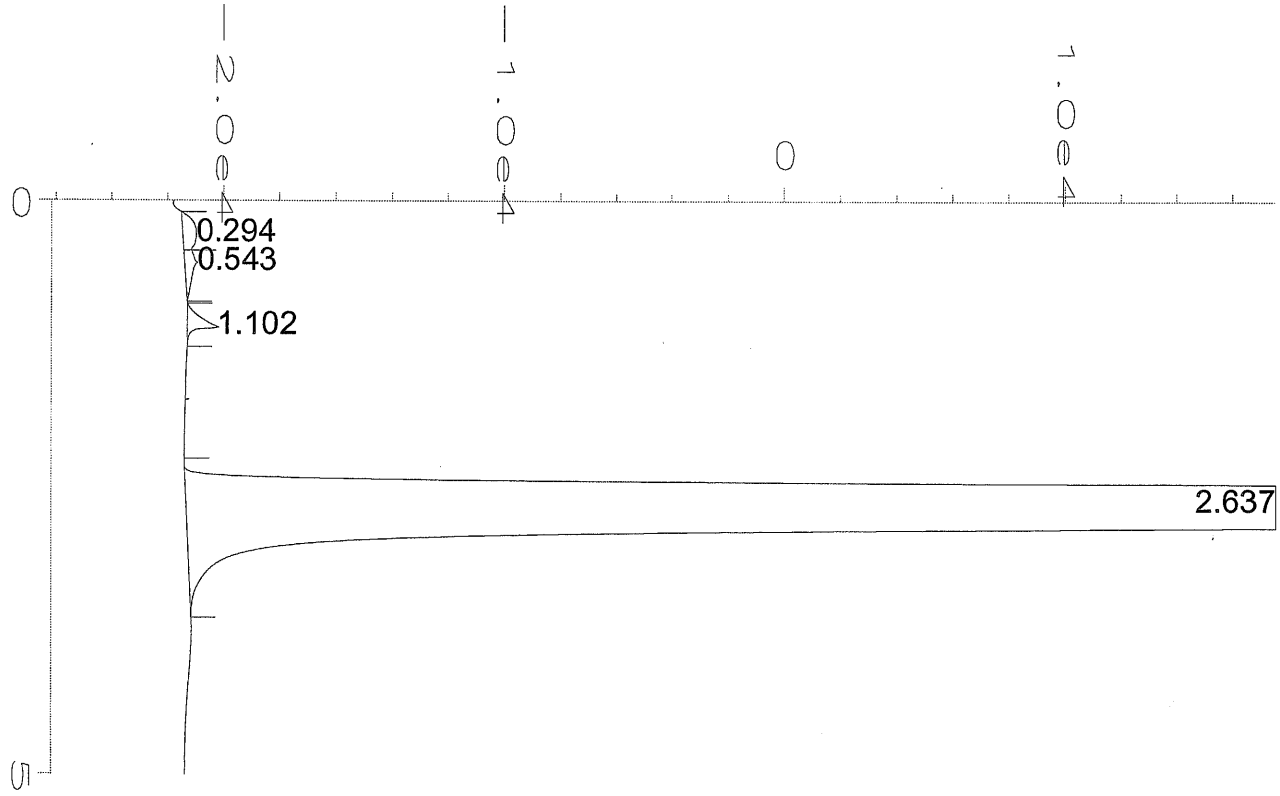
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions: EAS QC Criteria

Report Types: PDF Only

EDD Instructions EDD Type:



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510024A.D
Operator : LR
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-206
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 04:05 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 04:10 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510024A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.294	7494	475	BV	0.220	0.0898
2	0.543	5930	467	VB	0.161	0.0710
3	1.102	6691	1115	BB	0.077	0.0801
4	2.637	8327865	712314	BB	0.182	99.7590

Total area = 8347980

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Sample Data Packages

SDG Number **225100**

Lab Id Number **25**

Client ID T-207

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 25

File Name:	2510025A	**Date Sampled:**	03/20/25	**Time:**	10:05
Description:	T-207	**Date Analyzed:**	03/24/25	**Time:**	16:19
Can/Tube#:	627	**Dilution Factor:**	1.31		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.65	1.96	271.62	0.43	1.28	178.11	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**25**				
File Name:	**2510025A**	A		**SF:**	**2**
Description:	**T-207**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/20/25**	**Time:**	**10:05**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**16:19**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**627**				
Can Factor	**1.31**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**1216888**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510025A
QCBatch 032425-GCL
Can Factor 1.31
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.31
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** => L9 = Daily Calibration
RL Factor: **3** L10 = Curve

RF: 6115
RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	271.62	271.62	178.11	178.11	178.11	0.50	0.65	1.96	0.65	1.96	0.43	1.28	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:	Expires:		
	4/19/2025	225100	25

Client:	C.E. Schmidt	MS Load Vol:	300
Client ID:	T-207	MS SIM Vol:	
Description:		GCK Load Vol:	200
Project Name:	Chiquita Canyon	GCP Load Vol:	
EAS Project:	17807	EAS PM: David Atkinson	Sample Volume:

Media:	CAN	Can Pressurization:	Sampled:	3/20/2025	Time: 10:05
Can Number:	627		Received:	3/21/2025	Time: 14:30
FC Number:	0				
TAT Working:		Date:			
Sampling Time:		Initial :	692		
Flow:		Final:	904		
		Factor:	1.31		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

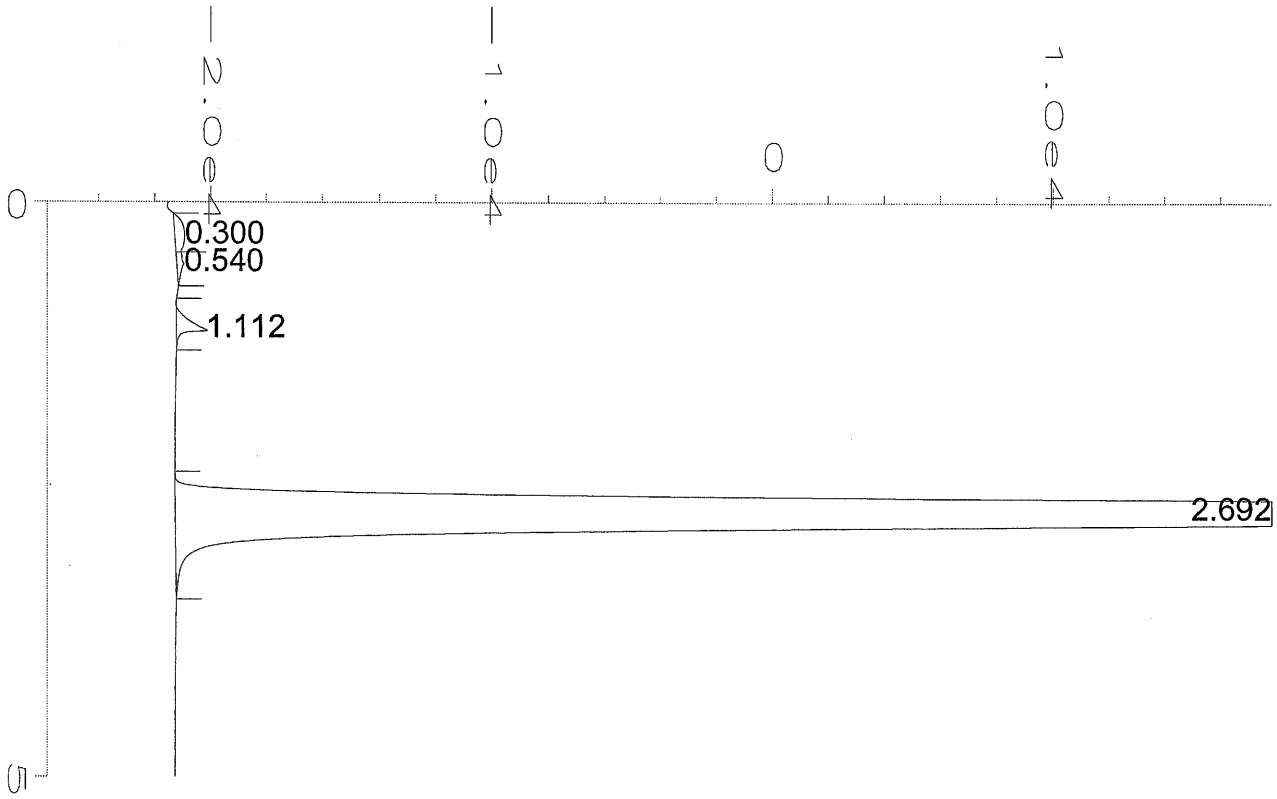
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510025A.D
Operator : LR
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-207
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 04:19 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 04:24 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510025A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.300	5427	344	BV	0.212	0.4409
2	0.540	2399	251	VB	0.124	0.1949
3	1.112	6330	1086	BB	0.075	0.5142
4	2.692	1216888	101908	BB	0.186	98.8501

Total area = 1231044

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **26**

Client ID T-208

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 26

File Name: 2510026A
Description: T-208
Can/Tube#: 791
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 10:08
Date Analyzed: 03/24/25 **Time:** 16:27
Dilution Factor: 1.26

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.63	1.88	322.09	0.41	1.23	211.21	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**26**				
File Name:	**2510026A**	A		**SF:**	**2**
Description:	**T-208**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/20/25**	**Time:**	**10:08**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**16:27**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**791**				
Can Factor	**1.26**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**1501701**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name:	2510026A		**SDG:**	**225100**			
QCBatch	032425-GCL						
Can Factor	1.26		**Calibration:**	**L10**	**=>**	L9 = Daily Calibration	RF: 6115
Volume:	5.00	ml	**RL Factor:**	**3**		L10 = Curve	RF: 5853
Base Volume	5.00	ml					CAL: 5853
Dilution Factor	1.26						
Gas Constant:	24.4						
Decimal Places:	2						

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	322.09	322.09	211.21	211.21	211.21	0.50	0.63	1.88	0.63	1.88	0.41	1.23	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 26

Client: C.E. Schmidt
Client ID: T-208
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 791
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 10:08
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	709		
Final:	890		
Factor:	1.26		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

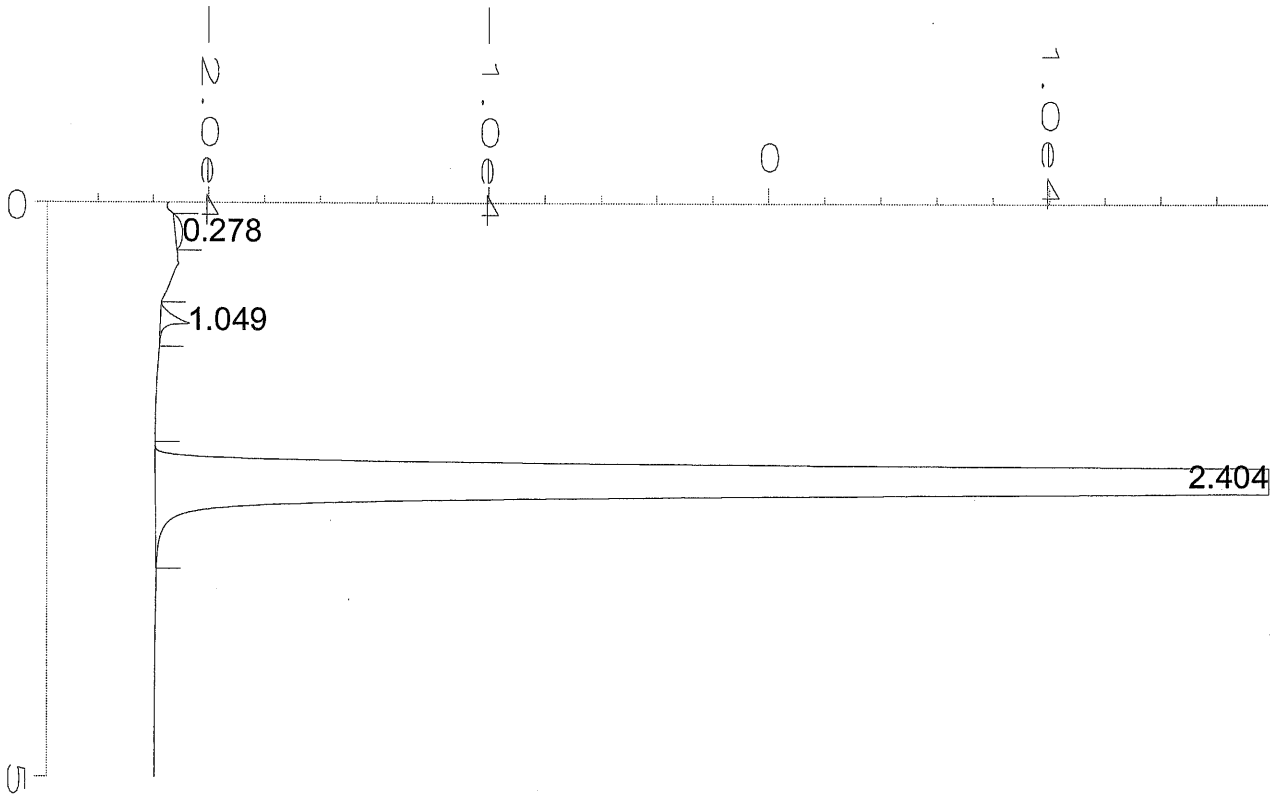
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510026A.D
Operator : LR
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-208
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 04:27 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 04:32 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510026A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.278	3584	263	BB	0.186	0.2373
2	1.049	5372	1020	PB	0.068	0.3556
3	2.404	1501701	136749	BB	0.171	99.4071

Total area = 1510658

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **27**

Client ID T-209

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

SDG: 225100
Modified Analytical Method: ASTM D3416 **Laboratory Number:** 27

File Name:	2510027A	**Date Sampled:**	03/20/25	**Time:**	11:21
Description:	T-209	**Date Analyzed:**	03/24/25	**Time:**	16:43
Can/Tube#:	778	**Dilution Factor:**	1.30		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.65	1.95	ND	0.43	1.28	ND	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**27**				
File Name:	**2510027A**	A		**SF:**	**2**
Description:	**T-209**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/20/25**	**Time:**	**11:21**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**16:43**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**778**				
Can Factor	**1.30**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**2833**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510027A
QCBatch 032425-GCL
Can Factor 1.30
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.30
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** => L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	Lab Qual
Methane	16.00	0.63	ND	ND	0		0.50	0.65	1.95	0.65	1.95	0.43	1.28	**U**

EPA Qual	Det Qual	Rpt
	ND	Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 27

Client: C.E. Schmidt
Client ID: T-209
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 778
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Initial : 682
Final: 887
Factor: 1.30

Sampled: 3/20/2025 Time: 11:21
Received: 3/21/2025 Time: 14:30

Date:

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions

Sample Type:

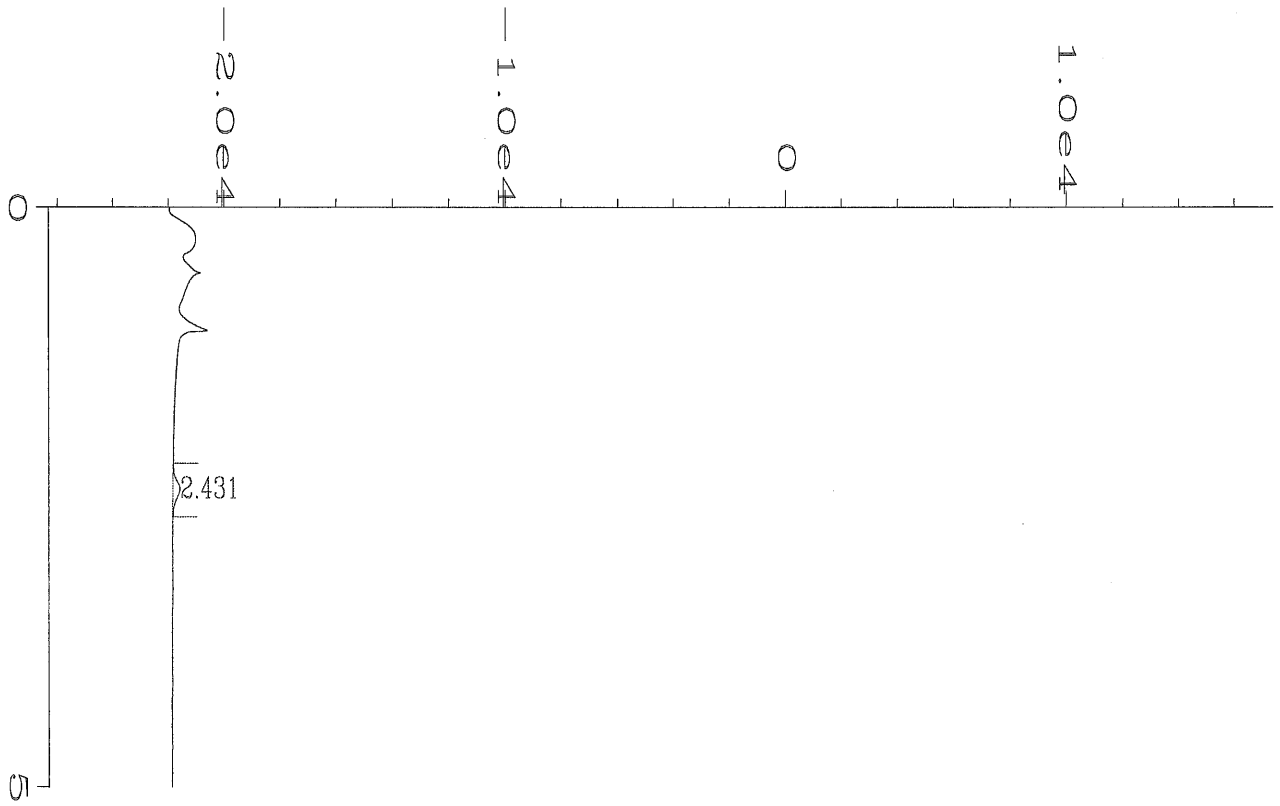
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions: EAS QC Criteria

Report Types: PDF Only

EDD Instructions EDD Type:



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCL\03245GCL\2510027A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-209
Run Time Bar Code:
Acquired on : 24 Mar 25 04:43 PM
Report Created on: 26 Mar 25 12:08 PM
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCL\03245GCL\2510027A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.431	2833	256	MM	0.184	100.0000

Total area = 2833

User Modified

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **28**

Client ID T-210

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 28

File Name: 2510028A
Description: T-210
Can/Tube#: 714
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 11:21
Date Analyzed: 03/24/25 **Time:** 16:51
Dilution Factor: 1.27

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.63	1.90	2.43	0.42	1.25	1.59	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**28**				
File Name:	**2510028A**	A		**SF:**	**2**
Description:	**T-210**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/20/25**	**Time:**	**11:21**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**16:51**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**714**				
Can Factor	**1.27**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**11185**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510028A
QCBatch 032425-GCL
Can Factor 1.27
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.27
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** **=>** L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	2.43	2.43	1.59	1.59	1.59	0.50	0.63	1.90	0.63	1.90	0.42	1.25	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 | 28

Client: C.E. Schmidt
Client ID: T-210
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 714
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:21
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	695			
Final:	882			
Factor:	1.27			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

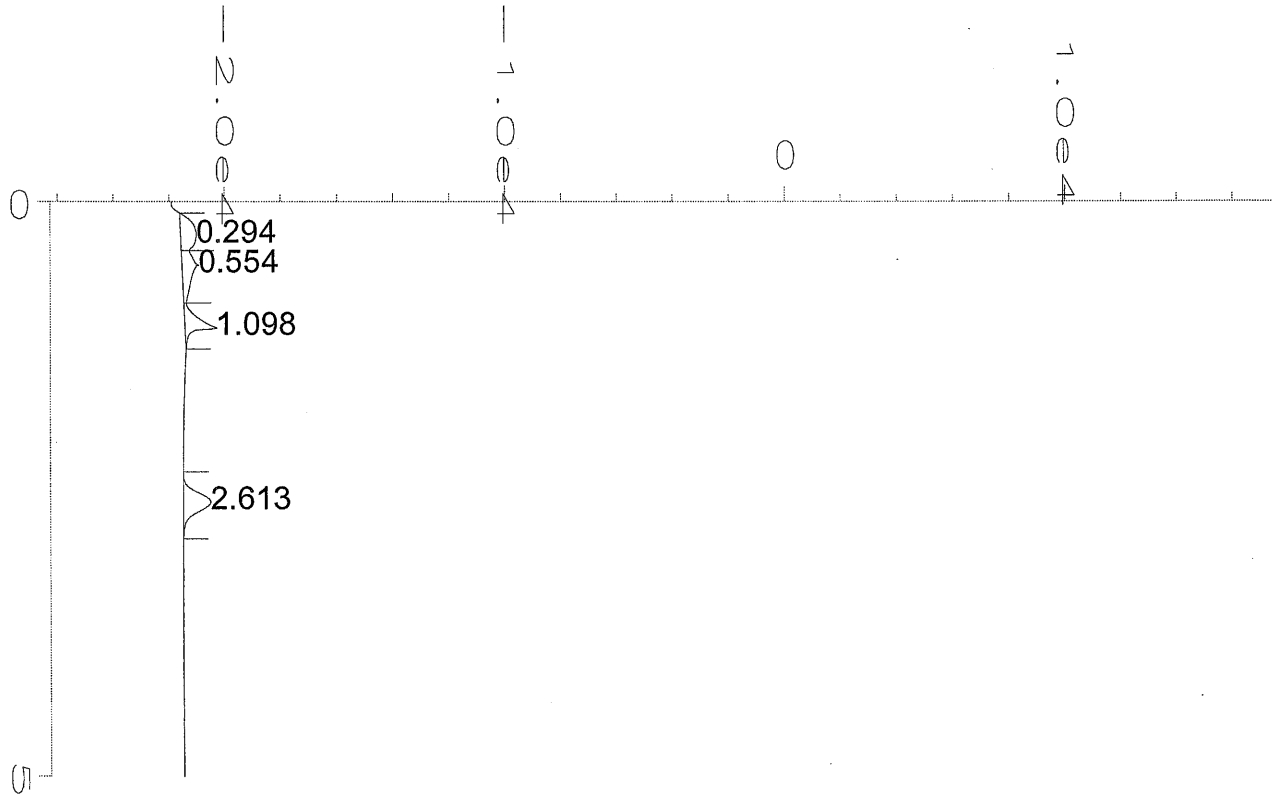
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510028A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-210
Run Time Bar Code:
Acquired on : 24 Mar 25 04:51 PM
Report Created on: 24 Mar 25 04:56 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510028A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.294	8247	548	BV	0.201	23.3970
2	0.554	8322	583	VV	0.175	23.6098
3	1.098	7494	1124	VB	0.085	21.2603
4	2.613	11185	979	BB	0.176	31.7328

Total area = 35248

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **29**

Client ID T-211

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

SDG: 225100
Modified Analytical Method: ASTM D3416 **Laboratory Number:** 29

File Name:	2510029A	**Date Sampled:**	03/20/25	**Time:**	11:26
Description:	T-211	**Date Analyzed:**	03/24/25	**Time:**	16:58
Can/Tube#:	629	**Dilution Factor:**	1.29		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.64	1.93	ND	0.42	1.27	ND	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**29**				
File Name:	**2510029A**	A		**SF:**	**2**
Description:	**T-211**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/20/25**	**Time:**	**11:26**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**16:58**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**629**				
Can Factor	**1.29**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**2218**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510029A
QCBatch 032425-GCL
Can Factor 1.29
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.29
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** **=>** L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	0.49	ND	ND	0		0.50	0.64	1.93	0.64	1.93	0.42	1.27	**U**

EPA Qual	Det Qual	Rpt
	ND	Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 29

Client: C.E. Schmidt
Client ID: T-211
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 629
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:26
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	685		
Final:	881		
Factor:	1.29		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

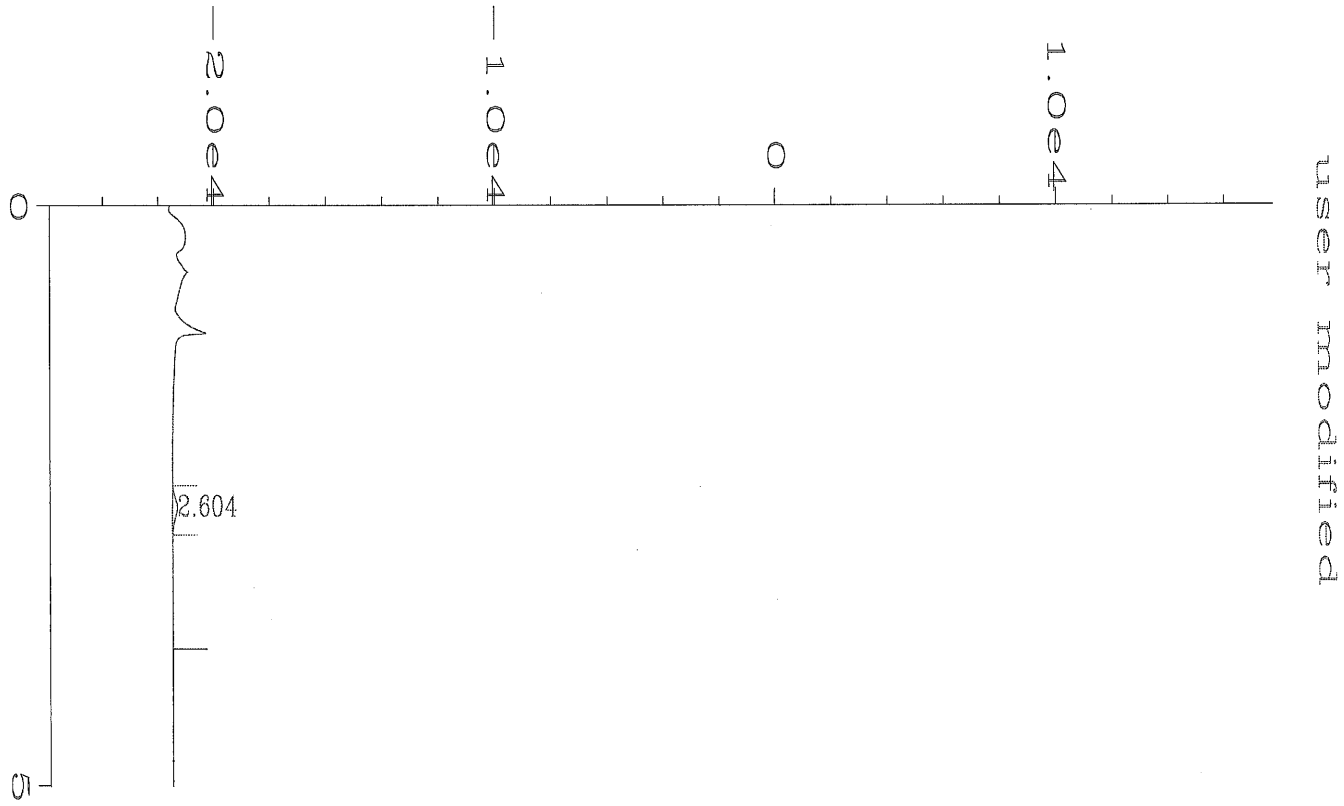
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCL\03245GCL\2510029A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-211
Run Time Bar Code:
Acquired on : 24 Mar 25 04:58 PM
Report Created on: 26 Mar 25 12:14 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCL\03245GCL\2510029A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.604	2218	186	MM	0.199	100.0000

Total area = 2218

User Modified

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **30**

Client ID T-212

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 30

File Name: 2510030A
Description: T-212
Can/Tube#: 502
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 11:30
Date Analyzed: 03/24/25 **Time:** 17:08
Dilution Factor: 1.35

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.68	2.03	ND	0.44	1.33	ND	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**30**				
File Name:	**2510030A**	A		**SF:**	**2**
Description:	**T-212**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/20/25**	**Time:**	**11:30**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**17:08**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**502**				
Can Factor	**1.35**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**1970**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510030A
QCBatch 032425-GCL
Can Factor 1.35
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.35
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** **=>** L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	0.46	ND	ND	0		0.50	0.68	2.03	0.68	2.03	0.44	1.33	**U**

EPA Qual	Det Qual	Rpt
	ND	Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 30

Client: C.E. Schmidt
Client ID: T-212
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 502
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:30
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	687		
Final:	930		
Factor:	1.35		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

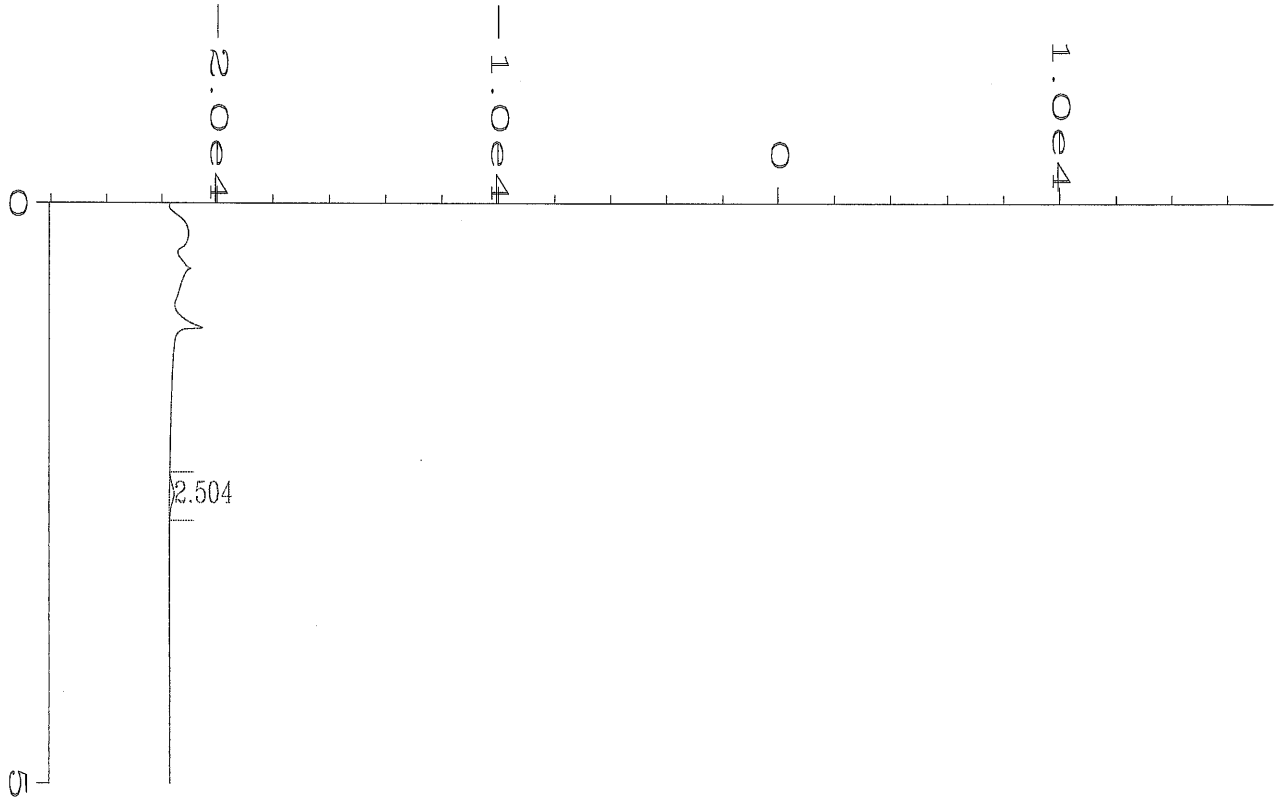
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCL\03245GCL\2510030A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-212
Run Time Bar Code:
Acquired on : 24 Mar 25 05:08 PM
Report Created on: 26 Mar 25 12:16 PM
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCL\03245GCL\2510030A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.504	1970	176	MM	0.186	100.0000

Total area = 1970

User Modified

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **31**

Client ID T-213

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 31

File Name: 2510031A
Description: T-213
Can/Tube#: 712
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 11:30
Date Analyzed: 03/24/25 **Time:** 17:24
Dilution Factor: 1.33

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.67	2.00	ND	0.44	1.31	ND	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**31**				
File Name:	**2510031A**	A		**SF:**	**2**
Description:	**T-213**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/20/25**	**Time:**	**11:30**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**17:24**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**712**				
Can Factor	**1.33**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**1598**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510031A
QCBatch 032425-GCL
Can Factor 1.33
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.33
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** => L9 = Daily Calibration
RL Factor: **3** L10 = Curve

RF: 6115
RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	0.36	ND	ND	0		0.50	0.67	2.00	0.67	2.00	0.44	1.31	**U**

EPA Qual	Det Qual	Rpt
	ND	Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 31

Client: C.E. Schmidt
Client ID: T-213
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 712
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:30
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	678		
Final:	905		
Factor:	1.33		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

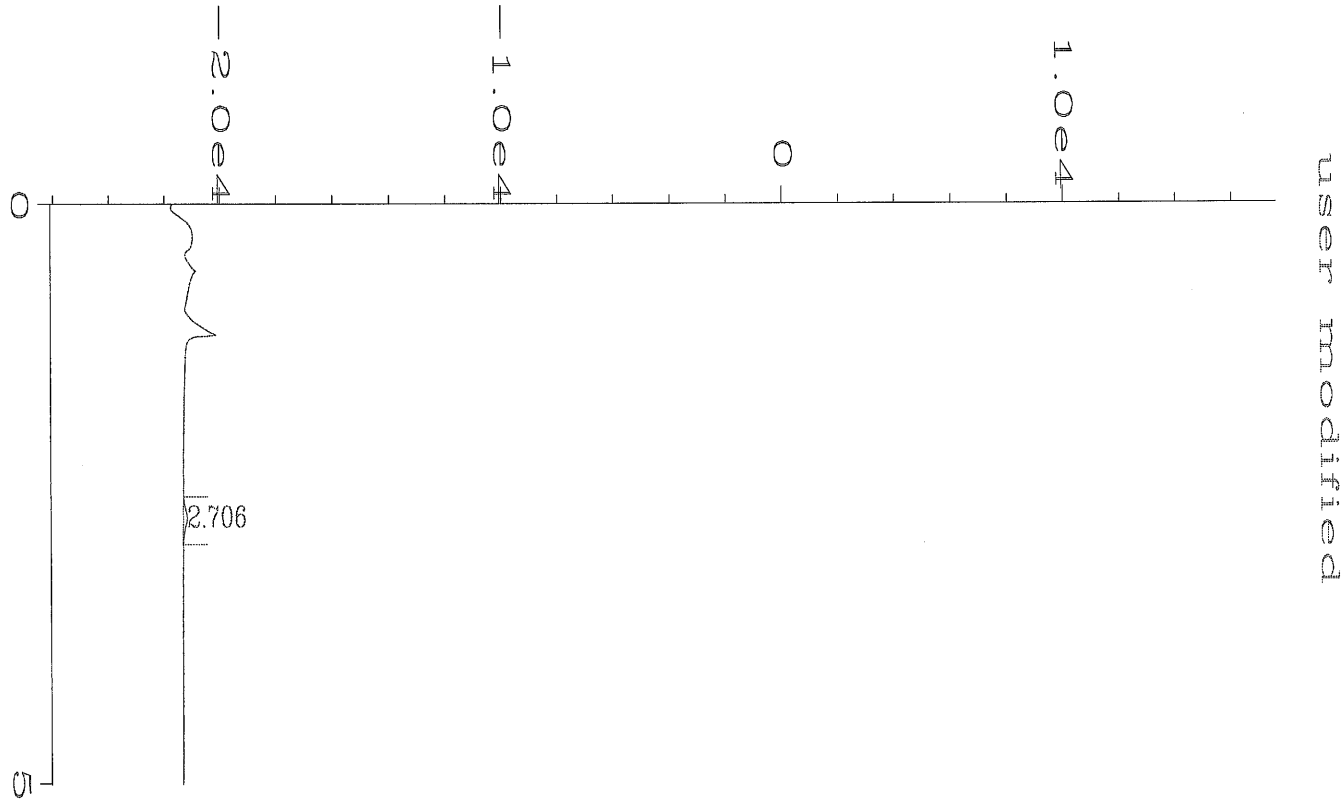
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCL\03245GCL\2510031A.D
Operator : LR
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-213
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 05:24 PM
Instrument Method: 3416CH4.MTH
Report Created on: 26 Mar 25 12:17 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCL\03245GCL\2510031A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.706	1598	141	MM	0.189	100.0000

Total area = 1598

User Modified

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **32**

Client ID T-214

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 32

File Name: 2510032A
Description: T-214
Can/Tube#: 610
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 12:57
Date Analyzed: 03/24/25 **Time:** 17:30
Dilution Factor: 1.11

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.56	1.67	ND	0.36	1.09	ND	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**32**				
File Name:	**2510032A**	A		**SF:**	**2**
Description:	**T-214**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/20/25**	**Time:**	**12:57**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**17:30**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**610**				
Can Factor	**1.11**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**1598**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510032A
QCBatch 032425-GCL
Can Factor 1.11
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.11
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** => L9 = Daily Calibration
RL Factor: **3** L10 = Curve

RF: 6115
RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	Lab Qual
Methane	16.00	0.30	ND	ND	0		0.50	0.56	1.67	0.56	1.67	0.36	1.09	**U**

EPA Qual	Det Qual	Rpt
	ND	Y

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 32

Client: C.E. Schmidt
Client ID: T-214
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 610
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:57
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	786		
Final:	875		
Factor:	1.11		

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions

Sample Type:

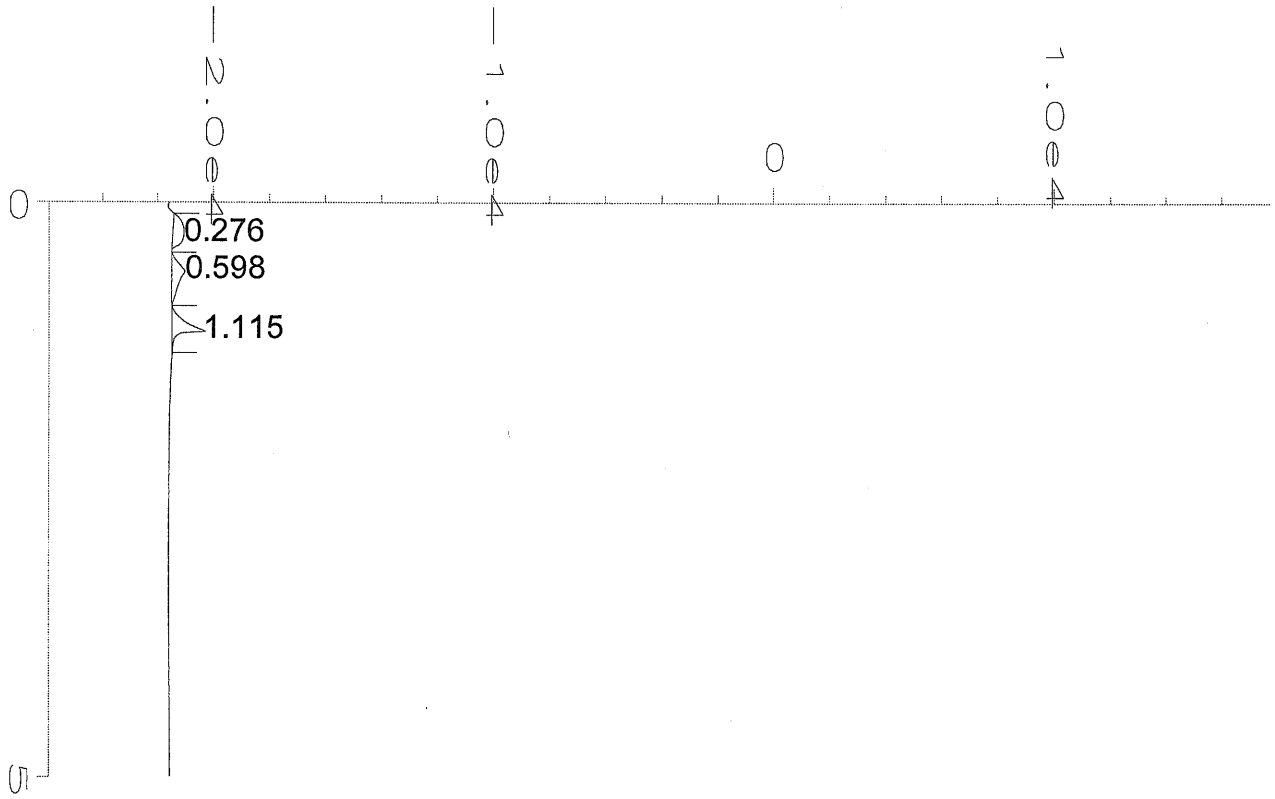
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions | EAS QC Criteria

Report Types: PDF Only

EDD Instructions EDD Type:



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510032A.D
Operator : LR
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-214
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 05:30 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 05:35 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510032A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.276	5454	417	BV	0.175	29.7641
2	0.598	5958	499	PV	0.151	32.5164
3	1.115	6911	1157	VB	0.077	37.7195

Total area = 18323

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **33**

Client ID T-215

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 33

File Name: 2510033A
Description: T-215
Can/Tube#: 751
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 12:44
Date Analyzed: 03/24/25 **Time:** 17:37
Dilution Factor: 1.29

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.65	1.94	2.70	0.42	1.27	1.77	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**33**				
File Name:	**2510033A**	A		**SF:**	**2**
Description:	**T-215**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/20/25**	**Time:**	**12:44**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**17:37**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**751**				
Can Factor	**1.29**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**12221**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510033A
QCBatch 032425-GCL
Can Factor 1.29
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.29
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** => L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	2.70	2.70	1.77	1.77	1.77	0.50	0.65	1.94	0.65	1.94	0.42	1.27	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 33

Client: C.E. Schmidt
Client ID: T-215
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 751
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:44
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	677		
Final:	874		
Factor:	1.29		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

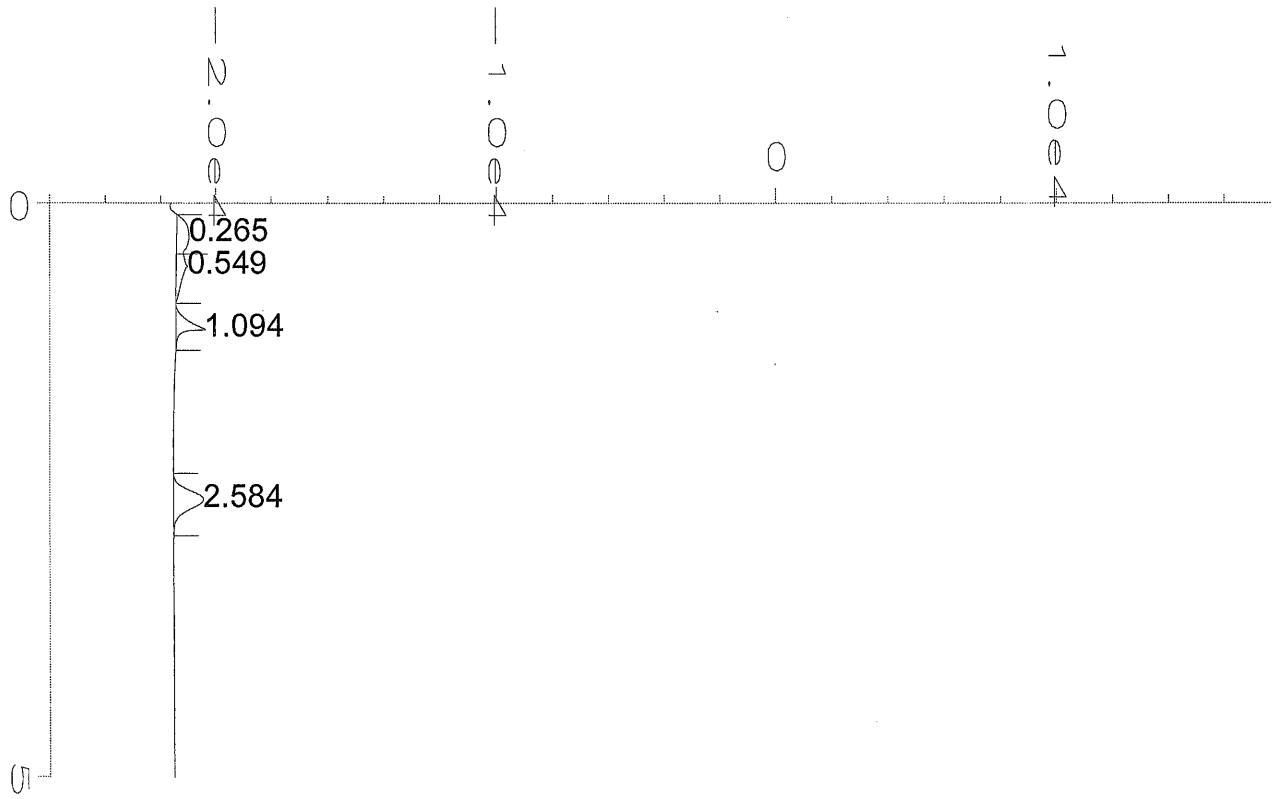
InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510033A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-215
Run Time Bar Code:
Acquired on : 24 Mar 25 05:37 PM
Report Created on: 24 Mar 25 05:42 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510033A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.265	6838	437	BV	0.204	22.3796
2	0.549	5399	414	VV	0.161	17.6697
3	1.094	6096	1046	PB	0.075	19.9527
4	2.584	12221	1072	BB	0.177	39.9980

Total area = 30553

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Sample Data Packages

SDG Number **225100**

Lab Id Number **34**

Client ID T-216

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 34

File Name:	2510034A	**Date Sampled:**	03/20/25	**Time:**	12:46
Description:	T-216	**Date Analyzed:**	03/24/25	**Time:**	17:46
Can/Tube#:	896	**Dilution Factor:**	1.38		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.69	2.07	ND	0.45	1.36	ND	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**34**				
File Name:	**2510034A**	A		**SF:**	**2**
Description:	**T-216**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/20/25**	**Time:**	**12:46**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**17:46**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**896**				
Can Factor	**1.38**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**2393**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510034A
QCBatch 032425-GCL
Can Factor 1.38
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.38
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** **=>** L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	0.57	ND	ND	0		0.50	0.69	2.07	0.69	2.07	0.45	1.36	**U**

EPA Qual	Det Qual	Rpt
	ND	Y

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 34

Client: C.E. Schmidt
Client ID: T-216
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 896
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:46
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	632		
Final:	874		
Factor:	1.38		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

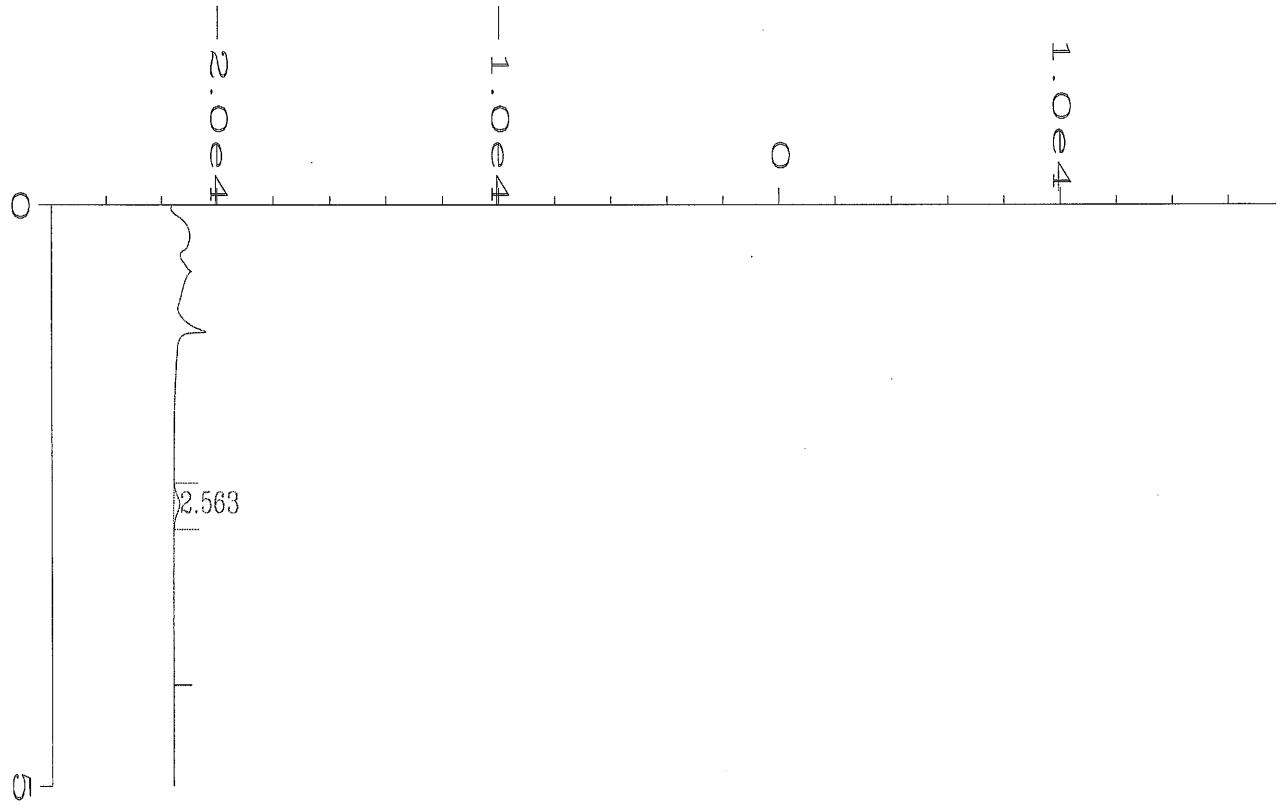
InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCL\03245GCL\2510034A.D
Operator : LR
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-216
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 05:46 PM
Instrument Method: 3416CH4.MTH
Report Created on: 26 Mar 25 12:21 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCL\03245GCL\2510034A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.563	2393	217	MM	0.184	100.0000

Total area = 2393

User Modified

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **35**

Client ID T-217

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 35

File Name:	2510035A	**Date Sampled:**	03/20/25	**Time:**	12:48
Description:	T-217	**Date Analyzed:**	03/24/25	**Time:**	17:53
Can/Tube#:	634	**Dilution Factor:**	1.27		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.64	1.91	4.41	0.42	1.25	2.89	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**35**				
File Name:	**2510035A**	A		**SF:**	**2**
Description:	**T-217**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/20/25**	**Time:**	**12:48**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**17:53**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**634**				
Can Factor	**1.27**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**20295**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510035A
QCBatch 032425-GCL
Can Factor 1.27
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.27
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** **=>** L9 = Daily Calibration
RL Factor: **3** L10 = Curve

RF: 6115
RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	4.41	4.41	2.89	2.89	2.89	0.50	0.64	1.91	0.64	1.91	0.42	1.25	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 35

Client: C.E. Schmidt
Client ID: T-217
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 634
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:48
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	693		
Final:	881		
Factor:	1.27		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

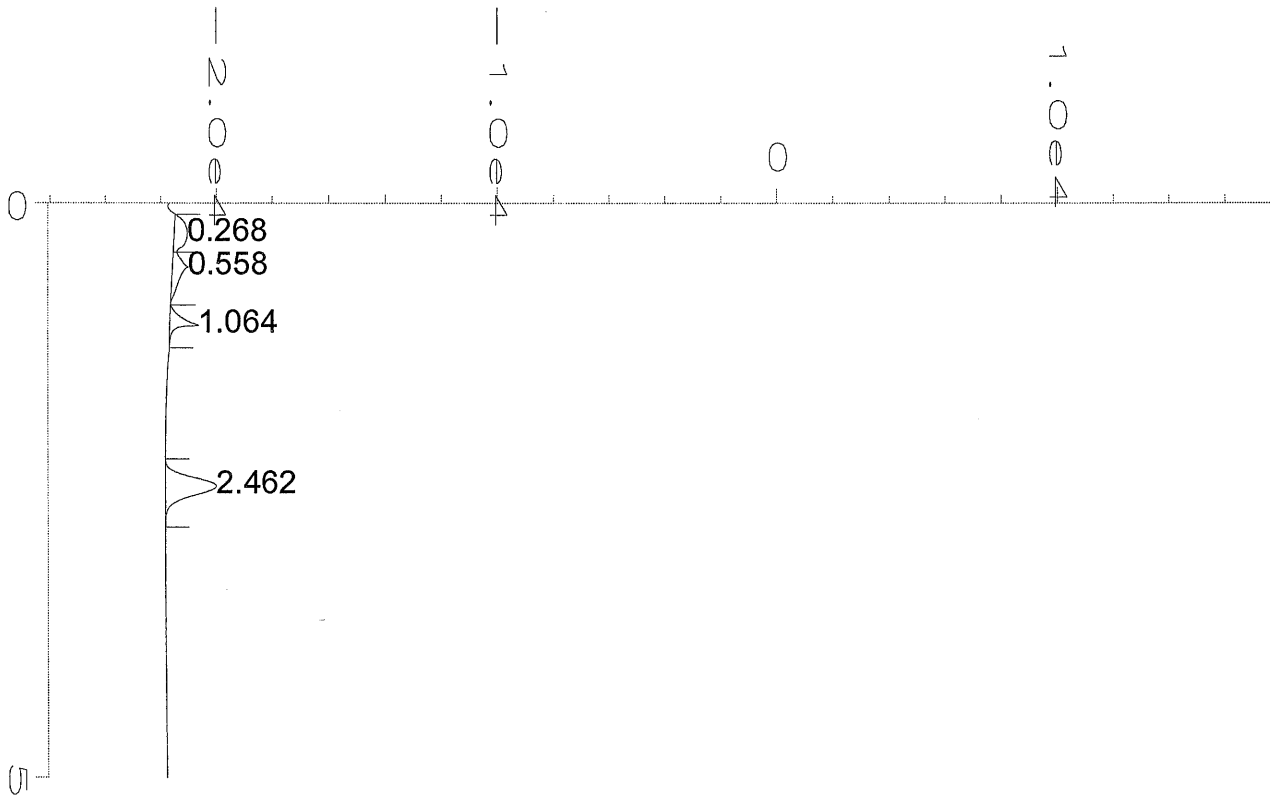
InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510035A.D
Operator : LR
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-217
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 05:53 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 05:58 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510035A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.268	6914	487	BV	0.177	17.7370
2	0.558	6538	602	VV	0.132	16.7728
3	1.064	5235	1015	PB	0.065	13.4284
4	2.462	20295	1839	BB	0.153	52.0618

Total area = 38982

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **36**

Client ID T-218

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 36

File Name: 2510036A
Description: T-218
Can/Tube#: 698
QC_Batch: 032425-GCL

Date Sampled: 03/20/25 **Time:** 12:42
Date Analyzed: 03/24/25 **Time:** 18:09
Dilution Factor: 1.27

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.63	1.90	9,479.95	0.42	1.25	6,216.36	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**36**				
File Name:	**2510036A**	A		**SF:**	**2**
Description:	**T-218**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/20/25**	**Time:**	**12:42**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**18:09**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**698**				
Can Factor	**1.27**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**43778100**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510036A
QCBatch 032425-GCL
Can Factor 1.27
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.27
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** => L9 = Daily Calibration
RL Factor: **3** L10 = Curve

RF: 6115
RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	9479.95	9,479.95	6,216.36	6,216.36	6,216.36	0.50	0.63	1.90	0.63	1.90	0.42	1.25	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 36

Client: C.E. Schmidt
Client ID: T-218
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 698
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:42
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	692			
Final:	877			
Factor:	1.27			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions

Sample Type:

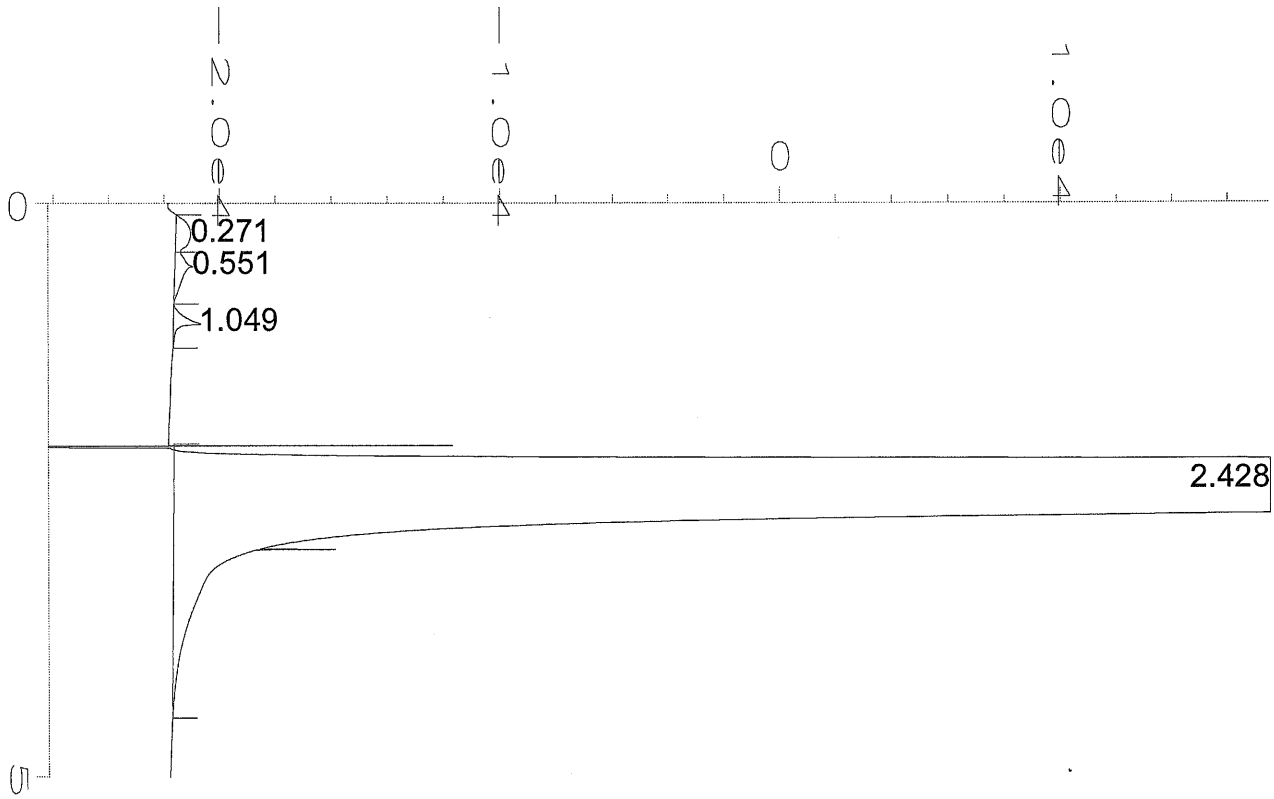
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510036A.D
Operator : LR
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-218
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 06:09 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 06:14 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510036A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.271	7543	535	BV	0.183	0.0172
2	0.551	6934	638	VV	0.136	0.0158
3	1.049	4973	967	PB	0.066	0.0114
4	2.428	4.37781E+007	3936539	BB	0.174	99.9556

Total area = 4.37975E+007

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **37**

Client ID T-301

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

SDG: 225100
Modified Analytical Method: ASTM D3416
Laboratory Number: 37

File Name:	2510037A	**Date Sampled:**	03/21/25	**Time:**	7:58
Description:	T-301	**Date Analyzed:**	03/24/25	**Time:**	18:23
Can/Tube#:	638	**Dilution Factor:**	1.19		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.59	1.78	1.40	0.39	1.17	0.92	J

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**37**				
File Name:	**2510037A**	A		**SF:**	**2**
Description:	**T-301**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/21/25**	**Time:**	**7:58**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**18:23**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**638**				
Can Factor	**1.19**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**6876**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510037A
QCBatch 032425-GCL
Can Factor 1.19
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.19
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** => L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	1.40	1.40	0.92	0.92	0.92	0.50	0.59	1.78	0.59	1.78	0.39	1.17	**J**

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 37

Client: C.E. Schmidt
Client ID: T-301
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 638
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 7:58
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	734		
Final:	872		
Factor:	1.19		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

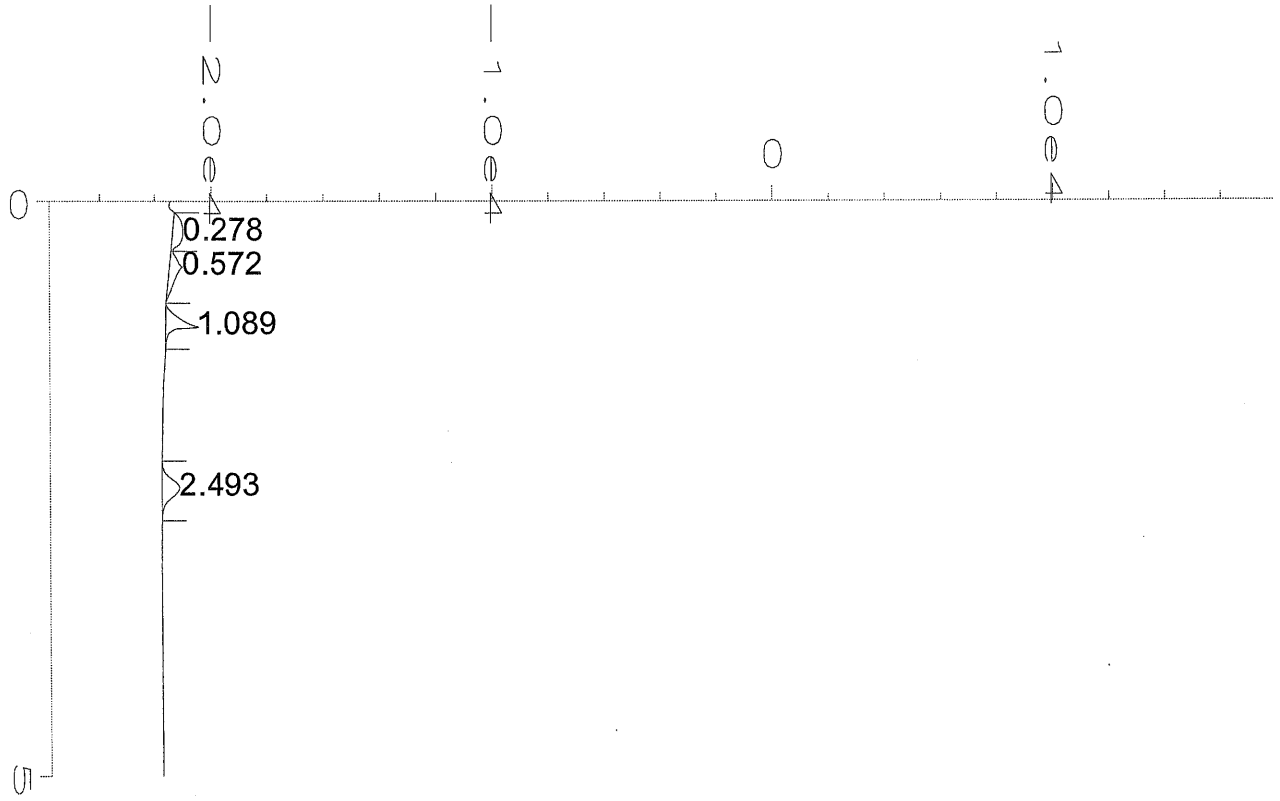
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510037A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-302
Run Time Bar Code:
Acquired on : 24 Mar 25 06:23 PM
Report Created on: 24 Mar 25 06:28 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510037A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.278	5262	376	BV	0.189	21.8974
2	0.572	5407	471	VV	0.143	22.5004
3	1.089	6485	1144	PB	0.073	26.9888
4	2.493	6876	618	BB	0.168	28.6135

Total area = 24029

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CORRECTED SAMPLE LABELLING ERROR

DA 3/26/25

Sample Data Packages

SDG Number **225100**

Lab Id Number **38**

Client ID T-302

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

SDG: 225100
Modified Analytical Method: ASTM D3416 **Laboratory Number:** 38

File Name:	2510038A	**Date Sampled:**	03/21/25	**Time:**	8:04
Description:	T-302	**Date Analyzed:**	03/24/25	**Time:**	18:16
Can/Tube#:	857	**Dilution Factor:**	1.19		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.60	1.79	5.00	0.39	1.17	3.28	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**38**				
File Name:	**2510038A**	A		**SF:**	**2**
Description:	**T-302**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/21/25**	**Time:**	**8:04**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**18:16**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**857**				
Can Factor	**1.19**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**24588**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510038A
QCBatch 032425-GCL
Can Factor 1.19
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.19
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** **=>** L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	5.00	5.00	3.28	3.28	3.28	0.50	0.60	1.79	0.60	1.79	0.39	1.17	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due: | Expires: 4/20/2025 | 225100 | 38

Client: C.E. Schmidt
Client ID: T-302
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 857
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 8:04
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	738		
Final:	879		
Factor:	1.19		

LABORATORY

Analytical Test:

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

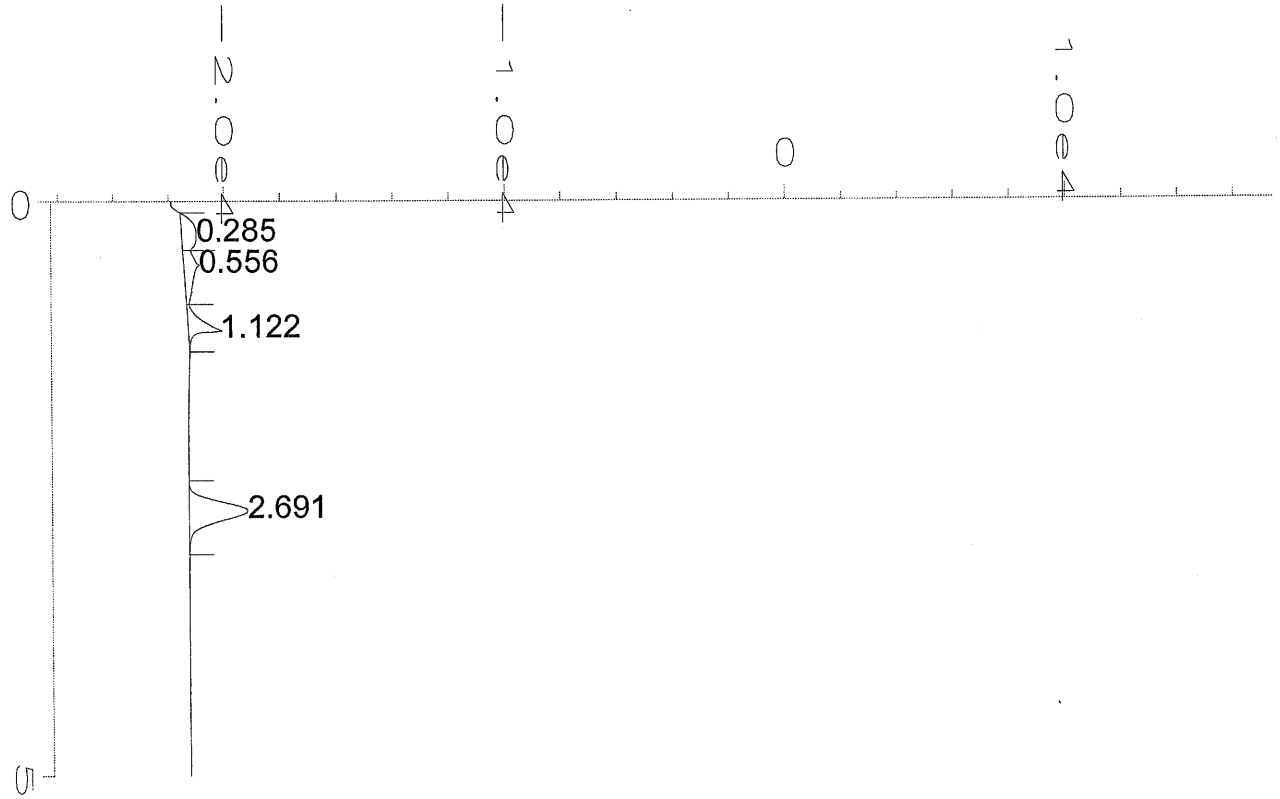
Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions | EAS QC Criteria
Report Types: PDF Only
EDD Instructions EDD Type:



==========

Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\251003~~7~~8A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-30~~1~~2
Run Time Bar Code:
Acquired on : 24 Mar 25 06:16 PM
Report Created on: 24 Mar 25 06:21 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\251003~~7~~8A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.285	8318	550	BV	0.200	16.6331
2	0.556	8727	587	VV	0.188	17.4521
3	1.122	8374	1202	VB	0.089	16.7460
4	2.691	24588	2101	BB	0.183	49.1687

Total area = 50007

==========

CORRECTED SAMPLE LABELLING ERROR
-JA 7/22/26

Sample Data Packages

SDG Number **225100**

Lab Id Number **39**

Client ID T-303

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 39

File Name: 2510039A
Description: T-303
Can/Tube#: 552
QC_Batch: 032425-GCL

Date Sampled: 03/21/25 **Time:** 8:05
Date Analyzed: 03/24/25 **Time:** 18:39
Dilution Factor: 1.19

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.59	1.78	12.76	0.39	1.17	8.37	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**39**				
File Name:	**2510039A**	A		**SF:**	**2**
Description:	**T-303**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/21/25**	**Time:**	**8:05**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**18:39**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**552**				
Can Factor	**1.19**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**62785**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510039A
QCBatch 032425-GCL
Can Factor 1.19
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.19
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** => L9 = Daily Calibration
RL Factor: **3** L10 = Curve

RF: 6115
RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	12.76	12.76	8.37	8.37	8.37	0.50	0.59	1.78	0.59	1.78	0.39	1.17	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 | 39

Client: C.E. Schmidt
Client ID: T-303
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 552
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 8:05
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	738		
Final:	878		
Factor:	1.19		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

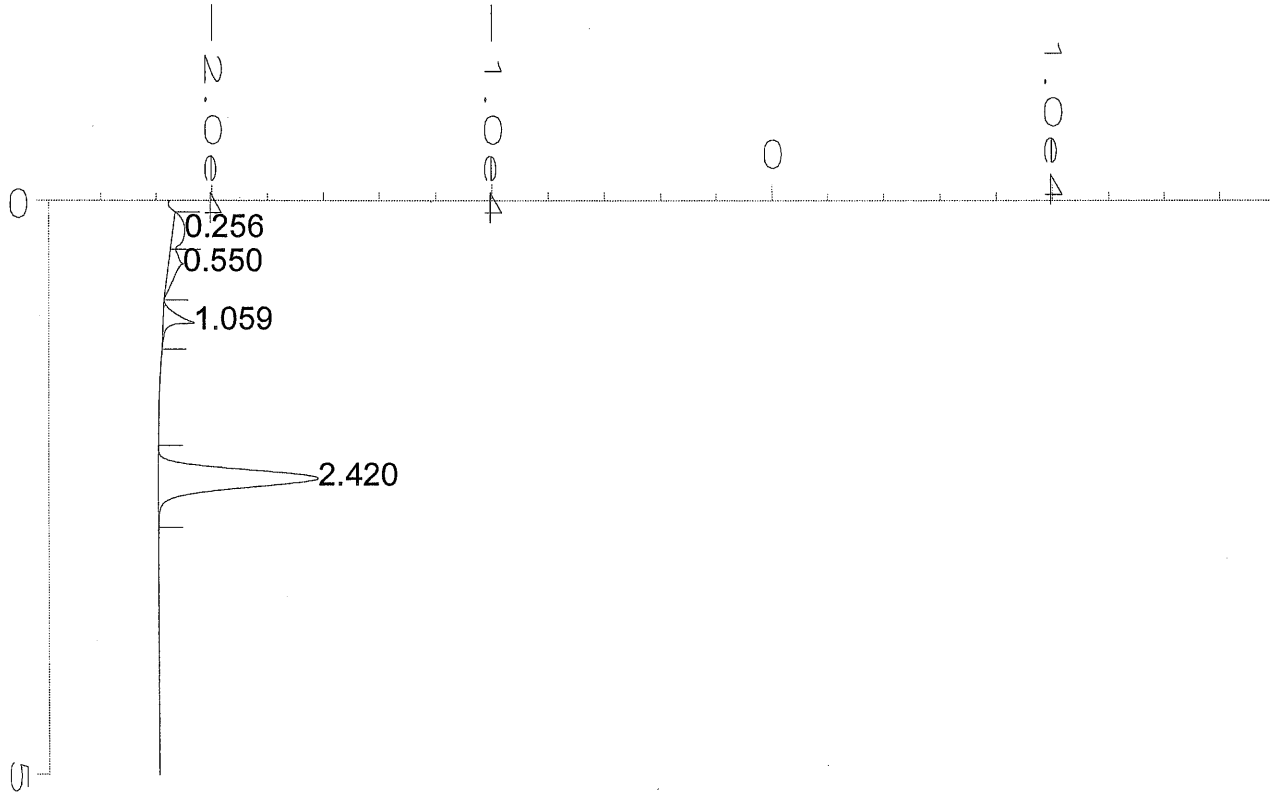
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510039A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-303
Run Time Bar Code:
Acquired on : 24 Mar 25 06:39 PM
Report Created on: 24 Mar 25 06:44 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510039A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.256	6381	435	BV	0.191	7.7882
2	0.550	6484	535	VV	0.153	7.9136
3	1.059	6283	1103	PB	0.073	7.6687
4	2.420	62785	5727	BB	0.170	76.6295

Total area = 81933

==========

CORRECTED SAMPLE LABELLING ERROR
-Ra 3/26/25

Sample Data Packages

SDG Number **225100**

Lab Id Number **40**

Client ID T-304

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 40

File Name: 2510040A
Description: T-304
Can/Tube#: 529
QC_Batch: 032425-GCL

Date Sampled: 03/21/25 **Time:** 7:58
Date Analyzed: 03/24/25 **Time:** 18:32
Dilution Factor: 1.21

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.60	1.81	1,304.26	0.40	1.19	855.26	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**40**				
File Name:	**2510040A**	A		**SF:**	**2**
Description:	**T-304**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/21/25**	**Time:**	**7:58**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**18:32**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**529**				
Can Factor	**1.21**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**6327688**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510040A
QCBatch 032425-GCL
Can Factor 1.21
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.21
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**
Calibration: **L10** **=>** L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	1304.26	1,304.26	855.26	855.26	855.26	0.50	0.60	1.81	0.60	1.81	0.40	1.19	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due: | Expires: 4/20/2025 | 225100 | 40

Client: C.E. Schmidt
Client ID: T-304
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 529
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 7:58
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	727		
Final:	877		
Factor:	1.21		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

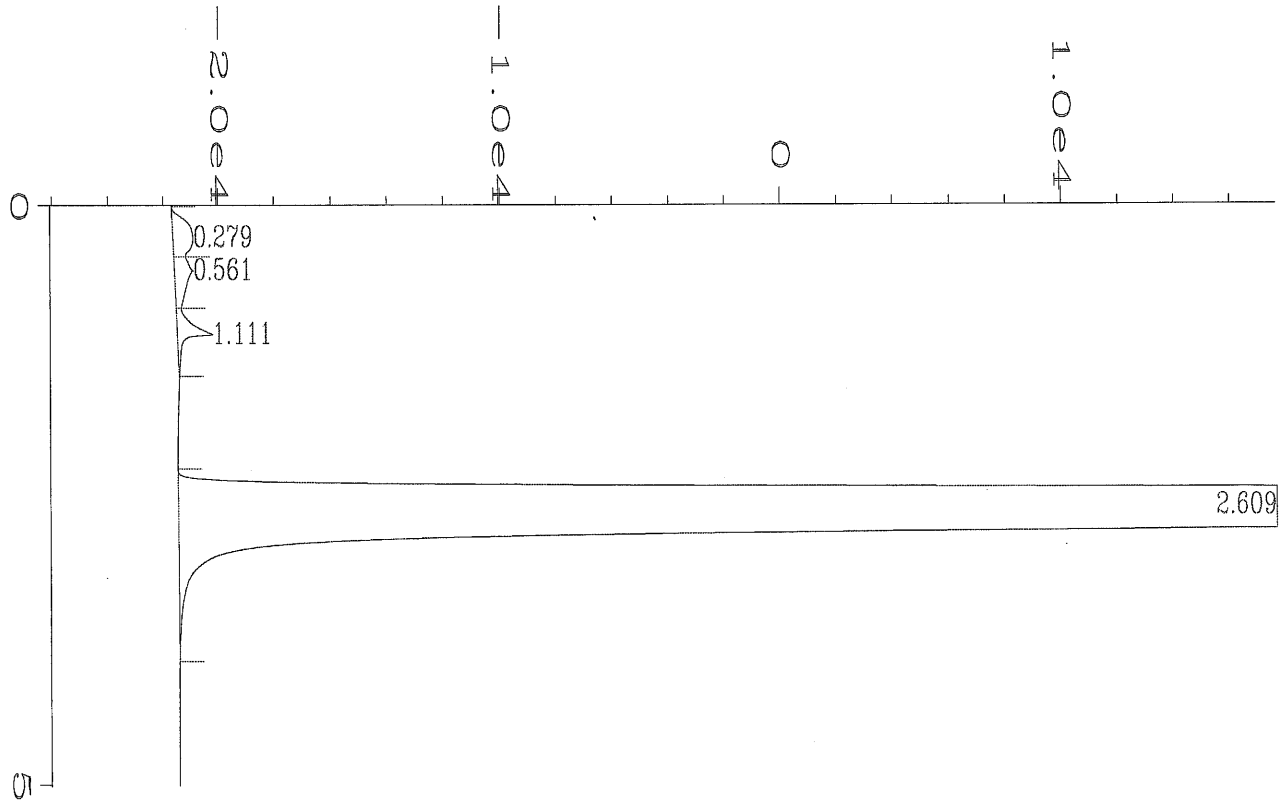
InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCL\03245GCL\2510039A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-304
Run Time Bar Code:
Acquired on : 24 Mar 25 06:32 PM
Report Created on: 26 Mar 25 12:40 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCL\03245GCL\2510039A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.279	13443	745	BV	0.224	0.2113
2	0.561	11542	695	VV	0.200	0.1814
3	1.111	10730	1289	VB	0.103	0.1686
4	2.609	6327688	547075	BB	0.180	99.4387

Total area = 6363403

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CORRECTED SAMPLE LABELLING ERROR
-RA 3/26/25

Sample Data Packages

SDG Number **225100**

Lab Id Number **41**

Client ID T-305

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 41

File Name:	2510041A	**Date Sampled:**	03/21/25	**Time:**	9:22
Description:	T-305	**Date Analyzed:**	03/24/25	**Time:**	19:04
Can/Tube#:	660	**Dilution Factor:**	1.23		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.61	1.84	1,680.23	0.40	1.21	1,101.79	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**41**				
File Name:	**2510041A**	A		**SF:**	**2**
Description:	**T-305**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/21/25**	**Time:**	**9:22**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**19:04**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**660**				
Can Factor	**1.23**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**8004649**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510041A
QCBatch 032425-GCL
Can Factor 1.23
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.23
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** => L9 = Daily Calibration
RL Factor: **3** L10 = Curve

RF: 6115
RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	1680.23	1,680.23	1,101.79	1,101.79	1,101.79	0.50	0.61	1.84	0.61	1.84	0.40	1.21	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 41

Client: C.E. Schmidt
Client ID: T-305
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 660
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Date:
Initial : 709
Final: 871
Factor: 1.23

Sampled: 3/21/2025 Time: 9:22
Received: 3/21/2025 Time: 14:30

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

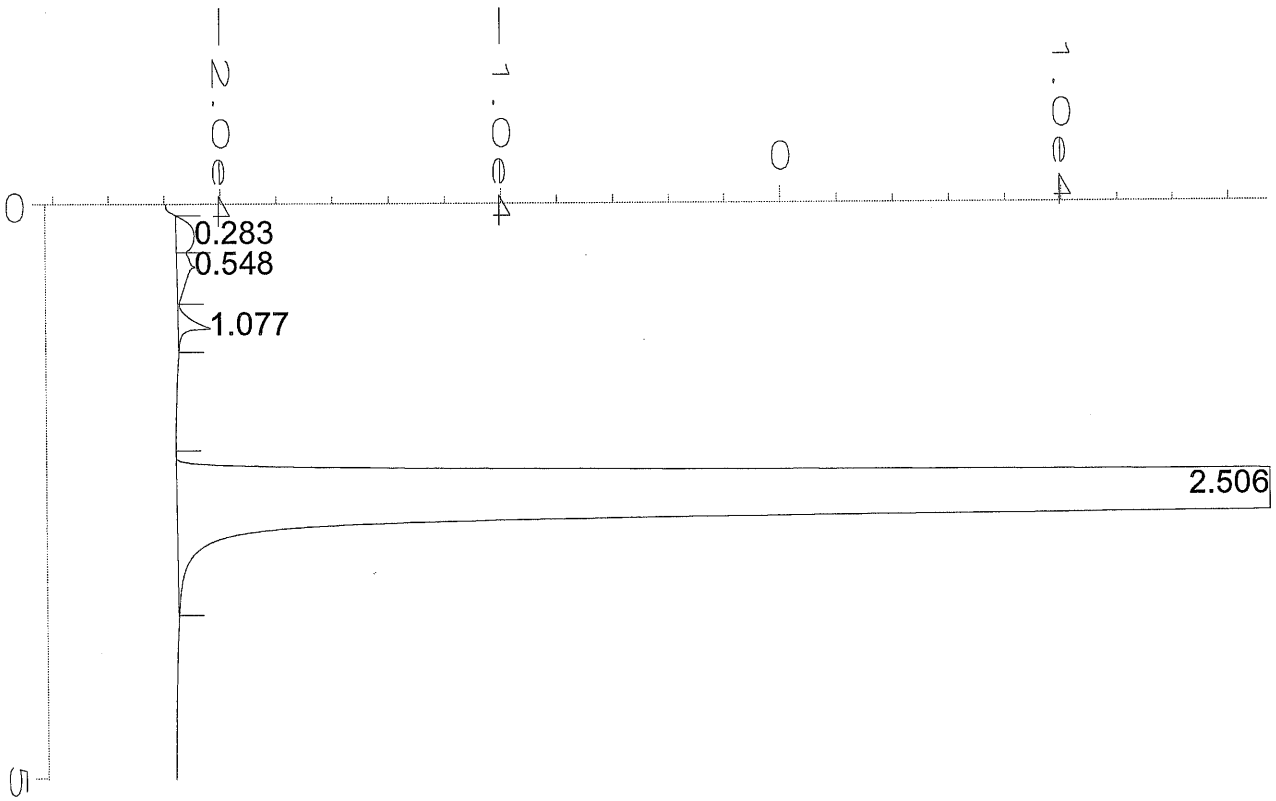
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510041A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-305
Run Time Bar Code:
Acquired on : 24 Mar 25 07:04 PM
Report Created on: 24 Mar 25 07:09 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510041A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.283	9501	644	BV	0.194	0.1183
2	0.548	8636	662	VV	0.166	0.1075
3	1.077	6830	1119	VB	0.078	0.0851
4	2.506	8004649	710848	BB	0.175	99.6891

Total area = 8029616

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Sample Data Packages

SDG Number 225100

Lab Id Number 42

Client ID T-306

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 42

File Name: 2510042A
Description: T-306
Can/Tube#: 859
QC_Batch: 032425-GCL

Date Sampled: 03/21/25 **Time:** 9:13
Date Analyzed: 03/24/25 **Time:** 19:31
Dilution Factor: 1.21

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.61	1.82	5.73	0.40	1.19	3.76	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**42**				
File Name:	**2510042A**	A		**SF:**	**2**
Description:	**T-306**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/21/25**	**Time:**	**9:13**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**19:31**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**859**				
Can Factor	**1.21**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**27706**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510042A
QCBatch 032425-GCL
Can Factor 1.21
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.21
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** => L9 = Daily Calibration
RL Factor: **3** L10 = Curve

RF: 6115
RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	5.73	5.73	3.76	3.76	3.76	0.50	0.61	1.82	0.61	1.82	0.40	1.19	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 42

Client: C.E. Schmidt
Client ID: T-306
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 859
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Date:
Initial : 722
Final: 874
Factor: 1.21

Sampled: 3/21/2025 Time: 9:13
Received: 3/21/2025 Time: 14:30

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

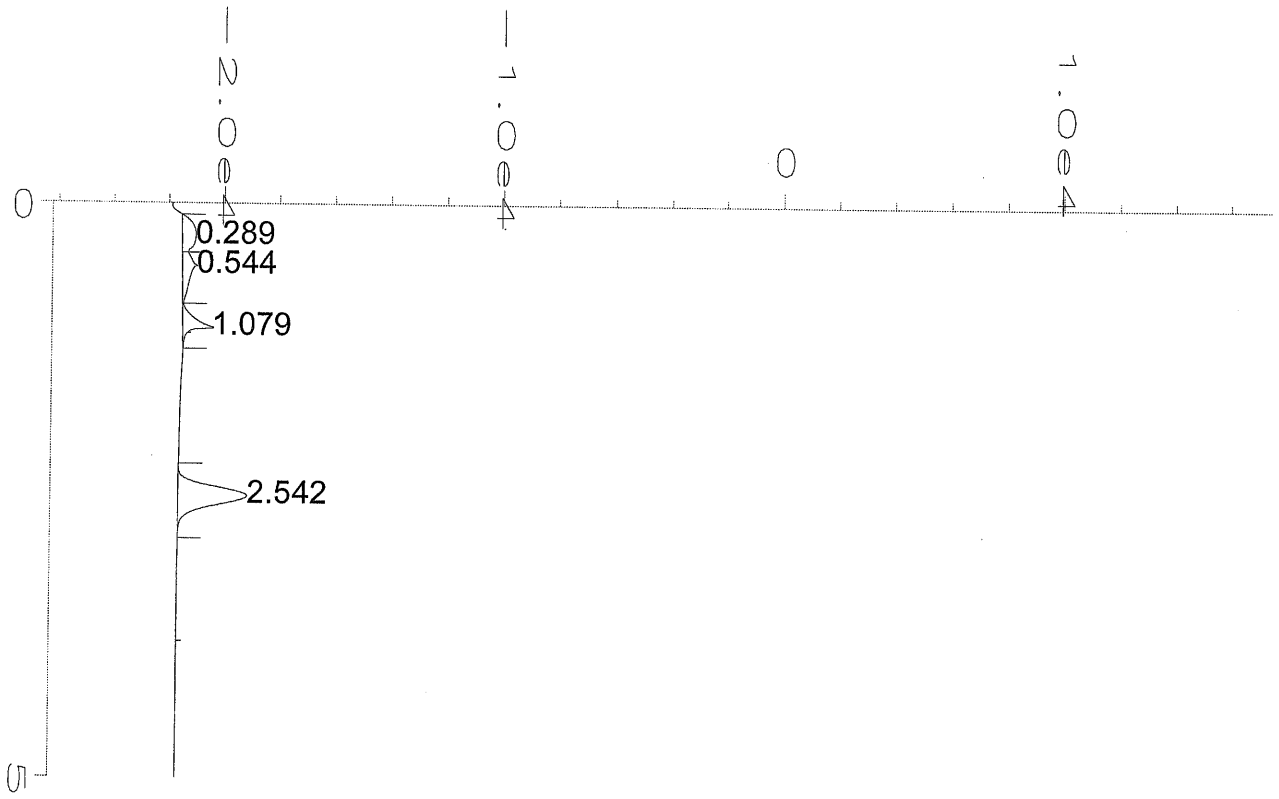
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510042A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-306
Run Time Bar Code:
Acquired on : 24 Mar 25 07:31 PM
Report Created on: 24 Mar 25 07:36 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510042A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.289	7667	521	BV	0.189	15.6729
2	0.544	6866	563	VV	0.153	14.0359
3	1.079	6680	1112	VB	0.077	13.6544
4	2.542	27706	2488	BB	0.173	56.6368

Total area = 48919

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **43**

Client ID T-307

Analytical Method ASTM D3416

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Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 43

File Name:	2510043A	**Date Sampled:**	03/21/25	**Time:**	9:10
Description:	T-307	**Date Analyzed:**	03/24/25	**Time:**	19:49
Can/Tube#:	636	**Dilution Factor:**	1.22		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.61	1.83	3.16	0.40	1.20	2.07	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**43**				
File Name:	**2510043A**	A		**SF:**	**2**
Description:	**T-307**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/21/25**	**Time:**	**9:10**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**19:49**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**636**				
Can Factor	**1.22**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**15175**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510043A
QCBatch 032425-GCL
Can Factor 1.22
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.22
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** => L9 = Daily Calibration
RL Factor: **3** L10 = Curve

RF: 6115
RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	3.16	3.16	2.07	2.07	2.07	0.50	0.61	1.83	0.61	1.83	0.40	1.20	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 43

Client: C.E. Schmidt
Client ID: T-307
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 636
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Initial : 720
Final: 878
Factor: 1.22

Sampled: 3/21/2025 Time: 9:10
Received: 3/21/2025 Time: 14:30

Date:

LABORATORY

Analytical Test:

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

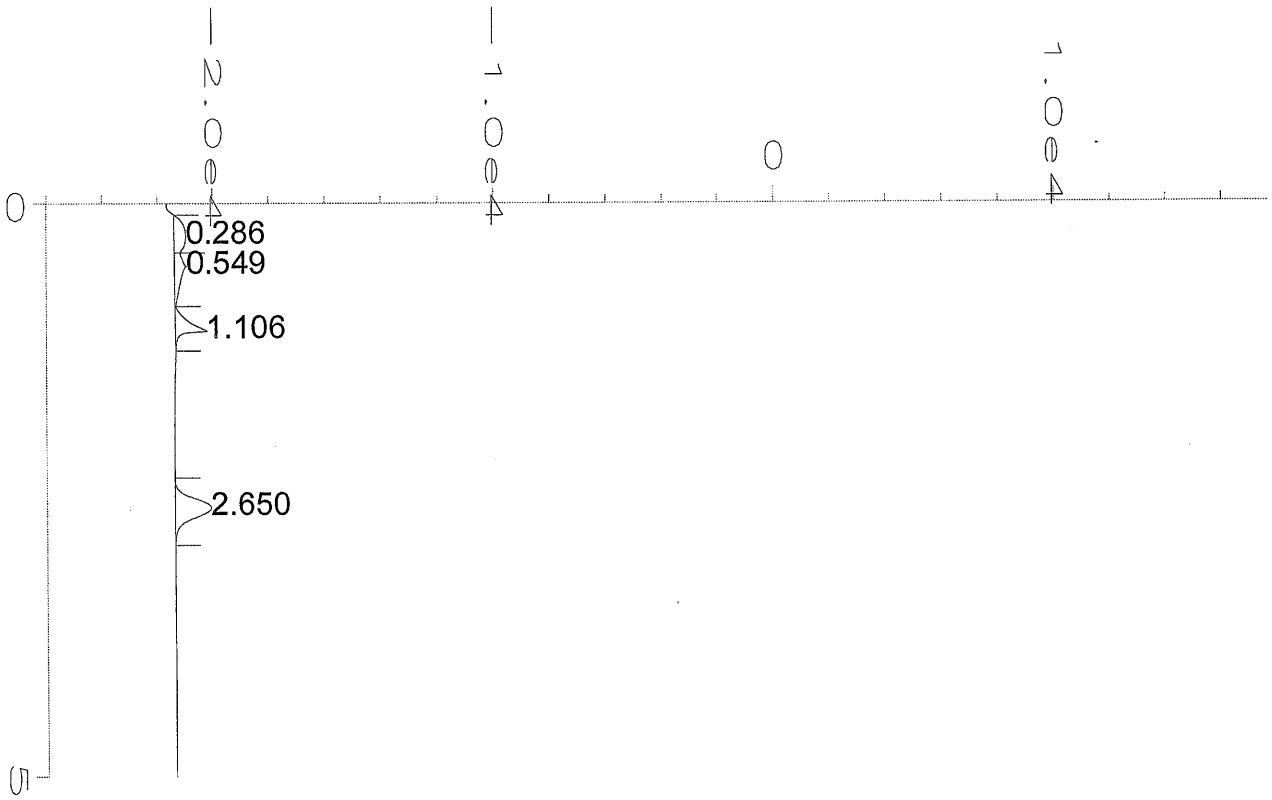
Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions: EAS QC Criteria
Report Types: PDF Only
EDD Instructions EDD Type:



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510043A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-307
Run Time Bar Code:
Acquired on : 24 Mar 25 07:49 PM
Report Created on: 24 Mar 25 07:55 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510043A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.286	6546	437	BV	0.205	18.7910
2	0.549	6007	450	VV	0.165	17.2439
3	1.106	7107	1130	VB	0.081	20.4025
4	2.650	15175	1317	BB	0.179	43.5626

Total area = 34834

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **44**

Client ID T-308

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

SDG: 225100
Modified Analytical Method: ASTM D3416
Laboratory Number: 44

File Name:	2510044A	**Date Sampled:**	03/21/25	**Time:**	9:18
Description:	T-308	**Date Analyzed:**	03/24/25	**Time:**	19:56
Can/Tube#:	661	**Dilution Factor:**	1.22		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.61	1.83	206.68	0.40	1.20	135.53	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**44**				
File Name:	**2510044A**	A		**SF:**	**2**
Description:	**T-308**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/21/25**	**Time:**	**9:18**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**19:56**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**661**				
Can Factor	**1.22**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**991191**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510044A
QCBatch 032425-GCL
Can Factor 1.22
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.22
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** => L9 = Daily Calibration
RL Factor: **3** L10 = Curve

RF: 6115
RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	Lab Qual
Methane	16.00	206.68	206.68	135.53	135.53	135.53	0.50	0.61	1.83	0.61	1.83	0.40	1.20	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 | 44

Client: C.E. Schmidt
Client ID: T-308
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 661
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:18
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	717		
Final:	875		
Factor:	1.22		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

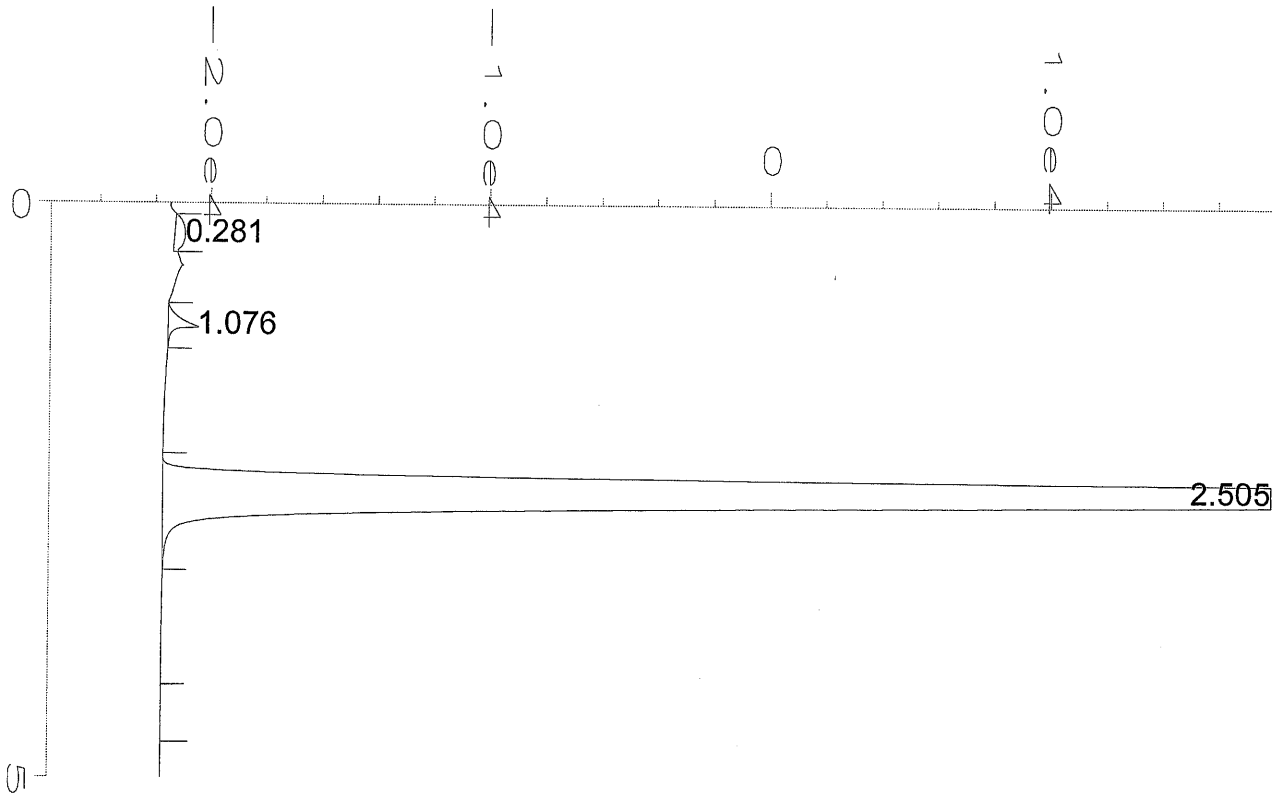
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510044A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-308
Run Time Bar Code:
Acquired on : 24 Mar 25 07:56 PM
Report Created on: 24 Mar 25 08:01 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510044A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.281	5448	376	BV	0.193	0.5433
2	1.076	6043	1068	PB	0.073	0.6027
3	2.505	991191	88885	BB	0.174	98.8539

Total area = 1002683

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **45**

Client ID T-309

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

SDG: 225100
Modified Analytical Method: ASTM D3416
Laboratory Number: 45

File Name:	2510045A	**Date Sampled:**	03/21/25	**Time:**	9:24
Description:	T-309	**Date Analyzed:**	03/24/25	**Time:**	20:05
Can/Tube#:	579	**Dilution Factor:**	1.21		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.60	1.81	134.33	0.40	1.19	88.09	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**45**				
File Name:	**2510045A**	A		**SF:**	**2**
Description:	**T-309**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/21/25**	**Time:**	**9:24**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**20:05**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**579**				
Can Factor	**1.21**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**650831**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510045A
QCBatch 032425-GCL
Can Factor 1.21
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.21
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** **=>** L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	134.33	134.33	88.09	88.09	88.09	0.50	0.60	1.81	0.60	1.81	0.40	1.19	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due: | Expires: 4/20/2025 | 225100 | 45

Client: C.E. Schmidt
Client ID: T-309
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 579
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:24
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	726		
Final:	877		
Factor:	1.21		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

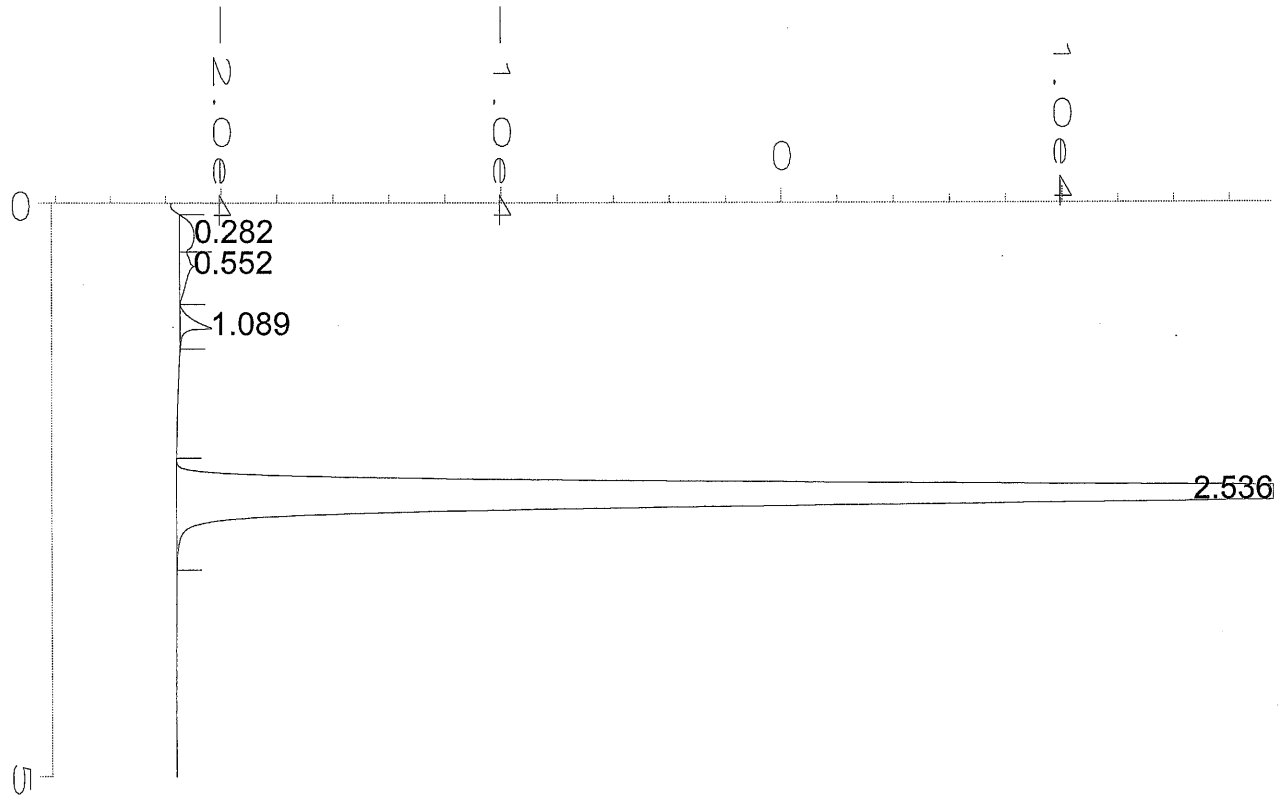
InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510045A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-309
Run Time Bar Code:
Acquired on : 24 Mar 25 08:05 PM
Report Created on: 24 Mar 25 08:10 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510045A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.282	7909	527	BV	0.193	1.1767
2	0.552	6914	541	VV	0.159	1.0287
3	1.089	6473	1112	VB	0.074	0.9630
4	2.536	650831	57536	BB	0.176	96.8316

Total area = 672127

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Sample Data Packages

SDG Number **225100**

Lab Id Number **46**

Client ID T-310

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

SDG: 225100
Modified Analytical Method: ASTM D3416 **Laboratory Number:** 46

File Name:	2510046A	**Date Sampled:**	03/21/25	**Time:**	10:48
Description:	T-310	**Date Analyzed:**	03/24/25	**Time:**	20:10
Can/Tube#:	771	**Dilution Factor:**	1.29		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.64	1.93	ND	0.42	1.27	ND	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	ASTM D3416
Lab Id:	**46**				
File Name:	**2510046A**	A		**SF:**	**2**
Description:	**T-310**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/21/25**	**Time:**	**10:48**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**20:10**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**771**				
Can Factor	**1.29**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**0**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510046A
QCBatch 032425-GCL
Can Factor 1.29
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.29
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** => L9 = Daily Calibration
RL Factor: **3** L10 = Curve

RF: 6115
RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	Lab Qual
Methane	16.00	0.00	ND	ND	0		0.50	0.64	1.93	0.64	1.93	0.42	1.27	U

EPA Qual	Det Qual	Rpt
	ND	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 46

Client: C.E. Schmidt
Client ID: T-310
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 771
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Date:
Initial : 679
Final: 874
Factor: 1.29

Sampled: 3/21/2025 Time: 10:48
Received: 3/21/2025 Time: 14:30

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

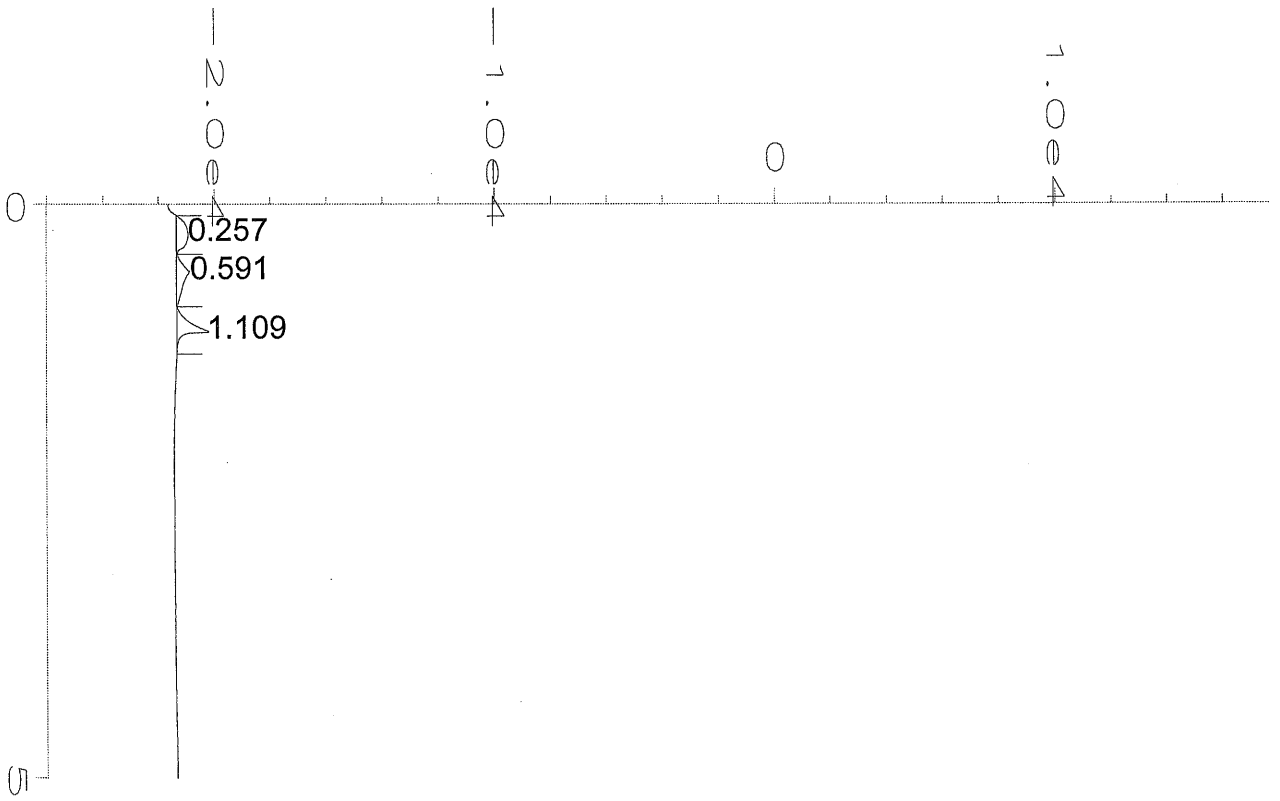
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510046A.D
Operator : LR
Instrument : ANALYZER1
Sample Name : T-310
Run Time Bar Code:
Acquired on : 24 Mar 25 08:10 PM
Report Created on: 24 Mar 25 08:16 PM
Sample Info : SCHMIDT

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: 3416CH4.MTH
Analysis Method : 3416CH4.MTH

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510046A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.257	5750	424	BV	0.179	31.6159
2	0.591	5658	472	VV	0.157	31.1126
3	1.109	6778	1126	VB	0.078	37.2715

Total area = 18186

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **47**

Client ID T-311

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 47

File Name: 2510047A
Description: T-311
Can/Tube#: 605
QC_Batch: 032425-GCL

Date Sampled: 03/21/25 **Time:** 10:35
Date Analyzed: 03/24/25 **Time:** 20:17
Dilution Factor: 1.28

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.64	1.93	15.20	0.42	1.26	9.97	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**47**				
File Name:	**2510047A**	A		**SF:**	**2**
Description:	**T-311**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/21/25**	**Time:**	**10:35**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**20:17**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**605**				
Can Factor	**1.28**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**69286**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510047A
QCBatch 032425-GCL
Can Factor 1.28
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.28
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** => L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	15.20	15.20	9.97	9.97	9.97	0.50	0.64	1.93	0.64	1.93	0.42	1.26	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due: | Expires: 4/20/2025 | 225100 | 47

Client: C.E. Schmidt
Client ID: T-311
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 605
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:35
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	680		
Final:	873		
Factor:	1.28		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

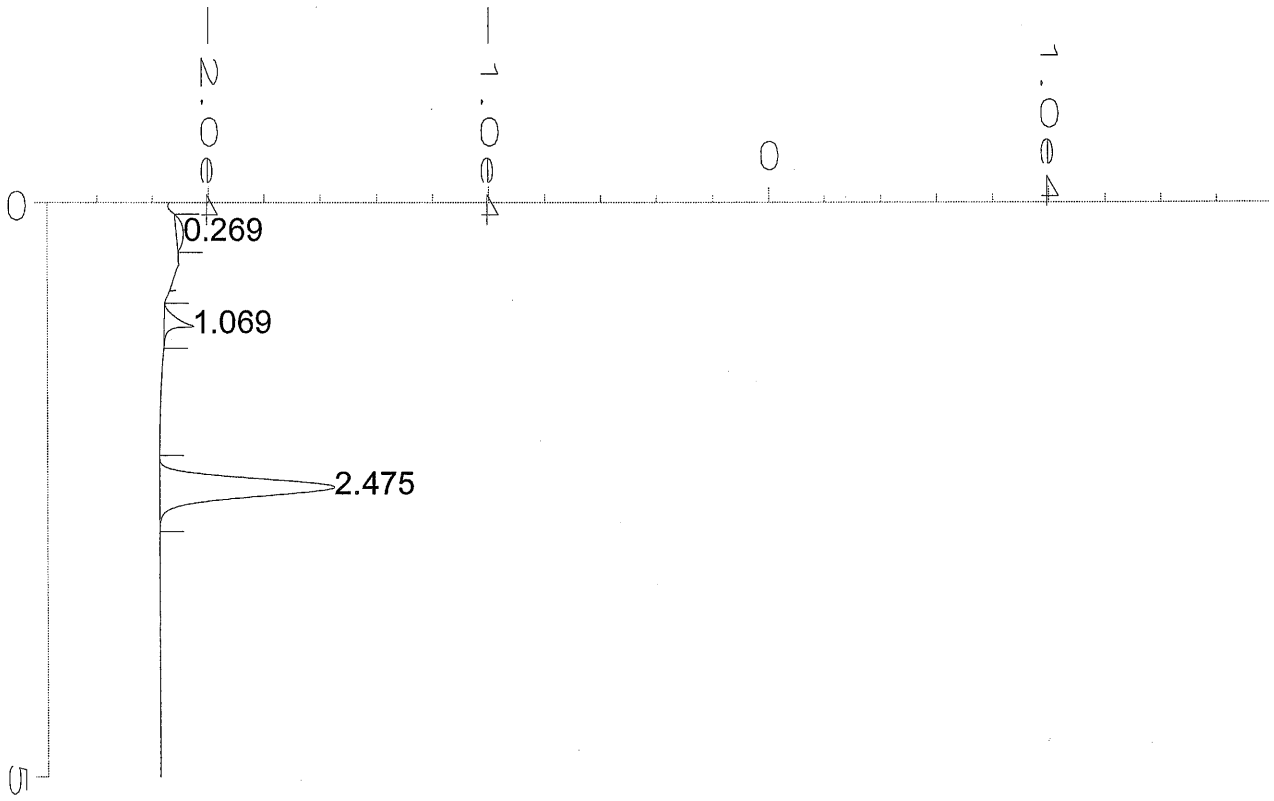
InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



==========

Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510047A.D
Operator : LR
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-311
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 08:17 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 08:22 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510047A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.269	3619	270	BB	0.175	4.5993
2	1.069	5778	1048	PB	0.071	7.3429
3	2.475	69286	6258	BB	0.171	88.0578

Total area = 78683

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **48**

Client ID T-312

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 48

File Name: 2510048A
Description: T-312
Can/Tube#: 990
QC_Batch: 032425-GCL

Date Sampled: 03/21/25 **Time:** 10:30
Date Analyzed: 03/24/25 **Time:** 20:28
Dilution Factor: 1.33

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.66	1.99	139.90	0.43	1.30	91.74	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**48**				
File Name:	**2510048A**	A		**SF:**	**2**
Description:	**T-312**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/21/25**	**Time:**	**10:30**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**20:28**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**990**				
Can Factor	**1.33**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**617892**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name:	2510048A		**SDG:**	**225100**				
QCBatch	032425-GCL							
Can Factor	1.33		**Calibration:**	**L10**	=>	L9 = Daily Calibration	RF:	6115
Volume:	5.00	ml	**RL Factor:**	**3**		L10 = Curve	RF:	5853
Base Volume	5.00	ml					CAL:	5853
Dilution Factor	1.33							
Gas Constant:	24.4							
Decimal Places:	2							

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	139.90	139.90	91.74	91.74	91.74	0.50	0.66	1.99	0.66	1.99	0.43	1.30	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due: | Expires: 4/20/2025 | 225100 | 48

Client: C.E. Schmidt
Client ID: T-312
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 990
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:30
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	689			
Final:	913			
Factor:	1.33			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

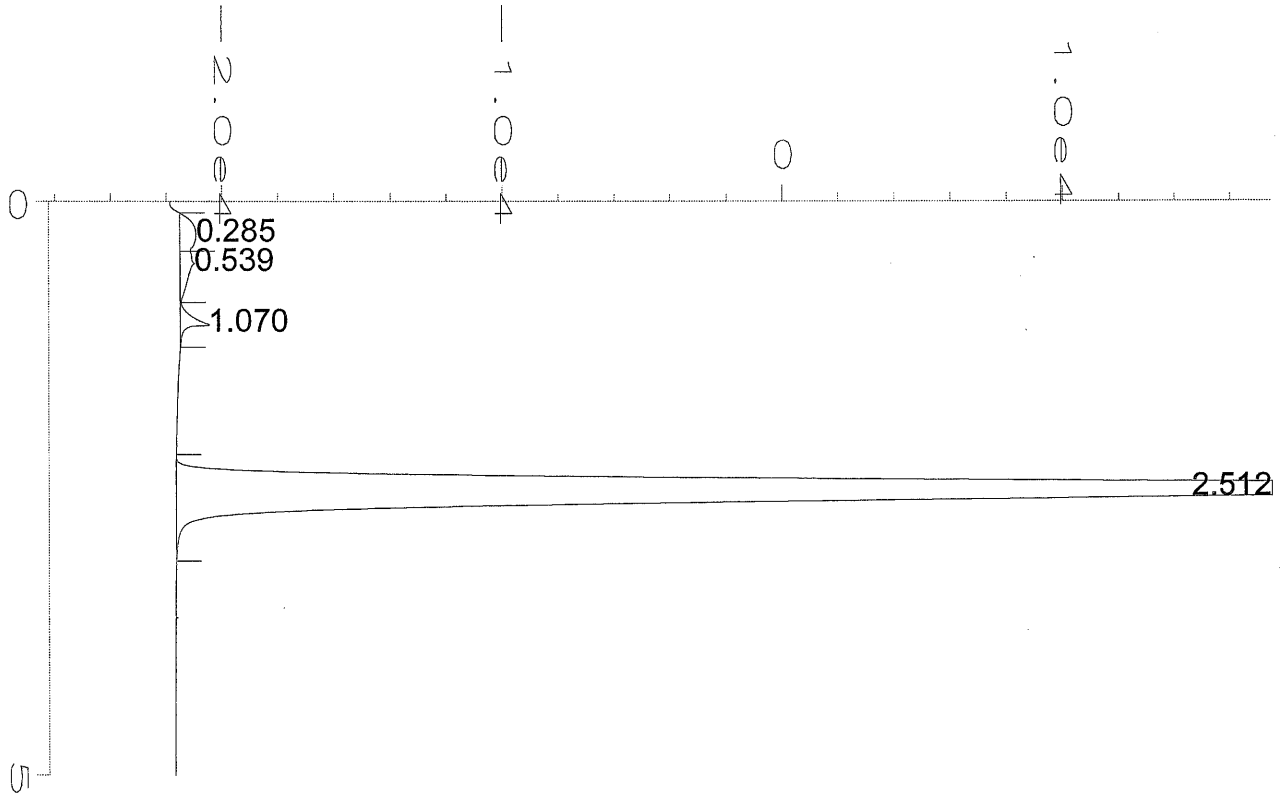
InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510048A.D
Operator : LR
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-312
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 08:28 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 08:33 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510048A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.285	9004	591	BV	0.197	1.4059
2	0.539	7733	530	VV	0.180	1.2075
3	1.070	5795	1013	VB	0.073	0.9049
4	2.512	617892	55157	BB	0.175	96.4818

Total area = 640423

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **49**

Client ID T-313

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 49

File Name: 2510049A
Description: T-313
Can/Tube#: 549
QC_Batch: 032425-GCL

Date Sampled: 03/21/25 **Time:** 10:31
Date Analyzed: 03/24/25 **Time:** 20:42
Dilution Factor: 1.25

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.63	1.88	26.52	0.41	1.23	17.39	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**49**				
File Name:	**2510049A**	A		**SF:**	**2**
Description:	**T-313**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/21/25**	**Time:**	**10:31**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**20:42**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**549**				
Can Factor	**1.25**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**123717**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510049A
QCBatch 032425-GCL
Can Factor 1.25
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.25
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**

Calibration: **L10** **=>** L9 = Daily Calibration
RL Factor: **3** L10 = Curve

RF: 6115
RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	26.52	26.52	17.39	17.39	17.39	0.50	0.63	1.88	0.63	1.88	0.41	1.23	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 49

Client: C.E. Schmidt
Client ID: T-313
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 549
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:31
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	695		
Final:	872		
Factor:	1.25		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

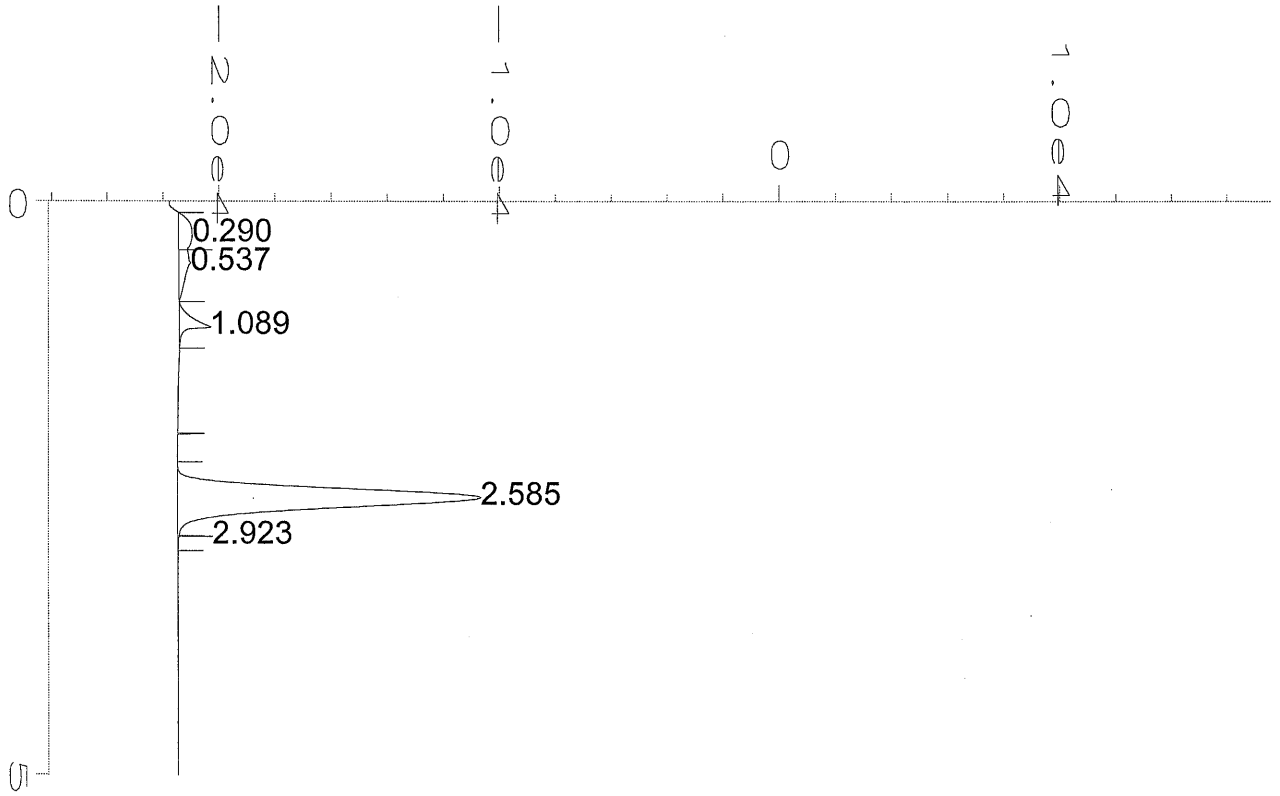
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510049A.D
Operator : LR
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-313
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 08:42 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 08:48 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510049A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.290	7390	482	BV	0.207	5.1224
2	0.537	6206	423	VV	0.184	4.3020
3	1.089	6543	1098	VB	0.076	4.5354
4	2.585	123717	10807	BV	0.179	85.7567
5	2.923	409	1342	VB	0.005	0.2834

Total area = 144265

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Sample Data Packages

SDG Number **225100**

Lab Id Number **50**

Client ID T-314

Analytical Method ASTM D3416

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: 225100
Laboratory Number: 50

File Name:	2510050A	**Date Sampled:**	03/21/25	**Time:**	10:38
Description:	T-314	**Date Analyzed:**	03/24/25	**Time:**	20:50
Can/Tube#:	784	**Dilution Factor:**	1.25		
QC_Batch:	032425-GCL				

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.62	1.87	260.80	0.41	1.23	171.02	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**225100**			**Method:**	**ASTM D3416**
Lab Id:	**50**				
File Name:	**2510050A**	A		**SF:**	**2**
Description:	**T-314**			**Not Detected Flag:**	**ND**
Date Sampled:	**03/21/25**	**Time:**	**10:38**	**Matrix**	**AA**
Date Received:	**03/21/25**	**Time:**	**14:30**	**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**	**20:50**	**Instrument**	**GCL**
QCBatch	**032425-GCL**			**Volume:**	**5.0**
Type	**SA**				
Can Number	**784**				
Can Factor	**1.25**				

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**1221444**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

ASTM D3416 Methane by GC/FID

File Name: 2510050A
QCBatch 032425-GCL
Can Factor 1.25
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.25
Gas Constant: 24.4
Decimal Places: 2

SDG: **225100**
Calibration: **L10** => L9 = Daily Calibration
RL Factor: **3** L10 = Curve

RF: 6115
RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	**Lab Qual**
Methane	16.00	260.80	260.80	171.02	171.02	171.02	0.50	0.62	1.87	0.62	1.87	0.41	1.23	

EPA Qual	Det Qual	Rpt
	=	Y

Laboratory Worksheet

Due: | Expires: 4/20/2025 | 225100 | 50

Client: C.E. Schmidt
Client ID: T-314
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 784
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:38
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	701		
Final:	876		
Factor:	1.25		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

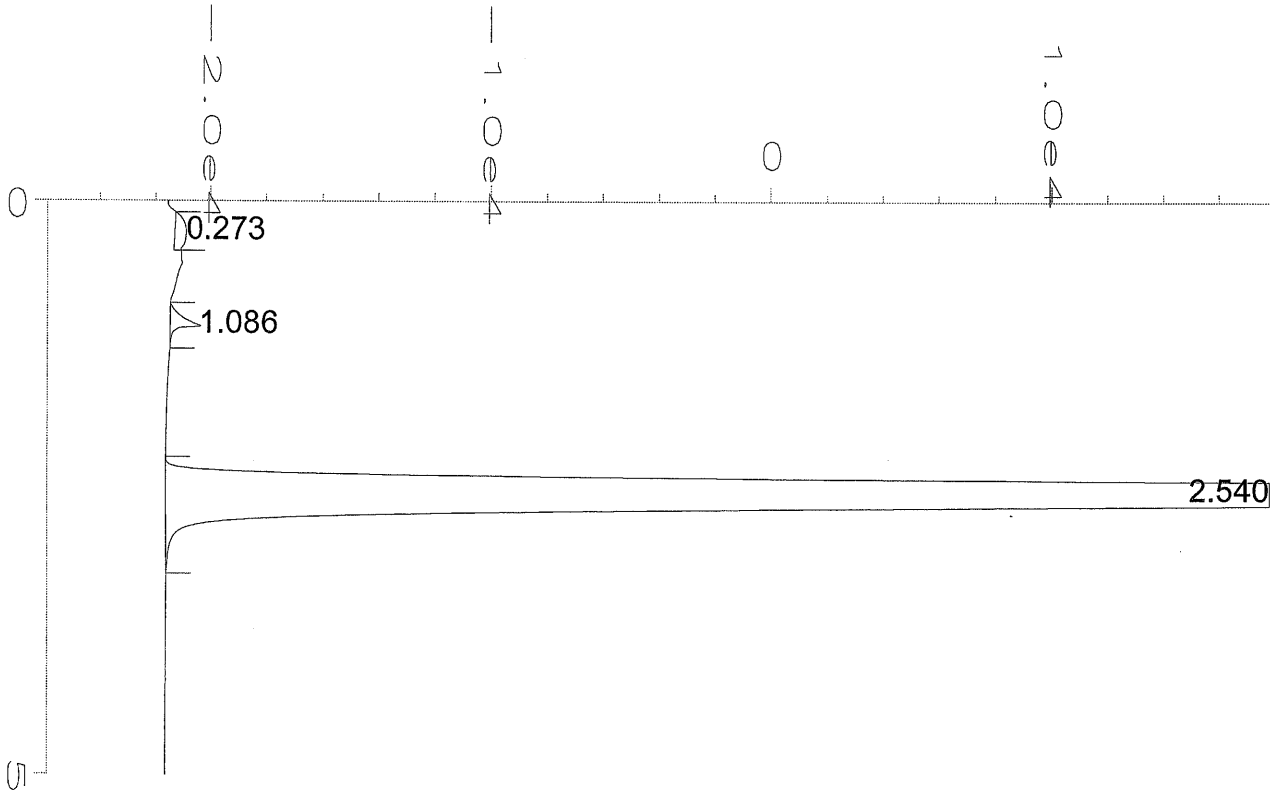
InstrumentMethod:	Item Description:		Holding Time:
GCL	ASTM D3416	ASTM D3416 Low Level Methane	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\2510050A.D
Operator : LR
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : T-314
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 08:50 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 08:55 PM
Analysis Method : 3416CH4.MTH
Sample Info : SCHMIDT

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\2510050A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.273	6284	407	BV	0.207	0.5093
2	1.086	6184	1079	PB	0.074	0.5012
3	2.540	1221444	107700	BB	0.177	98.9895

Total area = 1233913

==========

Method Blank Data Packages

Samples are analyzed in a Daily Analytical Batch (DAB) on an instrument. The DAB identifier is on each analytial report in the field called QC Batch. There will be one Method Blank QC Batch report for each DAB in this SDG.

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METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D3416 Methane by GC/FID

Modified Analytical Method: ASTM D3416

SDG: LABQC
Laboratory Number: B03245

File Name: B03245A
Description: METHOD BLANK
Can/Tube#: 307
QC_Batch: 032425-GCL

Date Sampled:
Time:
Date Analyzed: 03/24/25
Time: 12:29
Dilution Factor: 1.00

CAS#	Compound	MDL ppmv	RL ppmv	Result ppmv	MDL mg/m3	RL mg/m3	Result mg/m3	Flag
74-82-8	Methane	0.50	1.50	ND	0.33	0.98	ND	

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

SDG:	**LABQC**				**Method:**	ASTM D3416
Lab Id:	**B03245**					
File Name:	**B03245A**	A			**SF:**	**2**
Description:	**METHOD BLANK**				**Not Detected Flag:**	**ND**
Date Sampled:	**NA**	**Time:**	**NA**		**Matrix**	**AA**
Date Received:	**NA**	**Time:**	**NA**		**Type**	**TRG**
Date Analyzed:	**03/24/25**	**Time:**		**12:29**	**Instrument**	**GCL**
QCBatch	**032425-GCL**				**Volume:**	**5.0**
Type	**MB**					
Can Number	**307**					
Can Factor	**1.00**					

CAS#	Compound	Num	STD RT	STD ppmV	Standard Area	Sample Area
74-82-8	Methane	01	2.74	103.20	**631108**	**0**

For Data Package Print QUANT, REPORT, CALC

CALCULATIONS

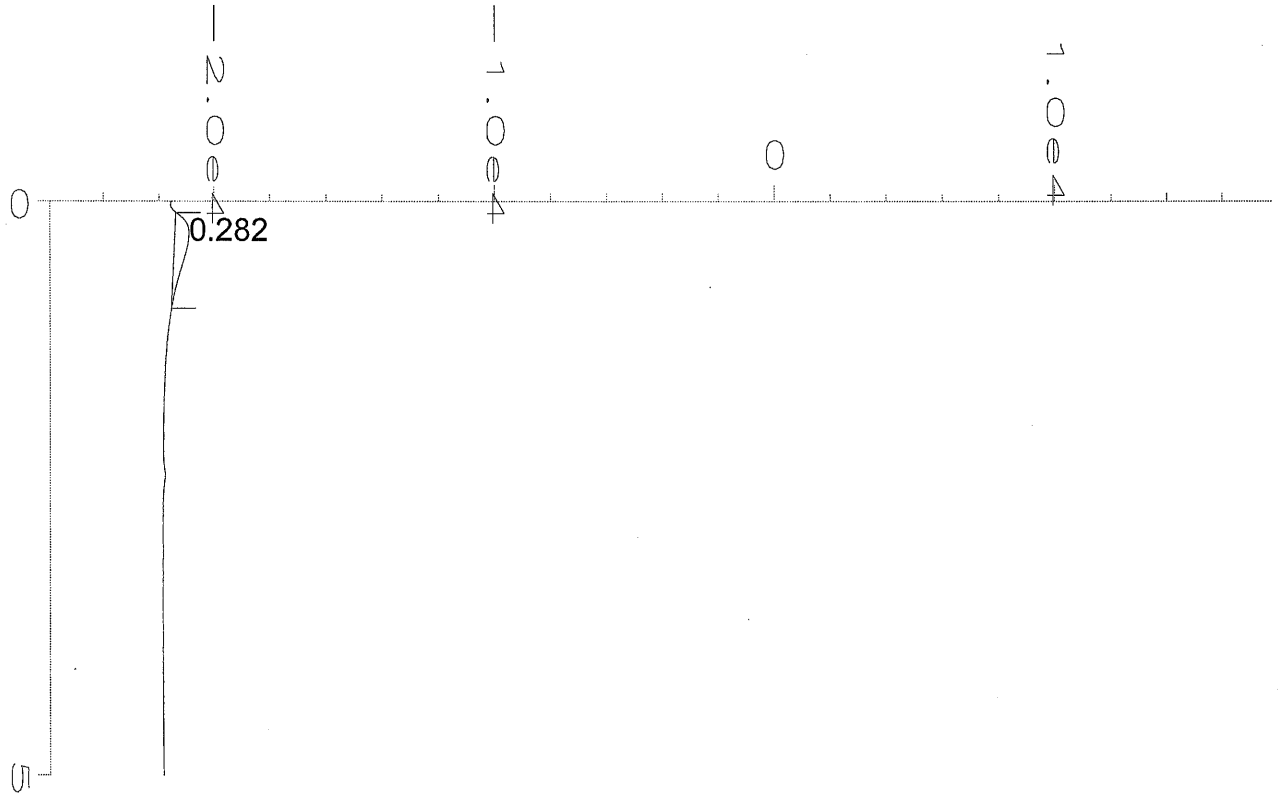
ASTM D3416 Methane by GC/FID

File Name: B03245A
QCBatch 032425-GCL
Can Factor 1.00
Volume: 5.00 ml
Base Volume 5.00 ml
Dilution Factor 1.00
Gas Constant: 24.4
Decimal Places: 2

SDG: **LABQC**
Calibration: **L10** **=>** L9 = Daily Calibration RF: 6115
RL Factor: **3** L10 = Curve RF: 5853
CAL: 5853

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	Lab Qual
Methane	16.00	0.00	ND	ND	0		0.50	0.50	1.50	0.50	1.50	0.33	0.98	**U**

EPA Qual	Det Qual	Rpt
	ND	Y



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\03245GCL\B03245A.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : METHOD BLANK
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 12:29 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 12:34 PM
Analysis Method : 3416CH4.MTH
Sample Info :

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\B03245A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.282	14258	506	BB	0.374	100.0000

Total area = 14258

==========

LCS/LCD Data Packages

Samples are analyzed in a Daily Analytical Batch (DAB) on an instrument. The DAB identifier is on each analytial report in the field called QC Batch. There will be one LCS/LCD report for each QC Batch (DAB) in this SDG.

Index

Analytical Report
Quantitation Report
Calculations
Sample Calculations
Instrument Quant Report
Chromatogram

QUALITY CONTROL SPIKE

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

ASTM D3416 Methane by GC/FID
Analytical Method: **ASTM D3416**

Date: 03/24/25
QC_Batch: 032425-GCL

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate Duplicate %	Duplicate Limit %	Flag
74-82-8	Methane	86		91		70	130	5	25	

LCS- Laboratory Control Spike
LCD - Laboratory Control Duplicate

Flag - Q indicates out of Limit

QUANTITATION REPORT

ASTM D3416 Methane by GC/FID

	LCS		LCD	STD			
File Name:	**QC03245C**		**QC03245B**	**C03245C**	Method:	**ASTM D3416**	
SDG:	**LABQC**		**LABQC**		Not Detected Flag:	**ND**	
LCS EAS ID:	**QC03245C**		**QC03245B**		SF:	**2**	1
Time:	**10:45**		**10:37**		Instrument:	**GCL**	2
Date Analyzed:	**03/24/25**				DAB:	**0324**	3
QCBatch:	**032425-GCL**					**03245**	4
Methane Std Area	**6.15E+06**	A					5
Matrix	**AA**						
Chem	**TRG**						
Description	**ST63414**						
Can Factor:	**1.00**				Unit Factor	**1000**	
Volume:	**5.00**	ml	C		C	B	

CAS#	Compound	STD CONC	STD AREA	Samp RT	LCS Area	LCD Area
74-82-8	Methane	**103.20**	**631108**	1.63	**11379**	**11986**
		ST62408	1293306			
		RSD	48.664			

QUALITY CONTROL REPORT

QC_Batch: 032425-GCL

Date Analyzed: 03/24/25

CAS#	Compound	MW	Carbon #	Spike Conc PPMV	LCS ppbv	LCS ppbv	LCS ppbv	LCS %
74-82-8	Methane	16	1	2.50	2.15	0.00	2.2	86.0

CAS#	Compound	MW	Carbon #	Spike Conc PPMV	LCD ppbv	LCD ppbv	LCD ppbv	LCD %
74-82-8	Methane	16	1	2.50	2.27	0.00	2.3	90.8

LCL %	UCL %	Flag	DUP %	CL %	Flag
70	130		4.80	25	

LCL %	UCL %	Flag
70	130	

2.5

2.88
2.55
2.79

CALCULATIONS

ASTM D1945 Fixed Gas CH4 by FID

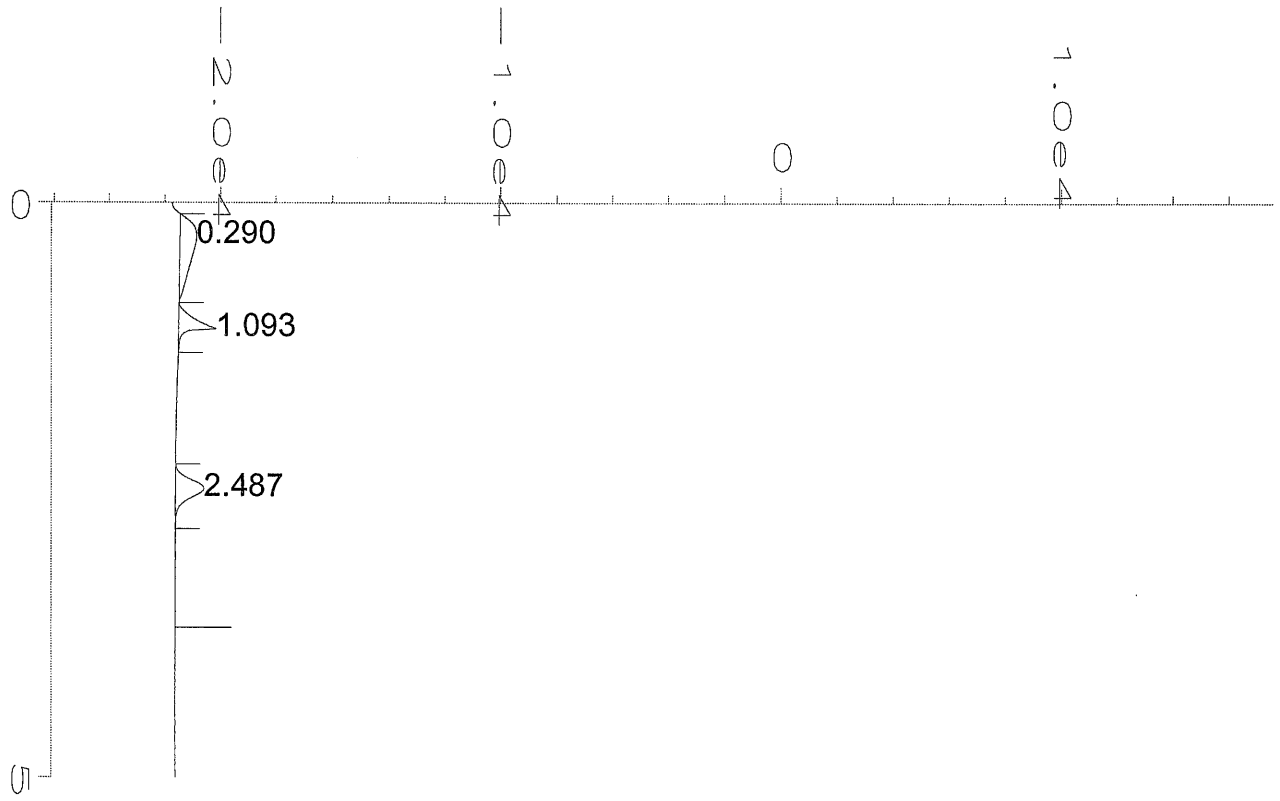
File Name:	QC03245C		**SDG:**	**LABQC**				
QCBatch	032425-GCL							
Can Factor	1.00		**Calibration:**	**L9**	=>	L9 = Daily Calibration	RF:	5291
Volume:	5.00		**RL Factor:**	**3**		L10 = Curve	RF:	6440
Base Volume	5	ml						
Dilution Factor	1.00		**Flux Factor:**	**0.0385**		0.004		
Gas Constant:	23.68							
Decimal Places:	2							

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	Lab Qual
Methane	16.00	2.15	2.15	1.45	1.45	1.45	0.1	0.10	0.300	0.10	0.30	0.07	0.20	

Compound	MW	Curve Result ppmv	Fixed ResultV ppmv	Fixed Result mg/m3	ResultQ mg/m3	ResultG mg/m3	MDL ppmv	Calc MDL ppmv	Calc RL ppmv	Fixed MDL ppmv	Fixed RL ppmv	Fixed MDL mg/m3	Fixed RL mg/m3	Lab Qual
Methane	16.00	2.27	2.27	1.53	1.53	1.53	0.1	0.10	0.300	0.10	0.30	0.07	0.20	

EPA Qual	Det Qual	Rpt
	=	Y

EPA Qual	Det Qual	Rpt
	=	Y



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\03245GCL\QC03245C.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : ABT AIR
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 12:17 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 12:22 PM
Analysis Method : 3416CH4.MTH
Sample Info : OUTDOOR AIR

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\QC03245C.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.290	16175	601	BV	0.341	45.1919
2	1.093	8238	1360	PB	0.076	23.0155
3	2.487	11379	1019	BB	0.155	31.7926

Total area = 35793

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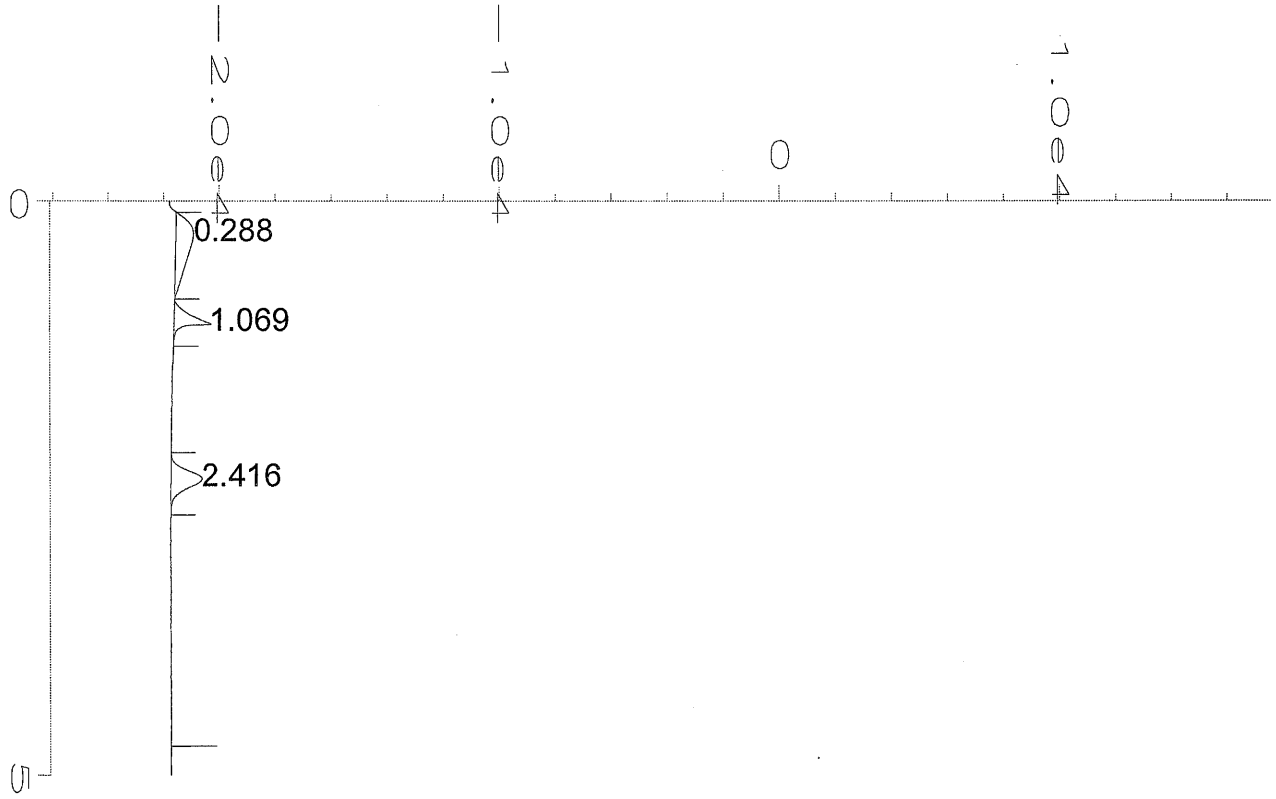

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\03245GCL\QC03245B.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : ABT AIR
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 12:11 PM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 12:16 PM
Analysis Method : 3416CH4.MTH
Sample Info : OUTDOOR AIR

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\QC03245B.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.288	16502	629	BV	0.337	45.4059
2	1.069	7855	1332	PB	0.076	21.6136
3	2.416	11986	1104	BB	0.160	32.9805

Total area = 36344

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Continuing Calibration Data Package

Samples are analyzed in a Daily Analytical Batch (DAB) on an instrument. The DAB identifier is on each analytial report in the field called QC Batch. There will be one Continuing Calibration QC Batch report for each DAB in this SDG.

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Instrument Quant Report
Chromatogram

CONTINUING CALIBRATION REPORT

SDG: **LABQC**
QC_Batch: **032425-GCL**
Sample Analysis Date: 03/24/25
ICAL Date: 03/24/25

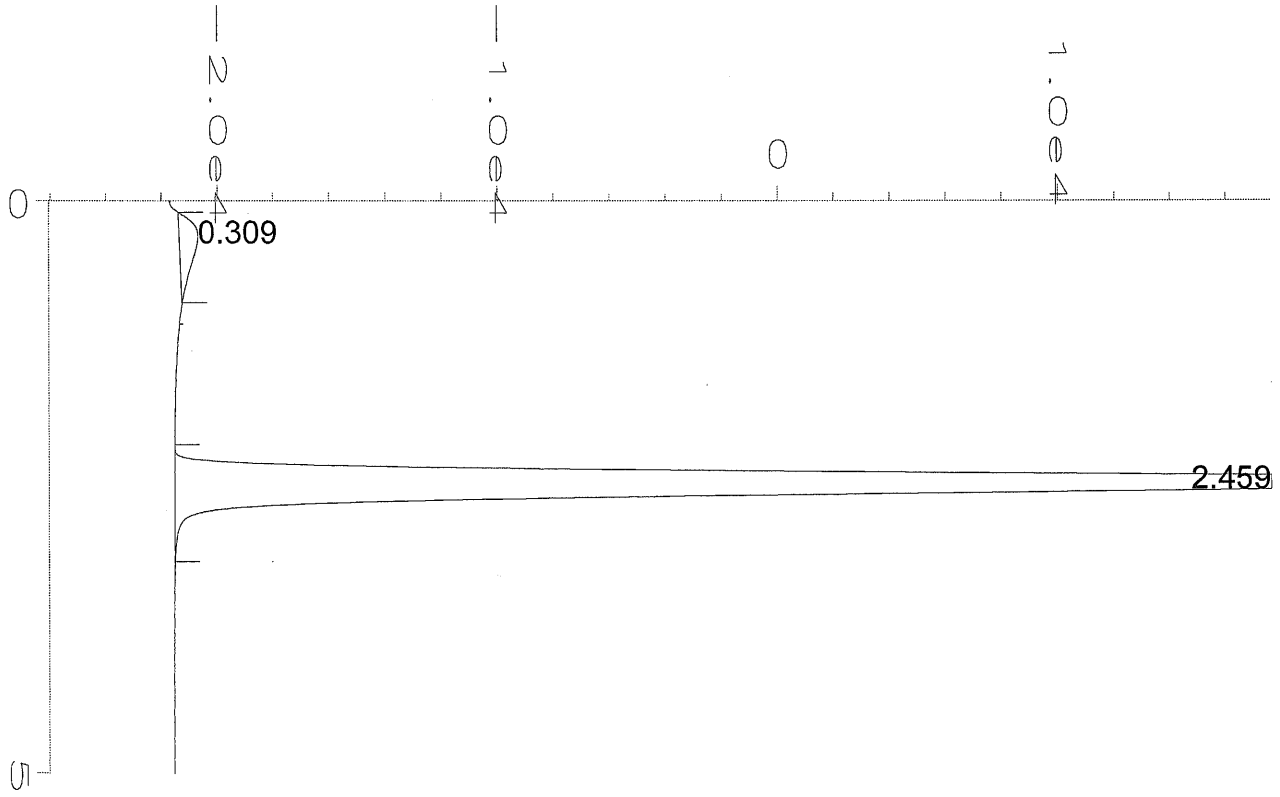
Sample Calculation:

1) Avg RFn = Sum $\left|\frac{(Astdni)}{(Cstdni)}\right|$

2) CCRRF = $\left|\frac{(Astdni)}{(Cstdni)}\right|$

C03246B ST61726

Compound	Area Astdi	Cal Level Cstdi Ml	CCRRF	AvgRFn	ICal RFn C Ratio	%Dev	%Dev Limit
Methane	631108	103.200	6115	5853	17558	-4.5	30



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\03245GCL\C03245C.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : ST63414
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 11:33 AM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 11:38 AM
Analysis Method : 3416CH4.MTH
Sample Info : 10:1 SYRINGE DILUTION N2:ST63414

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\C03245C.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.309	17619	659	BB	0.338	2.7160
2	2.459	631108	54651	BB	0.178	97.2840

Total area = 648727

==========

Initial Calibration Data Packages

Samples were analyzed using the methods listed in Section 3. For each of the methods there is an Initial Calibration Curve that meets the criteria defined in Section 2 on Quality Control for the modified method.

Index

Response Factors
Instrument Quant Report
Chromatogram

INITIAL CALIBRATION REPORT

ASTM D3416 Methane by GC/FID

ASTM D3416 Methane by GC/FID

QC_Batch: 032425-GCL
ICAL Date: **03/24/25**

	Calibration Amount CA, ppmv						Calibration Response, Area				
	Level 1	Level 2	Level 3	**Level 4**	Level 6		Level 1	Level 2	Level 3	Level 4	Level 6
	ST63416	ST63415	ST62407	**ST63414**	AMBIENT		C04224F	C03245E	C03245D	C03245A	QC03245A
Compound	29.8	59.6	119.27	**1032.00**	1.820		29.80	51.6	103.20	1032.00	AMBIENT
Methane	29.80	51.60	103.20	**1032.00**	1.820		149289	298578	631108	6148050	11637
							2.5%	5%	10%		
				Secondary Standard							
							29.8	59.64	119.27	1032	AMBIENT
Secondary Standard prepared from an independent source.						4/22/2024	397997	783566	1703621	20583700	28758
Secondary Standard was included in curve						12/6/2024	197247	394494	822005	7836188	15212.25
Ambient Air QC Standard was included in curve.						3/18/2025	186881	373762	659170	6645083	11760

12617 A
11986 B
11379 C
10565 D

INITIAL CALIBRATION REPORT: Response Factors

ASTM D3416 Methane by GC/FID

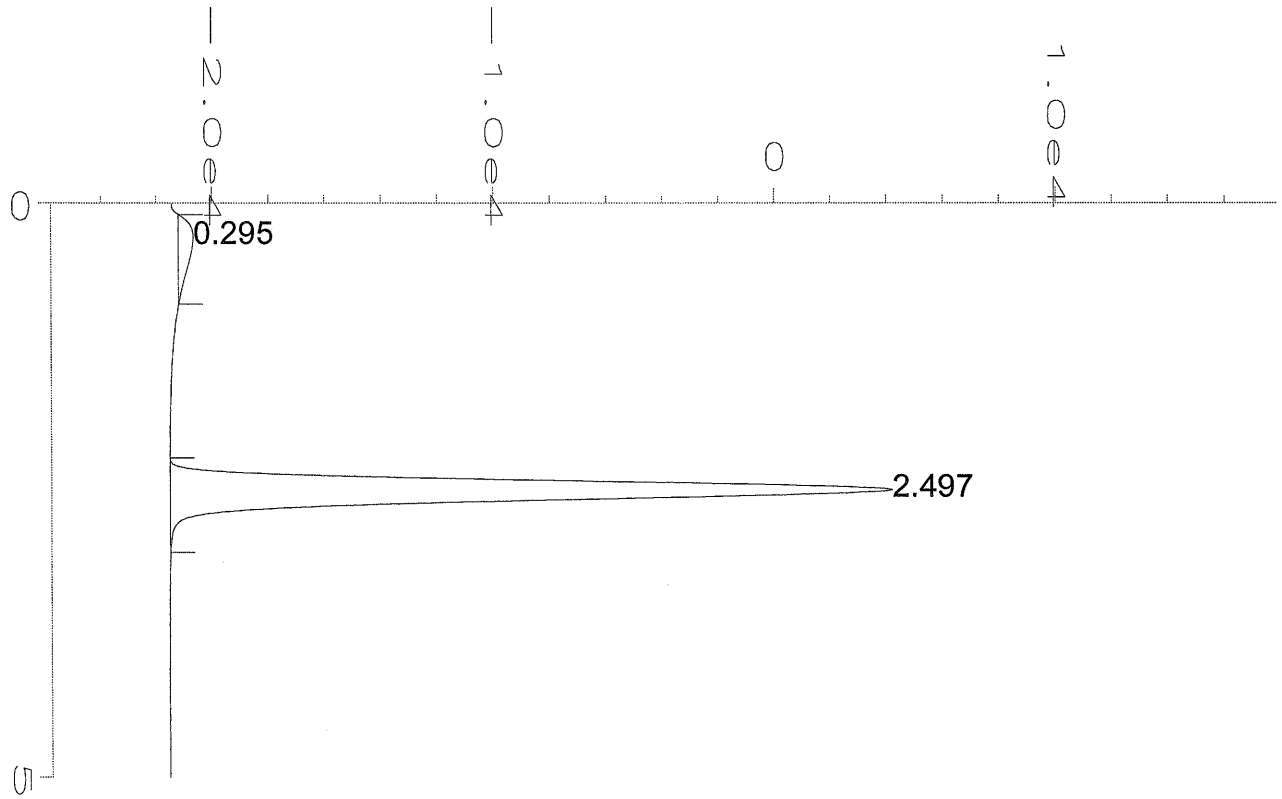
QC_Batch: 032425-GCL
ICAL Date: **03/24/25**

Sample Calculation:

1) Avg RFn = Sum $\left| \frac{(Astdni)}{(Cstdni)} \right|_i$

Response Factors

Compound	RF1	RF2	RF3	RF4	RF5	AvgRFn	%RSD
Methane	5010	5786	6115	5957	6394	5853	9



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Area Percent Report

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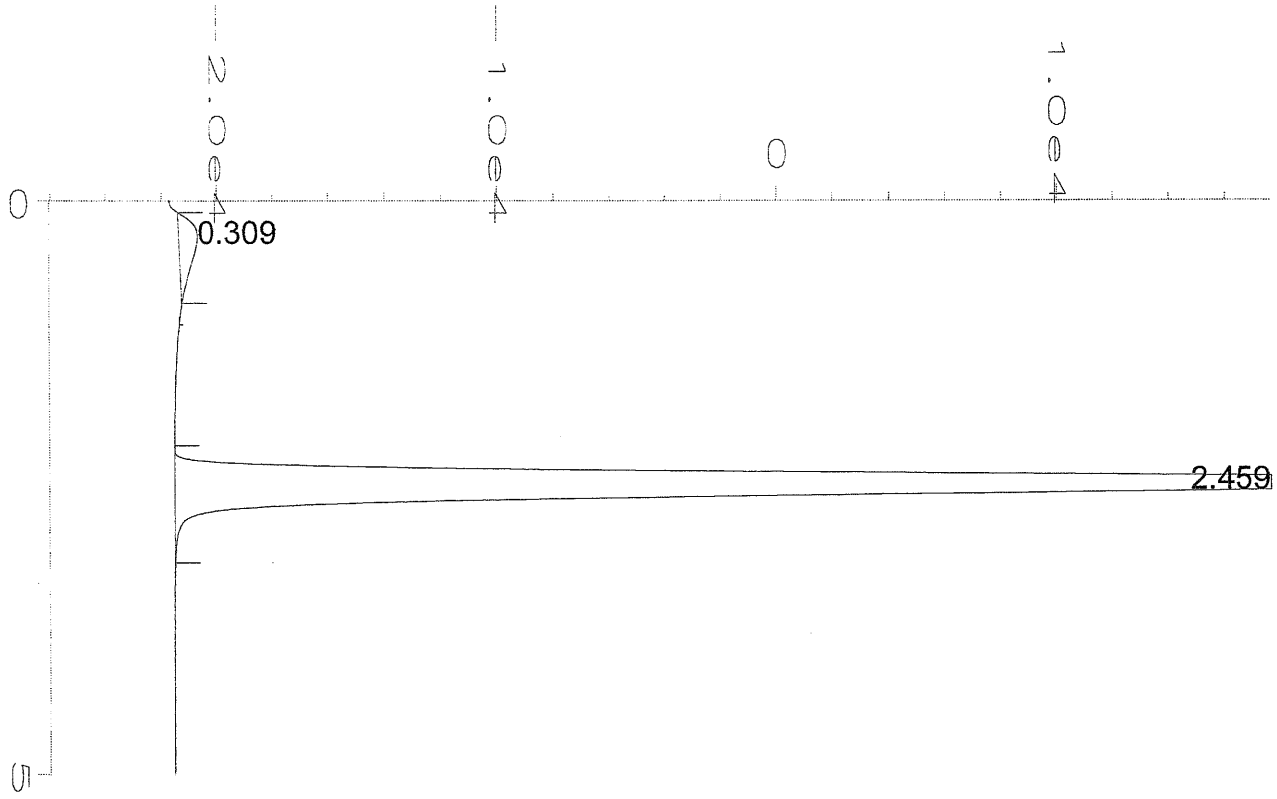
Data File Name : C:\GCCHEM\1\DATA\03245GCL\C03245E.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : ST63414
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 11:46 AM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 11:51 AM
Analysis Method : 3416CH4.MTH
Sample Info : 5% SYRINGE DILUTION N2:ST63414

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\C03245E.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.295	14606	536	BB	0.358	4.6638
2	2.497	298578	25722	BB	0.181	95.3362

Total area = 313184

==========



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Area Percent Report

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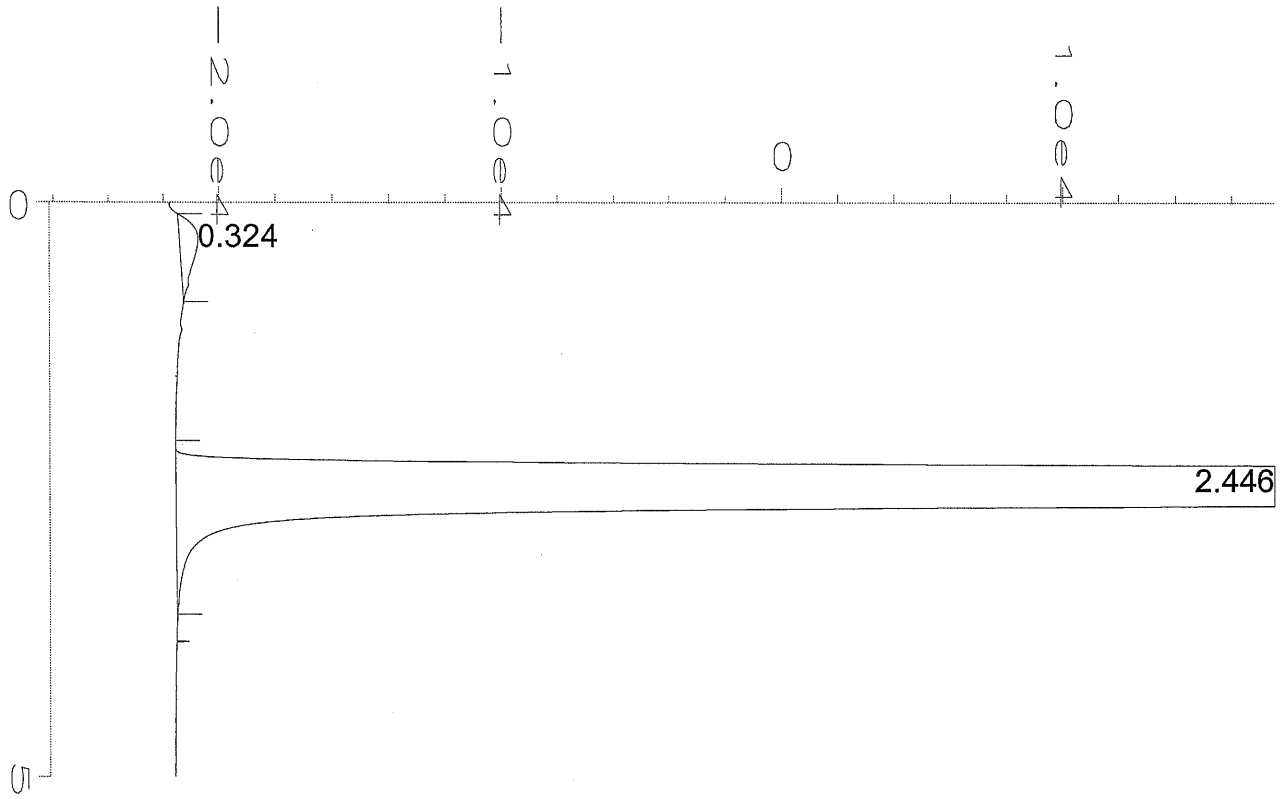
Data File Name : C:\GCCHEM\1\DATA\03245GCL\C03245C.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : ST63414
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 11:33 AM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 11:38 AM
Analysis Method : 3416CH4.MTH
Sample Info : 10:1 SYRINGE DILUTION N2:ST63414

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\C03245C.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.309	17619	659	BB	0.338	2.7160
2	2.459	631108	54651	BB	0.178	97.2840

Total area = 648727

==========



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\03245GCL\C03245A.D
Operator : DA
Page Number : 1
Instrument : ANALYZER1
Vial Number :
Sample Name : ST63414
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 11:14 AM
Instrument Method: 3416CH4.MTH
Report Created on: 24 Mar 25 11:19 AM
Analysis Method : 3416CH4.MTH
Sample Info : 100% ST63414

Sig. 1 in C:\GCCHEM\1\DATA\03245GCL\C03245A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.324	17348	665	BB	0.340	0.2814
2	2.446	6148050	532167	BB	0.180	99.7186

Total area = 6165398

==========

Section 5 Standard Calibration Certificates

This section contains the Standard Calibration Certificates for the Standards and Internal Standards.

Section Contents

Standard Calibration Certificates

[redacted]

ST634108	50% Air	RS
	50:50 syringe dilution ST634100 : ISP He	4/19/24
ST634109	25% Air	RS
	1:4 syringe dilution ST634100 : ISP He	4/19/24
ST634110	25% CO_2	RS
	1:4 Syringe dilution ST611116 (100% CO_2) : ISP He	4/19/24
ST634111	25% Methane	RS
	1:4 syringe dilution ST627124 (10% Mix) : ISP He	4/19/24
ST634112	Ambient Air	RS
	100% Ambient outdoor air syringe draw	4/19/24
ST634113	50% Ambient Air	RS
	1:1 syringe dilution ST634112 : ISP He	4/19/24

ST634114 4/22/24

20 mL of ST633324 100% Methane was spiked into a Blue Scotty and pressurized to 290 psig from 200.

STANDARD CERTIFICATE
CALIBRATION GAS STANDARD

Standard ID: ST62407 **Date Prepared: 3/5/20**

Description: Methane Standard Analyst: SH

Canister: Blue Scotty Expiration Date: 3/4/25

Component	CAS No	Concentration
Methane	74-82-8	119.27

•This Analysis is NIST Traceable by either measurement or weight•

Analyst:

The stability of gas standards cannot be guaranteed and EAS will only be liable for replacement or reanalysis if the standard changes in six months from analysis date.

Standard Preparation

	Primary	Dilution 1	Dilution 2
Standard ID:	ST60775	ST62406	ST62407
Date Prepared:		3/5/2020	03/05/20
Container ID:	Blue Scotty		Blue Scotty
Analyst:	SH	20	935
		18299	8568
		273	120
	Factor	0.001093	0.109131
	Conc ppmv	Conc ppmv	Conc ppmv
Methane	1000000	1092.9388	119.27

STANDARD PREPARATION WORKSHEET

Instructions: Enter the compound name and date then desired ppmV for final Standard. Check mass and volume to make sure they are in a measurable range.
Checked and Validated on : 8/27/1999

Description: Methane Standard
Volume of Air (Est.): 935 ml

Standard	CAS
Methane	74-82-8

STANDARD CERTIFICATE
CALIBRATION GAS STANDARD

Standard ID: ST63414 **Date Prepared: 4/22/24**

Description: Methane Standard Analyst: SH

Canister: Blue Scotty Expiration Date: 4/21/29

Component	CAS No	Concentration
Methane	74-82-8	1032

•This Analysis is NIST Traceable by either measurement or weight•

Analyst:

The stability of gas standards cannot be guaranteed and EAS will only be liable for replacement or reanalysis if the standard changes in six months from analysis date.

Standard Preparation

	Primary	Dilution 1	Dilution 2
Standard ID:	ST63324	ST63414	ST63414
Date Prepared:		4/22/2024	04/22/24
Container ID:	Blue Scotty		Blue Scotty
Analyst:	SH	20	1
		19381	1
		290	
	Factor	0.001032	1.000000
	Conc ppmv	Conc ppmv	Conc ppmv
Methane	1000000	1031.9610	1031.96

STANDARD PREPARATION WORKSHEET

Instructions: Enter the compound name and date then desired ppmV for final Standard. Check mass and volume to make sure they are in a measurable range.
Checked and Validated on : 8/27/1999

Description: Methane Standard
Volume of Air (Est.): 935 ml

Standard	CAS
Methane	74-82-8

ENVIRONMENTAL
Analytical Service, Inc.

Data Deliverable Package

Prepared For:
C.E. Schmidt
19200 Live Oak Road
Red Bluff CA 96080

Client Project Manager: Chuck Schmidt
Project Name: Chiquita Canyon
Project Number: GC Permanent Gas

EAS SDG Number: **225100**
Project Number: 17807
Report Sent: 4/15/2025
Sample Event Date:),3/20,3/21/2025

This is the Laboratory Data Deliverable Package for the samples in the indicated Sample Delivery Group (SDG).

INDEX TO DATA PACKAGE:

Section 1 **Project Summary**
- Laboratory Work Order
- Sample Data
- Laboratory Case Narrative and Chain of Custody

Section 2 **Quality Control**
- Project QC Criteria
- DAB QC Reports

Section 3 **Analytical Methods**
- Analytical Method Description(s)
- Analytical Reports

Section 4 **Data Package with Quant Report and Chromatogram**
- DAB Run Logs and Preparation Log
- Sample Data Package
- Blank Data Package
- Continuing Calibration Package
- Initial Calibration Package

Section 5 **Standard Certificates**

Section 6 **SDG Documentation, Notes, Correspondence**

173 Cross Street, San Luis Obispo, California, 93401 (805) 781-3585

Section 1 Project Summary

The following pages provide detailed information about the sample receipt, log-in, and sample preparation. The Laboratory Work Order provides a cross reference between the Client ID number and the EAS Lab Number as well as a list of the analytical tests preformed. The items included in this section are listed below.

Section Contents

Laboratory Work Order

Sample Data

Laboratory Case Narrative

Chain of Custody

Laboratory Work Order

SDG Number: 225100
Client: Chuck Schmidt
C.E. Schmidt

Project Number: 17807
Received: 3/21/2025

SAMPLE DESCRIPTION AND ANALYSIS REQUESTED

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-101	225100 1	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-101	225100 1	ASTM D3416 Low Level Methane	3/19/2025
T-101	225100 1	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-101	225100 1	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-101	225100 1	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-102	225100 2	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-102	225100 2	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-102	225100 2	ASTM D3416 Low Level Methane	3/19/2025
T-102	225100 2	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-102	225100 2	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-103	225100 3	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-103	225100 3	ASTM D3416 Low Level Methane	3/19/2025
T-103	225100 3	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-103	225100 3	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-103	225100 3	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-104	225100 4	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-104	225100 4	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-104	225100 4	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-104	225100 4	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-104	225100 4	ASTM D3416 Low Level Methane	3/19/2025
T-105	225100 5	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-105	225100 5	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-105	225100 5	ASTM D3416 Low Level Methane	3/19/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-105	225100 5	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-105	225100 5	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-106	225100 6	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-106	225100 6	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-106	225100 6	ASTM D3416 Low Level Methane	3/19/2025
T-106	225100 6	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-106	225100 6	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-107	225100 7	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-107	225100 7	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-107	225100 7	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-107	225100 7	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-107	225100 7	ASTM D3416 Low Level Methane	3/19/2025
T-108	225100 8	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-108	225100 8	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-108	225100 8	ASTM D3416 Low Level Methane	3/19/2025
T-108	225100 8	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-108	225100 8	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-109	225100 9	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-109	225100 9	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-109	225100 9	ASTM D3416 Low Level Methane	3/19/2025
T-109	225100 9	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-109	225100 9	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-110	225100 10	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-110	225100 10	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-110	225100 10	ASTM D3416 Low Level Methane	3/19/2025
T-110	225100 10	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-110	225100 10	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-111	225100 11	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-111	225100 11	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-111	225100 11	ASTM D3416 Low Level Methane	3/19/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-111	225100 11	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-111	225100 11	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-112	225100 12	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-112	225100 12	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-112	225100 12	ASTM D3416 Low Level Methane	3/19/2025
T-112	225100 12	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-112	225100 12	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-113	225100 13	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-113	225100 13	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-113	225100 13	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-113	225100 13	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-113	225100 13	ASTM D3416 Low Level Methane	3/19/2025
T-114	225100 14	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-114	225100 14	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-114	225100 14	ASTM D3416 Low Level Methane	3/19/2025
T-114	225100 14	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-114	225100 14	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-115	225100 15	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-115	225100 15	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-115	225100 15	ASTM D3416 Low Level Methane	3/19/2025
T-115	225100 15	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-115	225100 15	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-116	225100 16	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-116	225100 16	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-116	225100 16	ASTM D3416 Low Level Methane	3/19/2025
T-116	225100 16	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-116	225100 16	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-117	225100 17	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-117	225100 17	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-117	225100 17	ASTM D3416 Low Level Methane	3/19/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-117	225100 17	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-117	225100 17	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-118	225100 18	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-118	225100 18	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-118	225100 18	ASTM D3416 Low Level Methane	3/19/2025
T-118	225100 18	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-118	225100 18	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-201	225100 19	ASTM D3416 Low Level Methane	3/20/2025
T-201	225100 19	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-201	225100 19	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-201	225100 19	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-201	225100 19	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-202	225100 20	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-202	225100 20	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-202	225100 20	ASTM D3416 Low Level Methane	3/20/2025
T-202	225100 20	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-202	225100 20	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-203	225100 21	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-203	225100 21	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-203	225100 21	ASTM D3416 Low Level Methane	3/20/2025
T-203	225100 21	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-203	225100 21	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-204	225100 22	ASTM D3416 Low Level Methane	3/20/2025
T-204	225100 22	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-204	225100 22	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-204	225100 22	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-204	225100 22	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-205	225100 23	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-205	225100 23	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-205	225100 23	ASTM D3416 Low Level Methane	3/20/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-205	225100 23	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-205	225100 23	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-206	225100 24	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-206	225100 24	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-206	225100 24	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-206	225100 24	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-206	225100 24	ASTM D3416 Low Level Methane	3/20/2025
T-207	225100 25	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-207	225100 25	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-207	225100 25	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-207	225100 25	ASTM D3416 Low Level Methane	3/20/2025
T-207	225100 25	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-208	225100 26	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-208	225100 26	ASTM D3416 Low Level Methane	3/20/2025
T-208	225100 26	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-208	225100 26	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-208	225100 26	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-209	225100 27	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-209	225100 27	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-209	225100 27	ASTM D3416 Low Level Methane	3/20/2025
T-209	225100 27	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-209	225100 27	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-210	225100 28	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-210	225100 28	ASTM D3416 Low Level Methane	3/20/2025
T-210	225100 28	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-210	225100 28	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-210	225100 28	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-211	225100 29	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-211	225100 29	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-211	225100 29	EPA TO-12 C2 to C12 CRYO	3/20/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-211	225100 29	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-211	225100 29	ASTM D3416 Low Level Methane	3/20/2025
T-212	225100 30	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-212	225100 30	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-212	225100 30	ASTM D3416 Low Level Methane	3/20/2025
T-212	225100 30	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-212	225100 30	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-213	225100 31	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-213	225100 31	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-213	225100 31	ASTM D3416 Low Level Methane	3/20/2025
T-213	225100 31	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-213	225100 31	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-214	225100 32	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-214	225100 32	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-214	225100 32	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-214	225100 32	ASTM D3416 Low Level Methane	3/20/2025
T-214	225100 32	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-215	225100 33	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-215	225100 33	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-215	225100 33	ASTM D3416 Low Level Methane	3/20/2025
T-215	225100 33	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-215	225100 33	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-216	225100 34	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-216	225100 34	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-216	225100 34	ASTM D3416 Low Level Methane	3/20/2025
T-216	225100 34	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-216	225100 34	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-217	225100 35	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-217	225100 35	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-217	225100 35	ASTM D3416 Low Level Methane	3/20/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-217	225100 35	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-217	225100 35	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-218	225100 36	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-218	225100 36	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-218	225100 36	ASTM D3416 Low Level Methane	3/20/2025
T-218	225100 36	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-218	225100 36	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-301	225100 37	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-301	225100 37	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-301	225100 37	ASTM D3416 Low Level Methane	3/21/2025
T-301	225100 37	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-301	225100 37	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-302	225100 38	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-302	225100 38	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-302	225100 38	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-302	225100 38	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-302	225100 38	ASTM D3416 Low Level Methane	3/21/2025
T-303	225100 39	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-303	225100 39	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-303	225100 39	ASTM D3416 Low Level Methane	3/21/2025
T-303	225100 39	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-303	225100 39	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-304	225100 40	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-304	225100 40	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-304	225100 40	ASTM D3416 Low Level Methane	3/21/2025
T-304	225100 40	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-304	225100 40	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-305	225100 41	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-305	225100 41	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-305	225100 41	ASTM D3416 Low Level Methane	3/21/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-305	225100 41	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-305	225100 41	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-306	225100 42	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-306	225100 42	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-306	225100 42	ASTM D3416 Low Level Methane	3/21/2025
T-306	225100 42	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-306	225100 42	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-307	225100 43	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-307	225100 43	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-307	225100 43	ASTM D3416 Low Level Methane	3/21/2025
T-307	225100 43	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-307	225100 43	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-308	225100 44	ASTM D3416 Low Level Methane	3/21/2025
T-308	225100 44	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-308	225100 44	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-308	225100 44	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-308	225100 44	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-309	225100 45	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-309	225100 45	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-309	225100 45	ASTM D3416 Low Level Methane	3/21/2025
T-309	225100 45	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-309	225100 45	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-310	225100 46	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-310	225100 46	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-310	225100 46	ASTM D3416 Low Level Methane	3/21/2025
T-310	225100 46	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-310	225100 46	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-311	225100 47	ASTM D3416 Low Level Methane	3/21/2025
T-311	225100 47	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-311	225100 47	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-311	225100 47	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-311	225100 47	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-312	225100 48	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-312	225100 48	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-312	225100 48	ASTM D3416 Low Level Methane	3/21/2025
T-312	225100 48	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-312	225100 48	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-313	225100 49	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-313	225100 49	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-313	225100 49	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-313	225100 49	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-313	225100 49	ASTM D3416 Low Level Methane	3/21/2025
T-314	225100 50	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-314	225100 50	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-314	225100 50	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-314	225100 50	ASTM D3416 Low Level Methane	3/21/2025
T-314	225100 50	EPA TO-12 C2 to C12 CRYO	3/21/2025

Project Sample Media

SDG Number: 225100

The following sample media was used for this Sample Delivery Group (SDG). The Sample Media column identifies the type of media. For canisters, the Sample Media Batch gives the canister number followed by the cleaning batch number, which is a unique identification. The initial pressure of the canister when it is received is recorded. If the canister is not pressurized, the final pressure will be the same as the initial pressure. If the canister is pessurized the final pressure will be recorded, and the canister dilution factor is calculated as the ratio of the final to initial pressure. The results are adjusted for the can dilution factor.

SDG	Lab ID	Client Sample No.	Sample Media	Batch	Pressure, torr Initial	Pressure, torr Final	Can Factor
225100	1	T-101	668		723	871	1.20
225100	2	T-102	895		734	913	1.24
225100	3	T-103	881		728	870	1.20
225100	4	T-104	860		723	947	1.31
225100	5	T-105	685		719	882	1.23
225100	6	T-106	621		718	880	1.23
225100	7	T-107	644		720	888	1.23
225100	8	T-108	556		702	886	1.26
225100	9	T-109	694		713	926	1.30
225100	10	T-110	857		707	901	1.27
225100	11	T-111	504		697	871	1.25
225100	12	T-112	631		714	882	1.24
225100	13	T-113	690		705	870	1.23
225100	14	T-114	645		701	888	1.27
225100	15	T-115	654		696	881	1.27
225100	16	T-116	782		706	881	1.25
225100	17	T-117	643		709	883	1.25
225100	18	T-118	553		783	891	1.14
225100	19	T-201	726		738	895	1.21
225100	20	T-202	883		739	873	1.18
225100	21	T-203	858		735	879	1.20
225100	22	T-204	758		743	874	1.18
225100	23	T-205	659		708	897	1.27
225100	24	T-206	882		710	883	1.24
225100	25	T-207	627		692	904	1.31

SDG	Lab ID	Client Sample No.	Sample Media	Batch	Pressure, torr Initial	Final	Can Factor
225100	26	T-208	791		709	890	1.26
225100	27	T-209	778		682	887	1.30
225100	28	T-210	714		695	882	1.27
225100	29	T-211	629		685	881	1.29
225100	30	T-212	502		687	930	1.35
225100	31	T-213	712		678	905	1.33
225100	32	T-214	610		786	875	1.11
225100	33	T-215	751		677	874	1.29
225100	34	T-216	896		632	874	1.38
225100	35	T-217	634		693	881	1.27
225100	36	T-218	698		692	877	1.27
225100	37	T-301	638		738	879	1.19
225100	38	T-302	857		734	872	1.19
225100	39	T-303	552		727	877	1.21
225100	40	T-304	529		731	878	1.20
225100	41	T-305	660		709	871	1.23
225100	42	T-306	859		722	874	1.21
225100	43	T-307	636		720	878	1.22
225100	44	T-308	661		717	875	1.22
225100	45	T-309	579		726	877	1.21
225100	46	T-310	771		679	874	1.29
225100	47	T-311	605		680	873	1.28
225100	48	T-312	990		689	913	1.33
225100	49	T-313	549		695	872	1.25
225100	50	T-314	784		701	876	1.25

Laboratory Case Narrative

EAS SDG Number: 225100 **Project Number:** 17807

Client: C.E. Schmidt

The Laboratory Case Narrative for the SDG is below. The Chain of Custody form(s) follow the Laboratory Case Narrative.

Sample Control Narrative

The samples were all received in good condition and with proper preservation.

Analytical Methods

The methods used for sample analysis are listed on the Analytyical Report header, and have been modified as described in the EAS Quality Manual..

Case Narrative

QC Narrative

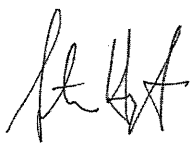
All analyses met EAS method criteria as defined in the Quality Manual, except as noted in the report or QC reports with data qualifiers.

Subcontract Narrative

No sample analysis was subcontracted for this project

Laboratory Certification

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness other than the condition(s) noted above. The Laboratory Report is property of EAS and its client. The entire report has been reviewed and approved.



Date Approved: 4/15/2025

Steven D. Hoyt, Ph.D.
Environmental Analytical Service
Laboratory Director

003817 of 004929

CE Schmidt, PhD, Environmental Consultant

225100

TO-15 Day 1

Chain of Custody Record

Form Serial Number **CES F1-02106**	For Information Regarding These Samples Please Contact: **Dr. Charles E. Schmidt** 19200 Live Oak Road, Red Bluff, CA 96080 530-529-4256 Cell: 530-200-2473 E-Mail: SCHMIDTCE@aol.com
Client Name ***SCS*** ***Chiquita Canyon Landfill***	
Project Manager ***Pat Sullivan***	
Requested Completion Date	

Client Address and Phone Number
3900 Kilroy Airport Way, Suite 100
Long Beach, CA 90806 562-743-7895

Laboratory Name
EAS 17807

Laboratory Address
173 Cross Street
San Luis Obispo, CA 93401

Laboratory Phone
805-781-3585

Laboratory Contact
Dr. Steve Hoyt
stevehoyt@easlab.com

Station Number	Date	Time	COMP	GRAB	Sample ID Number	Can ID Number	# OF CONTAINERS	Sample Container: Vial	Sample Container: Can	Sample Container: Tube	Analysis Requested: TO-12 FID (TNMHC)	TO-14 FID (See back)	TO-15 (List on back)	Fixed gases (List on back)		Can Pressure In (Inches Hg)	Can Pressure Out (Inches	Remarks
	3/19/2025	840		x	T - 101	426	1		x		x	x	x	x		-29	0	01
	3/19/2025	856		x	T - 102	615	1		x		x	x	x	x		-29	0	02
	3/19/2025	914		x	T - 103	881	1		x		x	x	x	x		-29	0	03
	3/19/2025	937		x	T - 104	860	1		x		x	x	x	x		-29	0	04
	3/19/2025	1026		x	T - 105	685	1		x		x	x	x	x		-29	0	05
	3/19/2025	1022		x	T - 106	621	1		x		x	x	x	x		-29	0	06
	3/19/2025	1022		x	T - 107	644	1		x		x	x	x	x		-29	0	07
	3/19/2025	1030		x	T - 108	556	1		x		x	x	x	x		-29	0	08
	3/19/2025	1125		x	T - 109	654	1		x		x	x	x	x		-29	0	09
	3/19/2025	1232		x	T - 110	857	1		x		x	x	x	x		-29	0	10
	3/19/2025	1138		x	T - 111	504	1		x		x	x	x	x		-29	0	11
	3/19/2025	1131		x	T - 112	631	1		x		x	x	x	x		-29	0	12
	3/19/2025	1305		x	T - 113	690	1		x		x	x	x	x		-29	0	13
	3/19/2025	1311		x	T - 114	645	1		x		x	x	x	x		-29	0	14
	3/19/2025	1253		x	T - 115	654/654	1		x		x	x	x	x		-29	0	15
	3/19/2025	1303		x	T - 116	782	1		x		x	x	x	x		-29	0	16
	3/19/2025	1303		x	T - 117	643	1		x		x	x	x	x		-29	0	17
	3/19/2025	1325		x	T - 118	553	1		x		x	x	x	x		-29	0	18

Sampler: CESCHMIDT	Date/Time: 3/21/25 1130	Relinquished by: CESCHMIDT	Date/Time: 3/21/25 1130
Recieved by: [illegible]	Date/Time	Relinquished by	Date/Time
Recieved by	Date/Time	Relinquished by	Date/Time
Recieved by Laboratory	Date/Time: 3/21/2025 1430	Sample Shipped Via: UPS FEDEX BUS Other	
Remarks	**Do Not Pressurize with Helium**		

HAZWRAP/NEESA Y N
QC Level 1 2 3
COC
Ana Req
Cust Seal
Sample Condition

CE Schmidt, PhD, Environmental Consultant

Chain of Custody Record

22510 D

TO-15 Day 2

Form Serial Number: CES F1-02106	For Information Regarding These Samples Please Contact:
Client Name: *SCS*	**Dr. Charles E. Schmidt**
Chiquita Canyon Landfill	19200 Live Oak Road, Red Bluff, CA 96080
Project Manager: *Pat Sullivan*	530-529-4256 Cell: 530-200-2473
Requested Completion Date	E-Mail: SCHMIDTCE@aol.com

Client Address and Phone Number: *3900 Kilroy Airport Way, Suite 100, Long Beach, CA 90806 562-743-7895*

Laboratory Name: *EAS* 17807

Laboratory Address: *173 Cross Street, San Luis Obispo, CA 93401*

Laboratory Phone: *805-781-3585*

Laboratory Contact: *Dr. Steve Hoyt* *stevehoyt@easlab.com*

Station Number	Date	Time	COMP	GRAB	Sample ID Number	Can ID Number	# OF CONTAINERS	Sample Container: Vial	Can	Tube	Analysis Requested: TO-12 FID (TNMHC)	TO-14 FID (See back)	TO-15 (List on back)	Fixed gases (/List on back)		Can Pressure In (inches Hg)	Can Pressure Out (inches	Remarks
	3/20/2025	823		x	T - 201	126	1		x		x	x	x	x		-29	0	19
	3/20/2025	838		x	T - 202	883	1		x		x	x	x	x		-29	0	20
	3/20/2025	833		x	T - 203	858	1		x		x	x	x	x		-29	0	21
	3/20/2025	827		x	T - 204	158	1		x		x	x	x	x		-29	0	22
	3/20/2025	1000		x	T - 205	259	1		x		x	x	x	x		-29	0	23
	3/20/2025	955		x	T - 206	882	1		x		x	x	x	x		-29	0	24
	3/20/2025	1005		x	T - 207	627	1		x		x	x	x	x		-29	0	25
	3/20/2025	1008		x	T - 208	191	1		x		x	x	x	x		-29	0	26
	3/20/2025	1121		x	T - 209	708	1		x		x	x	x	x		-29	0	27
	3/20/2025	1121		x	T - 210	714	1		x		x	x	x	x		-29	0	28
	3/20/2025	1126		x	T - 211	629	1		x		x	x	x	x		-29	0	29
	3/20/2025	1130		x	T - 212	502	1		x		x	x	x	x		-29	0	30
	3/20/2025	1130		x	T - 213	712	1		x		x	x	x	x		-29	0	31
	3/20/2025	1257		x	T - 214	610	1		x		x	x	x	x		-29	0	32
	11	1224	x		T 215	751	1		x		x	x	x	x		-29	0	33
	11	1246	x		T 216	896	1		x		x	x	x	x		-29	0	34
	11	1248	x		T 217	627	1		x		x	x	x	x		-29	0	35
	11	1242	x		T 218	698	1		x		x	x	x	x		-29	0	36

Sampler: CE SCHMIDT	Date/Time: 3/21/25 1130	Relinquished by: CE SCHMIDT	Date/Time: 3/21/25 1130
Recieved by: CAS	Date/Time	Relinquished by	Date/Time
Recieved by	Date/Time	Relinquished by	Date/Time
Recieved by Laboratory: [illegible]	Date/Time: 3/21/2025 1430	Sample Shipped Via: UPS FEDEX BUS Other	
Remarks: 0	**Do Not Pressurize with Helium**		

HAZWRAP/NEESA Y N

QC Level 1 2 3

COC

Ana Req

Cust Seal

Sample Condition

CE Schmidt, PhD, Environmental Consultant 225100 **TO-15 Day 3**

Chain of Custody Record

| | | |

Section 2 Quality Control

This section contains the QC Reports for each Daily Analytical Batch (DAB) which make up the Sample Delivery Group (SDG). It also contains either the EAS or Project QC criteria that was used for the DAB. The methods used for this project have been modified from the original method. The modifications include modifications to the QC for the method. This is either because the method did not specify certain aspects of the QC, the method was originally designed for a different matrix, or additional compounds were added to the target list of the method which required modified QC. The QC modifications used by EAS follows those used by other air testing laboratories.

The Daily Analytical Batch data was checked against the QC criteria for the method. Any deviations from the QC criteria are listed on the QC Reports for each DAB, which are summarized in this section and are given in more detail in Section 4 which has the Quantitation Reports and Calculations for the Samples, Method Blank, Lab Control Spikes, as well as the Initial Calibration and Continuing Calibration. This section contains the following:

Section Contents

Project QC Critera

DAB Quality Control Reports

- Method Blank
- Laboratory Control Spike
- Laboratory Control Duplicate
- Continuing Calibration

Quality Control Report

EAS SDG Number: 225100

Project Number: 17807

QC Narrative

Samples were anlayzed in a daily analytical batch (DAB) designated by a QC batch number, and were analyzed using EAS standard laboratory QC specified in the EAS Quality Manual which may be different then the referrenced agency method. Any deviations from the EAS QC criteria are flagged in the Laboratory Control Reports or in the sample Analytical Reports.

Standard Laboratory QC Report

Unless project specific QC was requested, this Section containing the standard laboratory QC (Level 2) supplied with the Analytical Reports. Each sample is analyzed in a Daily Analytical Batch (DAB) which includes the method blank, a laboratory control spike (LCS) and a laboratory control duplicate (LCD). A Daily Analytical Batch QC report is supplied for each method requested.

Method Blank

The method blank is a laboratory generated sample which assesses the degree to which laboratory operations cause a false positive. The target analytes in the analytical reports for a daily analytical batch are "B" flagged if their concentrations are present in the Method Blank above the RL, unless the result is greater then ten times the blank value..

Laboratory Control Spike

A laboratory control spike is a well characterized matrix similar to the sample which is spiked and run in duplicate with each Daily Analytical Batch. The laboratory control spike results are reported as a percent recovery. The QC Criteria for the control spike is listed in the Laboratory Control Report. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report. The control spike contains an abbreviated list of compounds in the method, and may contain compounds not on the target list for the specified report.

Laboratory Control Duplicate

The laboratory control duplicate is a duplicate analysis of the laboratory control spike, a standard, or a sample depending on the method. The results are reported as a relative percent difference (RPD). The criteria for the duplicate is in the Laboratory Control Report for the Daily Analytical Batch. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report.

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: LABQC
Laboratory Number: B03245B

File Name: B03245B
Description: METHOD BLANK
Can/Tube#:
QC_Batch: 032425-GCO

Date Sampled:
Time:
Date Analyzed: 03/24/25
Time: 13:24
Can Dilution Factor: 1.00

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.030	0.090	ND	300	900	ND	ND
7782-44-7	Oxygen	0.050	0.150	ND	500	1,500	ND	ND
74-82-8	Methane	0.010	0.030	ND	100	300	ND	ND
630-08-0	Carbon Monoxide	0.010	0.030	ND	100	300	ND	ND
124-38-9	Carbon Dioxide	0.010	0.030	ND	100	300	ND	ND

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

ASTM D 1945 GC/TCD
Analytical Method: D1945

Date: 03/24/25
QC_Batch: 032425-GCO

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
7782-44-7	Oxygen	101		98		70	130	3	25	
7727-37-9	Nitrogen	110		98		70	130	12	25	
74-82-8	Methane	100		101		70	130	1	25	
630-08-0	Carbon Monoxide	100		100		70	130	1	25	
124-38-9	Carbon Dioxide	96		96		70	130	0	25	

Section 3 Analytical Methods

This section has information on the analytial methods and a copy of the analytical reports for the Sample Delivery Group (SDG) listed below. The reports are organized in order of the EAS Laboratory Number.

Section Contents

Analytical Method Description(s)

Analytical Reports

Analytical Reports

EAS SDG Number: 225100

Project Number: 17807

The following pages contain the certified Analytical Reports for the samples submitted in the Sample Delivery Group (SDG) and are in order of the EAS Lab ID number. All of the analytical methods used are modifications of the published methods. Procedural method modifications, QC modifications, QC Criteria modifications, target lists, definitions of detection limits, and flags are all explained in detail in the EAS Quality Manual. The Analytical Report has columns for the method detection limit (MDL), the reporting limit (RL), and the Amount. The Amount is the concentration of the compound in the sample. The report usually has the results reported with two commonly used units. The MDL, RL, and Amount are adjusted for the canister dilution factor and any dilution caused by sample matrix effects.

NELAC CERTIFICATION

EAS is accredited by the National Environmental Laboratory Accreditation (NELAC) with the Florida Department of Health, one of the NELAC certifying states. EAS is certified for the EPA TO-15, EPA TO-11 and EPA TO-4 methods. A list of accredited compounds is available on request.

DETECTION LIMITS

MDL: The MDL is lowest concentration that can be measured to be statistically above the noise level and is determined using the EPA 2016 method which uses the standard deviation of replicate measurements made over time. The method also incorporates systematic instrumentation blank levels. See Quality Manual for detailed explanation.

RL: The reporting limit (RL) is the lowest concentration that can be reliably reported for each compound that meets the QC Criteria for the method, background levels, or project specific considerations. The QC criteria level for the method blank is to be less then the RL See Quality Manual for more information.

DATA FLAGS

In the standard report, if a compound is not detected above the method detection limit, a "ND" is in the Amount column. The flag column is used for both the not detect flag and for any data flags.

B - This compound was detected in the batch method blank above the reporting limit and is greater then one tenth the amount in the sample.

E - This compound exceeds the calibration range for this sample volume.

J - The amount reported is estimated because it was below the RL and could be below the lowest calibration point, have higher uncertainty, or could be the result of system background

SIGNIFICANT FIGURES

Based on the uncertainty in the methods, the numbers on the Analytical Reports should be used with only two significant digits. Additional significant figures are reported for ease of use and to avoid rounding errors when used in further calculations.

UNITS

PPBV or PPMV: Parts-per-billion (or million) by volume is a mole (volume) ratio of the moles of analyte divided by the moles of air (gas). This is the primary unit used to report air or gas concentrations and is independent of temperature and pressure.

UG/M3 OR MG/M3: The reported result was calculated based on 1 atm pressure and a temperature of 25C. The conversion from PPBV is: UG/M3 = PPBV x MW/24.46 where 24.26 is the gas constant and MW is the Compounds Molecular Weight (sometimes called Formula Weight)

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 01

File Name: 2510001A
Description: T-101
Can/Tube#: 668
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 8:40
Date Analyzed: 03/24/25 **Time:** 13:28
Can Dilution Factor: 1.20

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.13	361	1,084	1,281	
7782-44-7	Oxygen	0.060	0.180	12.62	602	1,807	126,168	
630-08-0	Carbon Monoxide	0.012	0.036	ND	120	361	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.08	120	361	762	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 02

File Name: 2510002A
Description: T-102
Can/Tube#: 895
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 8:50
Date Analyzed: 03/24/25 **Time:** 13:35
Can Dilution Factor: 1.24

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.13	373	1,119	1,312	
7782-44-7	Oxygen	0.062	0.186	12.46	622	1,866	124,594	
630-08-0	Carbon Monoxide	0.012	0.036	ND	124	373	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.08	124	373	823	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 03

File Name: 2510003A
Description: T-103
Can/Tube#: 881
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 8:44
Date Analyzed: 03/24/25 **Time:** 13:44
Can Dilution Factor: 1.20

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.07	359	1,076	740	J
7782-44-7	Oxygen	0.060	0.180	12.64	598	1,793	126,449	
630-08-0	Carbon Monoxide	0.012	0.036	ND	120	359	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.09	120	359	867	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 04

File Name: 2510004A
Description: T-104
Can/Tube#: 860
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 8:37
Date Analyzed: 03/24/25 **Time:** 13:48
Can Dilution Factor: 1.31

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.039	0.117	0.14	393	1,179	1,427	
7782-44-7	Oxygen	0.065	0.195	12.44	655	1,965	124,365	
630-08-0	Carbon Monoxide	0.013	0.039	ND	131	393	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.10	131	393	1,028	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 05

File Name: 2510005A
Description: T-105
Can/Tube#: 685
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 10:16
Date Analyzed: 03/24/25 **Time:** 13:56
Can Dilution Factor: 1.23

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.07	368	1,104	692	J
7782-44-7	Oxygen	0.061	0.183	12.58	613	1,840	125,828	
630-08-0	Carbon Monoxide	0.012	0.036	ND	123	368	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.08	123	368	778	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 06

File Name: 2510006A
Description: T-106
Can/Tube#: 621
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 10:22
Date Analyzed: 03/24/25 **Time:** 14:01
Can Dilution Factor: 1.23

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.04	368	1,103	368	J
7782-44-7	Oxygen	0.061	0.183	12.66	613	1,838	126,643	
630-08-0	Carbon Monoxide	0.012	0.036	ND	123	368	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.07	123	368	709	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 07

File Name: 2510007A
Description: T-107
Can/Tube#: 644
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 10:22
Date Analyzed: 03/24/25 **Time:** 14:05
Can Dilution Factor: 1.23

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.11	370	1,110	1,085	J
7782-44-7	Oxygen	0.062	0.186	12.60	617	1,850	125,984	
630-08-0	Carbon Monoxide	0.012	0.036	ND	123	370	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.06	123	370	577	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 08

File Name: 2510008A
Description: T-108
Can/Tube#: 556
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 10:30
Date Analyzed: 03/24/25 **Time:** 14:10
Can Dilution Factor: 1.26

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.05	379	1,136	548	J
7782-44-7	Oxygen	0.063	0.189	4.76	631	1,893	47,643	
630-08-0	Carbon Monoxide	0.013	0.039	ND	126	379	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	21.82	126	379	218,240	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 09

File Name: 2510009A
Description: T-109
Can/Tube#: 694
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 11:25
Date Analyzed: 03/24/25 **Time:** 14:15
Can Dilution Factor: 1.30

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.039	0.117	0.05	390	1,169	464	J
7782-44-7	Oxygen	0.065	0.195	12.52	649	1,948	125,160	
630-08-0	Carbon Monoxide	0.013	0.039	ND	130	390	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.08	130	390	824	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 10

File Name: 2510010A
Description: T-110
Can/Tube#: 857
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 11:32
Date Analyzed: 03/24/25 **Time:** 14:20
Can Dilution Factor: 1.27

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.09	382	1,147	852	J
7782-44-7	Oxygen	0.064	0.192	12.57	637	1,912	125,667	
630-08-0	Carbon Monoxide	0.013	0.039	ND	127	382	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.08	127	382	778	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 11

File Name: 2510011A
Description: T-111
Can/Tube#: 504
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 11:32
Date Analyzed: 03/24/25 **Time:** 14:25
Can Dilution Factor: 1.25

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.14	375	1,125	1,404	
7782-44-7	Oxygen	0.062	0.186	12.64	625	1,874	126,435	
630-08-0	Carbon Monoxide	0.012	0.036	ND	125	375	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.04	125	375	374	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 12

File Name: 2510012A
Description: T-112
Can/Tube#: 631
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 11:38
Date Analyzed: 03/24/25 **Time:** 14:30
Can Dilution Factor: 1.24

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.20	371	1,112	2,031	
7782-44-7	Oxygen	0.062	0.186	12.69	618	1,853	126,859	
630-08-0	Carbon Monoxide	0.012	0.036	ND	124	371	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.03	124	371	345	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 13

File Name: 2510013A
Description: T-113
Can/Tube#: 690
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 13:05
Date Analyzed: 03/24/25 **Time:** 14:47
Can Dilution Factor: 1.23

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.08	370	1,111	766	J
7782-44-7	Oxygen	0.062	0.186	12.64	617	1,851	126,393	
630-08-0	Carbon Monoxide	0.012	0.036	ND	123	370	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.06	123	370	624	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 14

File Name: 2510014A
Description: T-114
Can/Tube#: 645
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 13:11
Date Analyzed: 03/24/25 **Time:** 14:52
Can Dilution Factor: 1.27

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.18	380	1,140	1,818	
7782-44-7	Oxygen	0.063	0.189	12.47	633	1,900	124,711	
630-08-0	Carbon Monoxide	0.013	0.039	ND	127	380	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.04	127	380	354	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 15

File Name: 2510015A
Description: T-115
Can/Tube#: 654
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 12:53
Date Analyzed: 03/24/25 **Time:** 14:56
Can Dilution Factor: 1.27

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.37	380	1,139	3,672	
7782-44-7	Oxygen	0.063	0.189	12.45	633	1,899	124,490	
630-08-0	Carbon Monoxide	0.013	0.039	ND	127	380	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.02	127	380	206	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 16

File Name: 2510016A
Description: T-116
Can/Tube#: 782
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 13:03
Date Analyzed: 03/24/25 **Time:** 15:04
Can Dilution Factor: 1.48

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.044	0.132	0.44	444	1,331	4,403	
7782-44-7	Oxygen	0.074	0.222	12.38	740	2,219	123,799	
630-08-0	Carbon Monoxide	0.015	0.045	ND	148	444	ND	ND
124-38-9	Carbon Dioxide	0.015	0.045	ND	148	444	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 17

File Name: 2510017A
Description: T-117
Can/Tube#: 643
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 13:03
Date Analyzed: 03/24/25 **Time:** 15:10
Can Dilution Factor: 1.25

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.47	374	1,121	4,705	
7782-44-7	Oxygen	0.062	0.186	12.51	623	1,868	125,057	
630-08-0	Carbon Monoxide	0.012	0.036	ND	125	374	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	ND	125	374	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 18

File Name: 2510018A
Description: T-118
Can/Tube#: 553
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 13:25
Date Analyzed: 03/24/25 **Time:** 15:14
Can Dilution Factor: 1.14

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.034	0.102	0.36	341	1,024	3,582	
7782-44-7	Oxygen	0.057	0.171	11.93	569	1,707	119,269	
630-08-0	Carbon Monoxide	0.011	0.033	ND	114	341	ND	ND
124-38-9	Carbon Dioxide	0.011	0.033	ND	114	341	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 19

File Name: 2510019A
Description: T-201
Can/Tube#: 726
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 8:23
Date Analyzed: 03/24/25 **Time:** 15:19
Can Dilution Factor: 1.21

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.06	364	1,091	600	J
7782-44-7	Oxygen	0.061	0.183	13.43	606	1,819	134,254	
630-08-0	Carbon Monoxide	0.012	0.036	ND	121	364	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.12	121	364	1,216	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 20

File Name: 2510020A
Description: T-202
Can/Tube#: 883
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 8:38
Date Analyzed: 03/24/25 **Time:** 15:24
Can Dilution Factor: 1.18

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.035	0.105	0.09	354	1,063	941	J
7782-44-7	Oxygen	0.059	0.177	12.72	591	1,772	127,200	
630-08-0	Carbon Monoxide	0.012	0.036	ND	118	354	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.10	118	354	967	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 21

File Name: 2510021A
Description: T-203
Can/Tube#: 858
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 8:33
Date Analyzed: 03/24/25 **Time:** 15:42
Can Dilution Factor: 1.20

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.35	359	1,076	3,530	
7782-44-7	Oxygen	0.060	0.180	12.67	598	1,794	126,654	
630-08-0	Carbon Monoxide	0.012	0.036	ND	120	359	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.43	120	359	4,269	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 22

File Name: 2510022A
Description: T-204
Can/Tube#: 758
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 8:29
Date Analyzed: 03/24/25 **Time:** 15:49
Can Dilution Factor: 1.18

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.035	0.105	0.36	353	1,059	3,572	
7782-44-7	Oxygen	0.059	0.177	12.78	588	1,764	127,828	
630-08-0	Carbon Monoxide	0.012	0.036	ND	118	353	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.10	118	353	979	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 23

File Name: 2510023A
Description: T-205
Can/Tube#: 659
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 10:00
Date Analyzed: 03/24/25 **Time:** 16:04
Can Dilution Factor: 1.27

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.07	380	1,140	736	J
7782-44-7	Oxygen	0.063	0.189	12.67	633	1,900	126,680	
630-08-0	Carbon Monoxide	0.013	0.039	ND	127	380	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.07	127	380	668	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 24

File Name: 2510024A
Description: T-206
Can/Tube#: 882
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 9:55
Date Analyzed: 03/24/25 **Time:** 16:18
Can Dilution Factor: 1.24

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.12	373	1,119	1,216	
7782-44-7	Oxygen	0.062	0.186	12.53	622	1,865	125,296	
630-08-0	Carbon Monoxide	0.012	0.036	ND	124	373	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.74	124	373	7,449	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 25

File Name: 2510025A
Description: T-207
Can/Tube#: 627
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 10:05
Date Analyzed: 03/24/25 **Time:** 16:26
Can Dilution Factor: 1.31

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.039	0.117	0.09	392	1,176	901	J
7782-44-7	Oxygen	0.065	0.195	12.53	653	1,960	125,345	
630-08-0	Carbon Monoxide	0.013	0.039	ND	131	392	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.13	131	392	1,328	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 26

File Name: 2510026A
Description: T-208
Can/Tube#: 791
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 10:08
Date Analyzed: 03/24/25 **Time:** 16:42
Can Dilution Factor: 1.26

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.07	377	1,130	653	J
7782-44-7	Oxygen	0.063	0.189	12.68	628	1,883	126,805	
630-08-0	Carbon Monoxide	0.013	0.039	ND	126	377	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.18	126	377	1,839	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 27

File Name: 2510027A
Description: T-209
Can/Tube#: 778
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 11:21
Date Analyzed: 03/24/25 **Time:** 16:47
Can Dilution Factor: 1.30

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.039	0.117	0.30	390	1,171	3,038	
7782-44-7	Oxygen	0.065	0.195	12.57	650	1,951	125,666	
630-08-0	Carbon Monoxide	0.013	0.039	ND	130	390	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.03	130	390	340	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 28

File Name: 2510028A
Description: T-210
Can/Tube#: 714
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 11:21
Date Analyzed: 03/24/25 **Time:** 16:54
Can Dilution Factor: 1.27

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.19	381	1,142	1,895	
7782-44-7	Oxygen	0.063	0.189	12.73	635	1,904	127,283	
630-08-0	Carbon Monoxide	0.013	0.039	ND	127	381	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.05	127	381	488	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 29

File Name: 2510029A
Description: T-211
Can/Tube#: 629
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 11:26
Date Analyzed: 03/24/25 **Time:** 17:07
Can Dilution Factor: 1.29

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.039	0.117	0.24	386	1,158	2,428	
7782-44-7	Oxygen	0.064	0.192	12.62	643	1,929	126,250	
630-08-0	Carbon Monoxide	0.013	0.039	ND	129	386	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.07	129	386	650	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 30

File Name: 2510030A
Description: T-212
Can/Tube#: 502
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 11:30
Date Analyzed: 03/24/25 **Time:** 17:23
Can Dilution Factor: 1.35

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.041	0.123	0.28	406	1,218	2,815	
7782-44-7	Oxygen	0.068	0.204	12.49	677	2,031	124,880	
630-08-0	Carbon Monoxide	0.014	0.042	ND	135	406	ND	ND
124-38-9	Carbon Dioxide	0.014	0.042	0.05	135	406	486	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 31

File Name: 2510031A
Description: T-213
Can/Tube#: 712
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 11:30
Date Analyzed: 03/24/25 **Time:** 17:32
Can Dilution Factor: 1.33

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.040	0.120	0.32	400	1,201	3,186	
7782-44-7	Oxygen	0.067	0.201	12.60	667	2,002	126,048	
630-08-0	Carbon Monoxide	0.013	0.039	ND	133	400	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.05	133	400	503	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 32

File Name: 2510032A
Description: T-214
Can/Tube#: 610
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 12:57
Date Analyzed: 03/24/25 **Time:** 17:37
Can Dilution Factor: 1.11

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.033	0.099	0.36	334	1,002	3,614	
7782-44-7	Oxygen	0.056	0.168	13.16	557	1,670	131,554	
630-08-0	Carbon Monoxide	0.011	0.033	ND	111	334	ND	ND
124-38-9	Carbon Dioxide	0.011	0.033	ND	111	334	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 33

File Name: 2510033A
Description: T-215
Can/Tube#: 751
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 12:44
Date Analyzed: 03/24/25 **Time:** 17:45
Can Dilution Factor: 1.29

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.039	0.117	0.15	387	1,162	1,457	
7782-44-7	Oxygen	0.065	0.195	12.53	645	1,936	125,310	
630-08-0	Carbon Monoxide	0.013	0.039	ND	129	387	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.11	129	387	1,054	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 34

File Name: 2510034A
Description: T-216
Can/Tube#: 896
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 12:46
Date Analyzed: 03/24/25 **Time:** 17:49
Can Dilution Factor: 1.38

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.041	0.123	0.36	415	1,245	3,621	
7782-44-7	Oxygen	0.069	0.207	12.27	691	2,074	122,732	
630-08-0	Carbon Monoxide	0.014	0.042	ND	138	415	ND	ND
124-38-9	Carbon Dioxide	0.014	0.042	0.03	138	415	310	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 35

File Name: 2510035A
Description: T-217
Can/Tube#: 634
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 12:48
Date Analyzed: 03/24/25 **Time:** 18:08
Can Dilution Factor: 1.27

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.28	381	1,144	2,767	
7782-44-7	Oxygen	0.064	0.192	12.49	636	1,907	124,908	
630-08-0	Carbon Monoxide	0.013	0.039	ND	127	381	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.08	127	381	769	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 36

File Name: 2510036A
Description: T-218
Can/Tube#: 698
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 12:42
Date Analyzed: 03/24/25 **Time:** 18:12
Can Dilution Factor: 1.27

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.24	380	1,141	2,405	
7782-44-7	Oxygen	0.063	0.189	1.16	634	1,901	11,594	
630-08-0	Carbon Monoxide	0.013	0.039	ND	127	380	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	2.11	127	380	21,098	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 37

File Name: 2510037A
Description: T-301
Can/Tube#: 638
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 7:58
Date Analyzed: 03/24/25 **Time:** 18:27
Can Dilution Factor: 1.19

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.29	356	1,069	2,856	
7782-44-7	Oxygen	0.059	0.177	12.89	594	1,782	128,909	
630-08-0	Carbon Monoxide	0.012	0.036	ND	119	356	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.04	119	356	421	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 38

File Name: 2510038A
Description: T-302
Can/Tube#: 857
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 8:04
Date Analyzed: 03/24/25 **Time:** 18:17
Can Dilution Factor: 1.19

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.18	357	1,072	1,782	
7782-44-7	Oxygen	0.060	0.180	12.92	596	1,787	129,157	
630-08-0	Carbon Monoxide	0.012	0.036	ND	119	357	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.05	119	357	489	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 39

File Name: 2510039A
Description: T-303
Can/Tube#: 552
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 8:05
Date Analyzed: 03/24/25 **Time:** 19:08
Can Dilution Factor: 1.21

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.16	362	1,086	1,588	
7782-44-7	Oxygen	0.060	0.180	12.87	603	1,809	128,735	
630-08-0	Carbon Monoxide	0.012	0.036	ND	121	362	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.07	121	362	696	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 40

File Name: 2510040A
Description: T-304
Can/Tube#: 529
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 7:58
Date Analyzed: 03/24/25 **Time:** 19:03
Can Dilution Factor: 1.20

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.23	360	1,081	2,331	
7782-44-7	Oxygen	0.060	0.180	12.88	601	1,802	128,844	
630-08-0	Carbon Monoxide	0.012	0.036	ND	120	360	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.18	120	360	1,778	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 41

File Name: 2510041A
Description: T-305
Can/Tube#: 660
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 9:22
Date Analyzed: 03/24/25 **Time:** 19:30
Can Dilution Factor: 1.23

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.12	369	1,106	1,233	
7782-44-7	Oxygen	0.061	0.183	12.66	614	1,843	126,645	
630-08-0	Carbon Monoxide	0.012	0.036	ND	123	369	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.33	123	369	3,256	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 42

File Name: 2510042A
Description: T-306
Can/Tube#: 859
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 9:13
Date Analyzed: 03/24/25 **Time:** 19:34
Can Dilution Factor: 1.21

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.18	363	1,089	1,797	
7782-44-7	Oxygen	0.061	0.183	12.84	605	1,816	128,375	
630-08-0	Carbon Monoxide	0.012	0.036	ND	121	363	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.11	121	363	1,070	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 43

File Name: 2510043A
Description: T-307
Can/Tube#: 636
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 9:10
Date Analyzed: 03/24/25 **Time:** 19:56
Can Dilution Factor: 1.22

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.13	366	1,098	1,257	
7782-44-7	Oxygen	0.061	0.183	12.88	610	1,829	128,781	
630-08-0	Carbon Monoxide	0.012	0.036	ND	122	366	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.09	122	366	904	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 44

File Name: 2510044A
Description: T-308
Can/Tube#: 661
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 9:18
Date Analyzed: 03/24/25 **Time:** 20:05
Can Dilution Factor: 1.22

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.17	366	1,098	1,657	
7782-44-7	Oxygen	0.061	0.183	12.74	610	1,831	127,433	
630-08-0	Carbon Monoxide	0.012	0.036	ND	122	366	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.09	122	366	943	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 45

File Name: 2510045A
Description: T-309
Can/Tube#: 579
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 9:24
Date Analyzed: 03/24/25 **Time:** 20:17
Can Dilution Factor: 1.21

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.10	362	1,087	988	J
7782-44-7	Oxygen	0.060	0.180	12.98	604	1,812	129,803	
630-08-0	Carbon Monoxide	0.012	0.036	ND	121	362	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.07	121	362	725	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 46

File Name: 2510046A
Description: T-310
Can/Tube#: 771
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 10:48
Date Analyzed: 03/24/25 **Time:** 20:28
Can Dilution Factor: 1.29

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.039	0.117	0.45	386	1,158	4,484	
7782-44-7	Oxygen	0.064	0.192	12.78	644	1,931	127,788	
630-08-0	Carbon Monoxide	0.013	0.039	ND	129	386	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.03	129	386	347	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 47

File Name: 2510047A
Description: T-311
Can/Tube#: 605
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 10:35
Date Analyzed: 03/24/25 **Time:** 20:50
Can Dilution Factor: 1.28

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.039	0.117	0.07	385	1,155	703	J
7782-44-7	Oxygen	0.064	0.192	12.73	642	1,926	127,310	
630-08-0	Carbon Monoxide	0.013	0.039	ND	128	385	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.08	128	385	753	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 48

File Name: 2510048A
Description: T-312
Can/Tube#: 990
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 10:30
Date Analyzed: 03/24/25 **Time:** 20:55
Can Dilution Factor: 1.33

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.040	0.120	0.08	398	1,193	800	J
7782-44-7	Oxygen	0.066	0.198	12.65	663	1,988	126,477	
630-08-0	Carbon Monoxide	0.013	0.039	ND	133	398	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.12	133	398	1,237	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 49

File Name: 2510049A
Description: T-313
Can/Tube#: 549
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 10:31
Date Analyzed: 03/24/25 **Time:** 21:00
Can Dilution Factor: 1.25

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.06	376	1,129	575	J
7782-44-7	Oxygen	0.063	0.189	12.77	627	1,882	127,652	
630-08-0	Carbon Monoxide	0.013	0.039	ND	125	376	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.08	125	376	758	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 50

File Name: 2510050A
Description: T-314
Can/Tube#: 784
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 10:38
Date Analyzed: 03/24/25 **Time:** 21:05
Can Dilution Factor: 1.25

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.06	375	1,125	638	J
7782-44-7	Oxygen	0.062	0.186	12.68	625	1,874	126,847	
630-08-0	Carbon Monoxide	0.012	0.036	ND	125	375	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.14	125	375	1,449	

Section 4 Data Package

This section contains the Data Packages for the samples, blanks, and calibration. Each package has the analytical report, quantitation report, calculation sheet, instrument quantation report, and chromatograms.

Items provided in Data Package:

DAB Run Logs and Preparation Logs

Sample Packages

Blank Package for each Daily Analytical Batch

Quality Control Reports, LCS,LCD for each Daily Analytical Batch

Continuing Calibration Package for Each Daily Analytical Batch

Initial Calibration Data

DAB Run Logs and Preparation Logs

Samples are analyzed in a Daily Analytical Batch (DAB) on an instrument.
The DAB identifier is on each analytial report in the field called QC Batch.
This section contains the DAB Log Sheets and Preparation Logs.

Index

DAB Run Logs
Other Log Sheets

Daily Analytical Batch

DAB: 032425-GCO

GCO

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
032425-GCO	01	GCO	STD			C03245A		ST63400		0.5	DA		ASTM194			
032425-GCO	02	GCO	STD			C03245B		ST63400		0.5	DA		ASTM194			
032425-GCO	03	GCO	STD			C03245C		ST63400		0.5	DA		ASTM194			
032425-GCO	04	GCO	STD			C03245D		ST63400		0.5	DA		ASTM194			
032425-GCO	05	GCO	SPK			QC03245A		ST61561		0.5	DA		ASTM194			
032425-GCO	06	GCO	SPK			QC03245B		ST61561		0.5	DA		ASTM194			
032425-GCO	07	GCO	SPK			QC03245C		ST61561		0.5	DA		ASTM194			
032425-GCO	08	GCO	BLK			B03245A		METHOD BLANK		0.5	DA		ASTM194			
032425-GCO	09	GCO	BLK			B03245B		METHOD BLANK		0.5	DA		ASTM194			
032425-GCO	10	GCO	SA	225100	01	2510001A	668	T-101	SCHMIDT	0.5	DA		ASTM194			
032425-GCO	11	GCO	SA	225100	02	2510002A	895	T-102	SCHMIDT	0.5	DA		ASTM194			
032425-GCO	12	GCO	SA	225100	03	2510003A	881	T-103	SCHMIDT	0.5	DA		ASTM194			
032425-GCO	13	GCO	SA	225100	04	2510004A	860	T-104	SCHMIDT	0.5	DA		ASTM194			
032425-GCO	14	GCO	SA	225100	05	2510005A	685	T-105	SCHMIDT	0.5	DA		ASTM194			
032425-GCO	15	GCO	SA	225100	06	2510006A	621	T-106	SCHMIDT	0.5	DA		ASTM194			
032425-GCO	16	GCO	SA	225100	07	2510007A	644	T-107	SCHMIDT	0.5	DA		ASTM194			
032425-GCO	17	GCO	SA	225100	08	2510008A	556	T-108	SCHMIDT	0.5	DA		ASTM194			
032425-GCO	18	GCO	SA	225100	09	2510009A	694	T-109	SCHMIDT	0.5	DA		ASTM194			
032425-GCO	19	GCO	SA	225100	10	2510010A	837	T-110	SCHMIDT	0.5	DA		ASTM194			

REVIEWED

Daily Analytical Batch

DAB: 032425-GCO

GCO

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
032425-GCO	20	GCO	SA	225100	11	2510011A	504	T-111	SCHMIDT	0.5	DA		ASTM194			
032425-GCO	21	GCO	SA	225100	12	2510012A	631	T-112	SCHMIDT	0.5	DA		ASTM194			
032425-GCO	22	GCO	SA	225100	13	2510013A	690	T-113	SCHMIDT	0.5	DA		ASTM194			
032425-GCO	23	GCO	SA	225100	14	2510014A	645	T-114	SCHMIDT	0.5	DA		ASTM194			
032425-GCO	24	GCO	SA	225100	15	2510015A	654	T-115	SCHMIDT	0.5	DA		ASTM194			
032425-GCO	25	GCO	SA	225100	16	2510016A	782	T-116	SCHMIDT	0.5	DA		ASTM194			
032425-GCO	26	GCO	SA	225100	17	2510017A	643	T-117	SCHMIDT	0.5	DA		ASTM194			
032425-GCO	27	GCO	SA	225100	18	2510018A	553	T-118	SCHMIDT	0.5	DA		ASTM194			
032425-GCO	28	GCO	SA	225100	19	2510019A	726	T-201	SCHMIDT	0.5	DA		ASTM194			
032425-GCO	29	GCO	SA	225100	20	2510020A	883	T-202	SCHMIDT	0.5	DA		ASTM194			
032425-GCO	30	GCO	SA	225100	21	2510021A	858	T-203	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	31	GCO	SA	225100	22	2510022A	158	T-204	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	32	GCO	SA	225100	23	2510023A	659	T-205	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	33	GCO	SA	225100	24	2510024A	882	T-206	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	34	GCO	SA	225100	25	2510025A	627	T-207	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	35	GCO	SA	225100	26	2510026A	791	T-208	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	36	GCO	SA	225100	27	2510027A	778	T-209	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	37	GCO	SA	225100	28	2510028A	714	T-210	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	38	GCO	SA	225100	29	2510029A	629	T-211	SCHMIDT	0.5	LR		ASTM194			

REVIEWED

DAILY ANALYTICAL BATCH FORM

DAB 032425 - GC0

ANALYST REPORT

Method ASTM 1946 Chemist BA

	NA	Passed	Out
Instrument Tune	☑	☐	☐
GC/MS BFBTune	☑	☐	☐
Continuing Calibration	☐	☑	☐
Instrument Blank	☐	☑	☐
LCS	☐	☑	☐
LCD	☐	☑	☐

PASSING DAB NOTES:

OUT Narrative:

Analyst Certification

Out of Limits QC Approval

DATA PROCESSING

SDG 225100

Lab ID I-50

	Processed
Continuing Calibration	☑
Method Blank	☑
Samples	☑
LCS/LCD	☑

SAMPLES 21-50 DOUBLE INJECTED, NO INTERFERENCE w/ SAMPLE ANALYSIS

Data Processing Chemist Certification

☑ Ready for Review

DATA REVIEW

Data Review Chemist Certification

☐ Reviewed

DAILY ANALYTICAL BATCH FORM

DAB 032575 - GCO

ANALYST REPORT

Method A57/946H Chemist

	NA	Passed	Out
Instrument Tune	☑	☐	☐
GC/MS BFBTune	☑	☐	☐
Continuing Calibration	☐	☑	☐
Instrument Blank	☐	☑	☐
LCS	☐	☑	☐
LCD	☐	☑	☐

PASSING DAB NOTES:

OUT Narrative:

Analyst Certification

Out of Limits QC Approval

DATA PROCESSING

SDG 275100

Lab ID 1-50

	Processed
Continuing Calibration	☑
Method Blank	☑
Samples	☑
LCS/LCD	☑

Data Processing Chemist Certification

☑ Ready for Review

DATA REVIEW

Data Review Chemist Certification

☐ Reviewed

Daily Analytical Batch

DAB: 032425-GCO

GCO

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
032425-GCO	39	GCO	SA	225100	30	2510030A	502	T-212	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	40	GCO	SA	225100	31	2510031A	712	T-213	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	41	GCO	SA	225100	32	2510032A	610	T-214	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	42	GCO	SA	225100	33	2510033A	751	T-215	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	43	GCO	SA	225100	34	2510034A	896	T-216	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	44	GCO	SA	225100	35	2510035A	634	T-217	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	45	GCO	SA	225100	36	2510036A	698	T-218	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	46	GCO	SA	225100	37	2510037A	857	T-302	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	47	GCO	SA	225100	38	2510038A	638	T-301	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	48	GCO	SA	225100	39	2510039A	529	T-304	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	49	GCO	SA	225100	40	2510040A	552	T-303	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	50	GCO	SA	225100	41	2510041A	660	T-305	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	51	GCO	SA	225100	42	2510042A	859	T-306	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	52	GCO	SA	225100	43	2510043A	636	T-307	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	53	GCO	SA	225100	44	2510044A	661	T-308	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	54	GCO	SA	225100	45	2510045A	539	T-309	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	55	GCO	SA	225100	46	2510046A	771	T-310	SCHMIDT	0.5	LR		ASTM194	ONLY LOADE		
032425-GCO	56	GCO	SA	225100	46	2510046B	771	T-310	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	57	GCO	SA	225100	47	2510047A	605	T-311	SCHMIDT	0.5	LR		ASTM194			

REVIEWED

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Daily Analytical Batch

DAB: 032425-GCO

GCO

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
032425-GCO	58	GCO	SA	225100	48	2510048A	990	T-312	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	59	GCO	SA	225100	49	2510049A	549	T-313	SCHMIDT	0.5	LR		ASTM194			
032425-GCO	60	GCO	SA	225100	50	2510050A	784	T-314	SCHMIDT	0.5	LR		ASTM194			

REVIEWED

Laboratory Worksheet

Due: **Expires:** 4/18/2025 **225100** **1**

Client: C.E. Schmidt
Client ID: T-101
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 668
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 8:40
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	723			
Final:	871			
Factor:	1.20			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 2

Client: C.E. Schmidt
Client ID: T-102
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 895
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:50
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	734			
Final:	913			
Factor:	1.24			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 3

Client: C.E. Schmidt
Client ID: T-103
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 881
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:44
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	728			
Final:	870			
Factor:	1.20			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 4

Client: C.E. Schmidt
Client ID: T-104
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 860
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 8:37
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	723			
Final:	947			
Factor:	1.31			

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 5

Client: C.E. Schmidt
Client ID: T-105
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 685
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:16
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	719			
Final:	882			
Factor:	1.23			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 6

Client: C.E. Schmidt
Client ID: T-106
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 621
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:22
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	718			
Final:	880			
Factor:	1.23			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 7

Client: C.E. Schmidt
Client ID: T-107
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 644
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:22
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	720			
Final:	888			
Factor:	1.23			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 8

Client: C.E. Schmidt
Client ID: T-108
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 556
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:30
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	702			
Final:	886			
Factor:	1.26			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 9

Client: C.E. Schmidt
Client ID: T-109
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 694
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:25
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	713			
Final:	926			
Factor:	1.30			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 10

Client: C.E. Schmidt
Client ID: T-110
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 857
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:32
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	707			
Final:	901			
Factor:	1.27			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 11

Client: C.E. Schmidt
Client ID: T-111
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 504
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:32
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	697			
Final:	871			
Factor:	1.25			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 12

Client: C.E. Schmidt
Client ID: T-112
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 631
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 11:38
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	714			
Final:	882			
Factor:	1.24			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 13

Client: C.E. Schmidt
Client ID: T-113
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 690
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:05
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	705		
Final:	870		
Factor:	1.23		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 14

Client: C.E. Schmidt
Client ID: T-114
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 645
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:11
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	701			
Final:	888			
Factor:	1.27			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 15

Client: C.E. Schmidt
Client ID: T-115
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 654
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 12:53
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	696			
Final:	881			
Factor:	1.27			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 16

Client: C.E. Schmidt
Client ID: T-116
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 782
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 13:03
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	706			
Final:	881			
Factor:	1.25			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 17

Client: C.E. Schmidt
Client ID: T-117
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 643
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:03
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	709			
Final:	883			
Factor:	1.25			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 18

Client: C.E. Schmidt
Client ID: T-118
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 553
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:25
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	783		
Final:	891		
Factor:	1.14		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 **225100** **19**

Client: C.E. Schmidt
Client ID: T-201
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 726
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 8:23
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	738			
Final:	895			
Factor:	1.21			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 20

Client: C.E. Schmidt
Client ID: T-202
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 883
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:38
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	739			
Final:	873			
Factor:	1.18			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 21

Client: C.E. Schmidt
Client ID: T-203
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 858
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:33
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	735			
Final:	879			
Factor:	1.20			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 **225100** **22**

Client: C.E. Schmidt
Client ID: T-204
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 758
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 8:29
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	743			
Final:	874			
Factor:	1.18			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 23

Client: C.E. Schmidt
Client ID: T-205
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 659
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 10:00
Received: 3/21/2025 **Time:** 14:30

	Date:		
Initial :	708		
Final:	897		
Factor:	1.27		

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 24

Client: C.E. Schmidt
Client ID: T-206
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 882
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 9:55
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	710			
Final:	883			
Factor:	1.24			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 25

Client: C.E. Schmidt
Client ID: T-207
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 627
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 10:05
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	692			
Final:	904			
Factor:	1.31			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 26

Client: C.E. Schmidt
Client ID: T-208
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 791
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 10:08
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	709			
Final:	890			
Factor:	1.26			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 27

Client: C.E. Schmidt
Client ID: T-209
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 778
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:21
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	682		
Final:	887		
Factor:	1.30		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 **225100** **28**

Client: C.E. Schmidt
Client ID: T-210
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 714
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 11:21
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	695			
Final:	882			
Factor:	1.27			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 29

Client: C.E. Schmidt
Client ID: T-211
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 629
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:26
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	685			
Final:	881			
Factor:	1.29			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** **4/19/2025** **225100** **30**

Client: C.E. Schmidt
Client ID: T-212
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 502
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 11:30
Received: 3/21/2025 **Time:** 14:30

Date:				
Initial :	687			
Final:	930			
Factor:	1.35			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 31

Client: C.E. Schmidt
Client ID: T-213
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 712
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:30
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	678			
Final:	905			
Factor:	1.33			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 32

Client: C.E. Schmidt
Client ID: T-214
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 610
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 12:57
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	786			
Final:	875			
Factor:	1.11			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 33

Client: C.E. Schmidt
Client ID: T-215
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 751
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:44
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	677		
Final:	874		
Factor:	1.29		

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 34

Client: C.E. Schmidt
Client ID: T-216
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 896
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 12:46
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	632			
Final:	874			
Factor:	1.38			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 35

Client: C.E. Schmidt
Client ID: T-217
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 634
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 12:48
Received: 3/21/2025 **Time:** 14:30

Date:				
Initial :	693			
Final:	881			
Factor:	1.27			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 36

Client: C.E. Schmidt
Client ID: T-218
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 698
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:42
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	692			
Final:	877			
Factor:	1.27			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 37

Client: C.E. Schmidt
Client ID: T-301
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 638
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 7:58
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	738		
Final:	879		
Factor:	1.19		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 38

Client: C.E. Schmidt
Client ID: T-302
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 857
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 8:04
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	734			
Final:	872			
Factor:	1.19			

LABORATORY

Analytical Test:

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** **4/20/2025** **225100** **39**

Client: C.E. Schmidt
Client ID: T-303
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 552
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 **Time:** 8:05
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	727			
Final:	877			
Factor:	1.21			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 40

Client: C.E. Schmidt
Client ID: T-304
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 529
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 7:58
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	731			
Final:	878			
Factor:	1.20			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 41

Client: C.E. Schmidt
Client ID: T-305
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 660
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:22
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	709			
Final:	871			
Factor:	1.23			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 42

Client: C.E. Schmidt
Client ID: T-306
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 859
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:13
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	722			
Final:	874			
Factor:	1.21			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 **225100** **43**

Client: C.E. Schmidt
Client ID: T-307
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 636
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:10
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	720			
Final:	878			
Factor:	1.22			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 **225100** **44**

Client: C.E. Schmidt
Client ID: T-308
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 661
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 **Time:** 9:18
Received: 3/21/2025 **Time:** 14:30

Date:				
Initial :	717			
Final:	875			
Factor:	1.22			

LABORATORY

Analytical Test:

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 **225100** **45**

Client: C.E. Schmidt
Client ID: T-309
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 579
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:24
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	726			
Final:	877			
Factor:	1.21			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 46

Client: C.E. Schmidt
Client ID: T-310
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 771
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:48
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	679			
Final:	874			
Factor:	1.29			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 47

Client: C.E. Schmidt
Client ID: T-311
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 605
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:35
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	680			
Final:	873			
Factor:	1.28			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 48

Client: C.E. Schmidt
Client ID: T-312
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 990
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:30
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	689		
Final:	913		
Factor:	1.33		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 49

Client: C.E. Schmidt
Client ID: T-313
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 549
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:31
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	695			
Final:	872			
Factor:	1.25			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 50

Client: C.E. Schmidt
Client ID: T-314
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 784
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:38
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	701			
Final:	876			
Factor:	1.25			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Sample Data Packages

SDG Number **225100**

Lab Id Number **1**

Client ID T-101

Analytical Method ASTM D1945

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Analytical Report
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Sample Calculations
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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 01

File Name: 2510001A
Description: T-101
Can/Tube#: 668
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 8:40
Date Analyzed: 03/24/25 **Time:** 13:28
Can Dilution Factor: 1.20

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.13	361	1,084	1,281	
7782-44-7	Oxygen	0.060	0.180	12.62	602	1,807	126,168	
630-08-0	Carbon Monoxide	0.012	0.036	ND	120	361	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.08	120	361	762	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510001A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**01**		SF:	**2**	
Description:	**T-101**		Not Detected Flag:	**ND**	
Date Sampled:	**03/19/25**	Time: **8:40**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **13:28**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**668**				
Can Factor	**1.20**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**1671**
7782-44-7	Oxygen	02	2.27	**24143**
7727-37-9	Nitrogen	03	2.34	**176020**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**319**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510001A		Detect Flag:	ND	**Laboratory Number: 01**
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.20				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.20		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.13	0.13	0.13	1,281	0.13	0.13	300	0.036	0.108	0.036	0.108	361	1,084	
Oxygen	32.00	12.62	12.62	12.62	126,168	12.62	12.62	500	0.060	0.181	0.060	0.180	602	1,807	
Nitrogen	28.01	87.18	87.18	87.18	871,789	87.18	87.18	1000	0.120	0.361	0.120	0.360	1,205	3,614	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.036	0.012	0.036	120	361	U
Carbon Dioxide	44.01	0.08	0.08	0.08	762	0.08	0.08	100	0.012	0.036	0.012	0.036	120	361	
Sum - N2		12.82	100.00												
Sum		100.0													
Total Nitrogen		85.13													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 1

Client: C.E. Schmidt
Client ID: T-101
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 668
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Initial : 723
Final: 871
Factor: 1.20

Sampled: 3/19/2025 Time: 8:40
Received: 3/21/2025 Time: 14:30

Date:

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

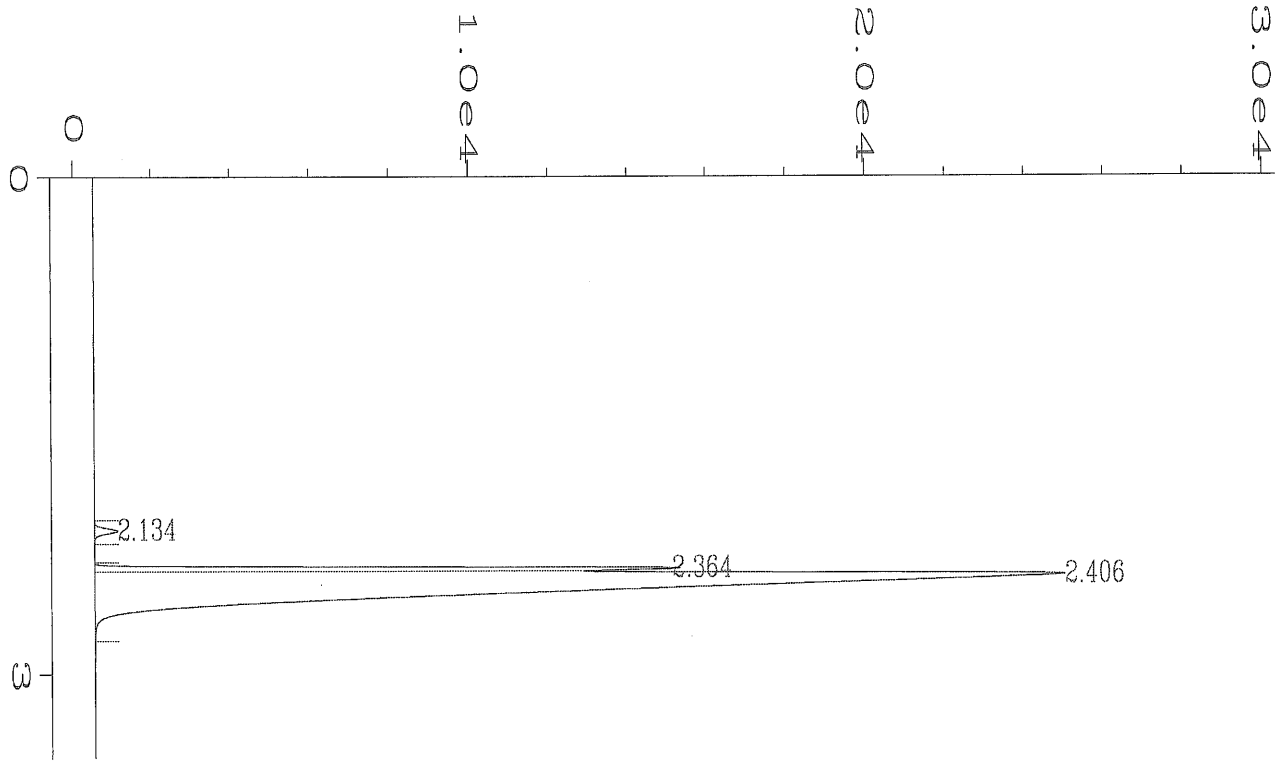
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510001MA.D
Operator : DA
Instrument : GCL
Sample Name : T-101
Run Time Bar Code:
Acquired on : 24 Mar 25 01:28 PM
Report Created on: 26 Mar 25 02:31 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510001MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.134	1365	597	BB	0.036	0.6772
2	2.364	24143	14822	BV	0.025	11.9799
3	2.406	176020	24473	VB	0.097	87.3430

Total area = 201528

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510001PA.D
Operator : DA
Instrument : GCL
Sample Name : T-101
Run Time Bar Code:
Acquired on : 24 Mar 25 01:28 PM
Report Created on: 26 Mar 25 02:32 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510001PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.112	269709	227889	BB S	0.024	99.8819
2	0.294	319	72	MM	0.074	0.1181

Total area = 270028

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **2**

Client ID T-102

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 02

File Name: 2510002A
Description: T-102
Can/Tube#: 895
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 8:50
Date Analyzed: 03/24/25 **Time:** 13:35
Can Dilution Factor: 1.24

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.13	373	1,119	1,312	
7782-44-7	Oxygen	0.062	0.186	12.46	622	1,866	124,594	
630-08-0	Carbon Monoxide	0.012	0.036	ND	124	373	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.08	124	373	823	

QUANTITATION REPORT
ASTM D1945 GC/TCD

File Name:	**2510002A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**02**		SF:	**2**	
Description:	**T-102**		Not Detected Flag:	**ND**	
Date Sampled:	**03/19/25**	Time: **8:50**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **13:35**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**895**				
Can Factor	**1.24**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**1658**
7782-44-7	Oxygen	02	2.27	**23091**
7727-37-9	Nitrogen	03	2.34	**177744**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**334**

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The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510002A		Detect Flag:	ND	**Laboratory Number: 02**
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.24				
Air Volume:	0.50 ml		Temp	**25** C	
Base Volume	0.50 ml		Atm P	**760.0** torr	
Dilution Factor	1.24		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.13	0.13	0.13	1,312	0.13	0.13	300	0.037	0.112	0.037	0.111	373	1,119	
Oxygen	32.00	12.46	12.46	12.46	124,594	12.46	12.46	500	0.062	0.187	0.062	0.186	622	1,866	
Nitrogen	28.01	87.33	87.33	87.33	873,270	87.33	87.33	1000	0.124	0.373	0.124	0.372	1,244	3,732	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.037	0.012	0.036	124	373	U
Carbon Dioxide	44.01	0.08	0.08	0.08	823	0.08	0.08	100	0.012	0.037	0.012	0.036	124	373	
Sum - N2		12.67	100.00												
Sum		100.0													
Total Nitrogen		88.76													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 2

Client: C.E. Schmidt
Client ID: T-102
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 895
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:50
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	734		
Final:	913		
Factor:	1.24		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

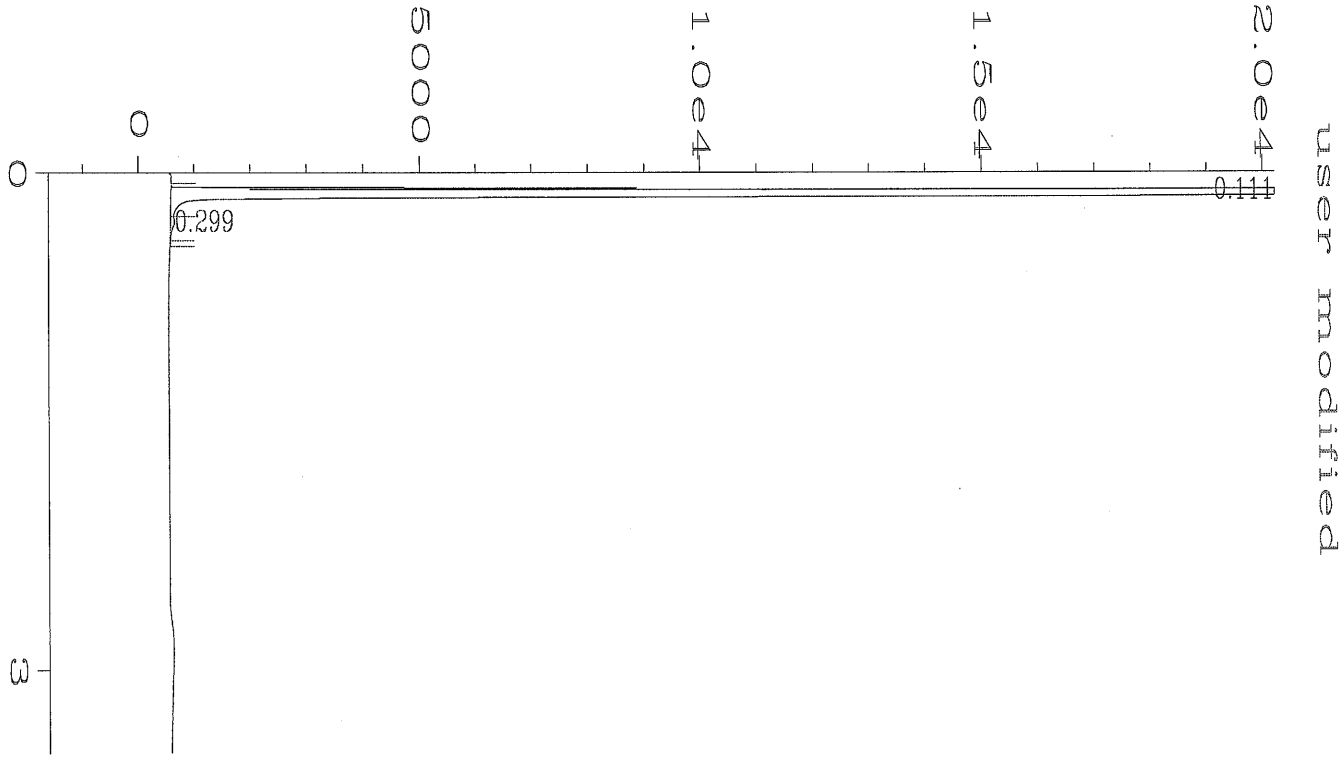
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510002PA.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-102
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 01:35 PM
Instrument Method: ASTM1946.MTH
Report Created on: 26 Mar 25 02:33 PM
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510002PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.111	275910	252549	BB S	0.017	99.8792
2	0.299	334	74	MM	0.075	0.1208

Total area = 276243

User Modified

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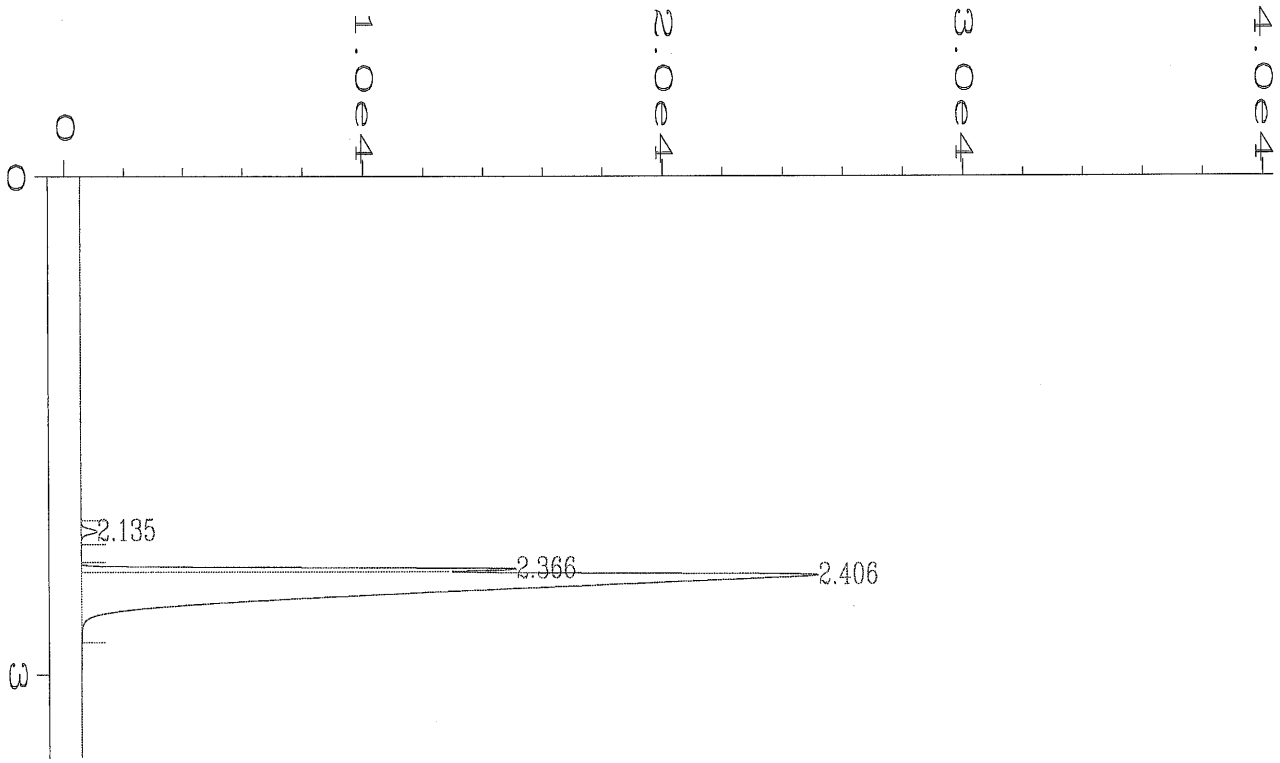

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510002MA.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-102
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 01:35 PM
Instrument Method: ASTM1946.MTH
Report Created on: 26 Mar 25 02:33 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510002MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.135	1226	536	BB	0.035	0.6068
2	2.366	23091	14549	BV	0.025	11.4276
3	2.406	177744	24614	VB	0.098	87.9656

Total area = 202061

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Sample Data Packages

SDG Number **225100**

Lab Id Number **3**

Client ID T-103

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 03

File Name: 2510003A
Description: T-103
Can/Tube#: 881
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 8:44
Date Analyzed: 03/24/25 **Time:** 13:44
Can Dilution Factor: 1.20

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.07	359	1,076	740	J
7782-44-7	Oxygen	0.060	0.180	12.64	598	1,793	126,449	
630-08-0	Carbon Monoxide	0.012	0.036	ND	120	359	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.09	120	359	867	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510003A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**03**		SF:	**2**	
Description:	**T-103**		Not Detected Flag:	**ND**	
Date Sampled:	**03/19/25**	Time: **8:44**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **13:44**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**881**				
Can Factor	**1.20**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**973**
7782-44-7	Oxygen	02	2.27	**24392**
7727-37-9	Nitrogen	03	2.34	**178314**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**366**

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The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

Laboratory Number: 03

File Name:	2510003A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.20				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.20		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.07	0.07	0.07	740	0.07	0.07	300	0.036	0.108	0.036	0.108	359	1,076	J
Oxygen	32.00	12.64	12.64	12.64	126,449	12.64	12.64	500	0.060	0.179	0.060	0.180	598	1,793	
Nitrogen	28.01	87.19	87.19	87.19	871,944	87.19	87.19	1000	0.120	0.359	0.120	0.360	1,195	3,585	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.036	0.012	0.036	120	359	U
Carbon Dioxide	44.01	0.09	0.09	0.09	867	0.09	0.09	100	0.012	0.036	0.012	0.036	120	359	
Sum - N2		12.81	100.00												
Sum		100.0													
Total Nitrogen		85.55													

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EPA Qual	Det Qual	Rpt
	ND	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:	Expires:		
	4/18/2025	225100	3

Client:	C.E. Schmidt	MS Load Vol:	300
Client ID:	T-103	MS SIM Vol:	
Description:		GCK Load Vol:	200
Project Name:	Chiquita Canyon	GCP Load Vol:	
EAS Project:	17807	EAS PM: David Atkinson	Sample Volume:

Media:	CAN	Can Pressurization:	Sampled:	3/19/2025	Time: 8:44
Can Number:	881		Received:	3/21/2025	Time: 14:30
FC Number:	0				
TAT Working:			Date:		
Sampling Time:		Initial :	728		
Flow:		Final:	870		
		Factor:	1.20		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

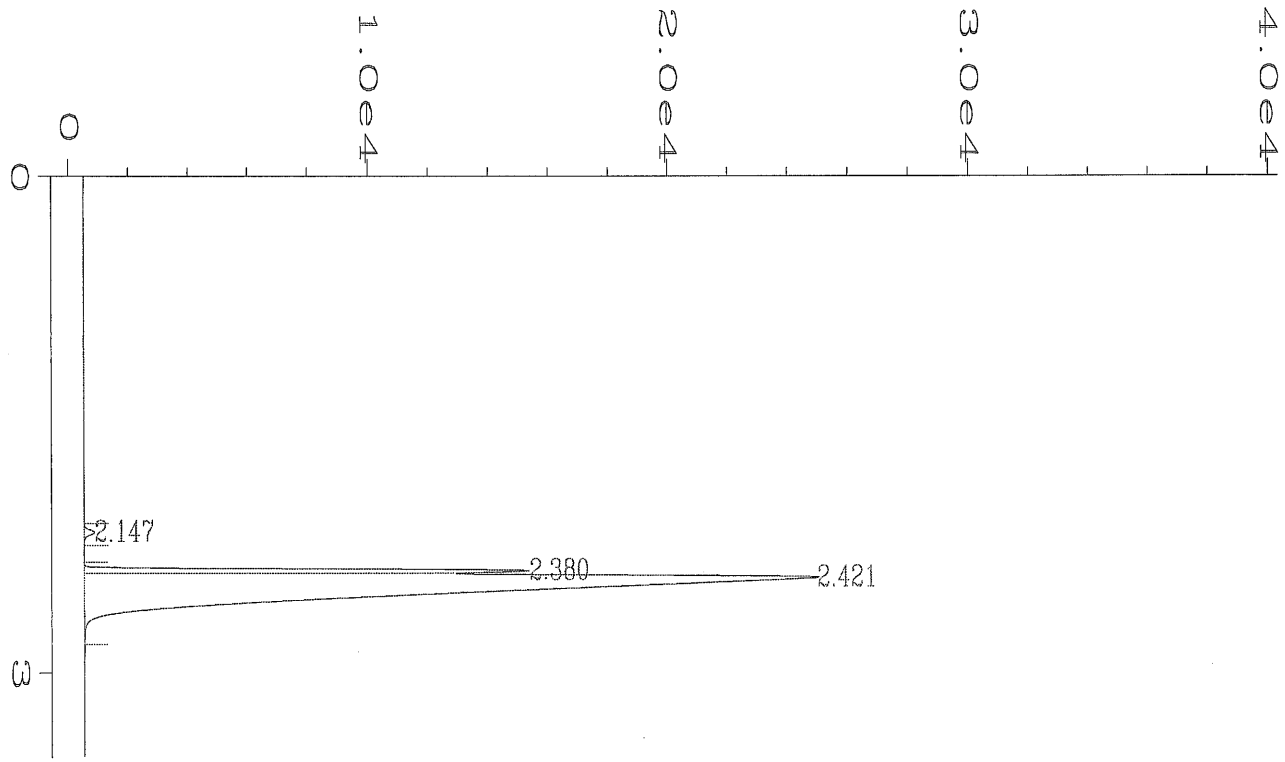
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510003MA.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-103
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 01:44 PM
Instrument Method: ASTM1946.MTH
Report Created on: 26 Mar 25 02:35 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510003MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.147	795	345	BB	0.036	0.3907
2	2.380	24392	14820	BV	0.025	11.9860
3	2.421	178314	24526	VB	0.100	87.6232

Total area = 203501

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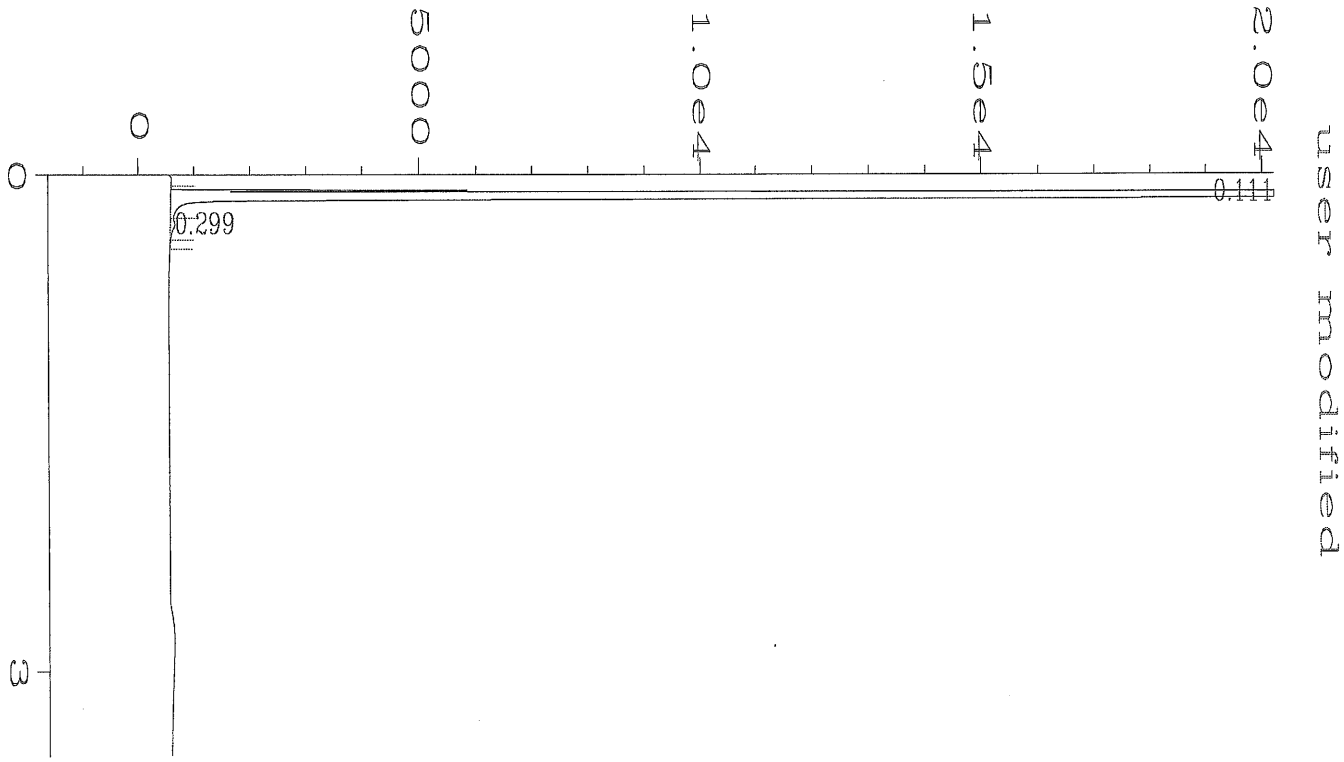

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510003PA.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-103
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 01:44 PM
Instrument Method: ASTM1946.MTH
Report Created on: 26 Mar 25 02:35 PM
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510003PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.111	268682	262674	BB S	0.016	99.8641
2	0.299	366	84	MM	0.073	0.1359

Total area = 269048

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **4**

Client ID T-104

Analytical Method ASTM D1945

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Analytical Report
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Chromatogram

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 4

Client: C.E. Schmidt
Client ID: T-104
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 860
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:37
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	723		
Final:	947		
Factor:	1.31		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

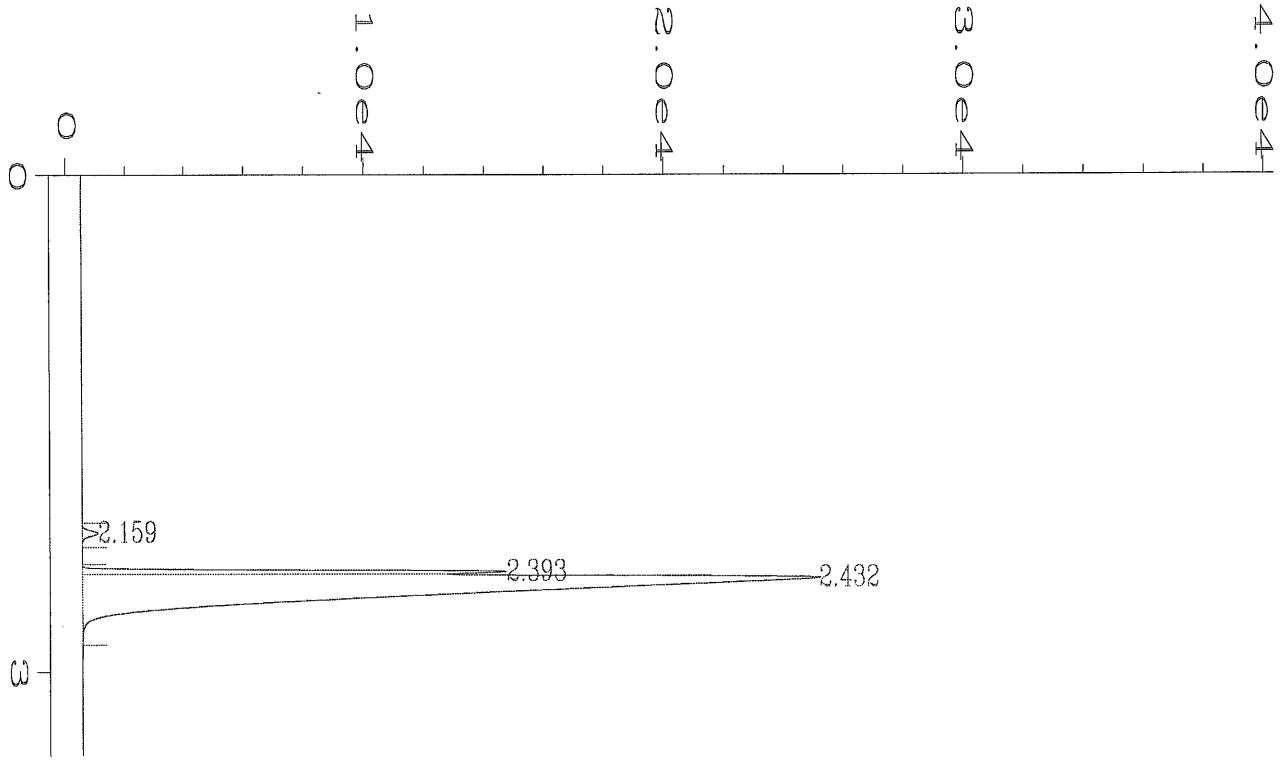
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

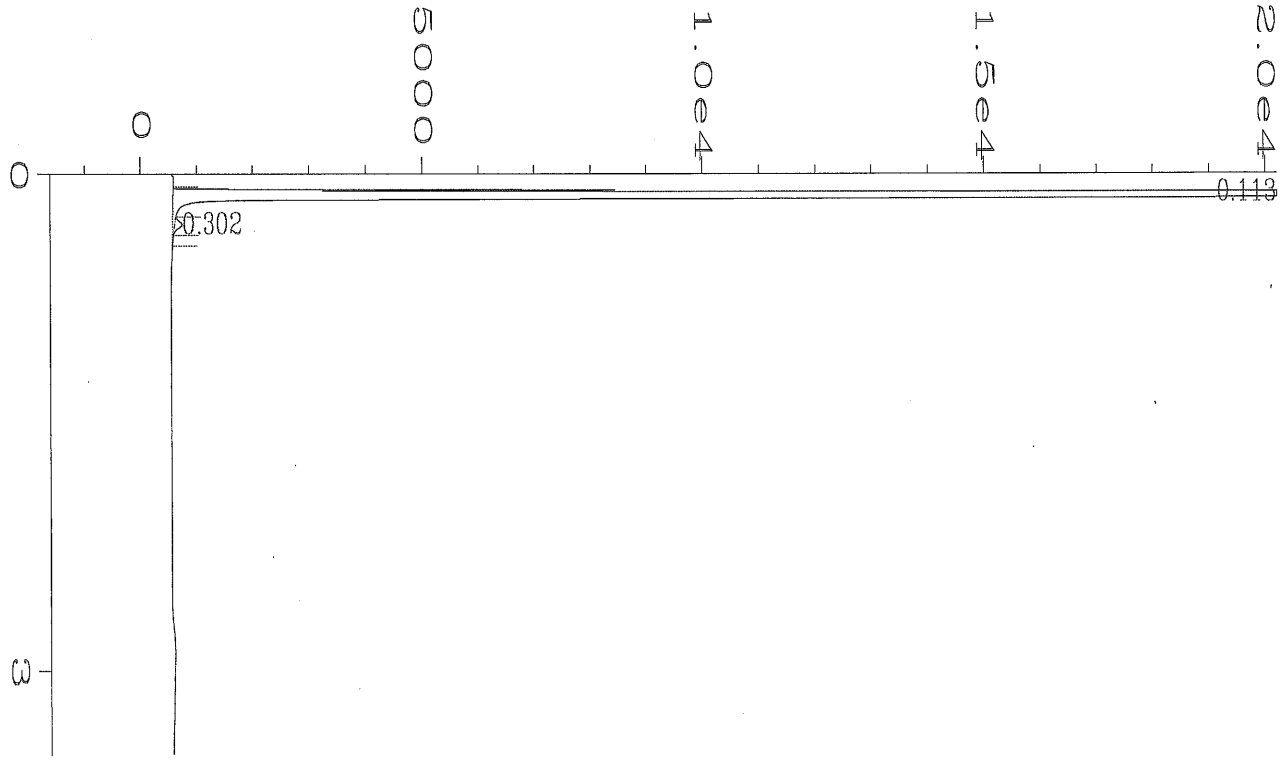
Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510004MA.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-104
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 01:48 PM
Instrument Method: ASTM1946.MTH
Report Created on: 26 Mar 25 02:36 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510004MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.159	1251	539	BB	0.036	0.6153
2	2.393	21888	14200	BV	0.024	10.7653
3	2.432	180180	24634	VB	0.098	88.6194

Total area = 203318

==========



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510004PA.D
Operator : DA
Instrument : GCL
Sample Name : T-104
Run Time Bar Code:
Acquired on : 24 Mar 25 01:48 PM
Report Created on: 26 Mar 25 02:36 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510004PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.113	269471	242909	BB S	0.023	99.8531
2	0.302	396	132	BB T	0.046	0.1469

Total area = 269868

==========

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 04

File Name: 2510004A
Description: T-104
Can/Tube#: 860
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 8:37
Date Analyzed: 03/24/25 **Time:** 13:48
Can Dilution Factor: 1.31

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.039	0.117	0.14	393	1,179	1,427	
7782-44-7	Oxygen	0.065	0.195	12.44	655	1,965	124,365	
630-08-0	Carbon Monoxide	0.013	0.039	ND	131	393	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.10	131	393	1,028	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510004A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**04**		SF:	**2**	
Description:	**T-104**		Not Detected Flag:	**ND**	
Date Sampled:	**03/19/25**	Time: **8:37**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **13:48**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**860**				
Can Factor	**1.31**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**1712**
7782-44-7	Oxygen	02	2.27	**21888**
7727-37-9	Nitrogen	03	2.34	**180180**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**396**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100
Laboratory Number: 04

File Name:	2510004A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.31				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.31		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.14	0.14	0.14	1,427	0.14	0.14	300	0.039	0.118	0.039	0.117	393	1,179	
Oxygen	32.00	12.44	12.44	12.44	124,365	12.44	12.44	500	0.065	0.196	0.065	0.195	655	1,965	
Nitrogen	28.01	87.32	87.32	87.32	873,180	87.32	87.32	1000	0.131	0.393	0.131	0.393	1,310	3,929	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.039	0.013	0.039	131	393	U
Carbon Dioxide	44.01	0.10	0.10	0.10	1,028	0.10	0.10	100	0.013	0.039	0.013	0.039	131	393	
Sum - N2		12.68	100.00												
Sum		100.0													
Total Nitrogen		94.75													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **5**

Client ID T-105

Analytical Method ASTM D1945

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Analytical Report
Quantitation Report
Calculations
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Chromatogram

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 5

Client: C.E. Schmidt
Client ID: T-105
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 685
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:16
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	719		
Final:	882		
Factor:	1.23		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

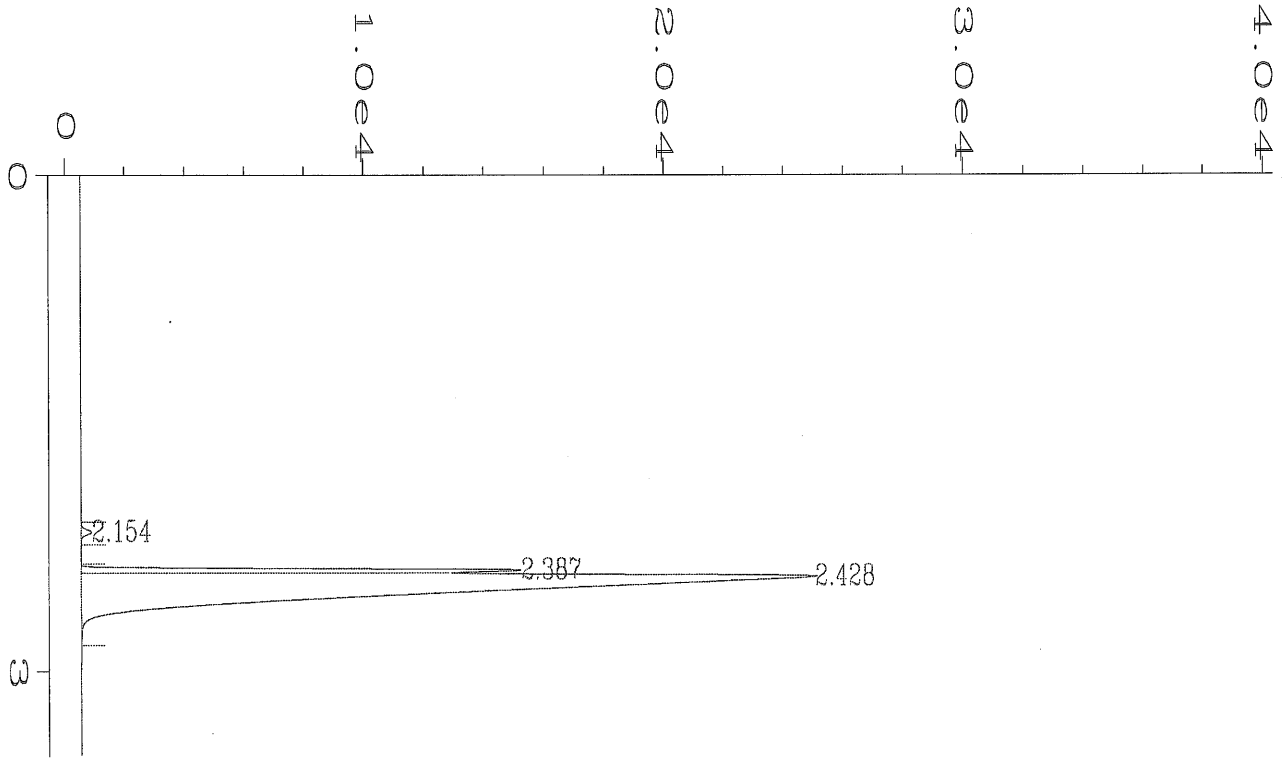
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510005MA.D
Operator : DA
Instrument : GCL
Sample Name : T-105
Run Time Bar Code:
Acquired on : 24 Mar 25 01:56 PM
Report Created on: 26 Mar 25 02:37 PM

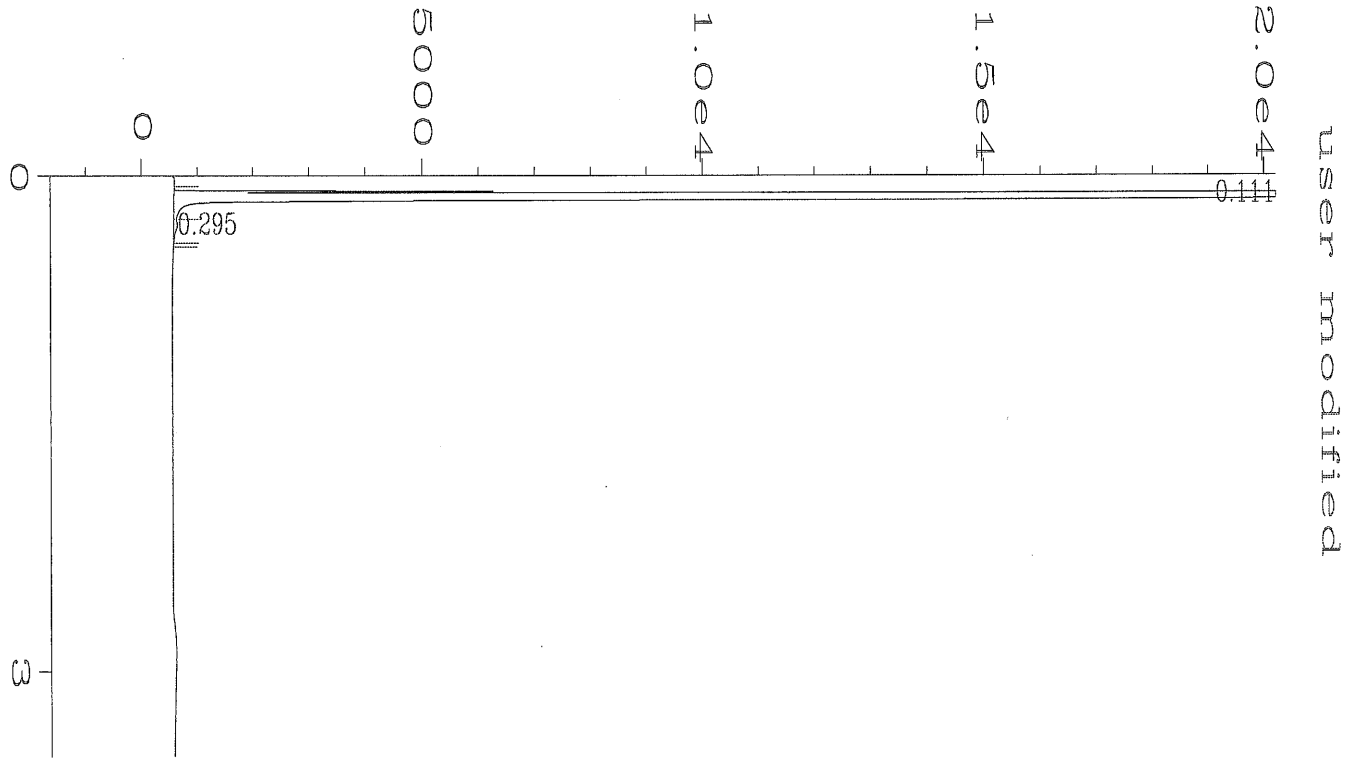
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510005MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.154	811	353	BB	0.036	0.3985
2	2.387	23646	14684	BV	0.025	11.6138
3	2.428	179147	24584	VB	0.097	87.9876

Total area = 203604

==========



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510005PA.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-105
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 01:56 PM
Instrument Method: ASTM1946.MTH
Report Created on: 26 Mar 25 02:37 PM
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510005PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.111	274371	253660	BB S	0.016	99.8834
2	0.295	320	73	MM	0.073	0.1166

Total area = 274691

User Modified

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 05

File Name: 2510005A
Description: T-105
Can/Tube#: 685
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 10:16
Date Analyzed: 03/24/25 **Time:** 13:56
Can Dilution Factor: 1.23

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.07	368	1,104	692	J
7782-44-7	Oxygen	0.061	0.183	12.58	613	1,840	125,828	
630-08-0	Carbon Monoxide	0.012	0.036	ND	123	368	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.08	123	368	778	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510005A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**05**		SF:	**2**	
Description:	**T-105**		Not Detected Flag:	**ND**	
Date Sampled:	**03/19/25**	Time: **10:16**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **13:56**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**685**				
Can Factor	**1.23**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**886**
7782-44-7	Oxygen	02	2.27	**23646**
7727-37-9	Nitrogen	03	2.34	**179147**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**320**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510005A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.23				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.23		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Laboratory Number: 05

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.07	0.07	0.07	692	0.07	0.07	300	0.037	0.110	0.037	0.111	368	1,104	J
Oxygen	32.00	12.58	12.58	12.58	125,828	12.58	12.58	500	0.061	0.184	0.061	0.183	613	1,840	
Nitrogen	28.01	87.27	87.27	87.27	872,702	87.27	87.27	1000	0.123	0.368	0.123	0.369	1,227	3,680	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.037	0.012	0.036	123	368	U
Carbon Dioxide	44.01	0.08	0.08	0.08	778	0.08	0.08	100	0.012	0.037	0.012	0.036	123	368	
Sum - N2		12.73	100.00												
Sum		100.0													
Total Nitrogen		88.23													

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003972 of 004929

EPA Qual	Det Qual	Rpt
	ND	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **6**

Client ID T-106

Analytical Method ASTM D1945

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Analytical Report
Quantitation Report
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Chromatogram

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 6

Client: C.E. Schmidt
Client ID: T-106
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 621
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:22
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	718		
Final:	880		
Factor:	1.23		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

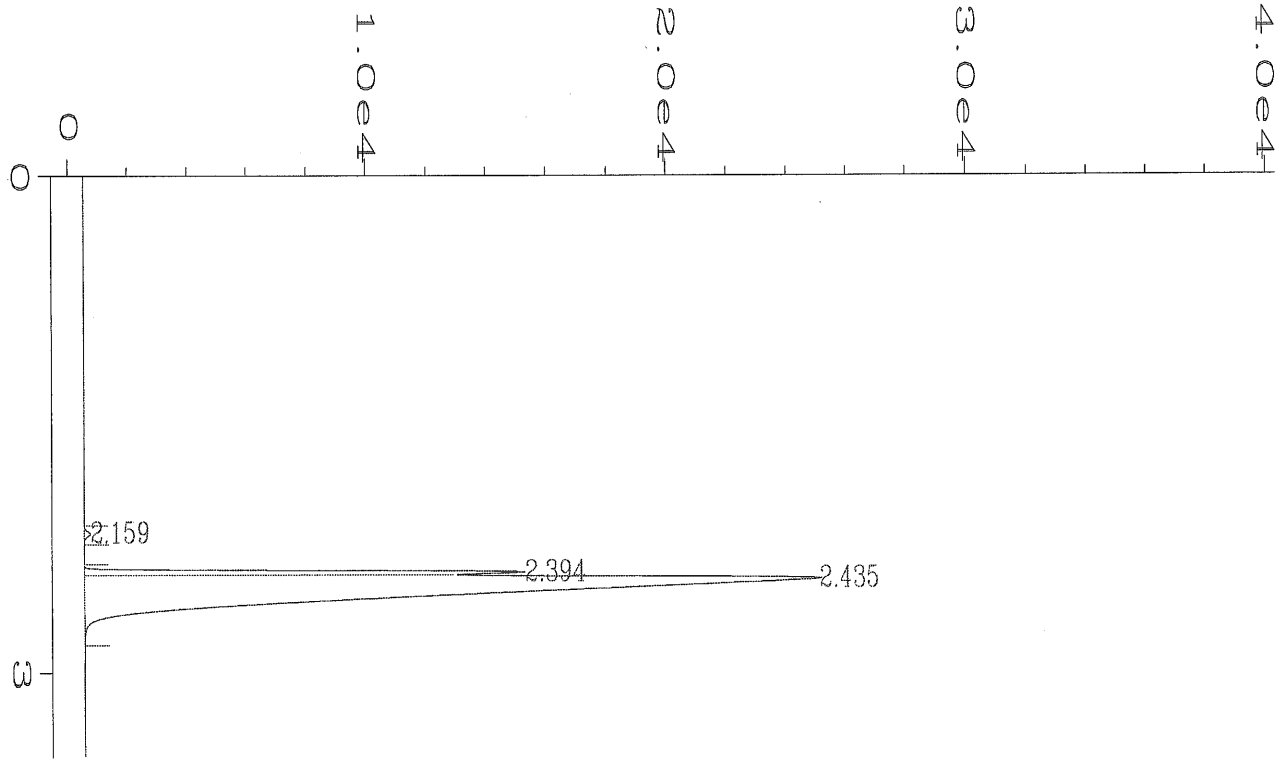
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510006MA.D
Operator : DA
Instrument : GCL
Sample Name : T-106
Run Time Bar Code:
Acquired on : 24 Mar 25 02:01 PM
Report Created on: 26 Mar 25 02:38 PM

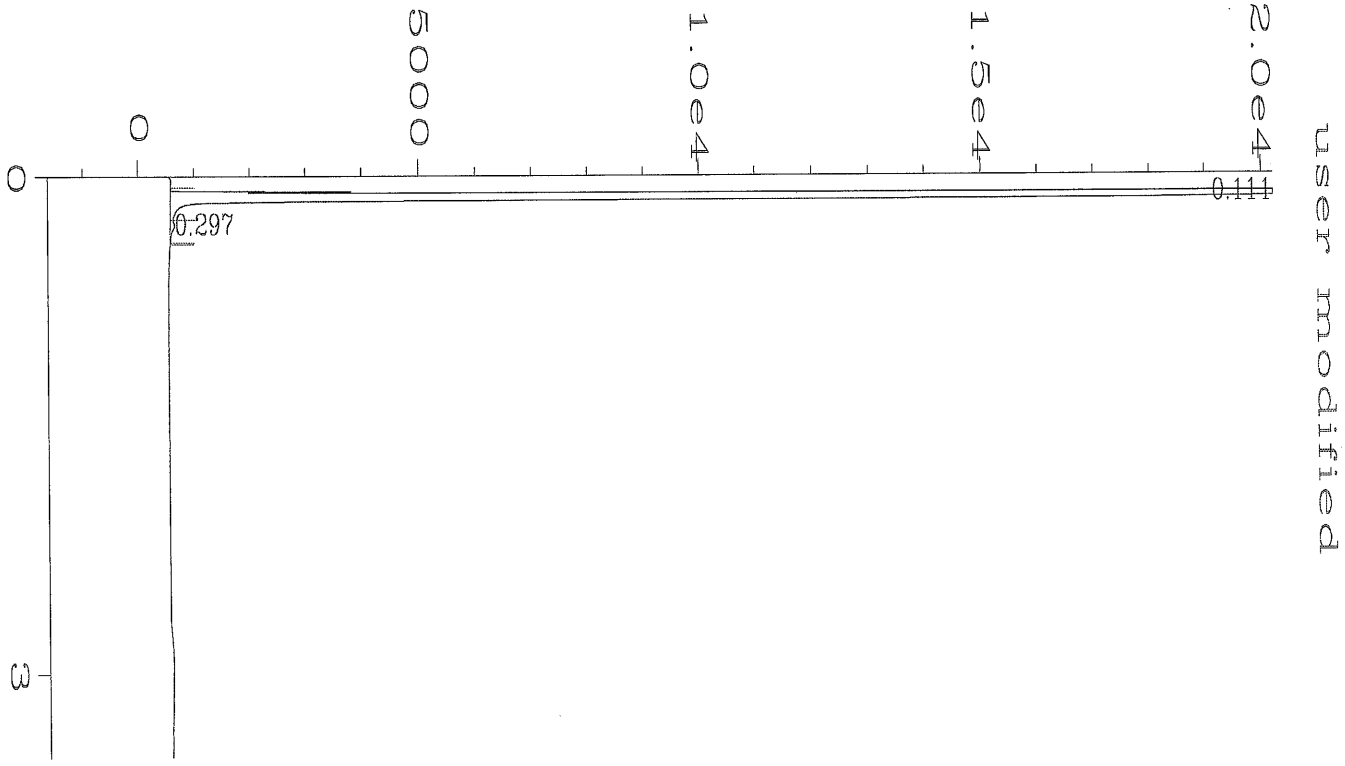
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510006MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.159	448	196	BB	0.036	0.2180
2	2.394	23820	14747	BV	0.025	11.5989
3	2.435	181098	24645	VB	0.097	88.1831

Total area = 205366

==========



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510006PA.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-106
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 02:01 PM
Instrument Method: ASTM1946.MTH
Report Created on: 26 Mar 25 02:38 PM
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510006PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.111	266700	253654	BB S	0.016	99.8906
2	0.297	292	73	MM	0.066	0.1094

Total area = 266993

User Modified

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 06

File Name: 2510006A
Description: T-106
Can/Tube#: 621
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 10:22
Date Analyzed: 03/24/25 **Time:** 14:01
Can Dilution Factor: 1.23

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.04	368	1,103	368	J
7782-44-7	Oxygen	0.061	0.183	#VALUE!	613	1,838	#VALUE!	#VALUE!
630-08-0	Carbon Monoxide	0.012	0.036	ND	123	368	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.07	123	368	709	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510006A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**06**		SF:	**2**	
Description:	**T-106**		Not Detected Flag:	**ND**	
Date Sampled:	**03/19/25**	Time: **10:22**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **14:01**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**621**				
Can Factor	**1.23**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**472**
7782-44-7	Oxygen	02	2.27	**p**
7727-37-9	Nitrogen	03	2.34	**181098**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**292**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510006A		Detect Flag:	ND	**Laboratory Number: 06**
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.23				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.23		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	RL %	MDL ppmv	RL ppmv	Lab Qual
Hydrogen	2.02	0.04	#VALUE!	0.04	368	0.04	0.04	300	0.037	0.110	0.037	0.111	368	1,103	J
Oxygen	32.00	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	500	0.061	0.184	0.061	0.183	613	1,838	######
Nitrogen	28.01	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	1000	0.123	0.368	0.123	0.369	1,226	3,677	######
Carbon Monoxide	28.01	0.00	#VALUE!	ND	ND	0.00		100	0.012	0.037	0.012	0.036	123	368	U
Carbon Dioxide	44.01	0.07	#VALUE!	0.07	709	0.07	0.07	100	0.012	0.037	0.012	0.036	123	368	
Sum - N2		#VALUE!	#VALUE!												
Sum		#VALUE!													
Total Nitrogen		89.11													

Page 1 of 3

EPA Qual	Det Qual	Rpt
	ND	Y
	#######	Y
	#######	Y
	ND	Y
	=	Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **7**

Client ID T-107

Analytical Method ASTM D1945

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Analytical Report
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Sample Calculations
Chromatogram

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 7

Client: C.E. Schmidt
Client ID: T-107
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 644
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:22
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	720		
Final:	888		
Factor:	1.23		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

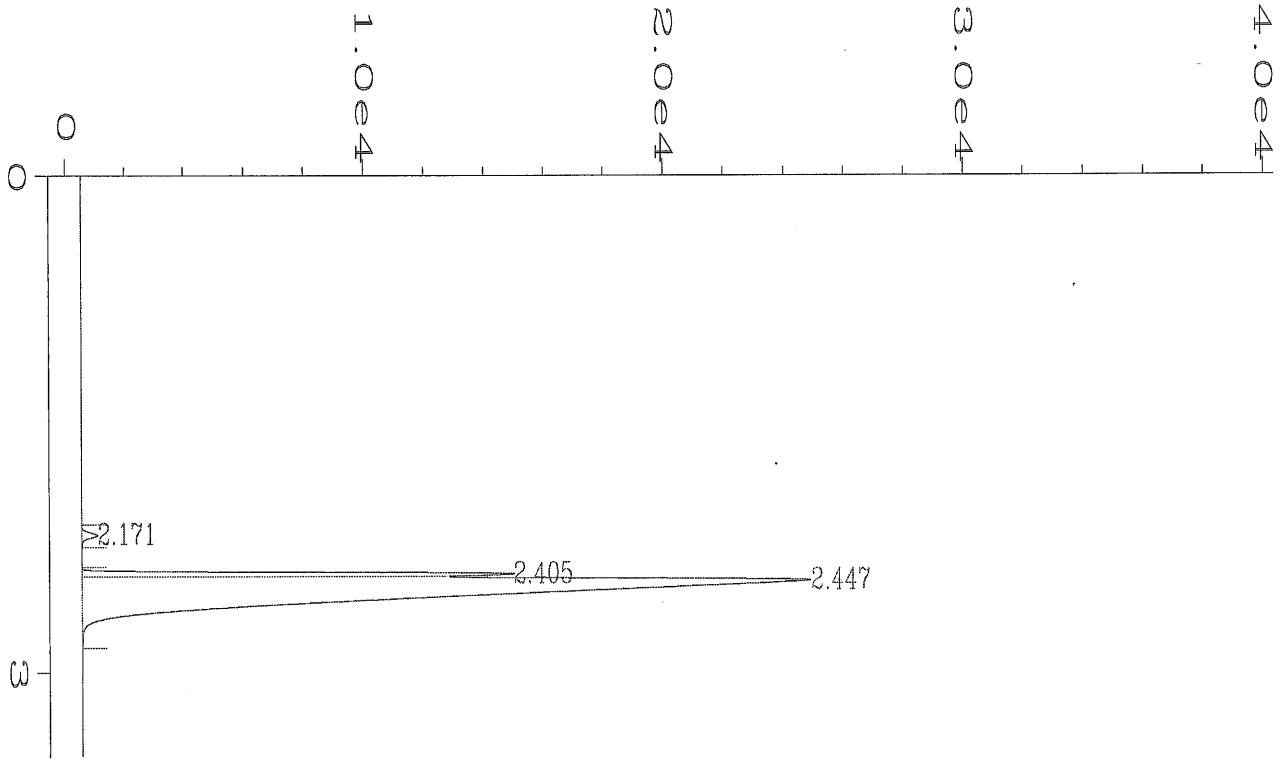
InstrumentMethod:		Item Description:	Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510007MA.D
Operator : DA
Instrument : GCL
Sample Name : T-107
Run Time Bar Code:
Acquired on : 24 Mar 25 02:05 PM
Report Created on: 26 Mar 25 02:40 PM

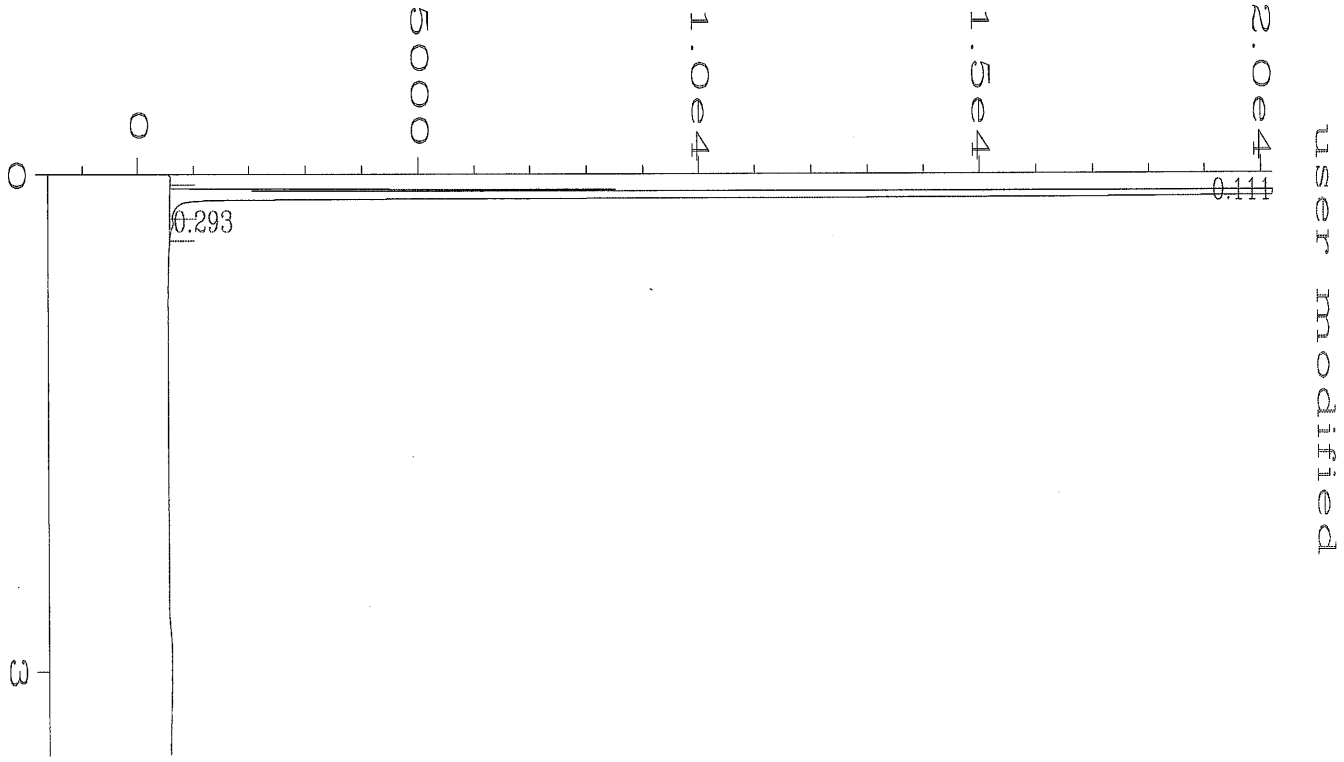
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510007MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.171	1213	519	BB	0.036	0.5962
2	2.405	23548	14456	BV	0.025	11.5778
3	2.447	178632	24326	VB	0.102	87.8259

Total area = 203393

==========



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510007PA.D
Operator : DA
Instrument : GCL
Sample Name : T-107
Run Time Bar Code:
Acquired on : 24 Mar 25 02:05 PM
Report Created on: 26 Mar 25 02:41 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510007PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.111	263591	258536	BB S	0.015	99.9106
2	0.293	236	64	MM	0.061	0.0894

Total area = 263827

User Modified

==========

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 07

File Name: 2510007A
Description: T-107
Can/Tube#: 644
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 10:22
Date Analyzed: 03/24/25 **Time:** 14:05
Can Dilution Factor: 1.23

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.11	370	1,110	1,085	J
7782-44-7	Oxygen	0.062	0.186	12.60	617	1,850	125,984	
630-08-0	Carbon Monoxide	0.012	0.036	ND	123	370	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.06	123	370	577	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510007A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**07**		SF:	**2**	
Description:	**T-107**		Not Detected Flag:	**ND**	
Date Sampled:	**03/19/25**	Time: **10:22**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **14:05**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**644**				
Can Factor	**1.23**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**1382**
7782-44-7	Oxygen	02	2.27	**23548**
7727-37-9	Nitrogen	03	2.34	**178632**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**236**

Page 1 of 1 03/24/25 14:05:34

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510007A		Detect Flag:	ND	**Laboratory Number: 07**
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.23				
Air Volume:	0.50 ml		Temp	**25**	C
Base Volume	0.50 ml		Atm P	**760.0**	torr
Dilution Factor	1.23		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.11	0.11	0.11	1,085	0.11	0.11	300	0.037	0.111	0.037	0.111	370	1,110	J
Oxygen	32.00	12.60	12.60	12.60	125,984	12.60	12.60	500	0.062	0.185	0.062	0.186	617	1,850	
Nitrogen	28.01	87.24	87.24	87.24	872,355	87.24	87.24	1000	0.123	0.370	0.123	0.369	1,233	3,700	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.037	0.012	0.036	123	370	U
Carbon Dioxide	44.01	0.06	0.06	0.06	577	0.06	0.06	100	0.012	0.037	0.012	0.036	123	370	
Sum - N2		12.76	100.00												
Sum		100.0													
Total Nitrogen		88.45													

Page 5 of 9

EPA Qual	Det Qual	Rpt
	ND	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **8**

Client ID T-108

Analytical Method ASTM D1945

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Chromatogram

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 8

Client: C.E. Schmidt
Client ID: T-108
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 556
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:30
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	702		
Final:	886		
Factor:	1.26		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

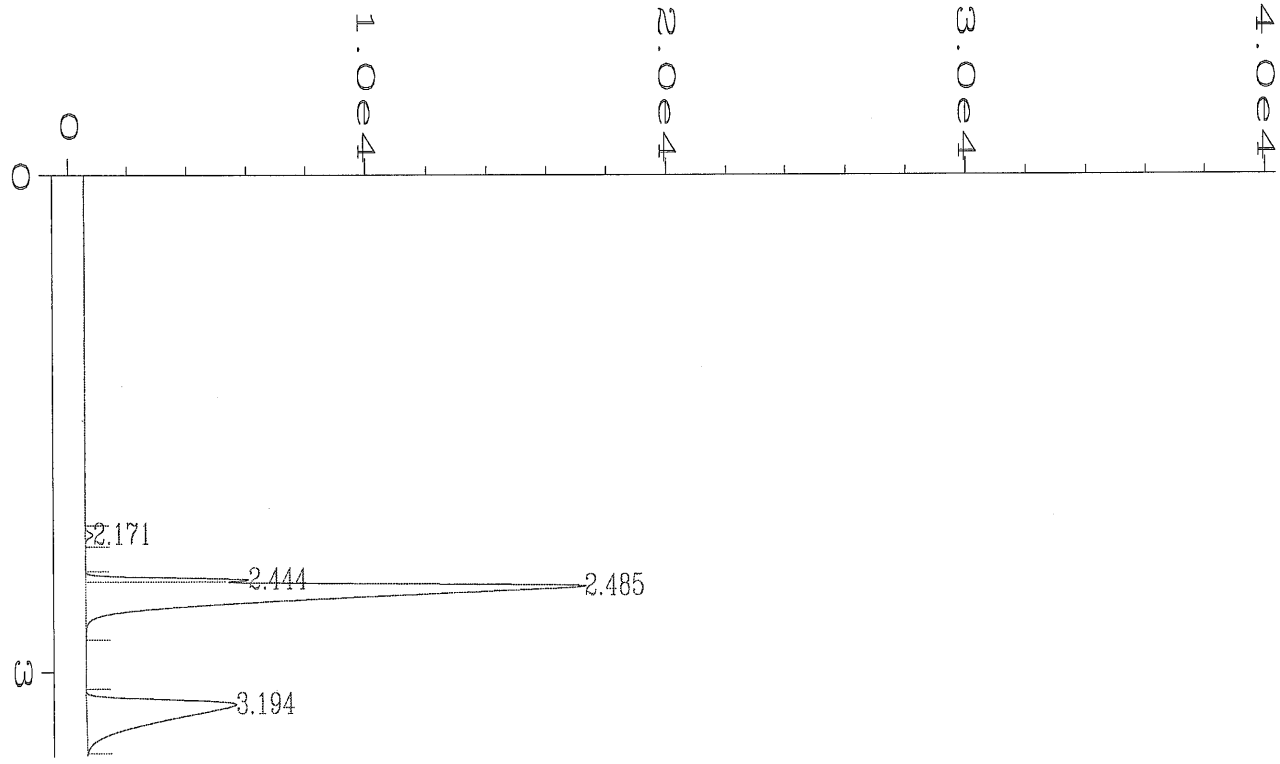
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510008MA.D
Operator : DA
Instrument : GCL
Sample Name : T-108
Run Time Bar Code:
Acquired on : 24 Mar 25 02:10 PM
Report Created on: 26 Mar 25 02:44 PM

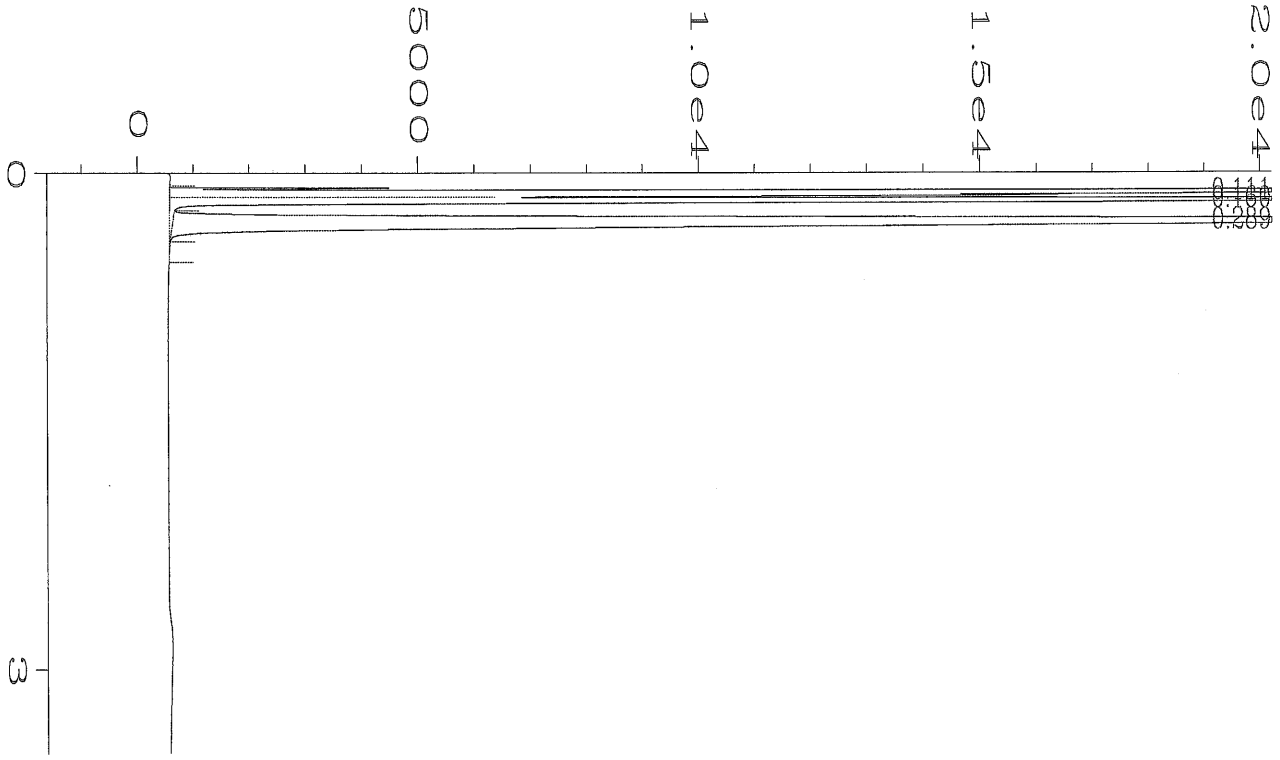
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510008MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.171	594	255	BB	0.037	0.3972
2	2.444	8702	5489	BV	0.025	5.8167
3	2.485	97169	16753	VB	0.080	64.9485
4	3.194	43144	5046	BBA	0.124	28.8376

Total area = 149609

==========



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510008PA.D
Operator : DA
Instrument : GCL
Sample Name : T-108
Run Time Bar Code:
Acquired on : 24 Mar 25 02:10 PM
Report Created on: 26 Mar 25 02:45 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510008PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.111	157000	177273	BH S	0.019	49.4691
2	0.160	73129	54665	HB S	0.021	23.0424
3	0.289	87240	26461	BV T	0.052	27.4886

Total area = 317369

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 08

File Name: 2510008A
Description: T-108
Can/Tube#: 556
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 10:30
Date Analyzed: 03/24/25 **Time:** 14:10
Can Dilution Factor: 1.26

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.05	379	1,136	548	J
7782-44-7	Oxygen	0.063	0.189	4.76	631	1,893	47,643	
630-08-0	Carbon Monoxide	0.013	0.039	ND	126	379	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	21.82	126	379	218,240	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510008A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**08**		SF:	**2**	
Description:	**T-108**		Not Detected Flag:	**ND**	
Date Sampled:	**03/19/25**	Time: **10:30**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **14:10**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**556**				
Can Factor	**1.26**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**682**
7782-44-7	Oxygen	02	2.27	**8702**
7727-37-9	Nitrogen	03	2.34	**97169**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**87240**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

225100 03584

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510008A		Detect Flag:	ND	**Laboratory Number: 08**
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.26				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.26		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.05	0.05	0.05	548	0.05	0.05	300	0.038	0.114	0.038	0.114	379	1,136	J
Oxygen	32.00	4.76	4.76	4.76	47,643	4.76	4.76	500	0.063	0.189	0.063	0.189	631	1,893	
Nitrogen	28.01	43.54	43.54	43.54	435,397	43.54	43.54	1000	0.126	0.379	0.126	0.378	1,262	3,786	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.038	0.013	0.039	126	379	U
Carbon Dioxide	44.01	21.82	21.82	21.82	218,240	21.82	21.82	100	0.013	0.038	0.013	0.039	126	379	
Sum - N2		56.46	100.00												
Sum		100.0													
Total Nitrogen		49.24													

Page 10 of 1852

EPA Qual	Det Qual	Rpt
	ND	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **9**

Client ID T-109

Analytical Method ASTM D1945

Index

Analytical Report
Quantitation Report
Calculations
Sample Calculations
Chromatogram

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 9

Client: C.E. Schmidt
Client ID: T-109
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 694
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Initial : 713
Final: 926
Factor: 1.30

Sampled: 3/19/2025 Time: 11:25
Received: 3/21/2025 Time: 14:30

Date:

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

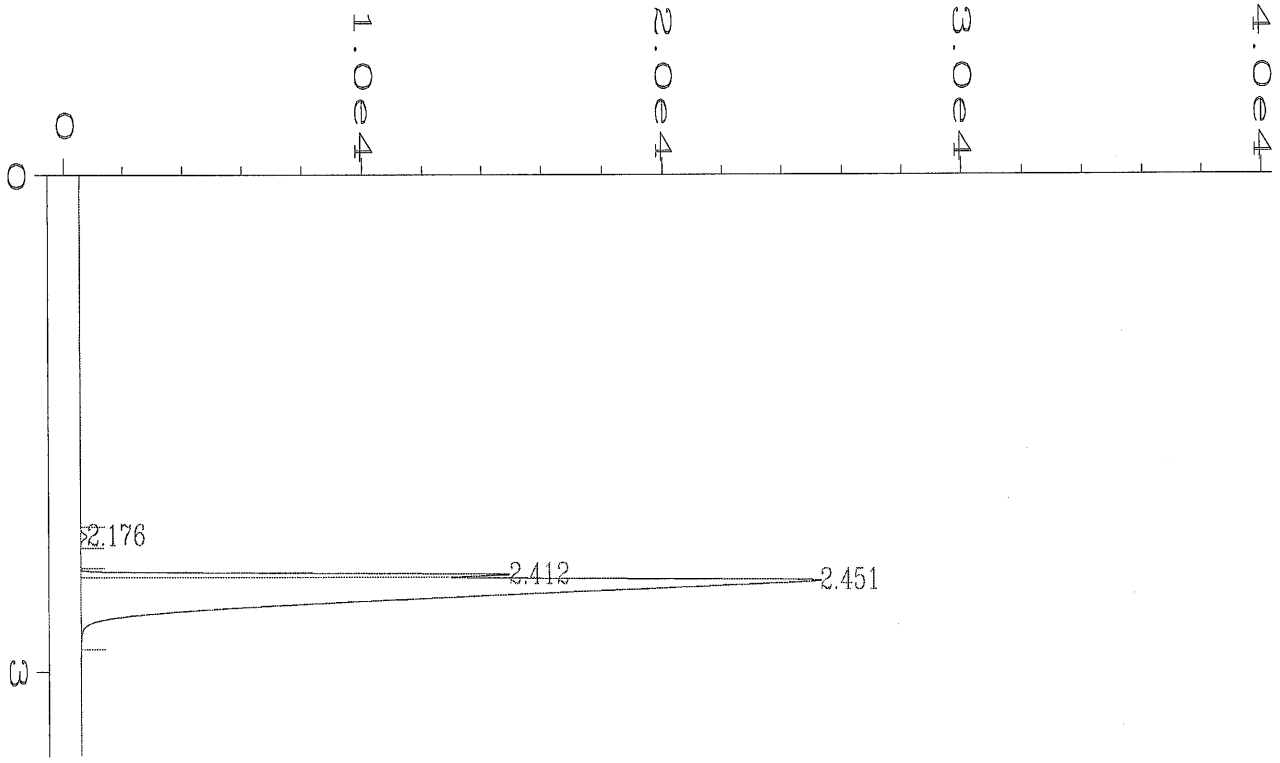
Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions | EAS QC Criteria
Report Types: PDF Only
EDD Instructions EDD Type:



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Area Percent Report

==========

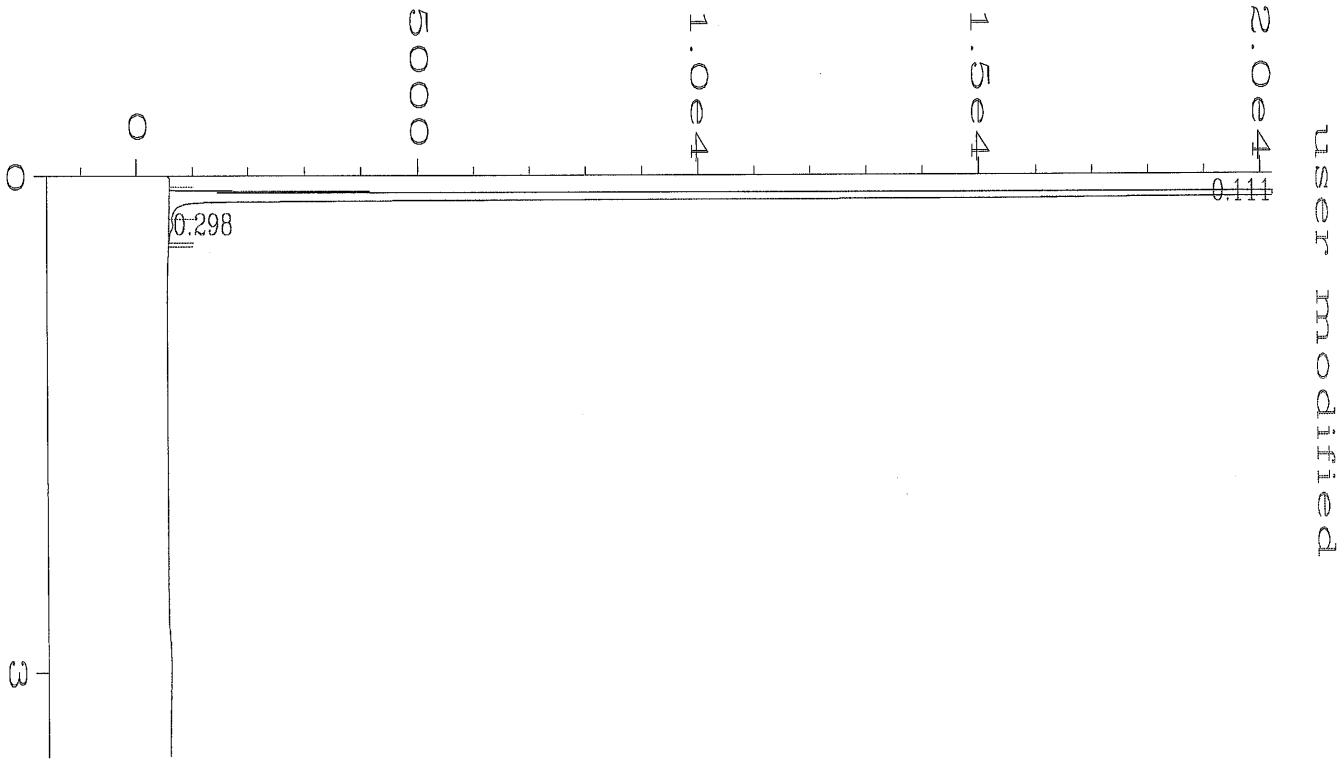
Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510009MA.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-109
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 02:15 PM
Instrument Method: ASTM1946.MTH
Report Created on: 26 Mar 25 02:46 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510009MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.176	496	211	BB	0.037	0.2398
2	2.412	22216	14356	BV	0.026	10.7495
3	2.451	183957	24759	VB	0.103	89.0106

Total area = 206669

==========



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510009PA.D
Operator : DA
Instrument : GCL
Sample Name : T-109
Run Time Bar Code:
Acquired on : 24 Mar 25 02:15 PM
Report Created on: 26 Mar 25 02:46 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510009PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.111	271678	256970	BB S	0.016	99.8824
2	0.298	320	77	MM	0.070	0.1176

Total area = 271998

User Modified

==========

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 09

File Name: 2510009A
Description: T-109
Can/Tube#: 694
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 11:25
Date Analyzed: 03/24/25 **Time:** 14:15
Can Dilution Factor: 1.30

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.039	0.117	0.05	390	1,169	464	J
7782-44-7	Oxygen	0.065	0.195	12.52	649	1,948	125,160	
630-08-0	Carbon Monoxide	0.013	0.039	ND	130	390	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.08	130	390	824	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510009A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**09**		SF:	**2**	
Description:	**T-109**		Not Detected Flag:	**ND**	
Date Sampled:	**03/19/25**	Time: **11:25**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **14:15**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**694**				
Can Factor	**1.30**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**561**
7782-44-7	Oxygen	02	2.27	**22216**
7727-37-9	Nitrogen	03	2.34	**183957**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**320**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510009A		Detect Flag:	ND	**Laboratory Number: 09**
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.30				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.30		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.05	0.05	0.05	464	0.05	0.05	300	0.039	0.117	0.039	0.117	390	1,169	J
Oxygen	32.00	12.52	12.52	12.52	125,160	12.52	12.52	500	0.065	0.195	0.065	0.195	649	1,948	
Nitrogen	28.01	87.36	87.36	87.36	873,552	87.36	87.36	1000	0.130	0.390	0.130	0.390	1,299	3,896	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.039	0.013	0.039	130	390	U
Carbon Dioxide	44.01	0.08	0.08	0.08	824	0.08	0.08	100	0.013	0.039	0.013	0.039	130	390	
Sum - N2		12.64	100.00												
Sum		100.0													
Total Nitrogen		95.92													

Page 2 of 3

EPA Qual	Det Qual	Rpt
	ND	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **10**

Client ID T-110

Analytical Method ASTM D1945

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Analytical Report
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Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 10

Client: C.E. Schmidt
Client ID: T-110
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 857
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:32
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	707		
Final:	901		
Factor:	1.27		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

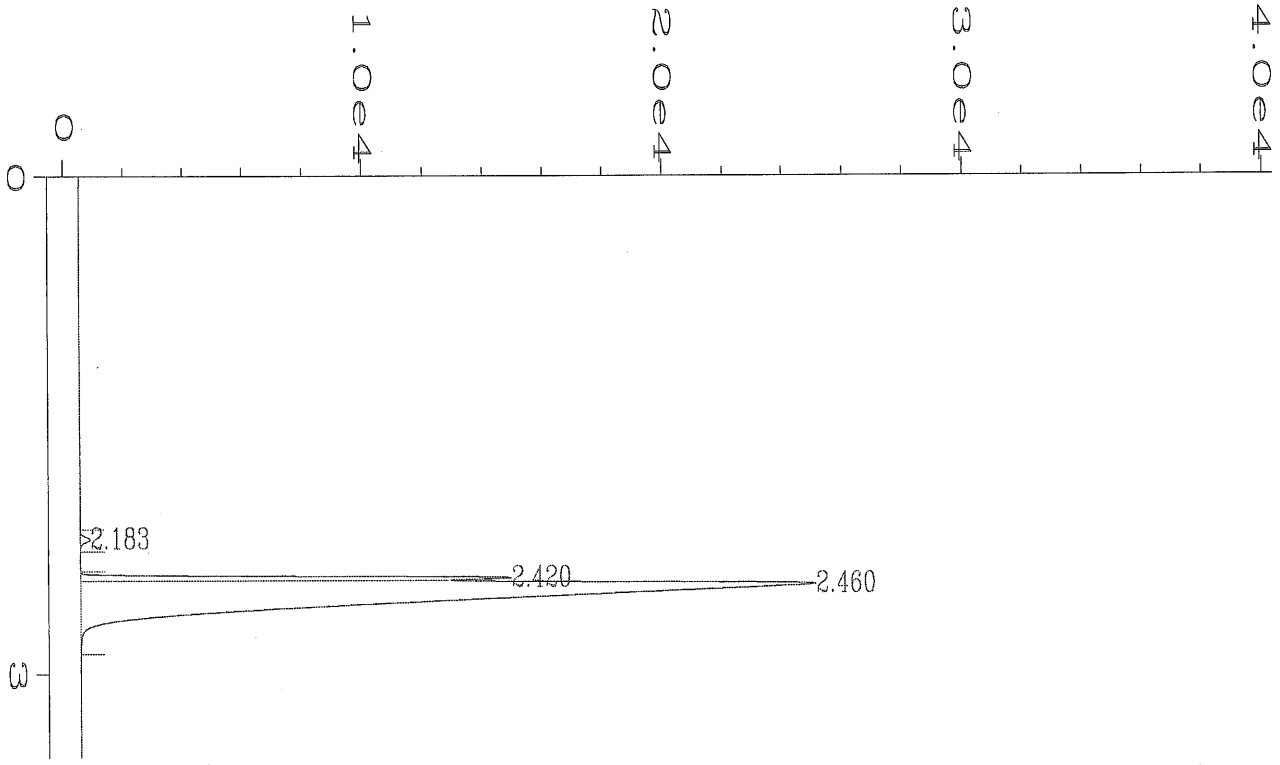
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510010MA.D
Operator : DA
Instrument : GCL
Sample Name : T-110
Run Time Bar Code:
Acquired on : 24 Mar 25 02:20 PM
Report Created on: 26 Mar 25 02:48 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510010MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.183	774	327	BB	0.037	0.3758
2	2.420	22732	14384	BV	0.025	11.0371
3	2.460	182457	24540	VB	0.098	88.5872

Total area = 205963

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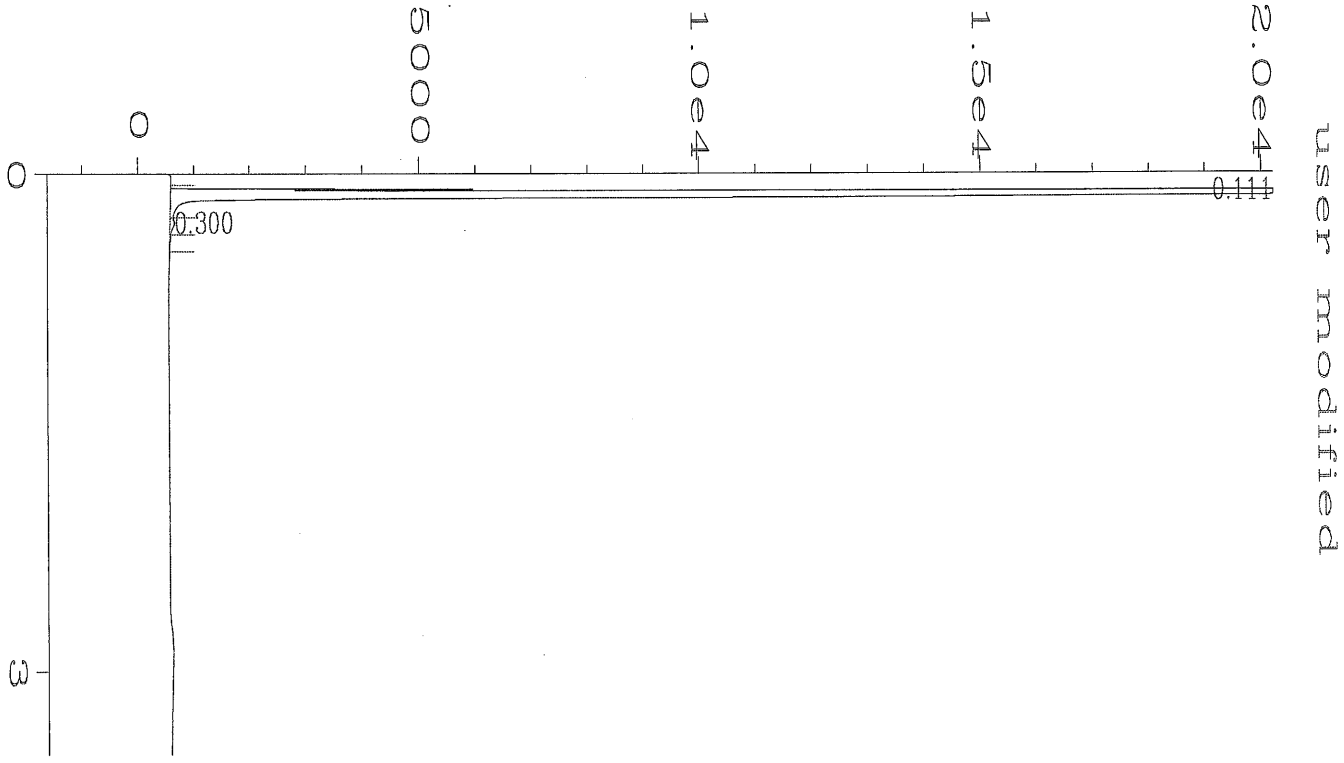

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510010PA.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-110
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 02:20 PM
Instrument Method: ASTM1946.MTH
Report Created on: 26 Mar 25 02:49 PM
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510010PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.111	261686	251294	BB S	0.016	99.8825
2	0.300	308	76	MM	0.068	0.1175

Total area = 261994

User Modified

==========

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 10

File Name: 2510010A
Description: T-110
Can/Tube#: 857
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 11:32
Date Analyzed: 03/24/25 **Time:** 14:20
Can Dilution Factor: 1.27

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.09	382	1,147	852	J
7782-44-7	Oxygen	0.064	0.192	12.57	637	1,912	125,667	
630-08-0	Carbon Monoxide	0.013	0.039	ND	127	382	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.08	127	382	778	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510010A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**10**		SF:	**2**	
Description:	**T-110**		Not Detected Flag:	**ND**	
Date Sampled:	**03/19/25**	Time: **11:32**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **14:20**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**857**				
Can Factor	**1.27**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**1051**
7782-44-7	Oxygen	02	2.27	**22732**
7727-37-9	Nitrogen	03	2.34	**182457**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**308**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510010A		Detect Flag:	ND	**Laboratory Number: 10**
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.27				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.27		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	RL %	MDL ppmv	RL ppmv	Lab Qual
Hydrogen	2.02	0.09	0.09	0.09	852	0.09	0.09	300	0.038	0.115	0.038	0.114	382	1,147	J
Oxygen	32.00	12.57	12.57	12.57	125,667	12.57	12.57	500	0.064	0.191	0.064	0.192	637	1,912	
Nitrogen	28.01	87.27	87.27	87.27	872,702	87.27	87.27	1000	0.127	0.382	0.127	0.381	1,274	3,823	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.038	0.013	0.039	127	382	U
Carbon Dioxide	44.01	0.08	0.08	0.08	778	0.08	0.08	100	0.013	0.038	0.013	0.039	127	382	
Sum- N2		12.73	100.00												
Sum		100.0													
Total Nitrogen		93.35													

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EPA Qual	Det Qual	Rpt
	ND	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **11**

Client ID T-111

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 11

File Name: 2510011A
Description: T-111
Can/Tube#: 504
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 11:32
Date Analyzed: 03/24/25 **Time:** 14:25
Can Dilution Factor: 1.25

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.14	375	1,125	1,404	
7782-44-7	Oxygen	0.062	0.186	12.64	625	1,874	126,435	
630-08-0	Carbon Monoxide	0.012	0.036	ND	125	375	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.04	125	375	374	J

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510011A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**11**		SF:	**2**	
Description:	**T-111**		Not Detected Flag:	**ND**	
Date Sampled:	**03/19/25**	Time: **11:32**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **14:25**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**504**				
Can Factor	**1.25**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**1766**
7782-44-7	Oxygen	02	2.27	**23324**
7727-37-9	Nitrogen	03	2.34	**178398**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**151**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

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CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510011A		Detect Flag:	ND	**Laboratory Number: 11**
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.25				
Air Volume:	0.50 ml		Temp	**25**	C
Base Volume	0.50 ml		Atm P	**760.0**	torr
Dilution Factor	1.25		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	RL %	MDL ppmv	RL ppmv	Lab Qual
Hydrogen	2.02	0.14	0.14	0.14	1,404	0.14	0.14	300	0.037	0.112	0.037	0.111	375	1,125	
Oxygen	32.00	12.64	12.64	12.64	126,435	12.64	12.64	500	0.062	0.187	0.062	0.186	625	1,874	
Nitrogen	28.01	87.18	87.18	87.18	871,786	87.18	87.18	1000	0.125	0.375	0.125	0.375	1,250	3,749	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.037	0.012	0.036	125	375	U
Carbon Dioxide	44.01	0.04	0.04	0.04	374	0.04	0.04	100	0.012	0.037	0.012	0.036	125	375	J
Sum - N2		12.82	100.00												
Sum		100.0													
Total Nitrogen		89.50													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	ND	Y

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 11

Client: C.E. Schmidt
Client ID: T-111
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 504
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:32
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	697		
Final:	871		
Factor:	1.25		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

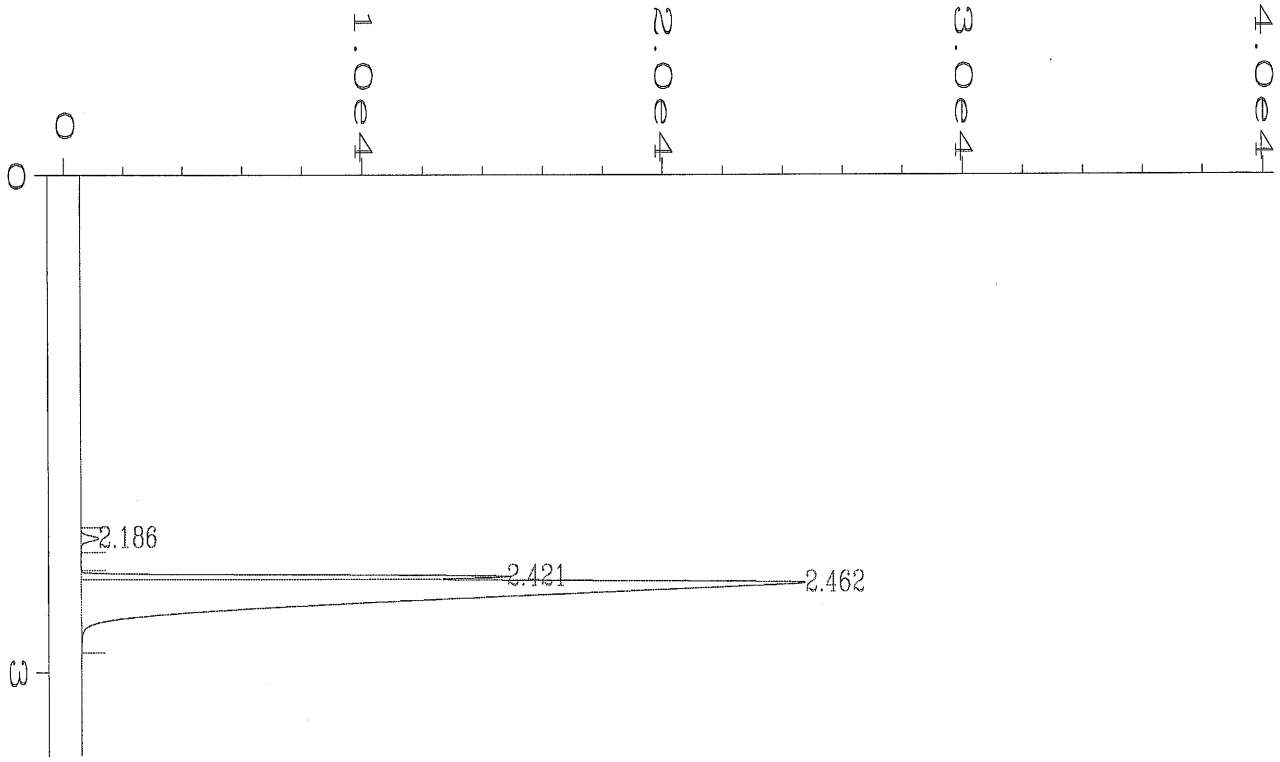
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510011MA.D
Operator : DA
Instrument : GCL
Sample Name : T-111
Run Time Bar Code:
Acquired on : 24 Mar 25 02:25 PM
Report Created on: 26 Mar 25 02:50 PM

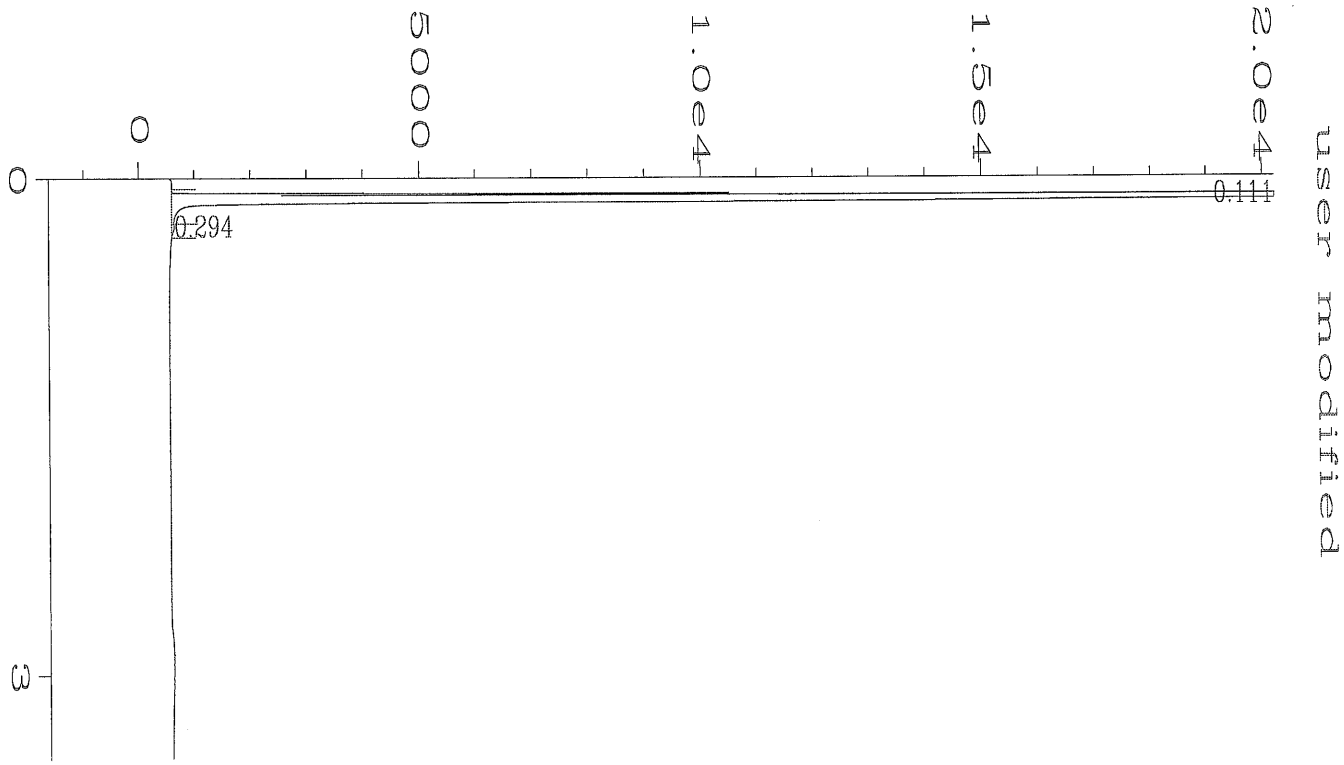
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510011MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.186	1401	594	BB	0.037	0.6896
2	2.421	23324	14389	BV	0.025	11.4826
3	2.462	178398	24137	VB	0.101	87.8278

Total area = 203123

==========



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510011PA.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-111
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 02:25 PM
Instrument Method: ASTM1946.MTH
Report Created on: 26 Mar 25 02:51 PM
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510011PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.111	261832	252865	BB S	0.016	99.9425
2	0.294	151	51	MM	0.050	0.0575

Total area = 261982

User Modified

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **12**

Client ID T-112

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 12

File Name: 2510012A
Description: T-112
Can/Tube#: 631
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 11:38
Date Analyzed: 03/24/25 **Time:** 14:30
Can Dilution Factor: 1.24

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.20	371	1,112	2,031	
7782-44-7	Oxygen	0.062	0.186	12.69	618	1,853	126,859	
630-08-0	Carbon Monoxide	0.012	0.036	ND	124	371	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.03	124	371	345	J

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510012A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**12**		SF:	**2**	
Description:	**T-112**		Not Detected Flag:	**ND**	
Date Sampled:	**03/19/25**	Time: **11:38**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **14:30**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**631**				
Can Factor	**1.24**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**2583**
7782-44-7	Oxygen	02	2.27	**23674**
7727-37-9	Nitrogen	03	2.34	**172810**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**141**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

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CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510012A	Detect Flag:	ND	**Laboratory Number:**	**12**
QCBatch	032425-GCO	Report Normalized:	**No**		
Can Factor	1.24				
Air Volume:	0.50 ml	Temp	**25**	C	
Base Volume	0.50 ml	Atm P	**760.0**	torr	
Dilution Factor	1.24	Gas Constant	24.4		
Gas Constant:	24.4	RL Factor	**3**		
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.20	0.20	0.20	2,031	0.20	0.20	300	0.037	0.111	0.037	0.111	371	1,112	
Oxygen	32.00	12.69	12.69	12.69	126,859	12.69	12.69	500	0.062	0.185	0.062	0.186	618	1,853	
Nitrogen	28.01	87.08	87.08	87.08	870,765	87.08	87.08	1000	0.124	0.371	0.124	0.372	1,235	3,706	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.037	0.012	0.036	124	371	U
Carbon Dioxide	44.01	0.03	0.03	0.03	345	0.03	0.03	100	0.012	0.037	0.012	0.036	124	371	J
Sum - N2		12.92	100.00												
Sum		100.0													
Total Nitrogen		85.70													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	ND	Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 12

Client: C.E. Schmidt
Client ID: T-112
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 631
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:38
Received: 3/21/2025 Time: 14:30

Date:
Initial : 714
Final: 882
Factor: 1.24

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

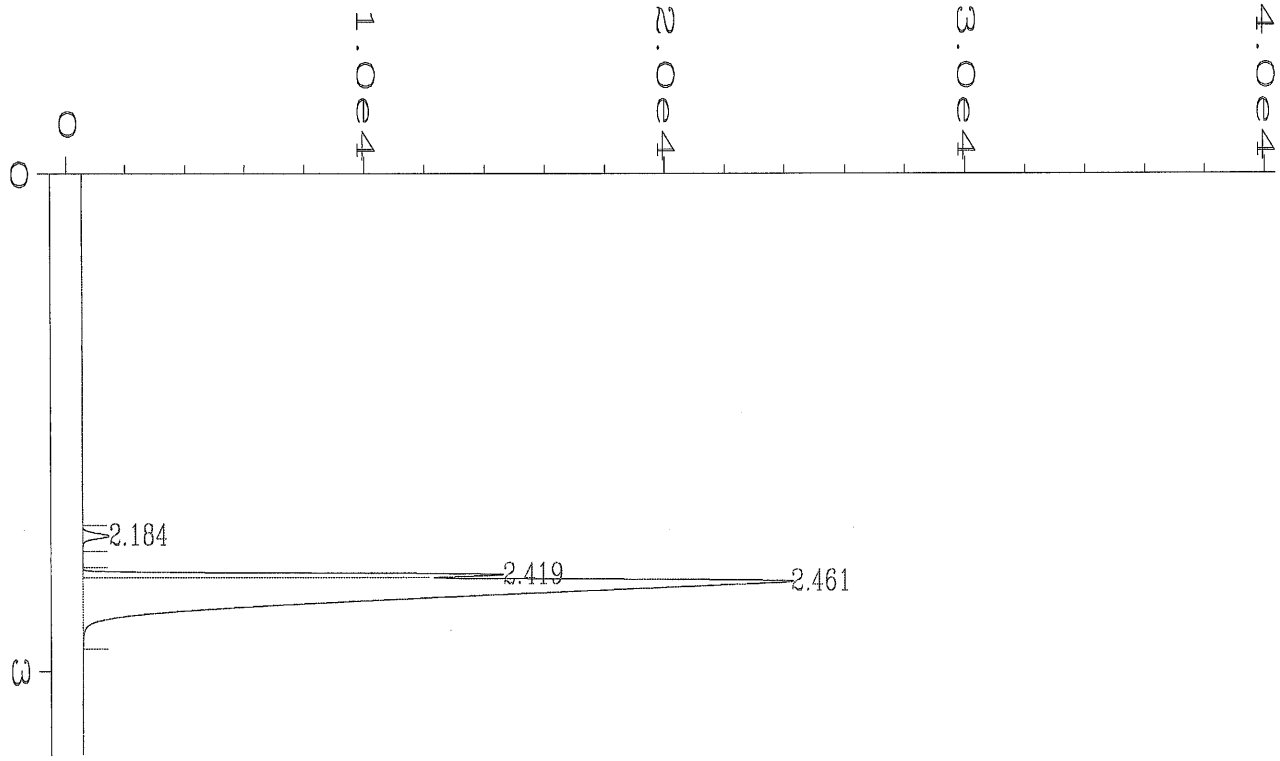
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510012MA.D
Operator : DA
Instrument : GCL
Sample Name : T-112
Run Time Bar Code:
Acquired on : 24 Mar 25 02:30 PM
Report Created on: 26 Mar 25 03:02 PM

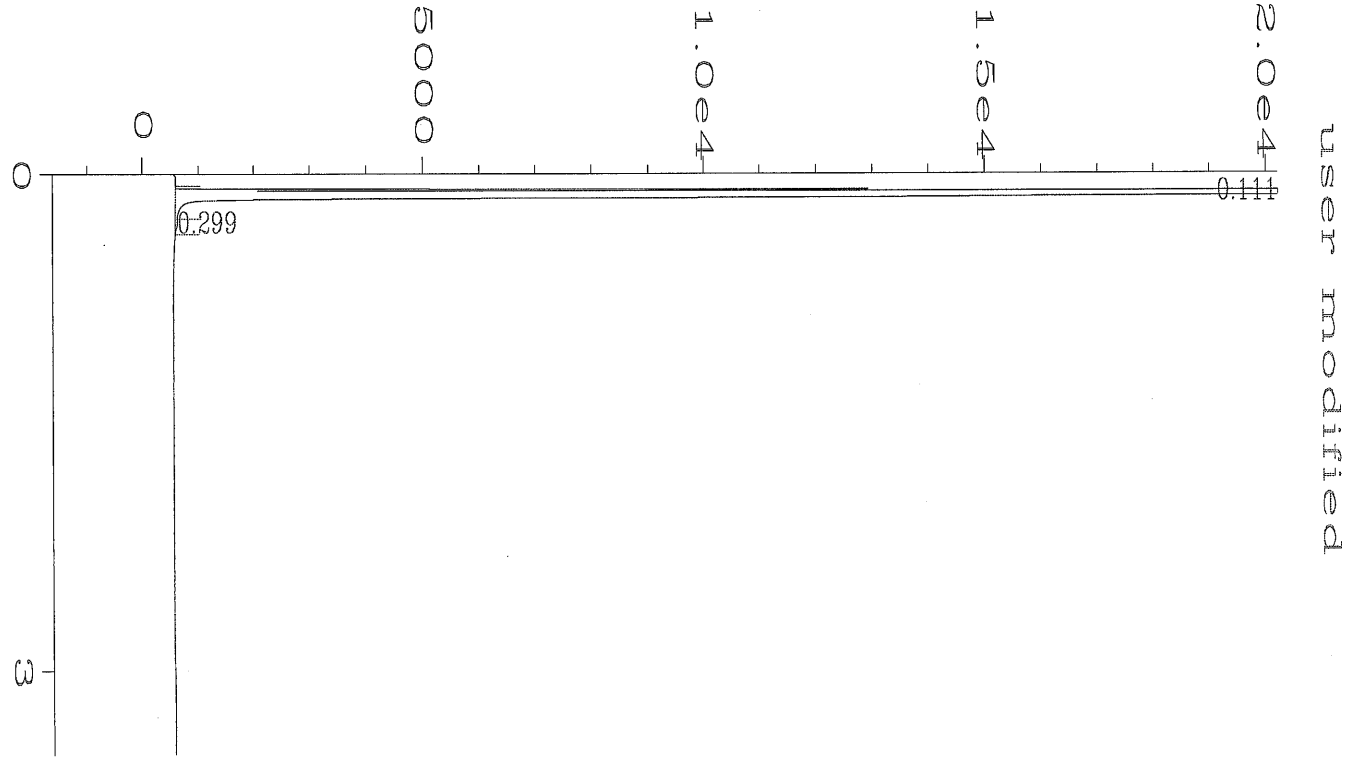
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510012MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.184	2072	875	BB	0.037	1.0434
2	2.419	23674	14056	BV	0.026	11.9232
3	2.461	172810	23715	VB	0.100	87.0334

Total area = 198556

==========



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510012PA.D
Operator : DA
Instrument : GCL
Sample Name : T-112
Run Time Bar Code:
Acquired on : 24 Mar 25 02:30 PM
Report Created on: 27 Mar 25 10:53 AM
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510012PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.111	257600	258416	BB S	0.015	99.9454
2	0.299	141	41	MM	0.057	0.0546

Total area = 257741

User Modified

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **13**

Client ID T-113

Analytical Method ASTM D1945

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Sample Calculations
Chromatogram

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 13

Client: C.E. Schmidt
Client ID: T-113
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 690
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:05
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	705		
Final:	870		
Factor:	1.23		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

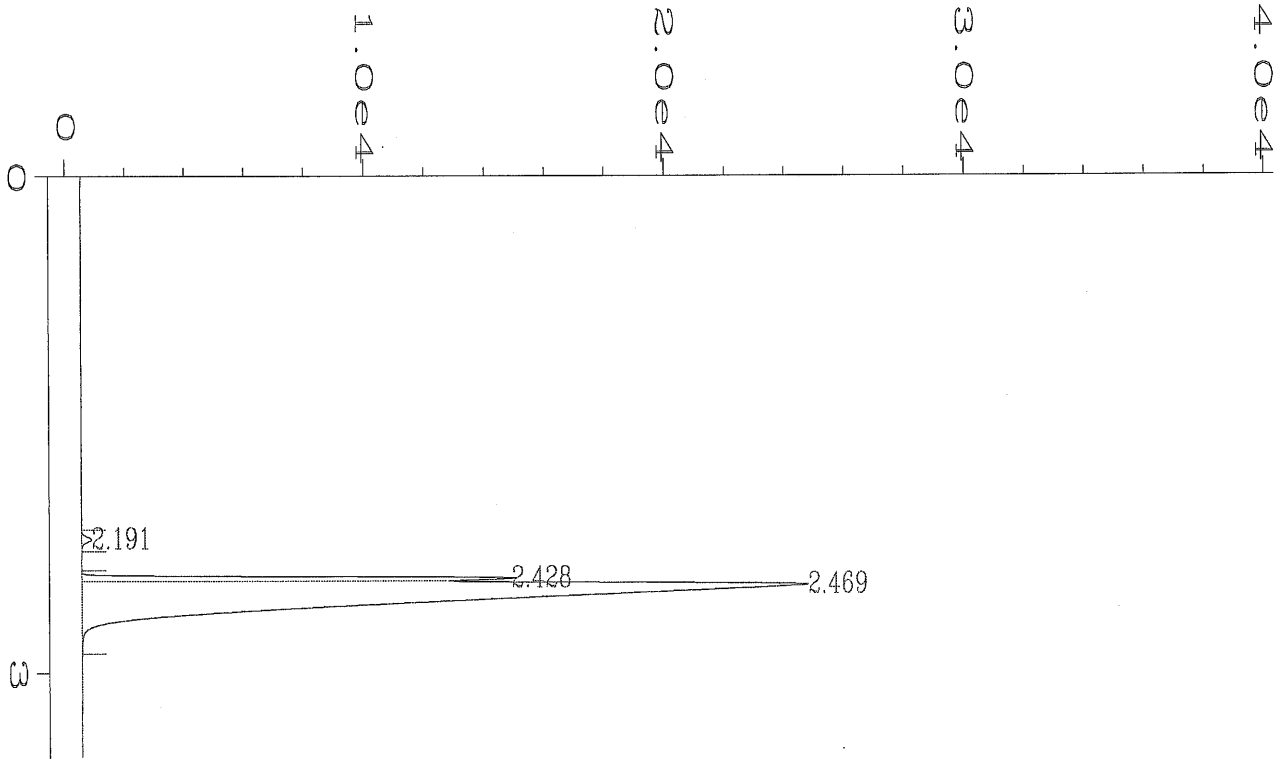
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510013MA.D
Operator : DA
Instrument : GCL
Sample Name : T-113
Run Time Bar Code:
Acquired on : 24 Mar 25 02:47 PM
Report Created on: 26 Mar 25 03:03 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510013MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.191	779	330	BB	0.037	0.3803
2	2.428	23611	14544	BV	0.025	11.5299
3	2.469	180393	24235	VB	0.102	88.0897

Total area = 204783

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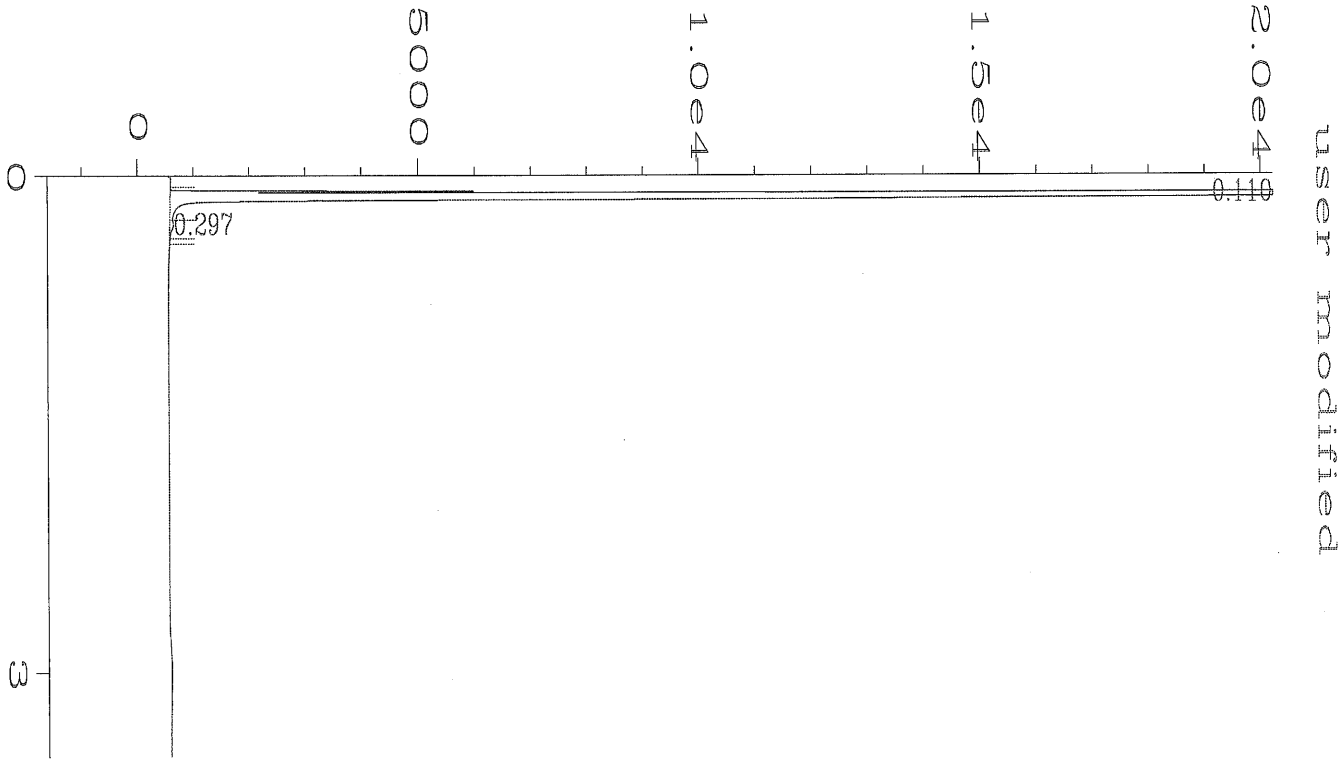

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510013PA.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-113
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 02:47 PM
Instrument Method: ASTM1946.MTH
Report Created on: 26 Mar 25 03:04 PM
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510013PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.110	266557	251479	BB S	0.016	99.9046
2	0.297	255	66	MM	0.064	0.0954

Total area = 266812

User Modified

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 13

File Name: 2510013A
Description: T-113
Can/Tube#: 690
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 13:05
Date Analyzed: 03/24/25 **Time:** 14:47
Can Dilution Factor: 1.23

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.08	370	1,111	766	J
7782-44-7	Oxygen	0.062	0.186	12.64	617	1,851	126,393	
630-08-0	Carbon Monoxide	0.012	0.036	ND	123	370	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.06	123	370	624	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510013A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**13**		SF:	**2**	
Description:	**T-113**		Not Detected Flag:	**ND**	
Date Sampled:	**03/19/25**	Time: **13:05**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **14:47**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**690**				
Can Factor	**1.23**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**975**
7782-44-7	Oxygen	02	2.27	**23611**
7727-37-9	Nitrogen	03	2.34	**180393**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**255**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510013A		Detect Flag:	ND	**Laboratory Number: 13**
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.23				
Air Volume:	0.50 ml		Temp	**25**	C
Base Volume	0.50 ml		Atm P	**760.0**	torr
Dilution Factor	1.23		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.08	0.08	0.08	766	0.08	0.08	300	0.037	0.111	0.037	0.111	370	1,111	J
Oxygen	32.00	12.64	12.64	12.64	126,393	12.64	12.64	500	0.062	0.185	0.062	0.186	617	1,851	
Nitrogen	28.01	87.22	87.22	87.22	872,217	87.22	87.22	1000	0.123	0.370	0.123	0.369	1,234	3,702	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.037	0.012	0.036	123	370	U
Carbon Dioxide	44.01	0.06	0.06	0.06	624	0.06	0.06	100	0.012	0.037	0.012	0.036	123	370	
Sum - N2		12.78	100.00												
Sum		100.0													
Total Nitrogen		89.37													

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EPA Qual	Det Qual	Rpt
	ND	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **14**

Client ID T-114

Analytical Method ASTM D1945

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Analytical Report
Quantitation Report
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Chromatogram

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 14

Client: C.E. Schmidt
Client ID: T-114
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 645
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:11
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	701			
Final:	888			
Factor:	1.27			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

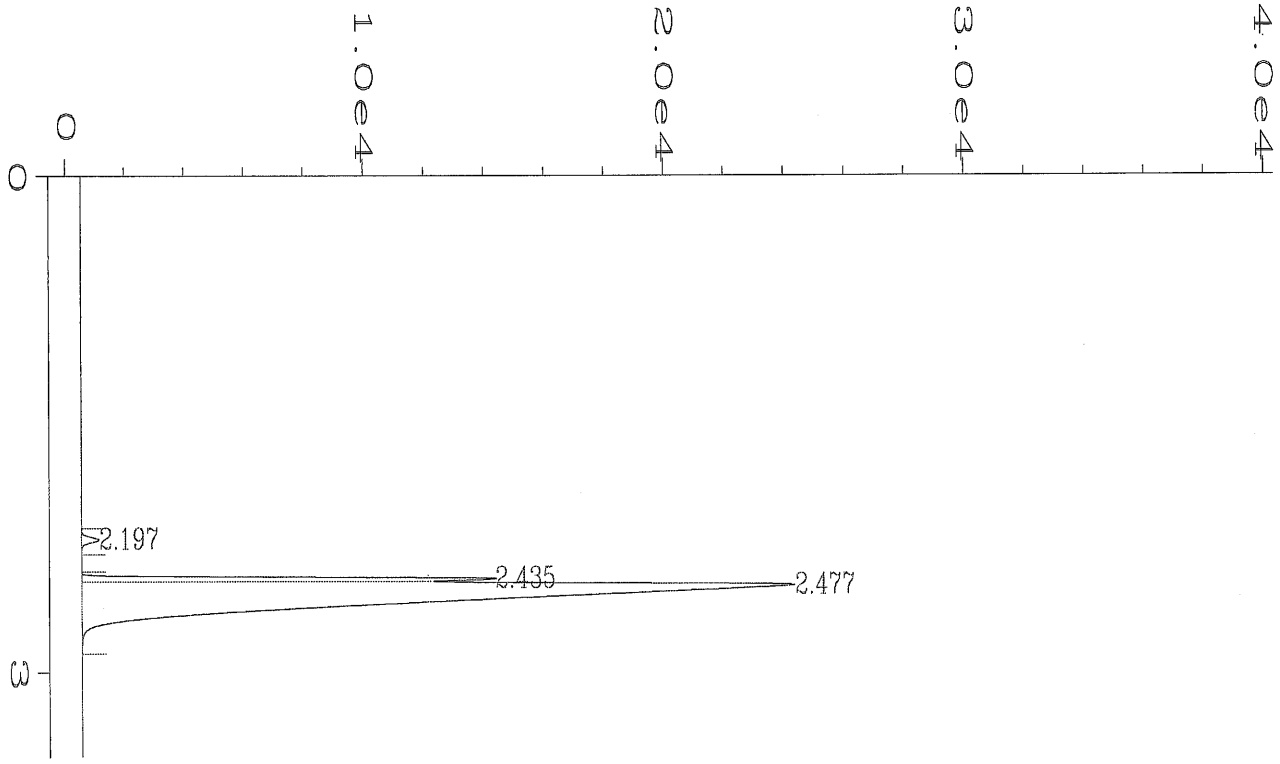
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510014MA.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-114
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 02:52 PM
Instrument Method: ASTM1946.MTH
Report Created on: 26 Mar 25 03:04 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510014MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.197	1455	607	BB	0.037	0.7291
2	2.435	22695	13873	BV	0.025	11.3716
3	2.477	175424	23793	VB	0.099	87.8993

Total area = 199574

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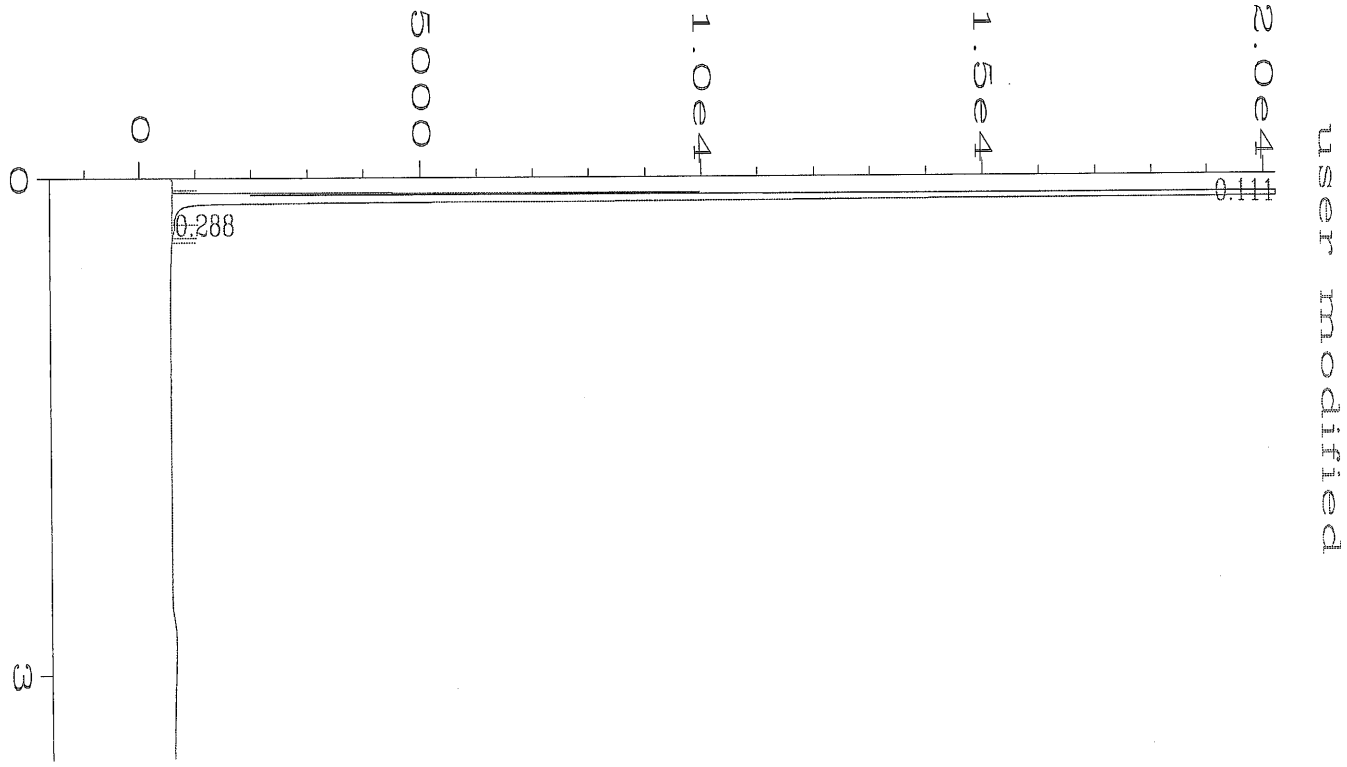

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510014PA.D
Operator : DA
Instrument : GCL
Sample Name : T-114
Run Time Bar Code:
Acquired on : 24 Mar 25 02:52 PM
Report Created on: 26 Mar 25 03:05 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510014PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.111	252680	258582	BB S	0.015	99.9444
2	0.288	141	49	MM	0.047	0.0556

Total area = 252821

User Modified

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 14

File Name: 2510014A
Description: T-114
Can/Tube#: 645
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 13:11
Date Analyzed: 03/24/25 **Time:** 14:52
Can Dilution Factor: 1.27

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.18	380	1,140	1,818	
7782-44-7	Oxygen	0.063	0.189	12.47	633	1,900	124,711	
630-08-0	Carbon Monoxide	0.013	0.039	ND	127	380	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.04	127	380	354	J

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510014A**			Method:	**D1945**
SDG:	**225100**			Cal Update:	**4/19/24**
Lab Id:	**14**			SF:	**2**
Description:	**T-114**			Not Detected Flag:	**ND**
Date Sampled:	**03/19/25**	Time:	**13:11**	Matrix	**AA**
Date Received:	**03/21/25**	Time:	**14:30**	Type	**TRG**
Date Analyzed:	**03/24/25**	Time:	**14:52**	Instrument	**GCO**
QCBatch	**032425-GCO**			Flux Factor:	0.385 mg/m2*min
Can Number	**645**				
Can Factor	**1.27**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**2255**
7782-44-7	Oxygen	02	2.27	**22695**
7727-37-9	Nitrogen	03	2.34	**175424**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**141**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510014A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.27				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.27		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Laboratory Number: 14

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.18	0.18	0.18	1,818	0.18	0.18	300	0.038	0.114	0.038	0.114	380	1,140	
Oxygen	32.00	12.47	12.47	12.47	124,711	12.47	12.47	500	0.063	0.190	0.063	0.189	633	1,900	
Nitrogen	28.01	87.31	87.31	87.31	873,117	87.31	87.31	1000	0.127	0.380	0.127	0.381	1,267	3,800	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.038	0.013	0.039	127	380	U
Carbon Dioxide	44.01	0.04	0.04	0.04	354	0.04	0.04	100	0.013	0.038	0.013	0.039	127	380	J
Sum - N2		12.69	100.00												
Sum		100.0													
Total Nitrogen		89.22													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	ND	Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **15**

Client ID T-115

Analytical Method ASTM D1945

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Sample Calculations
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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 15

File Name: 2510015A
Description: T-115
Can/Tube#: 654
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 12:53
Date Analyzed: 03/24/25 **Time:** 14:56
Can Dilution Factor: 1.27

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.37	380	1,139	3,672	
7782-44-7	Oxygen	0.063	0.189	12.45	633	1,899	124,490	
630-08-0	Carbon Monoxide	0.013	0.039	ND	127	380	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.02	127	380	206	J

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510015A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**15**		SF:	**2**	
Description:	**T-115**		Not Detected Flag:	**ND**	
Date Sampled:	**03/19/25**	Time: **12:53**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **14:56**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**654**				
Can Factor	**1.27**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**4559**
7782-44-7	Oxygen	02	2.27	**22672**
7727-37-9	Nitrogen	03	2.34	**171010**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**82**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510015A		Detect Flag:	ND	**Laboratory Number: 15**
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.27				
Air Volume:	0.50 ml		Temp	**25**	C
Base Volume	0.50 ml		Atm P	**760.0**	torr
Dilution Factor	1.27		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.37	0.37	0.37	3,672	0.37	0.37	300	0.038	0.114	0.038	0.114	380	1,139	
Oxygen	32.00	12.45	12.45	12.45	124,490	12.45	12.45	500	0.063	0.190	0.063	0.189	633	1,899	
Nitrogen	28.01	87.16	87.16	87.16	871,631	87.16	87.16	1000	0.127	0.380	0.127	0.381	1,266	3,797	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.038	0.013	0.039	127	380	U
Carbon Dioxide	44.01	0.02	0.02	0.02	206	0.02	0.02	100	0.013	0.038	0.013	0.039	127	380	J
Sum - N2		12.84	100.00												
Sum		100.0													
Total Nitrogen		86.91													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	ND	Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 15

Client: C.E. Schmidt
Client ID: T-115
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 654
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Initial : 696
Final: 881
Factor: 1.27

Sampled: 3/19/2025 Time: 12:53
Received: 3/21/2025 Time: 14:30

Date:

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

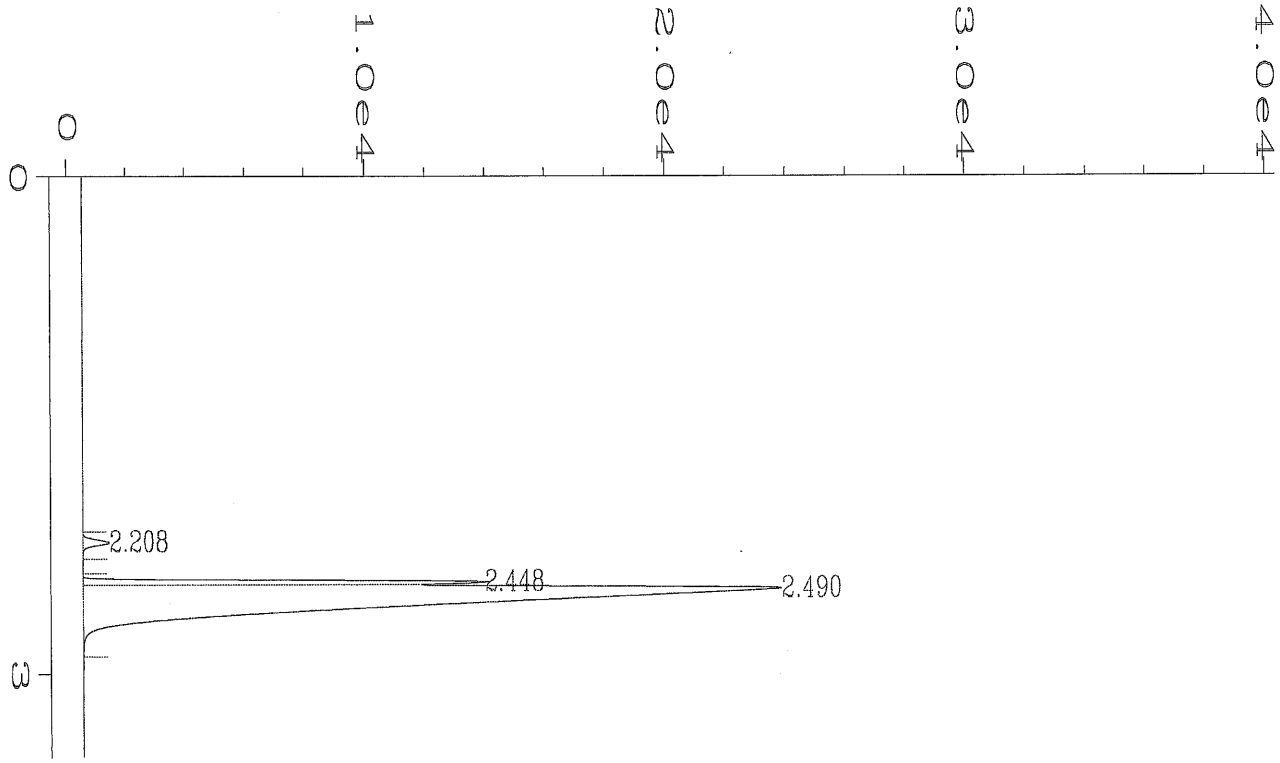
Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions: EAS QC Criteria
Report Types: PDF Only
EDD Instructions EDD Type:



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510015MA.D
Operator : DA
Instrument : GCL
Sample Name : T-115
Run Time Bar Code:
Acquired on : 24 Mar 25 02:56 PM
Report Created on: 26 Mar 25 03:06 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510015MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.208	2170	900	BB	0.038	1.1078
2	2.448	22672	13634	BV	0.026	11.5760
3	2.490	171010	23305	VB	0.098	87.3162

Total area = 195851

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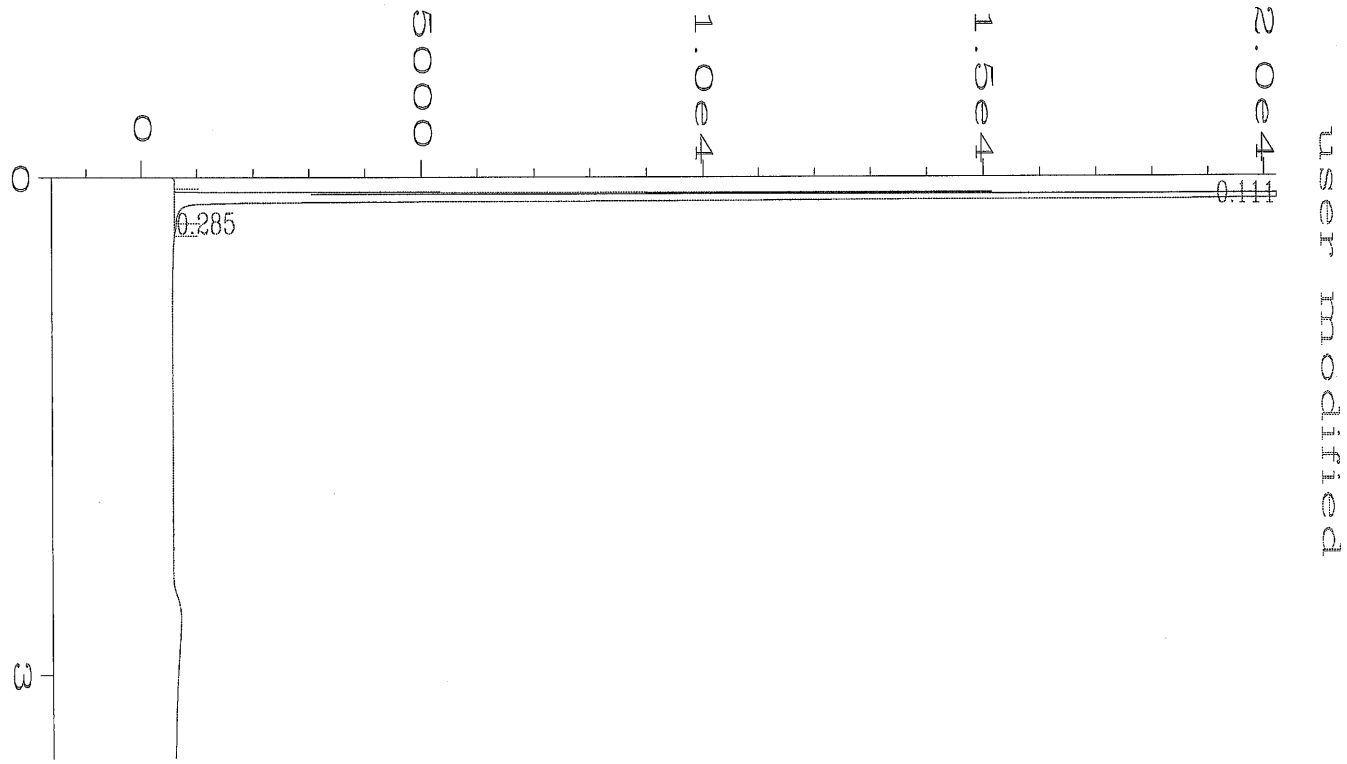

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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510015PA.D
Operator : DA
Instrument : GCL
Sample Name : T-115
Run Time Bar Code:
Acquired on : 24 Mar 25 02:56 PM
Report Created on: 27 Mar 25 11:07 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510015PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.111	252928	246819	BB S	0.016	99.9676
2	0.285	82	34	MM	0.040	0.0324

Total area = 253010

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **16**

Client ID T-116

Analytical Method ASTM D1945

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Chromatogram

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 16

Client: C.E. Schmidt
Client ID: T-116
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 782
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:03
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	706	761		
Final:	881	902		
Factor:	1.25			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

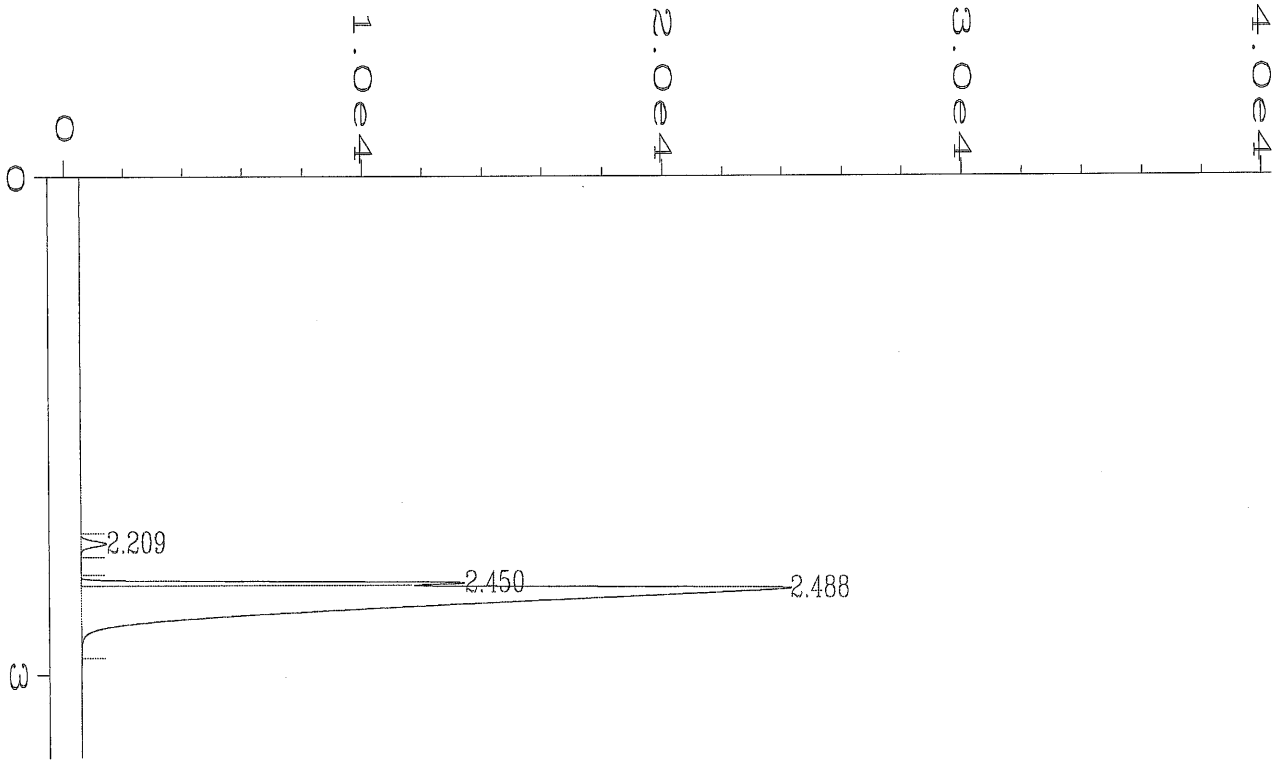
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510016MA.D
Operator : DA
Instrument : GCL
Sample Name : T-116
Run Time Bar Code:
Acquired on : 24 Mar 25 03:04 PM
Report Created on: 26 Mar 25 03:07 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510016MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.209	2091	872	BB	0.037	1.0654
2	2.450	19295	12841	BV	0.025	9.8314
3	2.488	174875	23760	VB	0.097	89.1032

Total area = 196261

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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510016PA.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-116
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 03:04 PM
Instrument Method: ASTM1946.MTH
Report Created on: 26 Mar 25 03:07 PM
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510016PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.112	251665	229721	BB S	0.024	100.0000

Total area = 251665

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 16

File Name: 2510016A
Description: T-116
Can/Tube#: 782
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 13:03
Date Analyzed: 03/24/25 **Time:** 15:04
Can Dilution Factor: 1.48

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.044	0.132	0.44	444	1,331	4,403	
7782-44-7	Oxygen	0.074	0.222	12.38	740	2,219	123,799	
630-08-0	Carbon Monoxide	0.015	0.045	ND	148	444	ND	ND
124-38-9	Carbon Dioxide	0.015	0.045	ND	148	444	ND	ND

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510016A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**16**		SF:	**2**	
Description:	**T-116**		Not Detected Flag:	**ND**	
Date Sampled:	**03/19/25**	Time: **13:03**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **15:04**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**782**				
Can Factor	**1.48**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**4678**
7782-44-7	Oxygen	02	2.27	**19295**
7727-37-9	Nitrogen	03	2.34	**174875**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**0**

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The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510016A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.48				
Air Volume:	0.50 ml		Temp	**25**	C
Base Volume	0.50 ml		Atm P	**760.0**	torr
Dilution Factor	1.48		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Laboratory Number: 16

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.44	0.44	0.44	4,403	0.44	0.44	300	0.044	0.133	0.044	0.132	444	1,331	
Oxygen	32.00	12.38	12.38	12.38	123,799	12.38	12.38	500	0.074	0.222	0.074	0.222	740	2,219	
Nitrogen	28.01	87.18	87.18	87.18	871,798	87.18	87.18	1000	0.148	0.444	0.148	0.444	1,479	4,437	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.015	0.044	0.015	0.045	148	444	U
Carbon Dioxide	44.01	0.00	0.00	ND	ND	0.00		100	0.015	0.044	0.015	0.045	148	444	U
Sum - N2		12.82	100.00												
Sum		100.0													
Total Nitrogen		103.84													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	ND	Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **17**

Client ID T-117

Analytical Method ASTM D1945

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Chromatogram

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 17

Client: C.E. Schmidt
Client ID: T-117
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 643
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:03
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	709			
Final:	883			
Factor:	1.25			

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:		Item Description:	Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions

Sample Type:

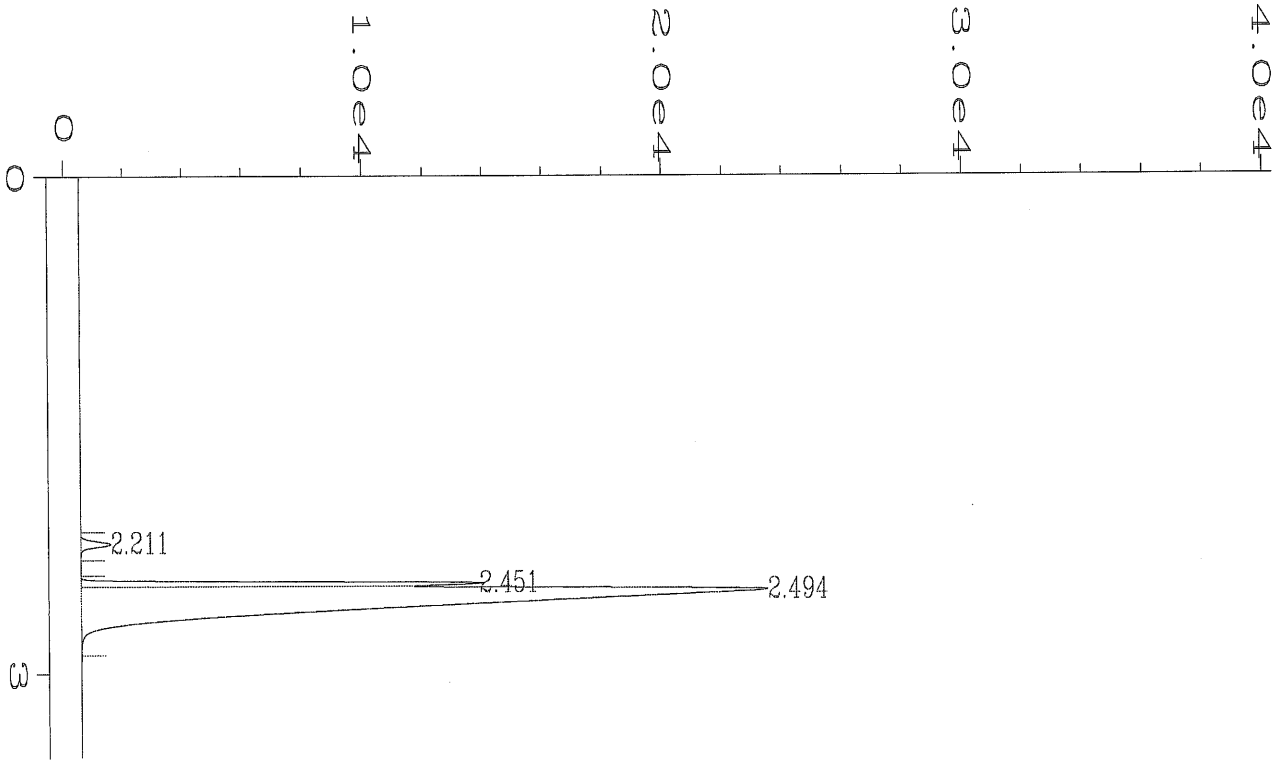
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510017MA.D
Operator : DA
Instrument : GCL
Sample Name : T-117
Run Time Bar Code:
Acquired on : 24 Mar 25 03:10 PM
Report Created on: 26 Mar 25 03:08 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510017MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.211	2450	1010	BB	0.038	1.2684
2	2.451	23148	13518	BV	0.027	11.9829
3	2.494	167579	22946	VB	0.097	86.7487

Total area = 193177

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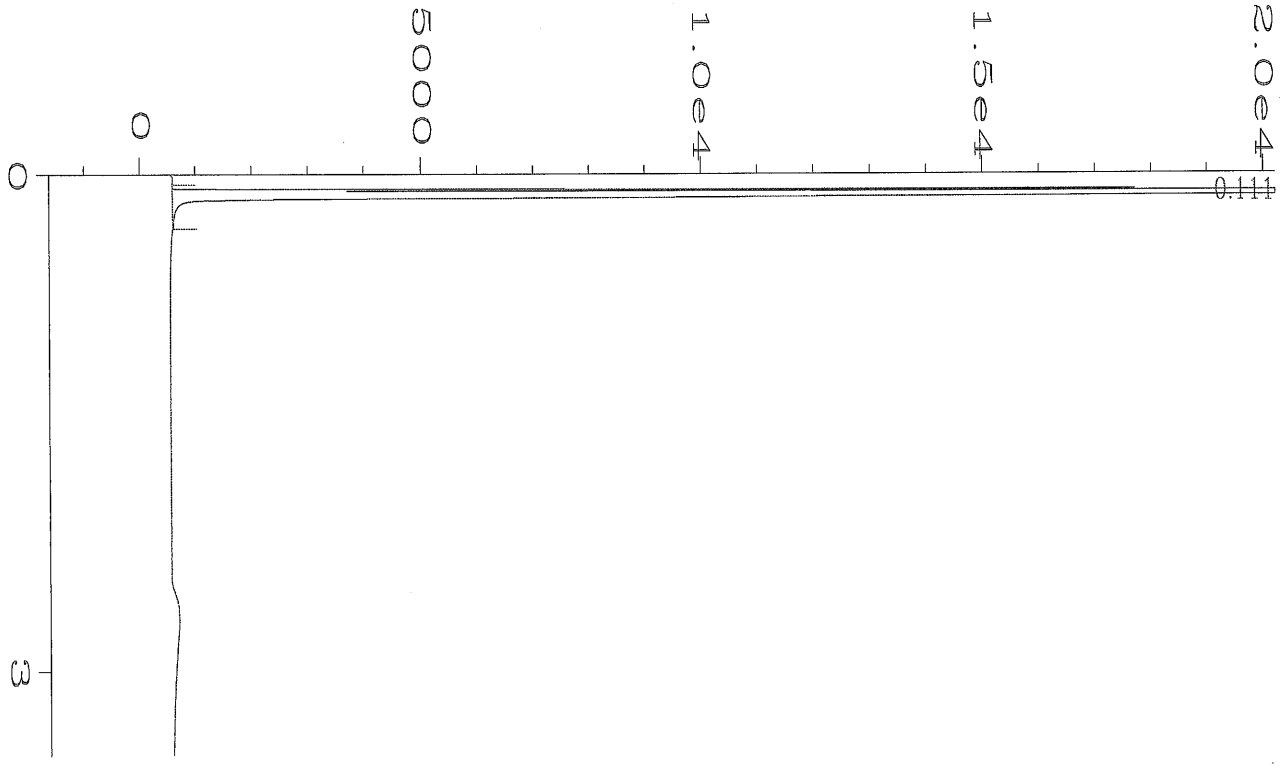

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510017PA.D
Operator : DA
Instrument : GCL
Sample Name : T-117
Run Time Bar Code:
Acquired on : 24 Mar 25 03:10 PM
Report Created on: 26 Mar 25 03:08 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510017PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.111	246530	241749	BB S	0.016	100.0000

Total area = 246530

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 17

File Name: 2510017A
Description: T-117
Can/Tube#: 643
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 13:03
Date Analyzed: 03/24/25 **Time:** 15:10
Can Dilution Factor: 1.25

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.47	374	1,121	4,705	
7782-44-7	Oxygen	0.062	0.186	12.51	623	1,868	125,057	
630-08-0	Carbon Monoxide	0.012	0.036	ND	125	374	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	ND	125	374	ND	ND

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510017A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**17**		SF:	**2**	
Description:	**T-117**		Not Detected Flag:	**ND**	
Date Sampled:	**03/19/25**	Time: **13:03**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **15:10**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**643**				
Can Factor	**1.25**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**5936**
7782-44-7	Oxygen	02	2.27	**23148**
7727-37-9	Nitrogen	03	2.34	**167579**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**0**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510017A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.25				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.25		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Laboratory Number: 17

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.47	0.47	0.47	4,705	0.47	0.47	300	0.037	0.112	0.037	0.111	374	1,121	
Oxygen	32.00	12.51	12.51	12.51	125,057	12.51	12.51	500	0.062	0.187	0.062	0.186	623	1,868	
Nitrogen	28.01	87.02	87.02	87.02	870,238	87.02	87.02	1000	0.125	0.374	0.125	0.375	1,245	3,736	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.037	0.012	0.036	125	374	U
Carbon Dioxide	44.01	0.00	0.00	ND	ND	0.00		100	0.012	0.037	0.012	0.036	125	374	U
Sum - N2		12.98	100.00												
Sum		100.0													
Total Nitrogen		83.79													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	ND	Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **18**

Client ID T-118

Analytical Method ASTM D1945

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Analytical Report
Quantitation Report
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Chromatogram

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 18

Client: C.E. Schmidt
Client ID: T-118
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 553
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:25
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	783			
Final:	891			
Factor:	1.14			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

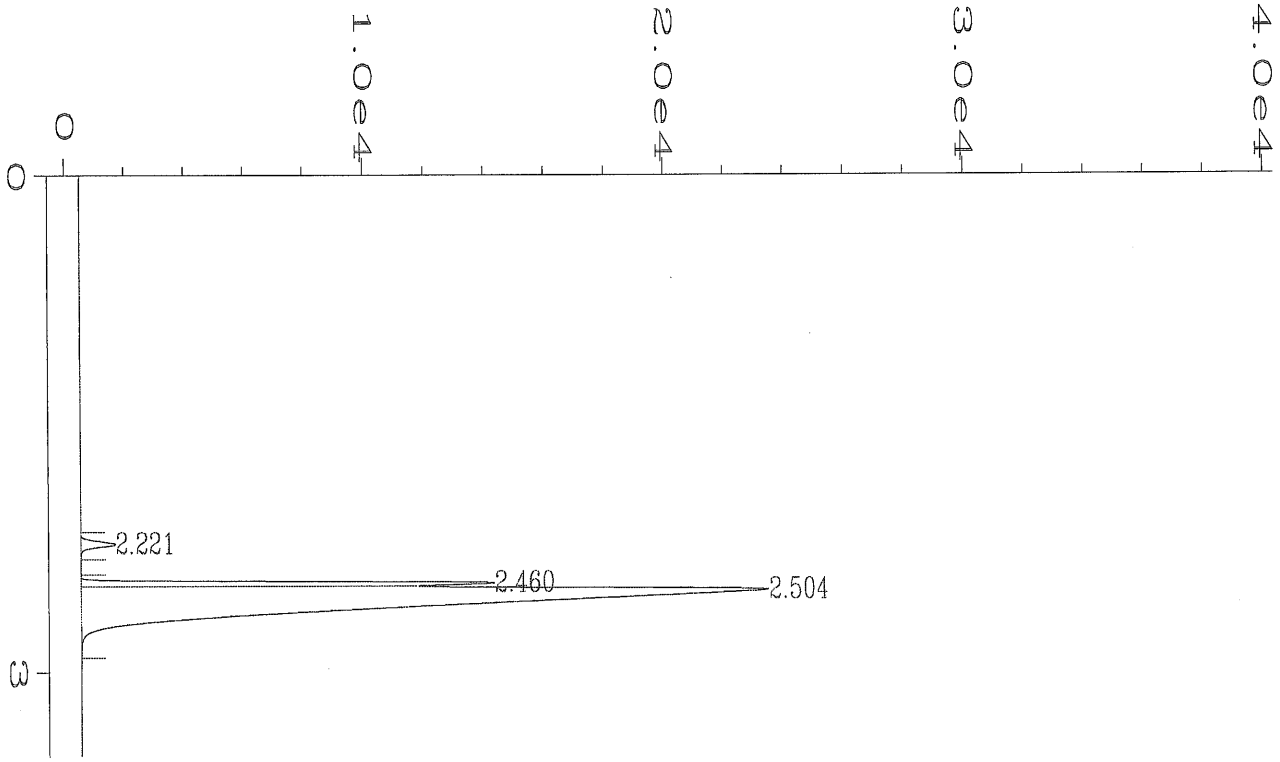
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510018MA.D
Operator : DA
Instrument : GCL
Sample Name : T-118
Run Time Bar Code:
Acquired on : 24 Mar 25 03:14 PM
Report Created on: 26 Mar 25 03:08 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510018MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.221	2836	1163	BB	0.038	1.4490
2	2.460	24162	13799	BV	0.027	12.3450
3	2.504	168727	22969	VB	0.100	86.2060

Total area = 195726

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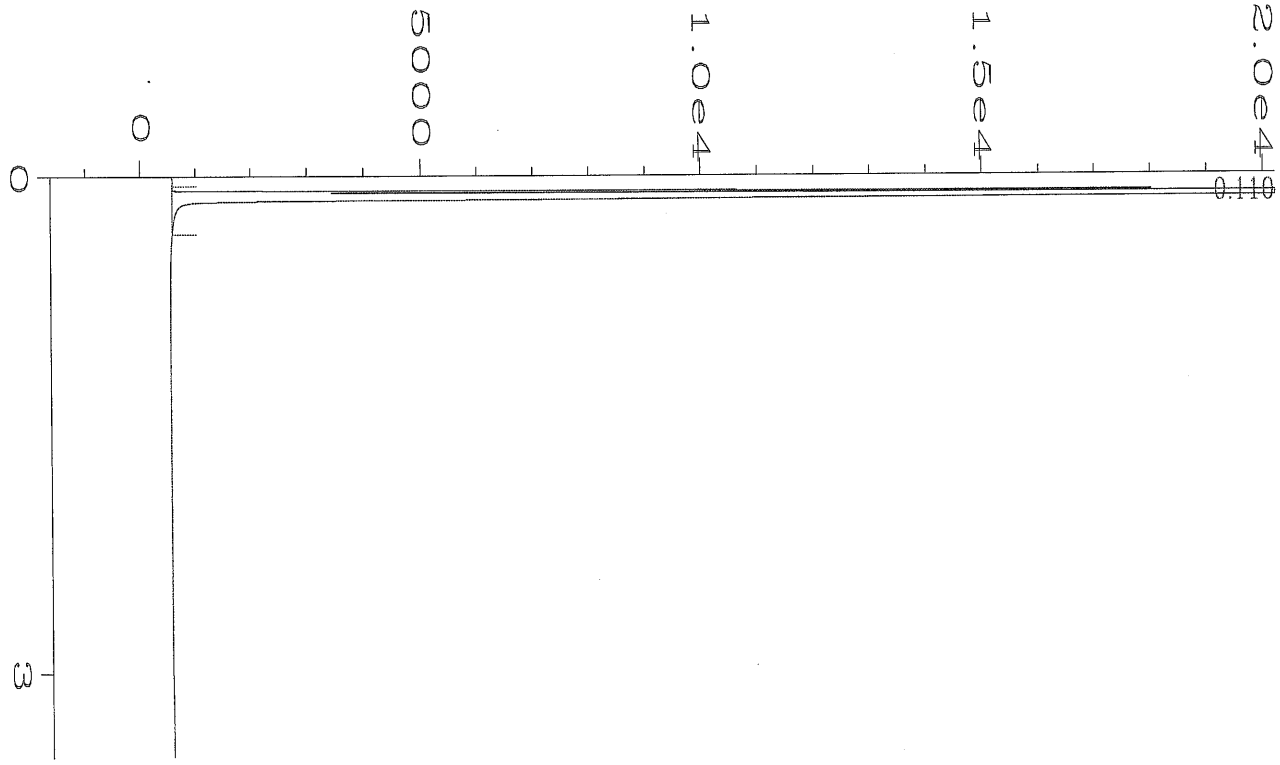

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510018PA.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-118
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 03:14 PM
Instrument Method: ASTM1946.MTH
Report Created on: 26 Mar 25 03:09 PM
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510018PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.110	252712	241416	BB S	0.042	100.0000

Total area = 252712

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 18

File Name: 2510018A
Description: T-118
Can/Tube#: 553
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 13:25
Date Analyzed: 03/24/25 **Time:** 15:14
Can Dilution Factor: 1.14

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.034	0.102	0.36	341	1,024	3,582	
7782-44-7	Oxygen	0.057	0.171	11.93	569	1,707	119,269	
630-08-0	Carbon Monoxide	0.011	0.033	ND	114	341	ND	ND
124-38-9	Carbon Dioxide	0.011	0.033	ND	114	341	ND	ND

QUANTITATION REPORT
ASTM D1945 GC/TCD

File Name:	**2510018A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**18**		SF:	**2**	
Description:	**T-118**		Not Detected Flag:	**ND**	
Date Sampled:	**03/19/25**	Time: **13:25**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **15:14**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**553**				
Can Factor	**1.14**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**4946**
7782-44-7	Oxygen	02	2.27	**24162**
7727-37-9	Nitrogen	03	2.34	**168727**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**0**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510018A		Detect Flag:	ND	**Laboratory Number: 18**
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.14				
Air Volume:	0.50 ml		Temp	**25**	C
Base Volume	0.50 ml		Atm P	**760.0**	torr
Dilution Factor	1.14		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.36	0.36	0.36	3,582	0.36	0.36	300	0.034	0.102	0.034	0.102	341	1,024	
Oxygen	32.00	11.93	11.93	11.93	119,269	11.93	11.93	500	0.057	0.171	0.057	0.171	569	1,707	
Nitrogen	28.01	87.71	87.71	87.71	877,149	87.71	87.71	1000	0.114	0.341	0.114	0.342	1,138	3,414	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.011	0.034	0.011	0.033	114	341	U
Carbon Dioxide	44.01	0.00	0.00	ND	ND	0.00		100	0.011	0.034	0.011	0.033	114	341	U
Sum - N2		12.29	100.00												
Sum		100.0													
Total Nitrogen		77.08													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	ND	Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **19**

Client ID T-201

Analytical Method ASTM D1945

Index

Analytical Report
Quantitation Report
Calculations
Sample Calculations
Chromatogram

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 19

Client: C.E. Schmidt
Client ID: T-201
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 726
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:23
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	738		
Final:	895		
Factor:	1.21		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

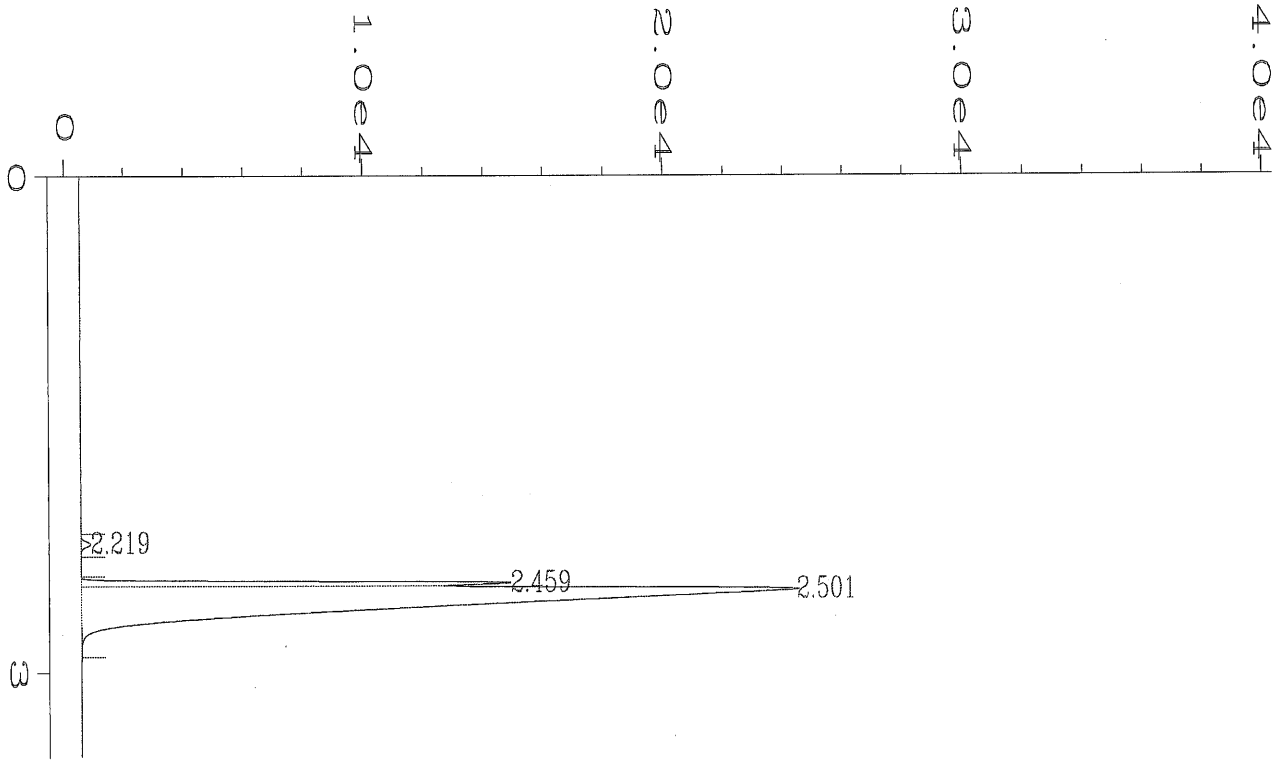
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



==========

Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510019MA.D
Operator : DA
Instrument : GCL
Sample Name : T-201
Run Time Bar Code:
Acquired on : 24 Mar 25 03:19 PM
Report Created on: 26 Mar 25 03:10 PM

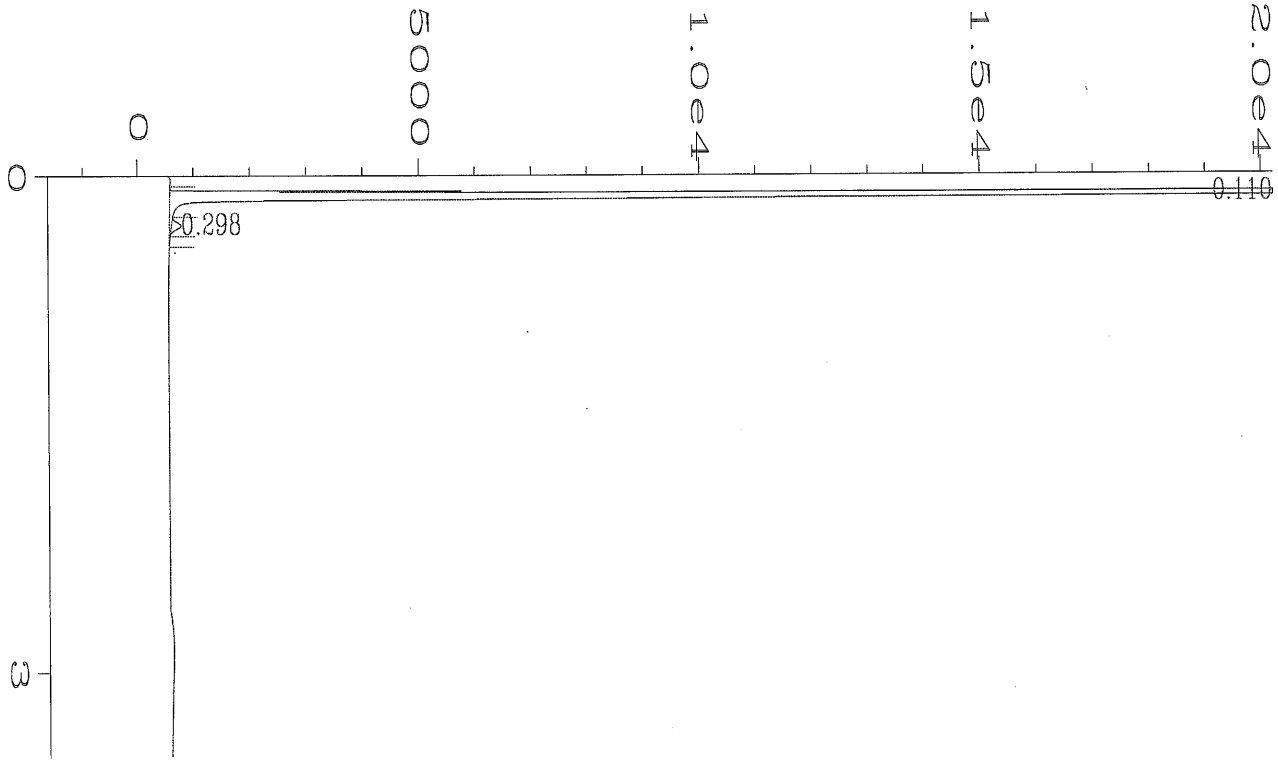
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510019MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.219	786	325	BB	0.037	0.3830
2	2.459	25520	14370	BV	0.027	12.4387
3	2.501	178858	23974	VB	0.100	87.1783

Total area = 205163

==========



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510019PA.D
Operator : DA
Instrument : GCL
Sample Name : T-201
Run Time Bar Code:
Acquired on : 24 Mar 25 03:19 PM
Report Created on: 26 Mar 25 03:10 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510019PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.110	254906	246814	BB S	0.039	99.8018
2	0.298	506	170	BB T	0.046	0.1982

Total area = 255413

==========

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 19

File Name: 2510019A
Description: T-201
Can/Tube#: 726
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 8:23
Date Analyzed: 03/24/25 **Time:** 15:19
Can Dilution Factor: 1.21

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.06	364	1,091	600	J
7782-44-7	Oxygen	0.061	0.183	13.43	606	1,819	134,254	
630-08-0	Carbon Monoxide	0.012	0.036	ND	121	364	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.12	121	364	1,216	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510019A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**19**		SF:	**2**	
Description:	**T-201**		Not Detected Flag:	**ND**	
Date Sampled:	**03/19/25**	Time: **8:23**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **15:19**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**726**				
Can Factor	**1.21**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**777**
7782-44-7	Oxygen	02	2.27	**25520**
7727-37-9	Nitrogen	03	2.34	**178858**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**506**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510019A	Detect Flag:	ND	**Laboratory Number: 19**
QCBatch	032425-GCO	Report Normalized:	**No**	
Can Factor	1.21			
Air Volume:	0.50 ml	Temp	**25** C	
Base Volume	0.50 ml	Atm P	**760.0** torr	
Dilution Factor	1.21	Gas Constant	24.4	
Gas Constant:	24.4	RL Factor	**3**	
Decimal Places:	2			

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.06	0.06	0.06	600	0.06	0.06	300	0.036	0.109	0.036	0.108	364	1,091	J
Oxygen	32.00	13.43	13.43	13.43	134,254	13.43	13.43	500	0.061	0.182	0.061	0.183	606	1,819	
Nitrogen	28.01	86.39	86.39	86.39	863,930	86.39	86.39	1000	0.121	0.364	0.121	0.363	1,213	3,638	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.036	0.012	0.036	121	364	U
Carbon Dioxide	44.01	0.12	0.12	0.12	1,216	0.12	0.12	100	0.012	0.036	0.012	0.036	121	364	
Sum - N2		13.61	100.00												
Sum		100.0													
Total Nitrogen		87.08													

Page 28 of 88

EPA Qual	Det Qual	Rpt
	ND	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **20**

Client ID T-202

Analytical Method ASTM D1945

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Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 20

Client: C.E. Schmidt
Client ID: T-202
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 883
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:38
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	739		
Final:	873		
Factor:	1.18		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

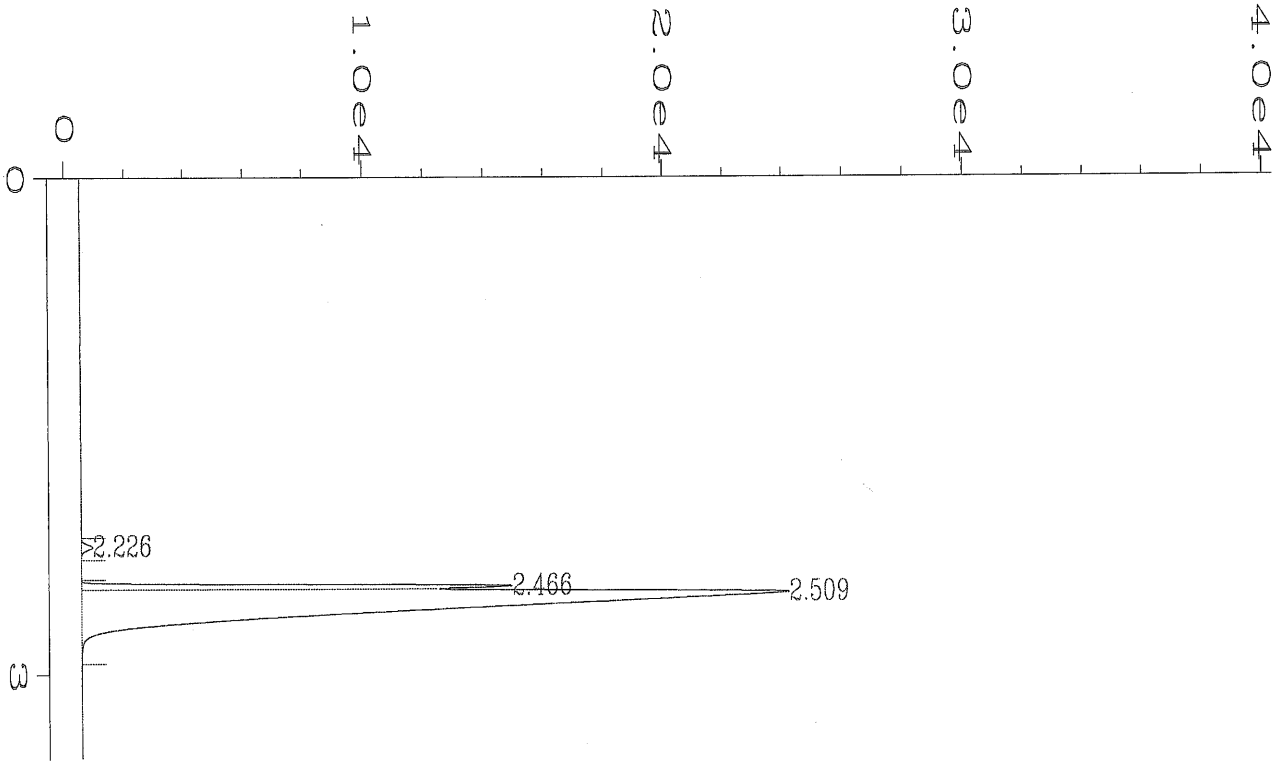
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510020MA.D
Operator : DA
Instrument : GCL
Sample Name : T-202
Run Time Bar Code:
Acquired on : 24 Mar 25 03:24 PM
Report Created on: 26 Mar 25 03:10 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510020MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.226	894	375	BB	0.037	0.4405
2	2.466	24822	14390	BV	0.027	12.2344
3	2.509	177168	23653	VB	0.103	87.3250

Total area = 202883

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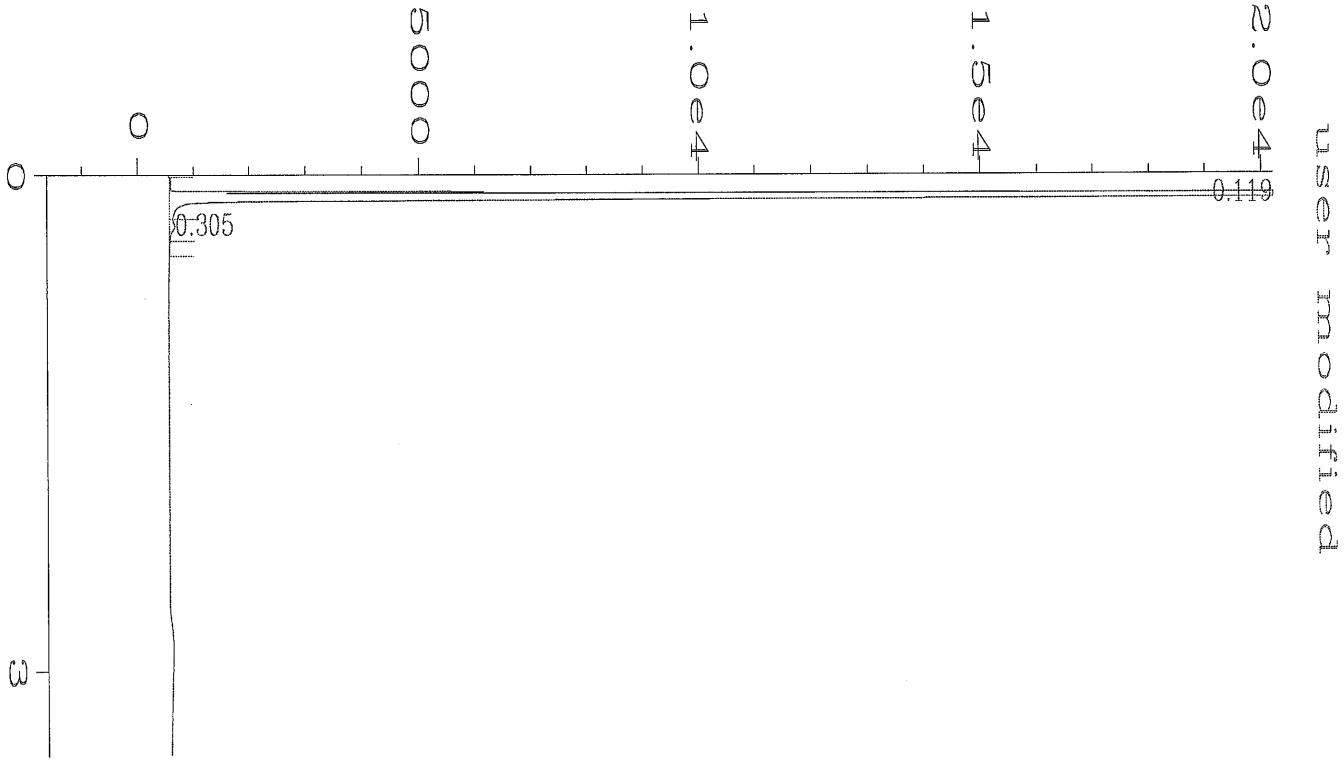

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510020PA.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-202
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 03:24 PM
Instrument Method: ASTM1946.MTH
Report Created on: 26 Mar 25 03:11 PM
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510020PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.119	253755	231614	BB S	0.042	99.8374
2	0.305	413	99	MM	0.070	0.1626

Total area = 254168

User Modified

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 20

File Name: 2510020A
Description: T-202
Can/Tube#: 883
QC_Batch: 032425-GCO

Date Sampled: 03/19/25 **Time:** 8:38
Date Analyzed: 03/24/25 **Time:** 15:24
Can Dilution Factor: 1.18

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.035	0.105	0.09	354	1,063	941	J
7782-44-7	Oxygen	0.059	0.177	12.72	591	1,772	127,200	
630-08-0	Carbon Monoxide	0.012	0.036	ND	118	354	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.10	118	354	967	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510020A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**20**		SF:	**2**	
Description:	**T-202**		Not Detected Flag:	**ND**	
Date Sampled:	**03/19/25**	Time: **8:38**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **15:24**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**883**				
Can Factor	**1.18**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**1252**
7782-44-7	Oxygen	02	2.27	**24822**
7727-37-9	Nitrogen	03	2.34	**177168**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**413**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510020A		Detect Flag:	ND	**Laboratory Number: 20**
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.18				
Air Volume:	0.50 ml		Temp	**25** C	
Base Volume	0.50 ml		Atm P	**760.0** torr	
Dilution Factor	1.18		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.09	0.09	0.09	941	0.09	0.09	300	0.035	0.106	0.035	0.105	354	1,063	J
Oxygen	32.00	12.72	12.72	12.72	127,200	12.72	12.72	500	0.059	0.177	0.059	0.177	591	1,772	
Nitrogen	28.01	87.09	87.09	87.09	870,892	87.09	87.09	1000	0.118	0.354	0.118	0.354	1,181	3,544	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.035	0.012	0.036	118	354	U
Carbon Dioxide	44.01	0.10	0.10	0.10	967	0.10	0.10	100	0.012	0.035	0.012	0.036	118	354	
Sum - N2		12.91	100.00												
Sum		100.0													
Total Nitrogen		84.03													

Page 2 of 3

EPA Qual	Det Qual	Rpt
	ND	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **21**

Client ID T-203

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 21

File Name: 2510021A
Description: T-203
Can/Tube#: 858
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 8:33
Date Analyzed: 03/24/25 **Time:** 15:42
Can Dilution Factor: 1.20

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.35	359	1,076	3,530	
7782-44-7	Oxygen	0.060	0.180	12.67	598	1,794	126,654	
630-08-0	Carbon Monoxide	0.012	0.036	ND	120	359	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.43	120	359	4,269	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510021A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**21**		SF:	**2**	
Description:	**T-203**		Not Detected Flag:	**ND**	
Date Sampled:	**03/20/25**	Time: **8:33**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **15:42**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**858**				
Can Factor	**1.20**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**4638**
7782-44-7	Oxygen	02	2.27	**24414**
7727-37-9	Nitrogen	03	2.34	**172685**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**1801**

T-203 03-20-25 0-1584

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510021A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.20				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.20		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Laboratory Number: 21

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.35	0.35	0.35	3,530	0.35	0.35	300	0.036	0.108	0.036	0.108	359	1,076	
Oxygen	32.00	12.67	12.67	12.67	126,654	12.67	12.67	500	0.060	0.179	0.060	0.180	598	1,794	
Nitrogen	28.01	86.30	86.30	86.30	863,019	86.30	86.30	1000	0.120	0.359	0.120	0.360	1,196	3,588	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.036	0.012	0.036	120	359	U
Carbon Dioxide	44.01	0.43	0.43	0.43	4,269	0.43	0.43	100	0.012	0.036	0.012	0.036	120	359	
Sum - N2		13.70	100.00												
Sum		100.0													
Total Nitrogen		82.91													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 21

Client: C.E. Schmidt
Client ID: T-203
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 858
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:33
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	735		
Final:	879		
Factor:	1.20		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

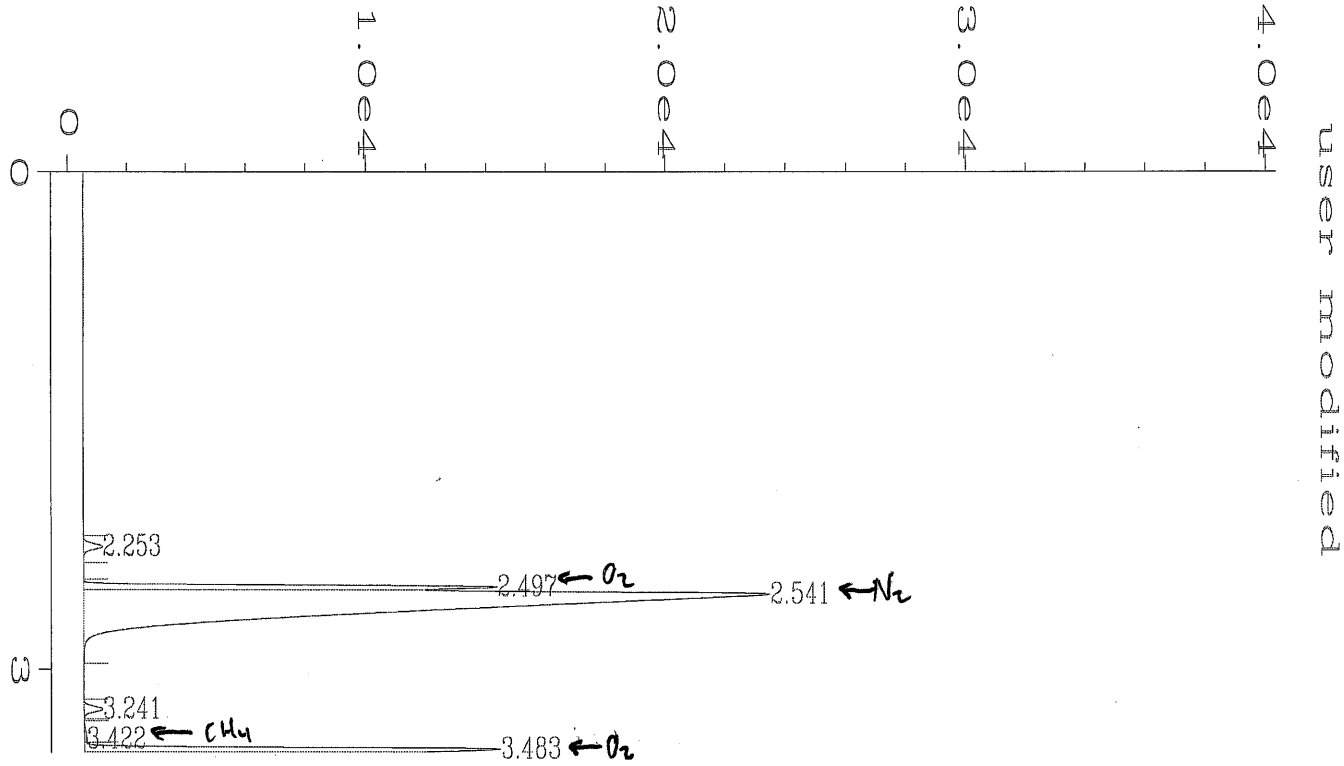
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510021MA.D
Operator : LR
Instrument : GCL
Sample Name : T-203
Run Time Bar Code:
Acquired on : 24 Mar 25 03:42 PM
Report Created on: 27 Mar 25 11:30 AM
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510021MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.253	1582	640	BB	0.038	0.7076
2	2.497	24414	13828	BV	0.027	10.9187
3	2.541	172685	22934	VB	0.102	77.2298
4	3.241	1542	645	BF	0.037	0.6898
5	3.422	386	85	MF	0.076	0.1727
6	3.483	22989	13947	FM	0.027	10.2814

Total area = 223598

User Modified

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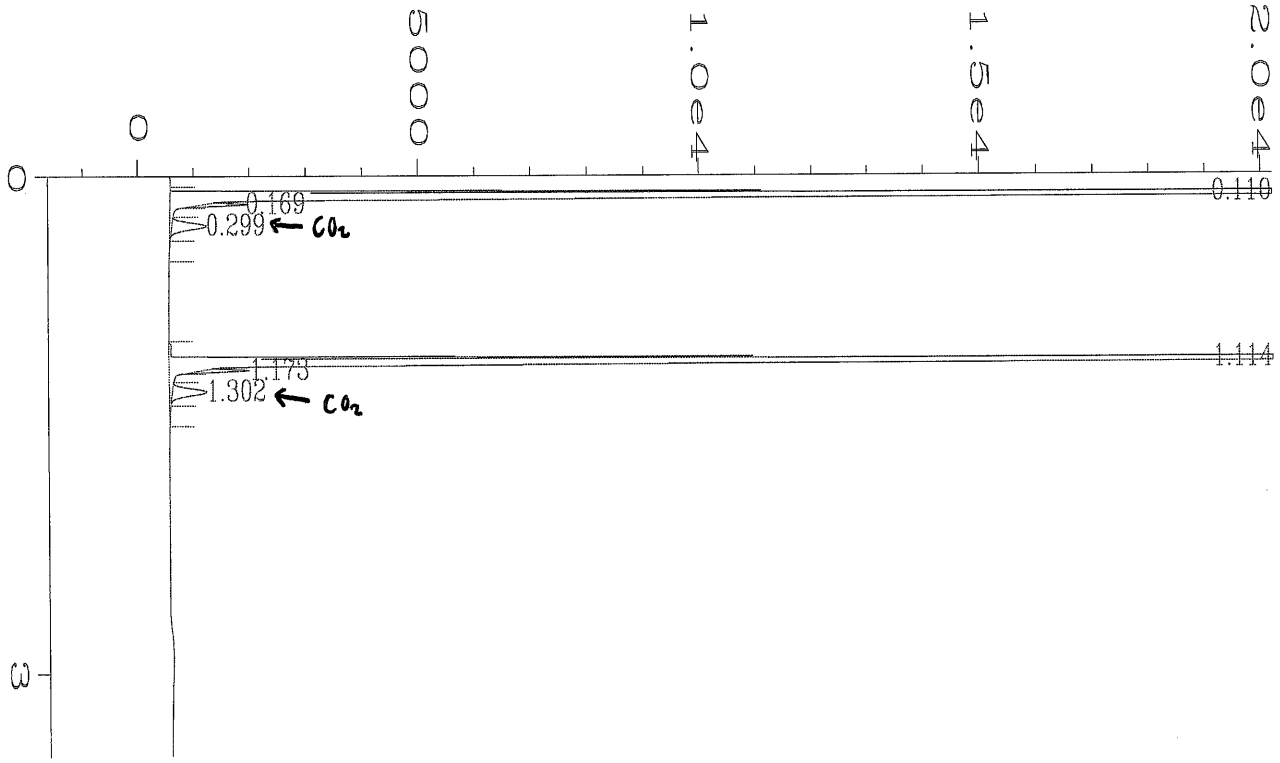

Area Percent Report

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510021PA.D
Operator : LR
Instrument : GCL
Sample Name : T-203
Run Time Bar Code:
Acquired on : 24 Mar 25 03:42 PM
Report Created on: 27 Mar 25 09:32 AM
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510021PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.110	257060	242407	BB S	0.030	49.6285
2	0.169	810	919	BB T	0.015	0.1565
3	0.299	1801	608	BV T	0.046	0.3478
4	1.114	255650	247371	BB S	0.016	49.3564
5	1.173	849	965	BB T	0.015	0.1639
6	1.302	1797	612	BV T	0.046	0.3469

Total area = 517968

Sample Data Packages

SDG Number **225100**

Lab Id Number **22**

Client ID T-204

Analytical Method ASTM D1945

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Sample Calculations
Chromatogram

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 22

File Name: 2510022A
Description: T-204
Can/Tube#: 758
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 8:29
Date Analyzed: 03/24/25 **Time:** 15:49
Can Dilution Factor: 1.18

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.035	0.105	0.36	353	1,059	3,572	
7782-44-7	Oxygen	0.059	0.177	12.78	588	1,764	127,828	
630-08-0	Carbon Monoxide	0.012	0.036	ND	118	353	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.10	118	353	979	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510022A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**22**		SF:	**2**	
Description:	**T-204**		Not Detected Flag:	**ND**	
Date Sampled:	**03/20/25**	Time: **8:29**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **15:49**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**758**				
Can Factor	**1.18**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**4772**
7782-44-7	Oxygen	02	2.27	**25051**
7727-37-9	Nitrogen	03	2.34	**166774**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**420**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510022A		Detect Flag:	ND	**Laboratory Number: 22**
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.18				
Air Volume:	0.50 ml		Temp	**25** C	
Base Volume	0.50 ml		Atm P	**760.0** torr	
Dilution Factor	1.18		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.36	0.36	0.36	3,572	0.36	0.36	300	0.035	0.106	0.035	0.105	353	1,059	
Oxygen	32.00	12.78	12.78	12.78	127,828	12.78	12.78	500	0.059	0.176	0.059	0.177	588	1,764	
Nitrogen	28.01	86.76	86.76	86.76	867,620	86.76	86.76	1000	0.118	0.353	0.118	0.354	1,176	3,529	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.035	0.012	0.036	118	353	U
Carbon Dioxide	44.01	0.10	0.10	0.10	979	0.10	0.10	100	0.012	0.035	0.012	0.036	118	353	
Sum - N2		13.24	100.00												
Sum		100.0													
Total Nitrogen		78.76													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 22

Client: C.E. Schmidt
Client ID: T-204
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 758
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:29
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	743		
Final:	874		
Factor:	1.18		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

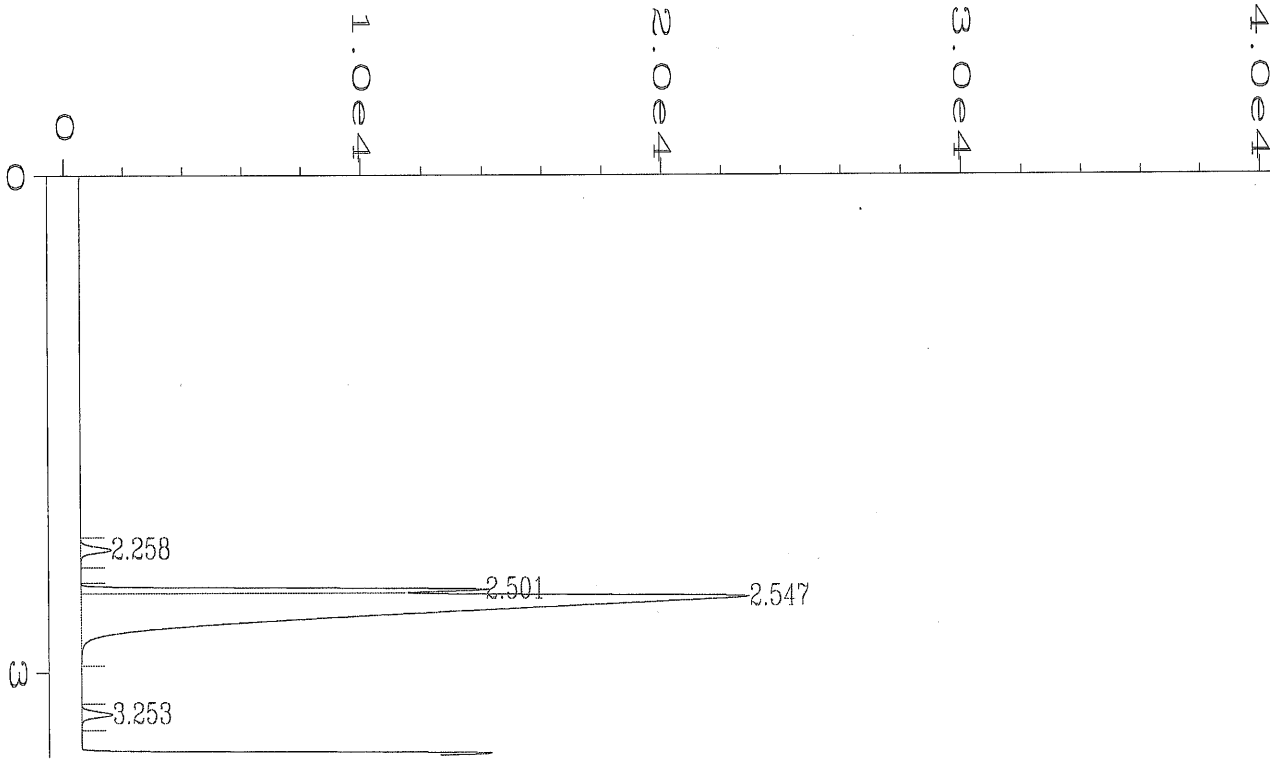
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510022MA.D
Operator : LR
Instrument : GCL
Sample Name : T-204
Run Time Bar Code:
Acquired on : 24 Mar 25 03:49 PM
Report Created on: 27 Mar 25 09:34 AM

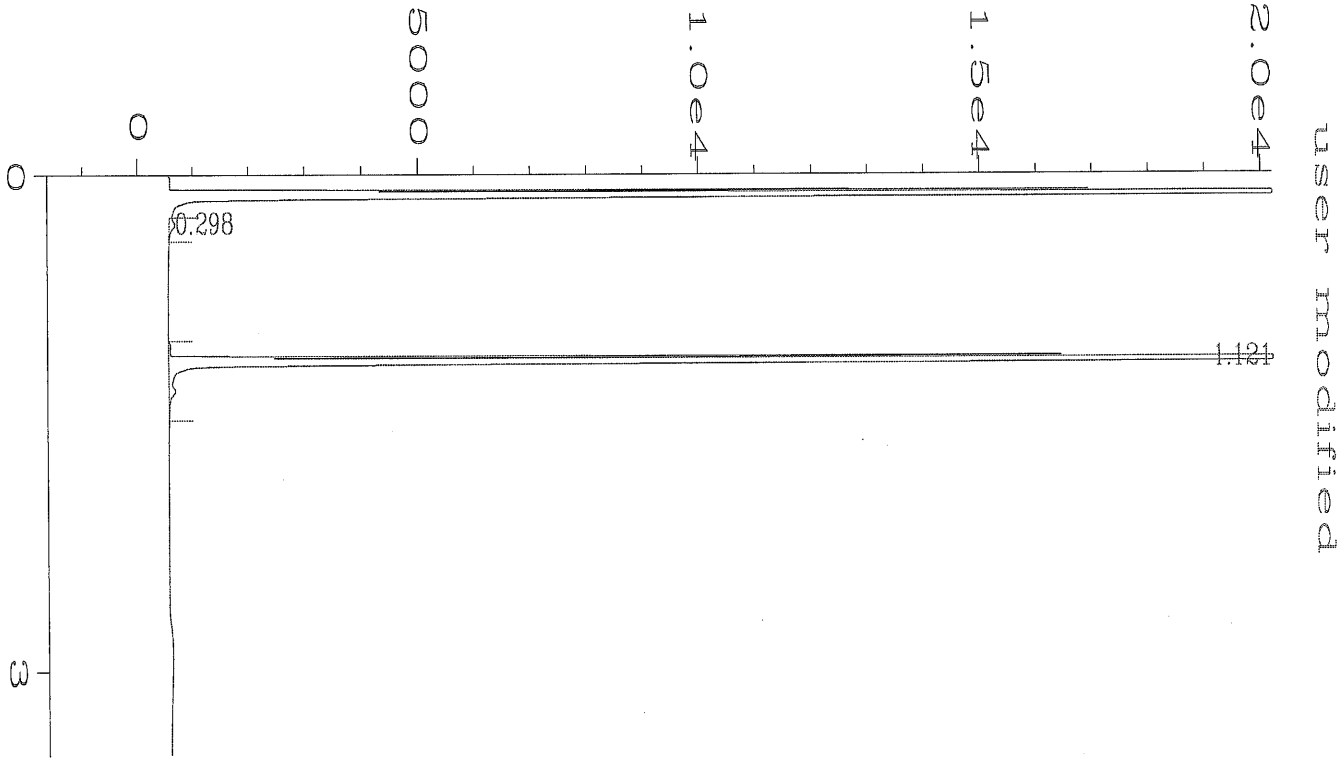
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510022MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.258	2591	1039	BB	0.039	1.3153
2	2.501	25051	13700	BV	0.028	12.7161
3	2.547	166774	22357	VB	0.102	84.6561
4	3.253	2586	1051	BB	0.038	1.3125

Total area = 197002

==========



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510022PA.D
Operator : LR
Instrument : GCL
Sample Name : T-204
Run Time Bar Code:
Acquired on : 24 Mar 25 03:49 PM
Report Created on: 27 Mar 25 09:35 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510022PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.298	420	109	MM	0.064	0.1674
2	1.121	250564	243223	BB S	0.016	99.8326

Total area = 250984

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **23**

Client ID T-205

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 23

File Name: 2510023A
Description: T-205
Can/Tube#: 659
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 10:00
Date Analyzed: 03/24/25 **Time:** 16:04
Can Dilution Factor: 1.27

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.07	380	1,140	736	J
7782-44-7	Oxygen	0.063	0.189	12.67	633	1,900	126,680	
630-08-0	Carbon Monoxide	0.013	0.039	ND	127	380	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.07	127	380	668	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510023A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**23**		SF:	**2**	
Description:	**T-205**		Not Detected Flag:	**ND**	
Date Sampled:	**03/20/25**	Time: **10:00**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **16:04**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**659**				
Can Factor	**1.27**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**913**
7782-44-7	Oxygen	02	2.27	**23050**
7727-37-9	Nitrogen	03	2.34	**181027**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**266**

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The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

Laboratory Number: 23

File Name:	2510023A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.27				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.27		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.07	0.07	0.07	736	0.07	0.07	300	0.038	0.114	0.038	0.114	380	1,140	J
Oxygen	32.00	12.67	12.67	12.67	126,680	12.67	12.67	500	0.063	0.190	0.063	0.189	633	1,900	
Nitrogen	28.01	87.19	87.19	87.19	871,915	87.19	87.19	1000	0.127	0.380	0.127	0.381	1,267	3,801	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.038	0.013	0.039	127	380	U
Carbon Dioxide	44.01	0.07	0.07	0.07	668	0.07	0.07	100	0.013	0.038	0.013	0.039	127	380	
Sum - N2		12.81	100.00												
Sum		100.0													
Total Nitrogen		92.08													

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EPA Qual	Det Qual	Rpt
	ND	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 23

Client: C.E. Schmidt
Client ID: T-205
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 659
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Initial : 708
Final: 897
Factor: 1.27

Sampled: 3/20/2025 Time: 10:00
Received: 3/21/2025 Time: 14:30

Date:

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

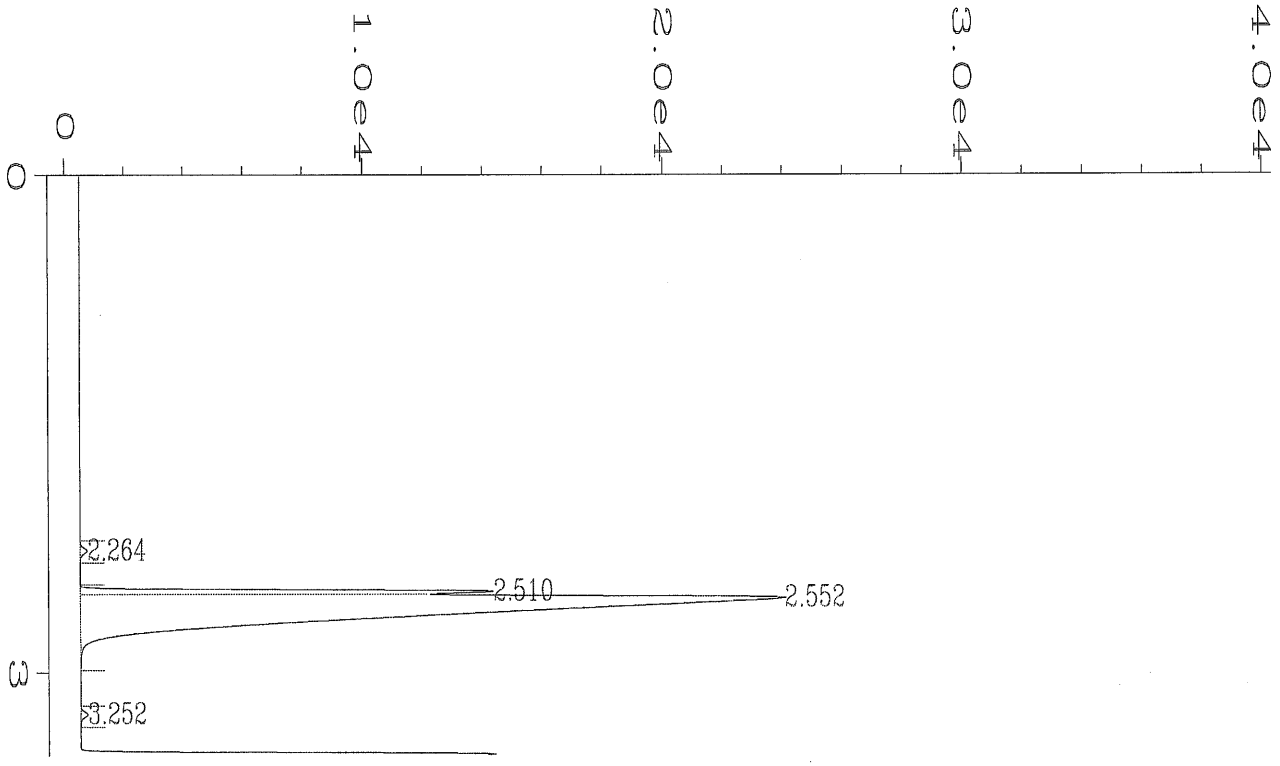
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510023MA.D
Operator : LR
Instrument : GCL
Sample Name : T-205
Run Time Bar Code:
Acquired on : 24 Mar 25 04:04 PM
Report Created on: 27 Mar 25 09:37 AM

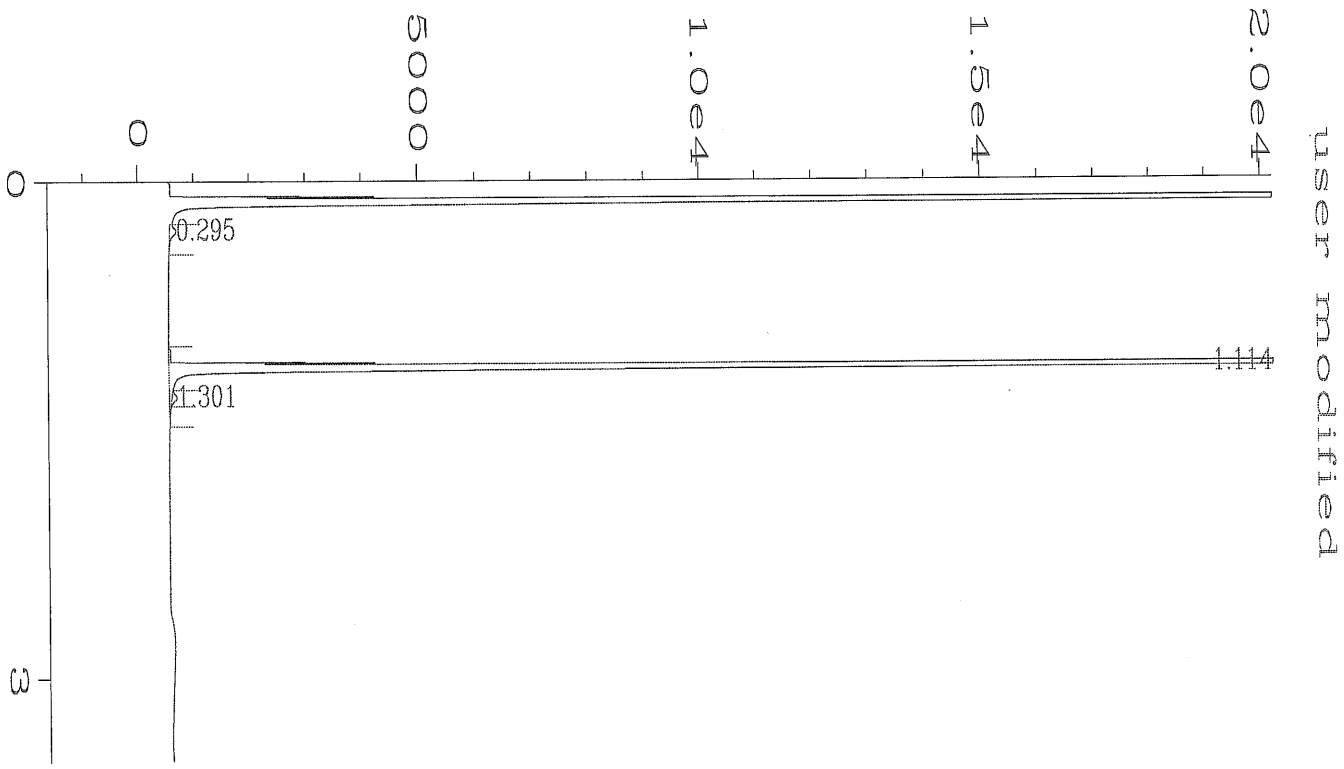
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510023MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.264	570	232	BB	0.039	0.2779
2	2.510	23050	13818	BV	0.026	11.2317
3	2.552	181027	23608	VB	0.102	88.2105
4	3.252	574	234	BB	0.038	0.2799

Total area = 205221

==========



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510023PA.D
Operator : LR
Instrument : GCL
Sample Name : T-205
Run Time Bar Code:
Acquired on : 24 Mar 25 04:04 PM
Report Created on: 27 Mar 25 09:38 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510023PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.295	454	121	MM	0.063	0.1776
2	1.114	254963	252441	BB S	0.041	99.7183
3	1.301	266	94	BV T	0.044	0.1041

Total area = 255684

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **24**

Client ID T-206

Analytical Method ASTM D1945

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Chromatogram

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 24

Client: C.E. Schmidt
Client ID: T-206
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 882
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 9:55
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	710		
Final:	883		
Factor:	1.24		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

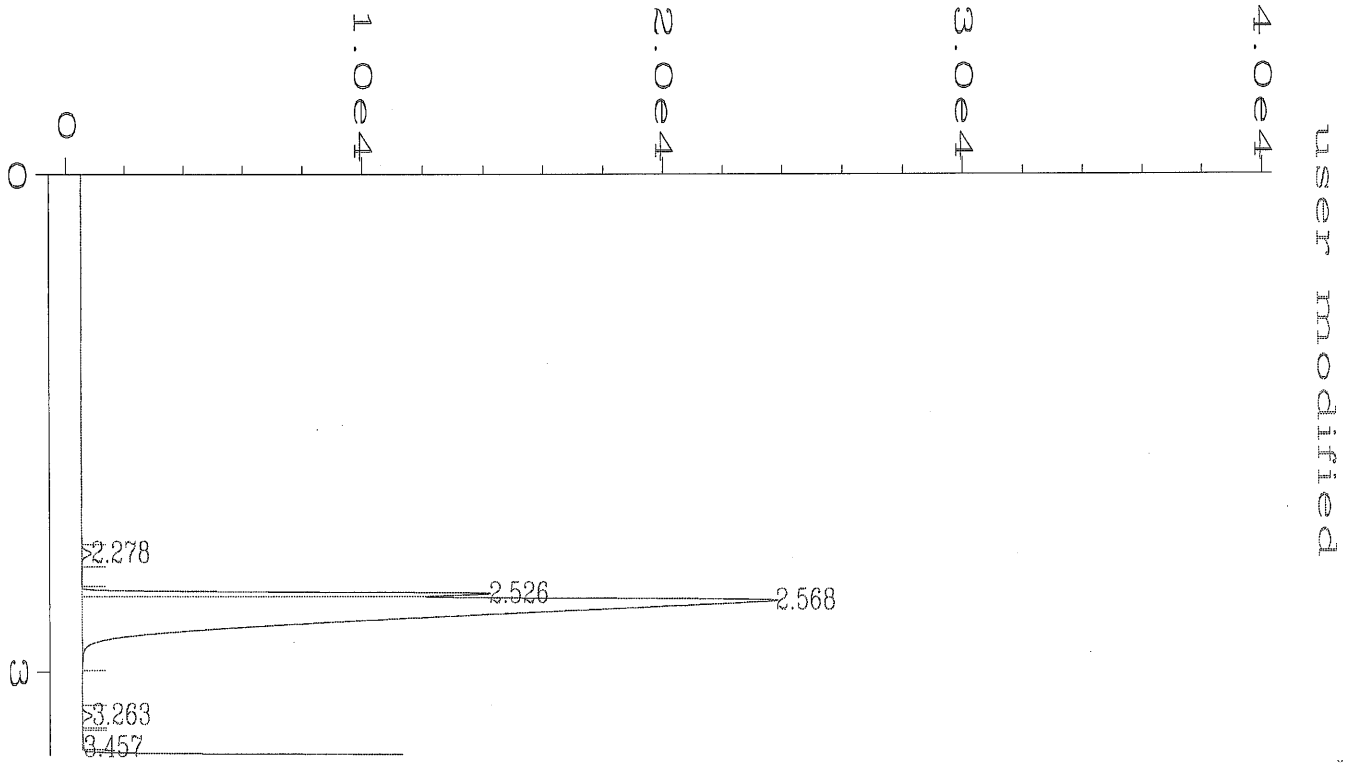
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510024MA.D
Operator : LR
Instrument : GCL
Sample Name : T-206
Run Time Bar Code:
Acquired on : 24 Mar 25 04:18 PM
Report Created on: 27 Mar 25 11:35 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510024MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.278	796	320	BB	0.039	0.3902
2	2.526	23225	13650	BV	0.026	11.3894
3	2.568	178946	23299	VB	0.105	87.7536
4	3.263	796	325	BB	0.038	0.3905
5	3.457	156	39	MM	0.067	0.0763

Total area = 203918

User Modified

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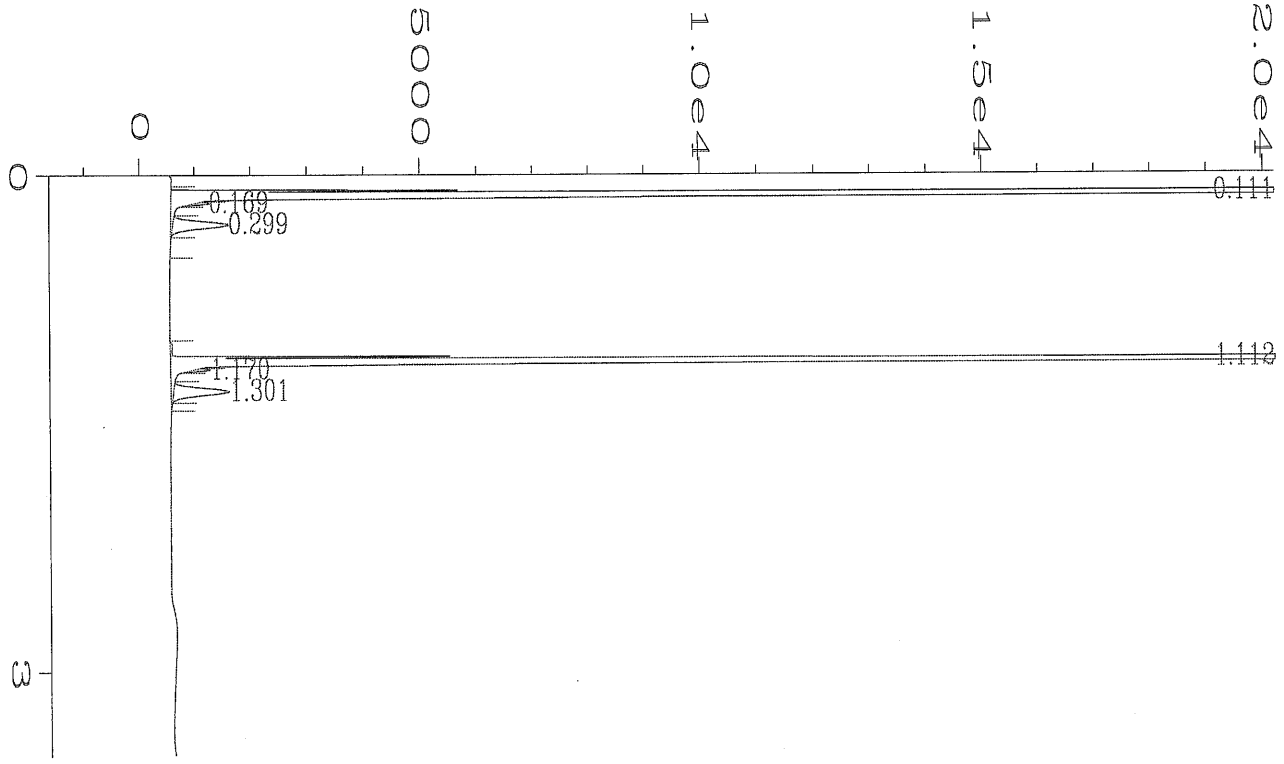

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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510024PA.D
Operator : LR
Instrument : GCL
Sample Name : T-206
Run Time Bar Code:
Acquired on : 24 Mar 25 04:18 PM
Report Created on: 27 Mar 25 09:51 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510024PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.111	252696	252631	BB S	0.030	49.3892
2	0.169	236	312	BB T	0.013	0.0462
3	0.299	3022	1017	BV T	0.047	0.5907
4	1.112	252412	232933	BB S	0.030	49.3335
5	1.170	269	339	BB T	0.013	0.0525
6	1.301	3008	1021	BB T	0.047	0.5879

Total area = 511643

==========

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 24

File Name: 2510024A
Description: T-206
Can/Tube#: 882
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 9:55
Date Analyzed: 03/24/25 **Time:** 16:18
Can Dilution Factor: 1.24

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.12	373	1,119	1,216	
7782-44-7	Oxygen	0.062	0.186	12.53	622	1,865	125,296	
630-08-0	Carbon Monoxide	0.012	0.036	ND	124	373	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.74	124	373	7,449	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510024A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**24**		SF:	**2**	
Description:	**T-206**		Not Detected Flag:	**ND**	
Date Sampled:	**03/20/25**	Time: **9:55**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **16:18**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**882**				
Can Factor	**1.24**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**1536**
7782-44-7	Oxygen	02	2.27	**23225**
7727-37-9	Nitrogen	03	2.34	**178946**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**3022**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

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CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510024A		Detect Flag:	ND	**Laboratory Number: 24**
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.24				
Air Volume:	0.50 ml		Temp	**25** C	
Base Volume	0.50 ml		Atm P	**760.0** torr	
Dilution Factor	1.24		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	RL %	MDL ppmv	RL ppmv	Lab Qual
Hydrogen	2.02	0.12	0.12	0.12	1,216	0.12	0.12	300	0.037	0.112	0.037	0.111	373	1,119	
Oxygen	32.00	12.53	12.53	12.53	125,296	12.53	12.53	500	0.062	0.187	0.062	0.186	622	1,865	
Nitrogen	28.01	86.50	86.50	86.50	864,976	86.50	86.50	1000	0.124	0.373	0.124	0.372	1,244	3,731	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.037	0.012	0.036	124	373	U
Carbon Dioxide	44.01	0.74	0.74	0.74	7,449	0.74	0.74	100	0.012	0.037	0.012	0.036	124	373	
Sum - N2		13.50	100.00												
Sum		100.0													
Total Nitrogen		89.35													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **25**

Client ID T-207

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 25

File Name: 2510025A
Description: T-207
Can/Tube#: 627
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 10:05
Date Analyzed: 03/24/25 **Time:** 16:26
Can Dilution Factor: 1.31

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.039	0.117	0.09	392	1,176	901	J
7782-44-7	Oxygen	0.065	0.195	12.53	653	1,960	125,345	
630-08-0	Carbon Monoxide	0.013	0.039	ND	131	392	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.13	131	392	1,328	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510025A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**25**		SF:	**2**	
Description:	**T-207**		Not Detected Flag:	**ND**	
Date Sampled:	**03/20/25**	Time: **10:05**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **16:26**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**627**				
Can Factor	**1.31**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**1084**
7782-44-7	Oxygen	02	2.27	**22119**
7727-37-9	Nitrogen	03	2.34	**181270**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**513**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

Laboratory Number: 25

File Name:	2510025A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.31				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.31		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.09	0.09	0.09	901	0.09	0.09	300	0.039	0.118	0.039	0.117	392	1,176	J
Oxygen	32.00	12.53	12.53	12.53	125,345	12.53	12.53	500	0.065	0.196	0.065	0.195	653	1,960	
Nitrogen	28.01	87.24	87.24	87.24	872,425	87.24	87.24	1000	0.131	0.392	0.131	0.393	1,306	3,919	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.039	0.013	0.039	131	392	U
Carbon Dioxide	44.01	0.13	0.13	0.13	1,328	0.13	0.13	100	0.013	0.039	0.013	0.039	131	392	
Sum - N2		12.76	100.00												
Sum		100.0													
Total Nitrogen		95.07													

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EPA Qual	Det Qual	Rpt
	ND	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 25

Client: C.E. Schmidt
Client ID: T-207
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 627
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Initial : 692
Final: 904
Factor: 1.31

Sampled: 3/20/2025 Time: 10:05
Received: 3/21/2025 Time: 14:30

Date:

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

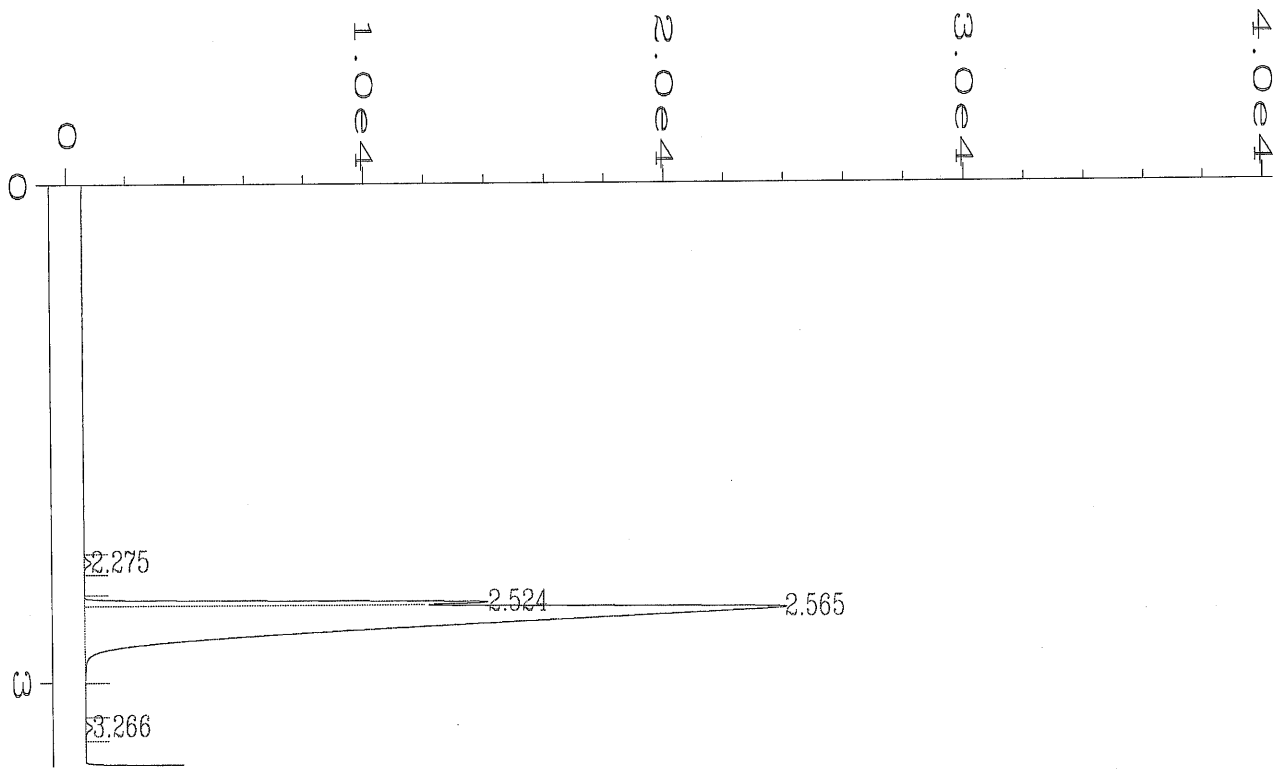
Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions: EAS QC Criteria
Report Types: PDF Only
EDD Instructions EDD Type:



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510025MA.D
Operator : LR
Instrument : GCL
Sample Name : T-207
Run Time Bar Code:
Acquired on : 24 Mar 25 04:26 PM
Report Created on: 27 Mar 25 09:52 AM

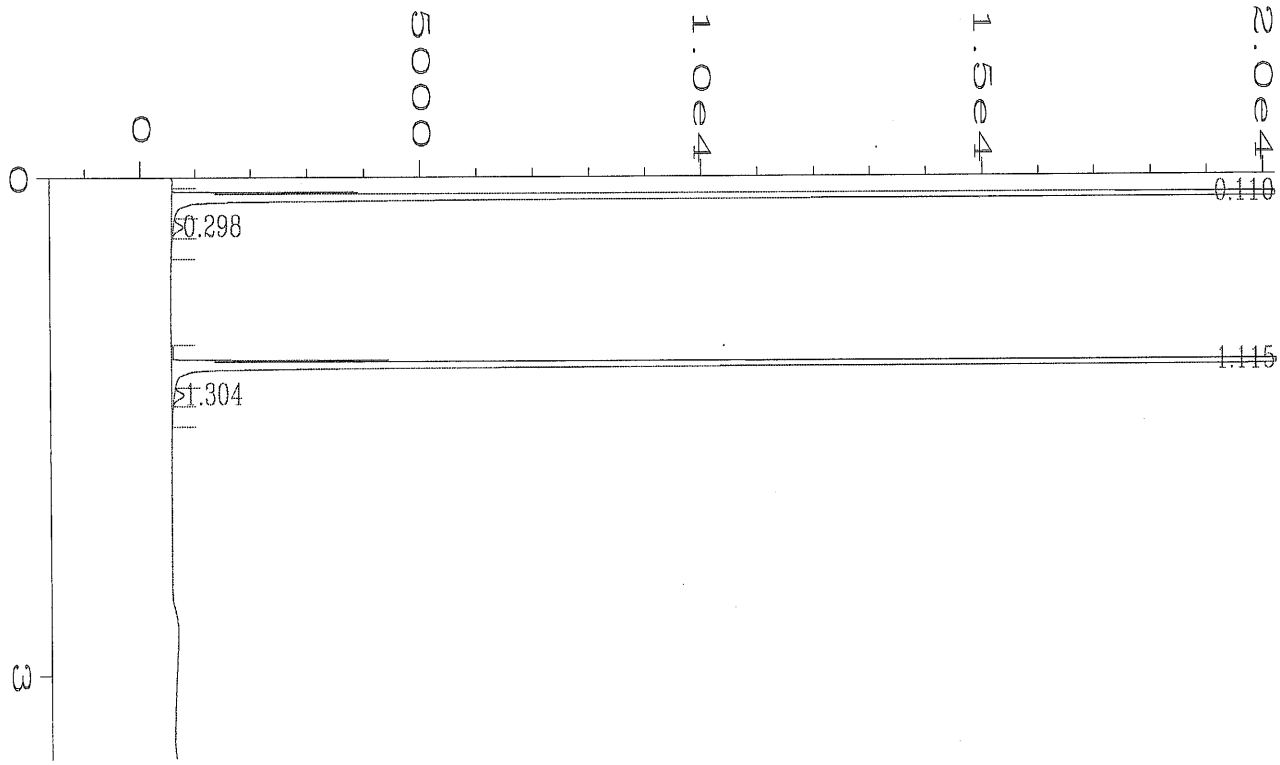
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510025MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.275	565	227	BB	0.038	0.2761
2	2.524	22119	13516	BV	0.025	10.8145
3	2.565	181270	23513	VB	0.106	88.6248
4	3.266	582	233	BB	0.039	0.2846

Total area = 204536

==========



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510025PA.D
Operator : LR
Instrument : GCL
Sample Name : T-207
Run Time Bar Code:
Acquired on : 24 Mar 25 04:26 PM
Report Created on: 27 Mar 25 09:52 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510025PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.110	250699	233700	BB S	0.032	49.3967
2	0.298	513	173	BV T	0.046	0.1011
3	1.115	255807	256410	BB S	0.016	50.4032
4	1.304	502	182	BV T	0.044	0.0990

Total area = 507522

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **26**

Client ID T-208

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 26

File Name: 2510026A
Description: T-208
Can/Tube#: 791
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 10:08
Date Analyzed: 03/24/25 **Time:** 16:42
Can Dilution Factor: 1.26

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.07	377	1,130	653	J
7782-44-7	Oxygen	0.063	0.189	12.68	628	1,883	126,805	
630-08-0	Carbon Monoxide	0.013	0.039	ND	126	377	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.18	126	377	1,839	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510026A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**26**		SF:	**2**	
Description:	**T-208**		Not Detected Flag:	**ND**	
Date Sampled:	**03/20/25**	Time: **10:08**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **16:42**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**791**				
Can Factor	**1.26**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**818**
7782-44-7	Oxygen	02	2.27	**23287**
7727-37-9	Nitrogen	03	2.34	**181061**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**739**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510026A	Detect Flag:	ND	**Laboratory Number: 26**
QCBatch	032425-GCO	Report Normalized:	**No**	
Can Factor	1.26			
Air Volume:	0.50 ml	Temp	**25** C	
Base Volume	0.50 ml	Atm P	**760.0** torr	
Dilution Factor	1.26	Gas Constant	24.4	
Gas Constant:	24.4	RL Factor	**3**	
Decimal Places:	2			

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.07	0.07	0.07	653	0.07	0.07	300	0.038	0.113	0.038	0.114	377	1,130	J
Oxygen	32.00	12.68	12.68	12.68	126,805	12.68	12.68	500	0.063	0.188	0.063	0.189	628	1,883	
Nitrogen	28.01	87.07	87.07	87.07	870,703	87.07	87.07	1000	0.126	0.377	0.126	0.378	1,255	3,766	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.038	0.013	0.039	126	377	U
Carbon Dioxide	44.01	0.18	0.18	0.18	1,839	0.18	0.18	100	0.013	0.038	0.013	0.039	126	377	
Sum - N2		12.93	100.00												
Sum		100.0													
Total Nitrogen		91.25													

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EPA Qual	Det Qual	Rpt
	ND	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 26

Client: C.E. Schmidt
Client ID: T-208
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 791
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 10:08
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	709		
Final:	890		
Factor:	1.26		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

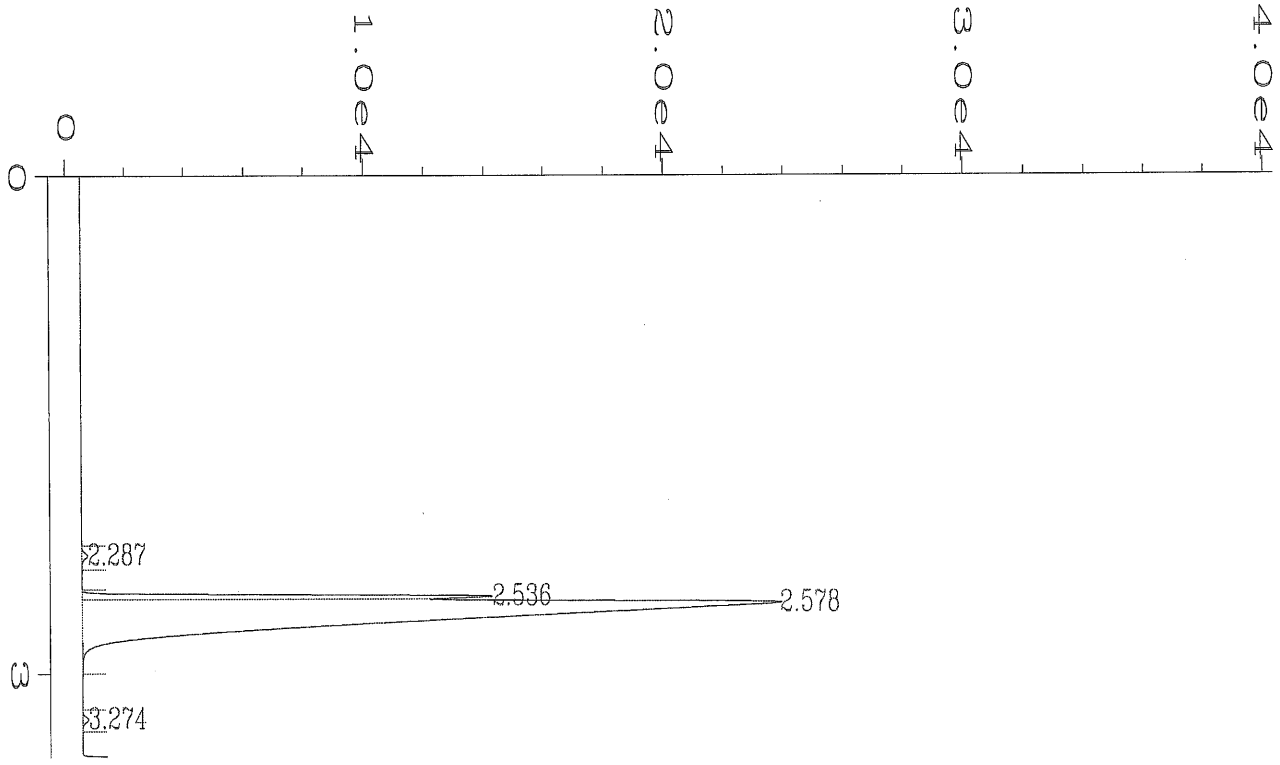
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510026MA.D
Operator : LR
Instrument : GCL
Sample Name : T-208
Run Time Bar Code:
Acquired on : 24 Mar 25 04:42 PM
Report Created on: 27 Mar 25 09:53 AM

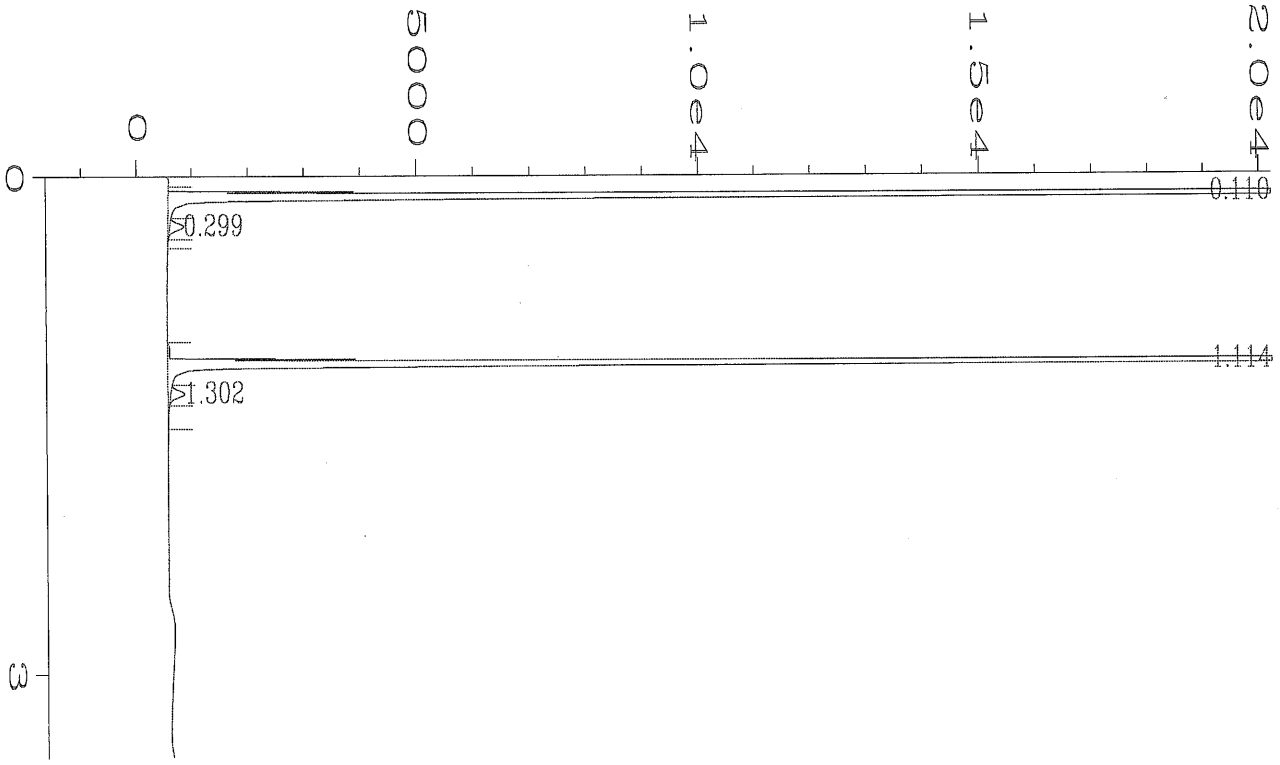
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510026MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.287	480	190	BB	0.039	0.2339
2	2.536	23287	13720	BV	0.026	11.3425
3	2.578	181061	23406	VB	0.103	88.1920
4	3.274	475	190	BB	0.038	0.2316

Total area = 205303

==========



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510026PA.D
Operator : LR
Instrument : GCL
Sample Name : T-208
Run Time Bar Code:
Acquired on : 24 Mar 25 04:42 PM
Report Created on: 27 Mar 25 09:53 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510026PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.110	257430	244903	BB S	0.032	49.8219
2	0.299	739	253	BB T	0.046	0.1430
3	1.114	257793	247011	BB S	0.032	49.8921
4	1.302	739	254	BV T	0.045	0.1430

Total area = 516701

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **27**

Client ID T-209

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 27

File Name: 2510027A
Description: T-209
Can/Tube#: 778
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 11:21
Date Analyzed: 03/24/25 **Time:** 16:47
Can Dilution Factor: 1.30

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.039	0.117	0.30	390	1,171	3,038	
7782-44-7	Oxygen	0.065	0.195	12.57	650	1,951	125,666	
630-08-0	Carbon Monoxide	0.013	0.039	ND	130	390	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.03	130	390	340	J

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510027A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**27**		SF:	**2**	
Description:	**T-209**		Not Detected Flag:	**ND**	
Date Sampled:	**03/20/25**	Time: **11:21**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **16:47**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**778**				
Can Factor	**1.30**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**3671**
7782-44-7	Oxygen	02	2.27	**22274**
7727-37-9	Nitrogen	03	2.34	**172670**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**132**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

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CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510027A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.30				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.30		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Laboratory Number: 27

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.30	0.30	0.30	3,038	0.30	0.30	300	0.039	0.117	0.039	0.117	390	1,171	
Oxygen	32.00	12.57	12.57	12.57	125,666	12.57	12.57	500	0.065	0.195	0.065	0.195	650	1,951	
Nitrogen	28.01	87.10	87.10	87.10	870,956	87.10	87.10	1000	0.130	0.390	0.130	0.390	1,301	3,902	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.039	0.013	0.039	130	390	U
Carbon Dioxide	44.01	0.03	0.03	0.03	340	0.03	0.03	100	0.013	0.039	0.013	0.039	130	390	J
Sum - N2		12.90	100.00												
Sum		100.0													
Total Nitrogen		90.16													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	ND	Y

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 27

Client: C.E. Schmidt
Client ID: T-209
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 778
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:21
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	682		
Final:	887		
Factor:	1.30		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

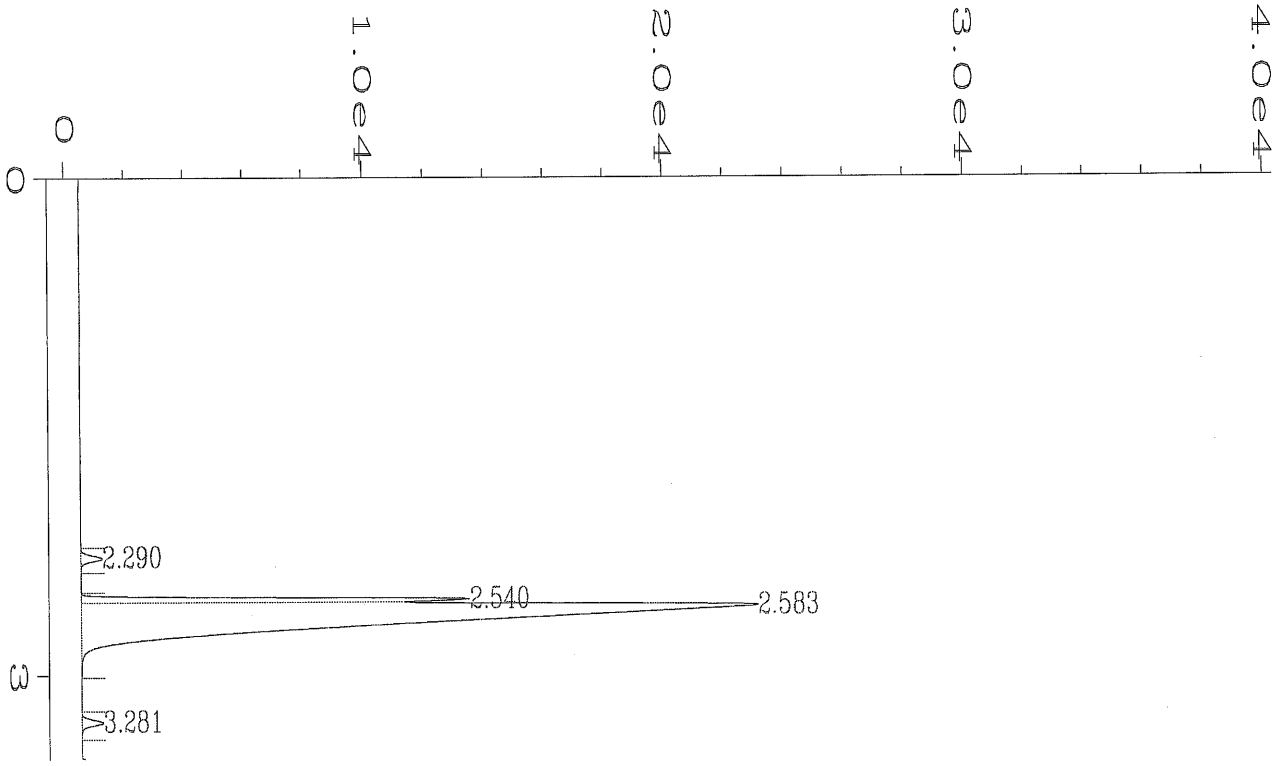
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510027MA.D
Operator : LR
Instrument : GCL
Sample Name : T-209
Run Time Bar Code:
Acquired on : 24 Mar 25 04:47 PM
Report Created on: 27 Mar 25 09:54 AM

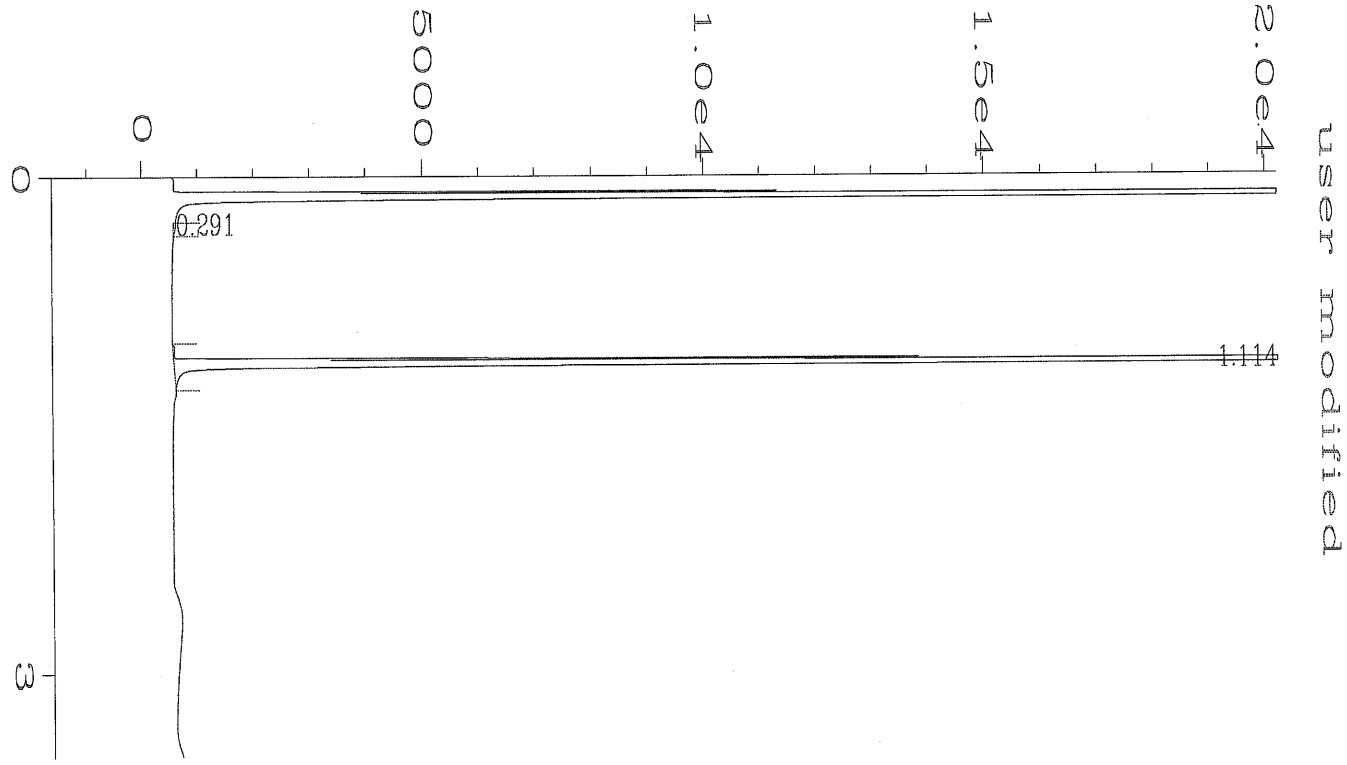
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510027MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.290	1871	738	BB	0.039	0.9418
2	2.540	22274	12987	BV	0.027	11.2102
3	2.583	172670	22611	VB	0.102	86.9017
4	3.281	1880	748	BB	0.039	0.9464

Total area = 198696

==========



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510027PA.D
Operator : LR
Instrument : GCL
Sample Name : T-209
Run Time Bar Code:
Acquired on : 24 Mar 25 04:47 PM
Report Created on: 27 Mar 25 11:43 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510027PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.291	132	44	MM	0.049	0.0544
2	1.114	242692	243490	BB S	0.015	99.9456

Total area = 242824

User Modified

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **28**

Client ID T-210

Analytical Method ASTM D1945

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Analytical Report
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Sample Calculations
Chromatogram

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 28

Client: C.E. Schmidt
Client ID: T-210
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 714
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:21
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	695		
Final:	882		
Factor:	1.27		

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions

Sample Type:

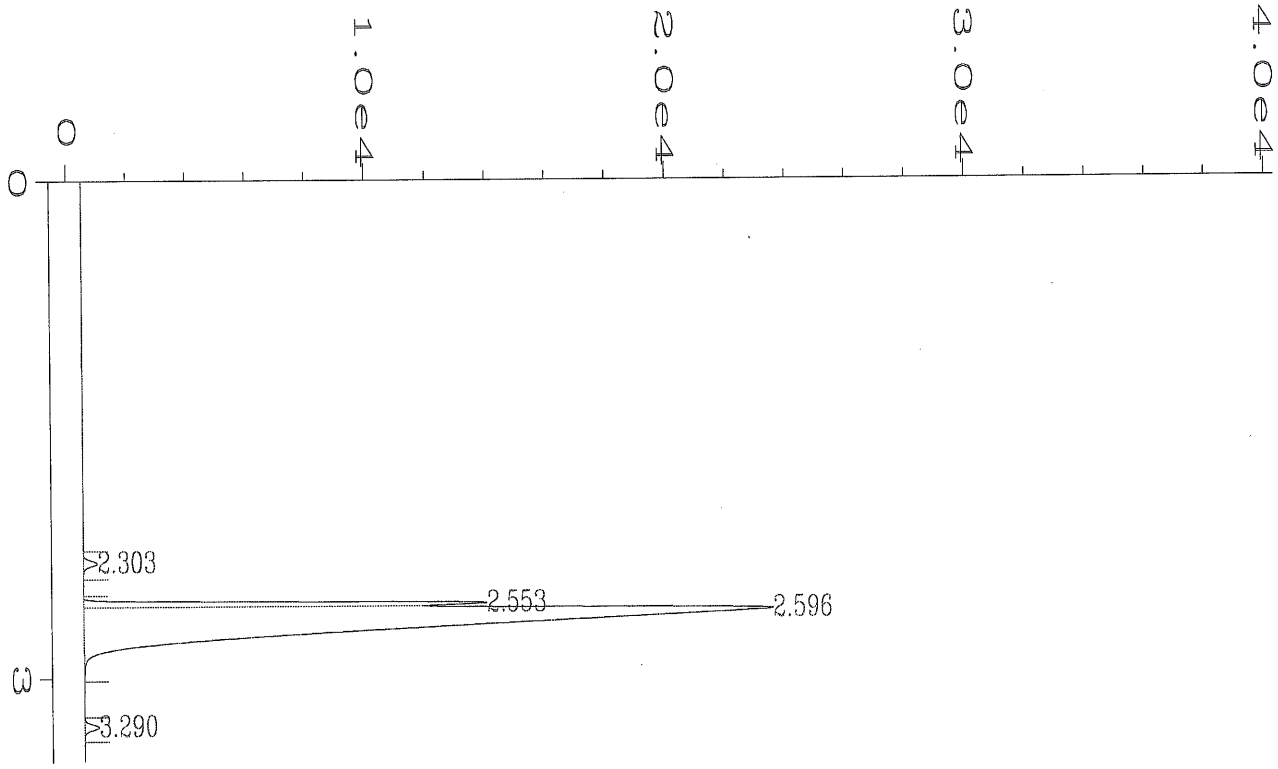
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions | EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



Area Percent Report

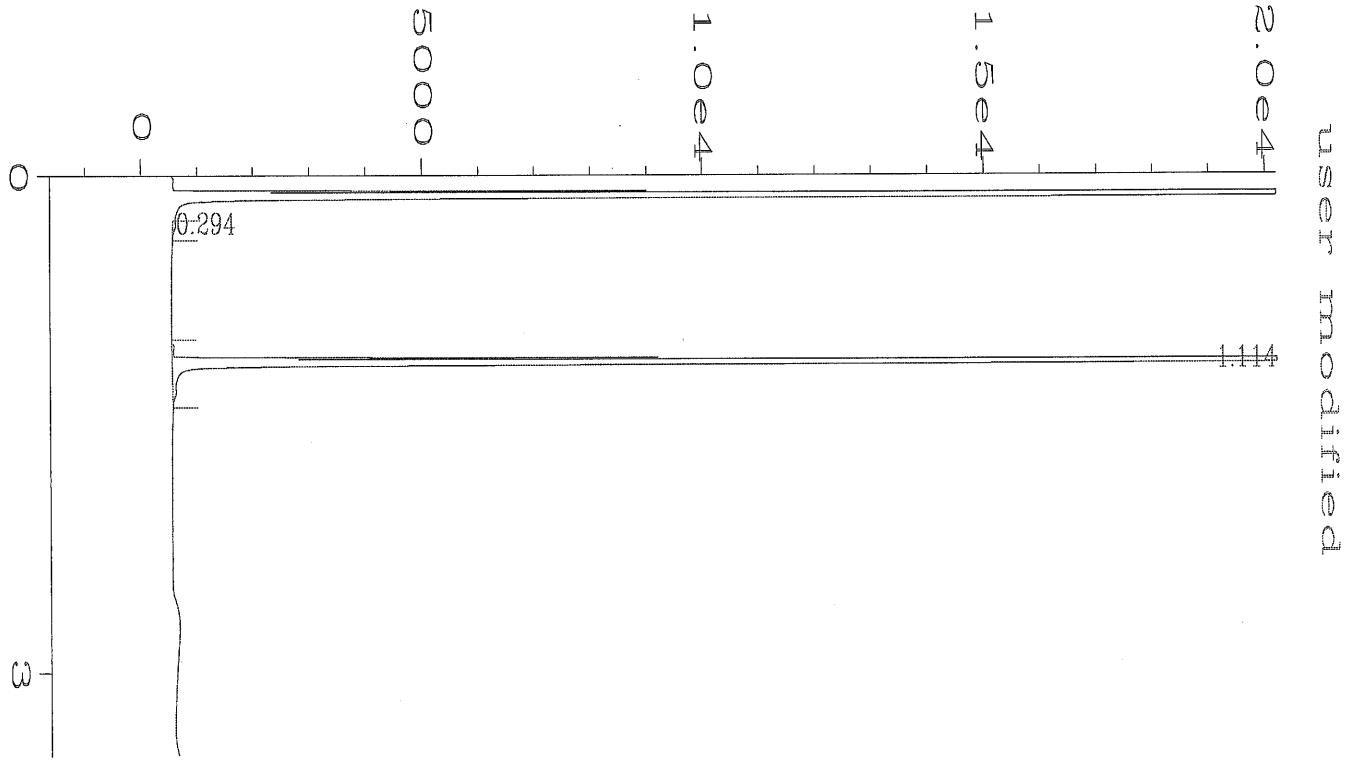
Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510028MA.D
Operator : LR
Instrument : GCL
Sample Name : T-210
Run Time Bar Code:
Acquired on : 24 Mar 25 04:54 PM
Report Created on: 27 Mar 25 09:55 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510028MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.303	1187	466	BB	0.039	0.5814
2	2.553	23121	13474	BV	0.027	11.3286
3	2.596	178601	23032	VB	0.104	87.5099
4	3.290	1184	475	BB	0.039	0.5801

Total area = 204092



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510028PA.D
Operator : LR
Instrument : GCL
Sample Name : T-210
Run Time Bar Code:
Acquired on : 24 Mar 25 04:54 PM
Report Created on: 27 Mar 25 11:47 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510028PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.294	194	58	MM	0.056	0.0766
2	1.114	253446	244228	BB S	0.016	99.9234

Total area = 253640

User Modified

==========

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 28

File Name: 2510028A
Description: T-210
Can/Tube#: 714
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 11:21
Date Analyzed: 03/24/25 **Time:** 16:54
Can Dilution Factor: 1.27

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.19	381	1,142	1,895	
7782-44-7	Oxygen	0.063	0.189	12.73	635	1,904	127,283	
630-08-0	Carbon Monoxide	0.013	0.039	ND	127	381	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.05	127	381	488	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510028A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**28**		SF:	**2**	
Description:	**T-210**		Not Detected Flag:	**ND**	
Date Sampled:	**03/20/25**	Time: **11:21**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **16:54**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**714**				
Can Factor	**1.27**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**2347**
7782-44-7	Oxygen	02	2.27	**23121**
7727-37-9	Nitrogen	03	2.34	**178601**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**194**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

Page 1 of 1 2510028A.D\GCO_F84

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100
Laboratory Number: 28

File Name:	2510028A	Detect Flag:	ND
QCBatch	032425-GCO	Report Normalized:	**No**
Can Factor	1.27		
Air Volume:	0.50 ml	Temp	**25** C
Base Volume	0.50 ml	Atm P	**760.0** torr
Dilution Factor	1.27	Gas Constant	24.4
Gas Constant:	24.4	RL Factor	**3**
Decimal Places:	2		

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.19	0.19	0.19	1,895	0.19	0.19	300	0.038	0.114	0.038	0.114	381	1,142	
Oxygen	32.00	12.73	12.73	12.73	127,283	12.73	12.73	500	0.063	0.190	0.063	0.189	635	1,904	
Nitrogen	28.01	87.03	87.03	87.03	870,334	87.03	87.03	1000	0.127	0.381	0.127	0.381	1,269	3,807	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.038	0.013	0.039	127	381	U
Carbon Dioxide	44.01	0.05	0.05	0.05	488	0.05	0.05	100	0.013	0.038	0.013	0.039	127	381	
Sum - N2		12.97	100.00												
Sum		100.0													
Total Nitrogen		91.00													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **29**

Client ID T-211

Analytical Method ASTM D1945

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Chromatogram

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 29

Client: C.E. Schmidt
Client ID: T-211
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 629
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:26
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	685		
Final:	881		
Factor:	1.29		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

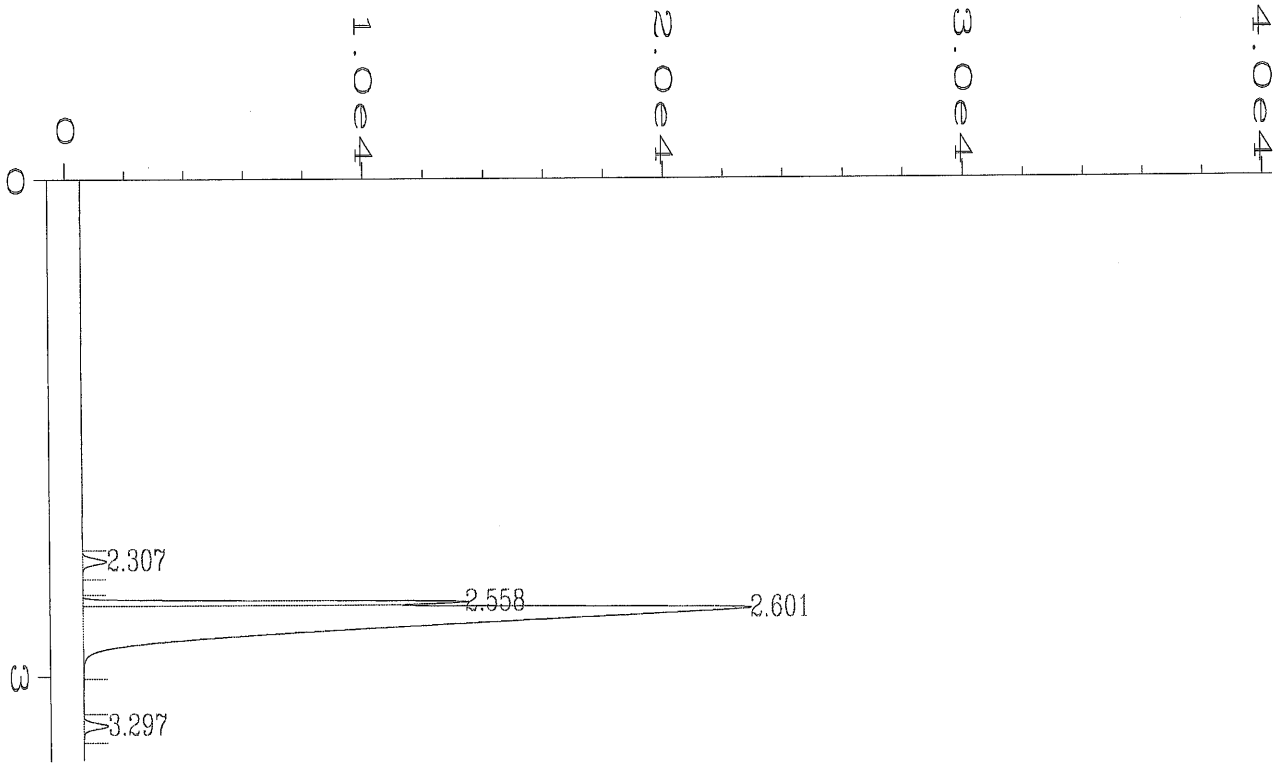
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510029MA.D
Operator : LR
Instrument : GCL
Sample Name : T-211
Run Time Bar Code:
Acquired on : 24 Mar 25 05:07 PM
Report Created on: 27 Mar 25 09:56 AM

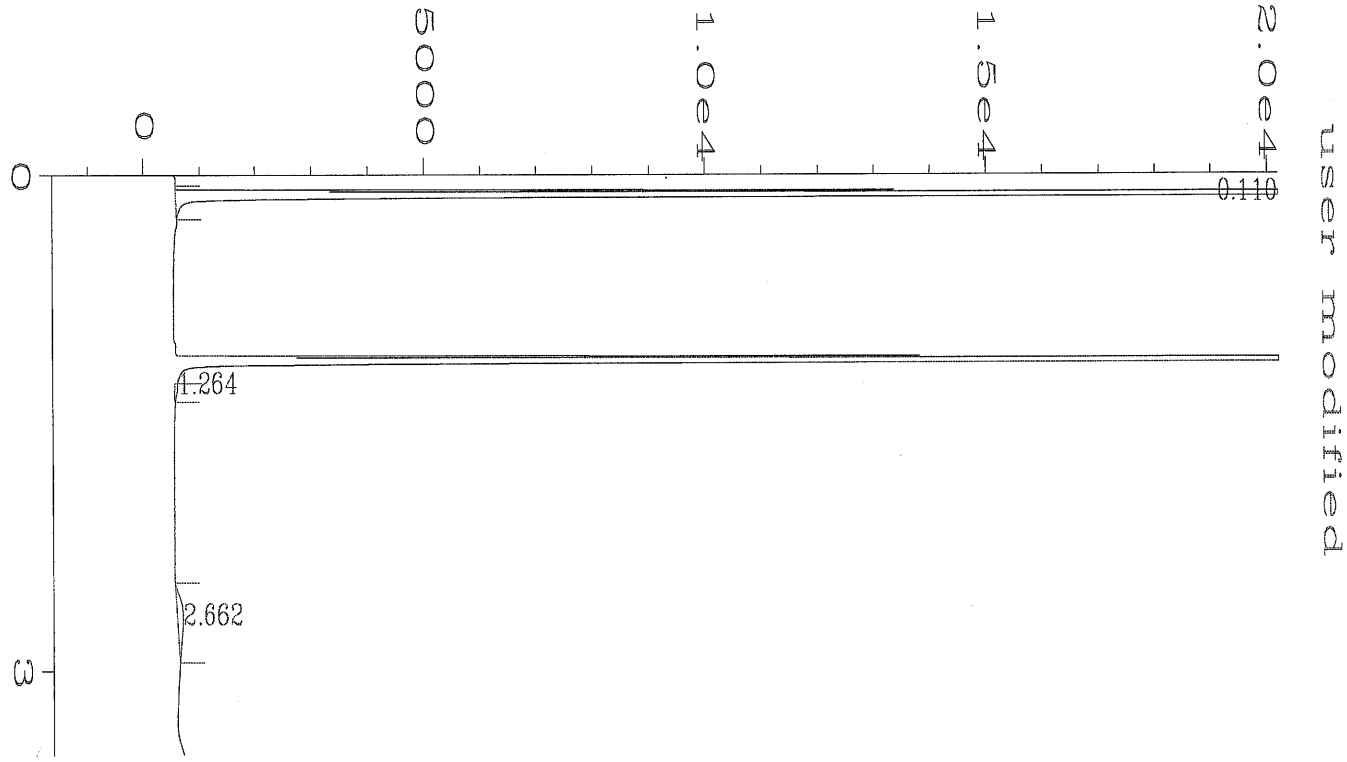
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510029MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.307	2115	824	BB	0.040	1.0682
2	2.558	22629	12946	BV	0.027	11.4294
3	2.601	171114	22381	VB	0.105	86.4269
4	3.297	2129	836	BB	0.040	1.0755

Total area = 197987

==========



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510029PA.D
Operator : LR
Instrument : GCL
Sample Name : T-211
Run Time Bar Code:
Acquired on : 24 Mar 25 05:07 PM
Report Created on: 27 Mar 25 11:48 AM
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510029PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.110	246048	240465	BB S	0.037	99.1763
2	1.264	255	54	MM	0.077	0.1026
3	2.662	1789	107	BB	0.278	0.7211

Total area = 248092

User Modified

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 29

File Name: 2510029A
Description: T-211
Can/Tube#: 629
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 11:26
Date Analyzed: 03/24/25 **Time:** 17:07
Can Dilution Factor: 1.29

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.039	0.117	0.24	386	1,158	2,428	
7782-44-7	Oxygen	0.064	0.192	12.62	643	1,929	126,250	
630-08-0	Carbon Monoxide	0.013	0.039	ND	129	386	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.07	129	386	650	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510029A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**29**		SF:	**2**	
Description:	**T-211**		Not Detected Flag:	**ND**	
Date Sampled:	**03/20/25**	Time: **11:26**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **17:07**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**629**				
Can Factor	**1.29**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**2966**
7782-44-7	Oxygen	02	2.27	**22629**
7727-37-9	Nitrogen	03	2.34	**171114**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**255**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100
Laboratory Number: 29

File Name:	2510029A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.29				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.29		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.24	0.24	0.24	2,428	0.24	0.24	300	0.039	0.116	0.039	0.117	386	1,158	
Oxygen	32.00	12.62	12.62	12.62	126,250	12.62	12.62	500	0.064	0.193	0.064	0.192	643	1,929	
Nitrogen	28.01	87.07	87.07	87.07	870,673	87.07	87.07	1000	0.129	0.386	0.129	0.387	1,286	3,858	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.039	0.013	0.039	129	386	U
Carbon Dioxide	44.01	0.07	0.07	0.07	650	0.07	0.07	100	0.013	0.039	0.013	0.039	129	386	
Sum - N2		12.93	100.00												
Sum		100.0													
Total Nitrogen		88.35													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **30**

Client ID T-212

Analytical Method ASTM D1945

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Quantitation Report
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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 30

File Name: 2510030A
Description: T-212
Can/Tube#: 502
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 11:30
Date Analyzed: 03/24/25 **Time:** 17:23
Can Dilution Factor: 1.35

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.041	0.123	0.28	406	1,218	2,815	
7782-44-7	Oxygen	0.068	0.204	12.49	677	2,031	124,880	
630-08-0	Carbon Monoxide	0.014	0.042	ND	135	406	ND	ND
124-38-9	Carbon Dioxide	0.014	0.042	0.05	135	406	486	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510030A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**30**		SF:	**2**	
Description:	**T-212**		Not Detected Flag:	**ND**	
Date Sampled:	**03/20/25**	Time: **11:30**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **17:23**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**502**				
Can Factor	**1.35**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**3268**
7782-44-7	Oxygen	02	2.27	**21266**
7727-37-9	Nitrogen	03	2.34	**173866**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**181**

Page 3 of 4

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510030A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.35				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.35		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Laboratory Number: 30

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.28	0.28	0.28	2,815	0.28	0.28	300	0.041	0.122	0.041	0.123	406	1,218	
Oxygen	32.00	12.49	12.49	12.49	124,880	12.49	12.49	500	0.068	0.203	0.068	0.204	677	2,031	
Nitrogen	28.01	87.18	87.18	87.18	871,819	87.18	87.18	1000	0.135	0.406	0.135	0.405	1,354	4,061	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.014	0.041	0.014	0.042	135	406	U
Carbon Dioxide	44.01	0.05	0.05	0.05	486	0.05	0.05	100	0.014	0.041	0.014	0.042	135	406	
Sum - N2		12.82	100.00												
Sum		100.0													
Total Nitrogen		94.49													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 30

Client: C.E. Schmidt
Client ID: T-212
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 502
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:30
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	687		
Final:	930		
Factor:	1.35		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

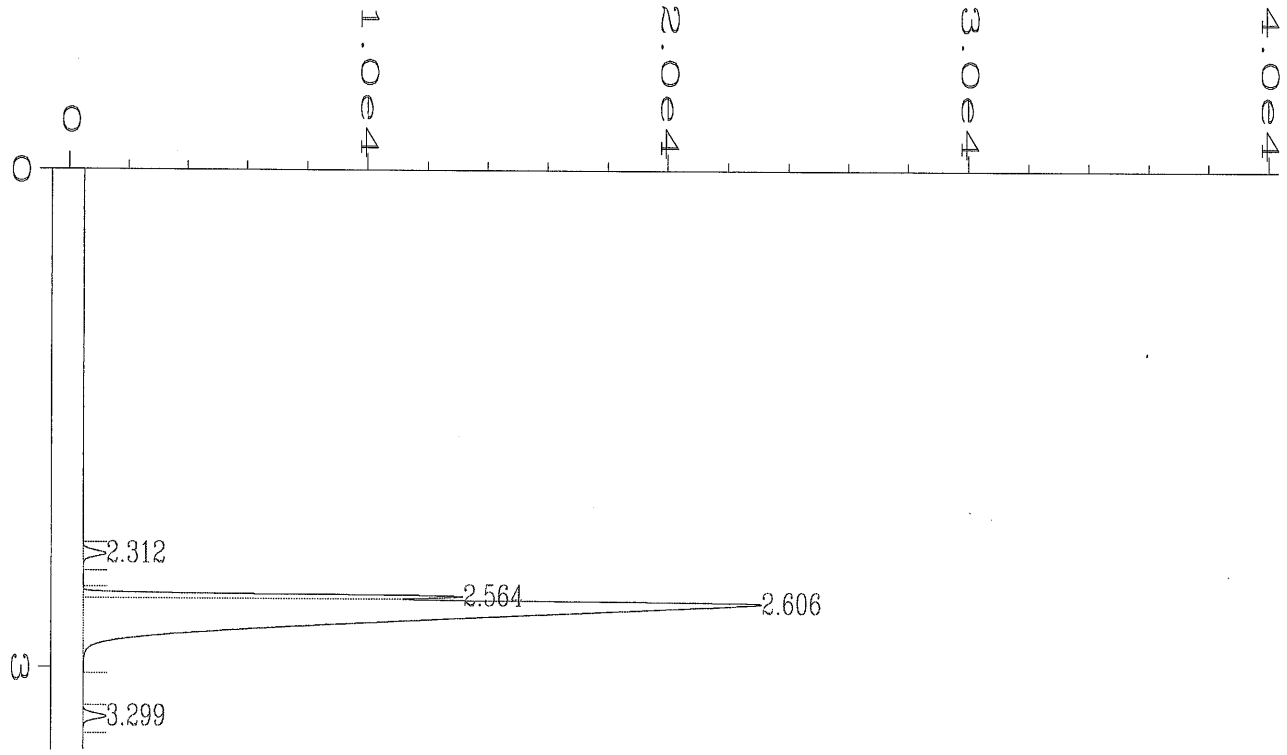
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510030MA.D
Operator : LR
Instrument : GCL
Sample Name : T-212
Run Time Bar Code:
Acquired on : 24 Mar 25 05:23 PM
Report Created on: 27 Mar 25 09:57 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510030MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.312	1997	779	BB	0.040	1.0027
2	2.564	21266	12708	BV	0.026	10.6802
3	2.606	173866	22619	VB	0.104	87.3175
4	3.299	1990	783	BB	0.039	0.9995

Total area = 199119

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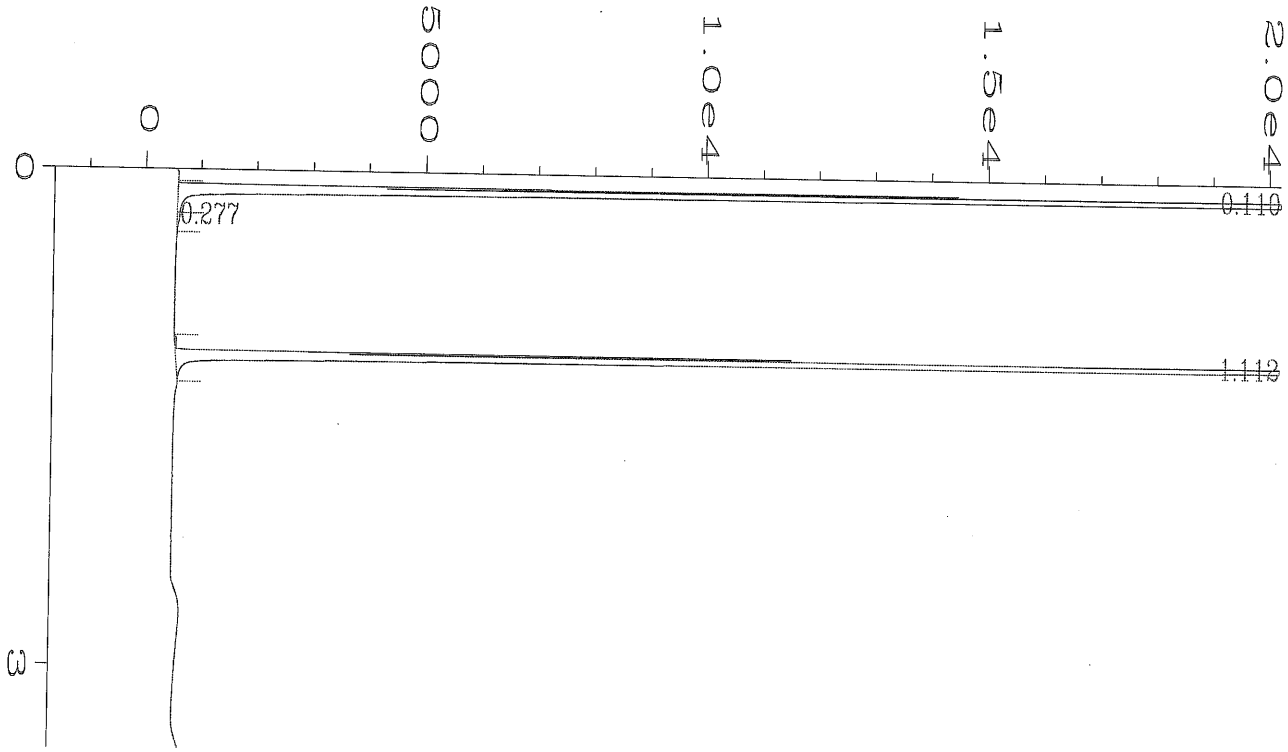

Area Percent Report

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510030PA.D
Operator : LR
Instrument : GCL
Sample Name : T-212
Run Time Bar Code:
Acquired on : 24 Mar 25 05:23 PM
Report Created on: 27 Mar 25 12:04 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510030PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.110	241081	244934	MF	0.016	49.3115
2	0.277	181	44	FM	0.069	0.0370
3	1.112	247632	231161	BB S	0.041	50.6515

Total area = 488894

User Modified

Sample Data Packages

SDG Number 225100
Lab Id Number 31

Client ID T-213

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 31

File Name: 2510031A
Description: T-213
Can/Tube#: 712
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 11:30
Date Analyzed: 03/24/25 **Time:** 17:32
Can Dilution Factor: 1.33

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.040	0.120	0.32	400	1,201	3,186	
7782-44-7	Oxygen	0.067	0.201	12.60	667	2,002	126,048	
630-08-0	Carbon Monoxide	0.013	0.039	ND	133	400	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.05	133	400	503	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510031A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**31**		SF:	**2**	
Description:	**T-213**		Not Detected Flag:	**ND**	
Date Sampled:	**03/20/25**	Time: **11:30**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **17:32**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**712**				
Can Factor	**1.33**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**3751**
7782-44-7	Oxygen	02	2.27	**21769**
7727-37-9	Nitrogen	03	2.34	**175021**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**190**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100
Laboratory Number: 31

File Name:	2510031A
QCBatch	032425-GCO
Can Factor	1.33
Air Volume:	0.50 ml
Base Volume	0.50 ml
Dilution Factor	1.33
Gas Constant:	24.4
Decimal Places:	2

Detect Flag: ND
Report Normalized: **No**

Temp	**25**	C
Atm P	**760.0**	torr
Gas Constant	24.4	
RL Factor	**3**	

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.32	0.32	0.32	3,186	0.32	0.32	300	0.040	0.120	0.040	0.120	400	1,201	
Oxygen	32.00	12.60	12.60	12.60	126,048	12.60	12.60	500	0.067	0.200	0.067	0.201	667	2,002	
Nitrogen	28.01	87.03	87.03	87.03	870,263	87.03	87.03	1000	0.133	0.400	0.133	0.399	1,335	4,004	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.040	0.013	0.039	133	400	U
Carbon Dioxide	44.01	0.05	0.05	0.05	503	0.05	0.05	100	0.013	0.040	0.013	0.039	133	400	
Sum - N2		12.97	100.00												
Sum		100.0													
Total Nitrogen		93.79													

EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 | 31

Client: C.E. Schmidt
Client ID: T-213
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 712
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:30
Received: 3/21/2025 Time: 14:30

Date:
Initial : 678
Final: 905
Factor: 1.33

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

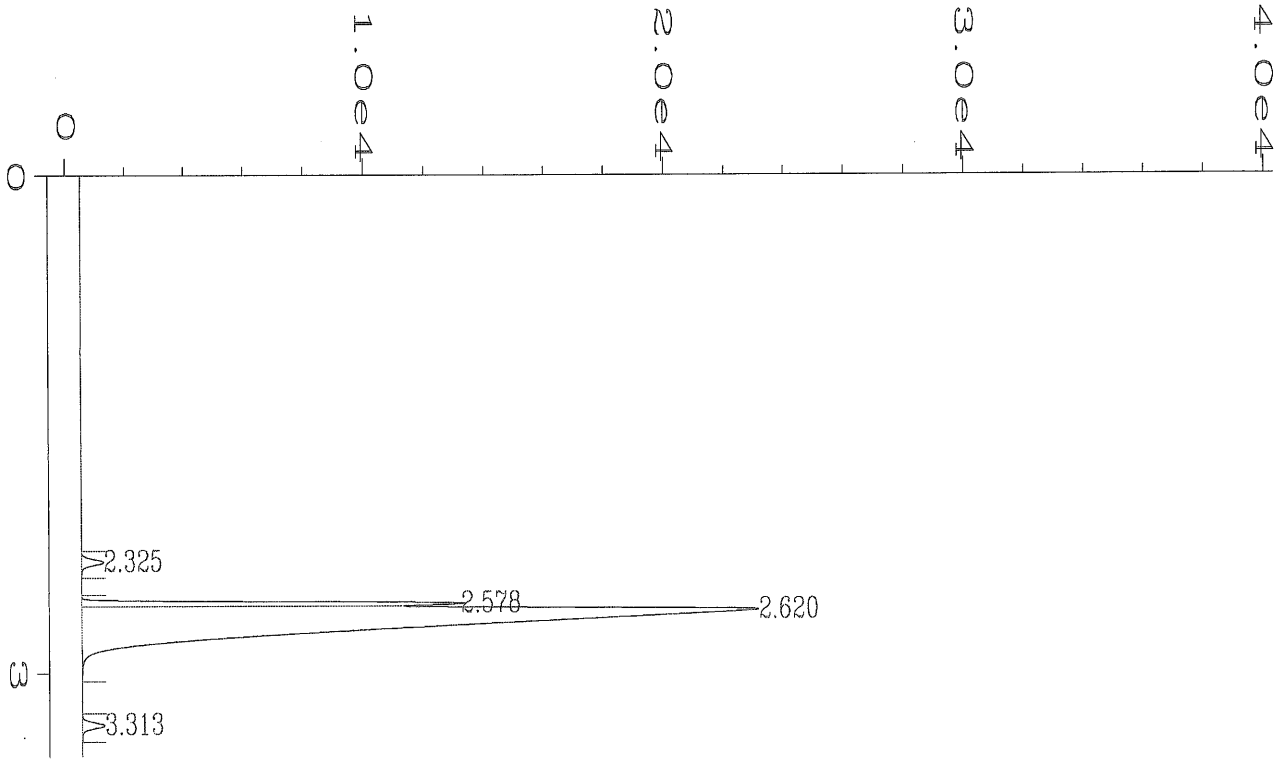
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510031MA.D
Operator : LR
Instrument : GCL
Sample Name : T-213
Run Time Bar Code:
Acquired on : 24 Mar 25 05:32 PM
Report Created on: 27 Mar 25 09:58 AM

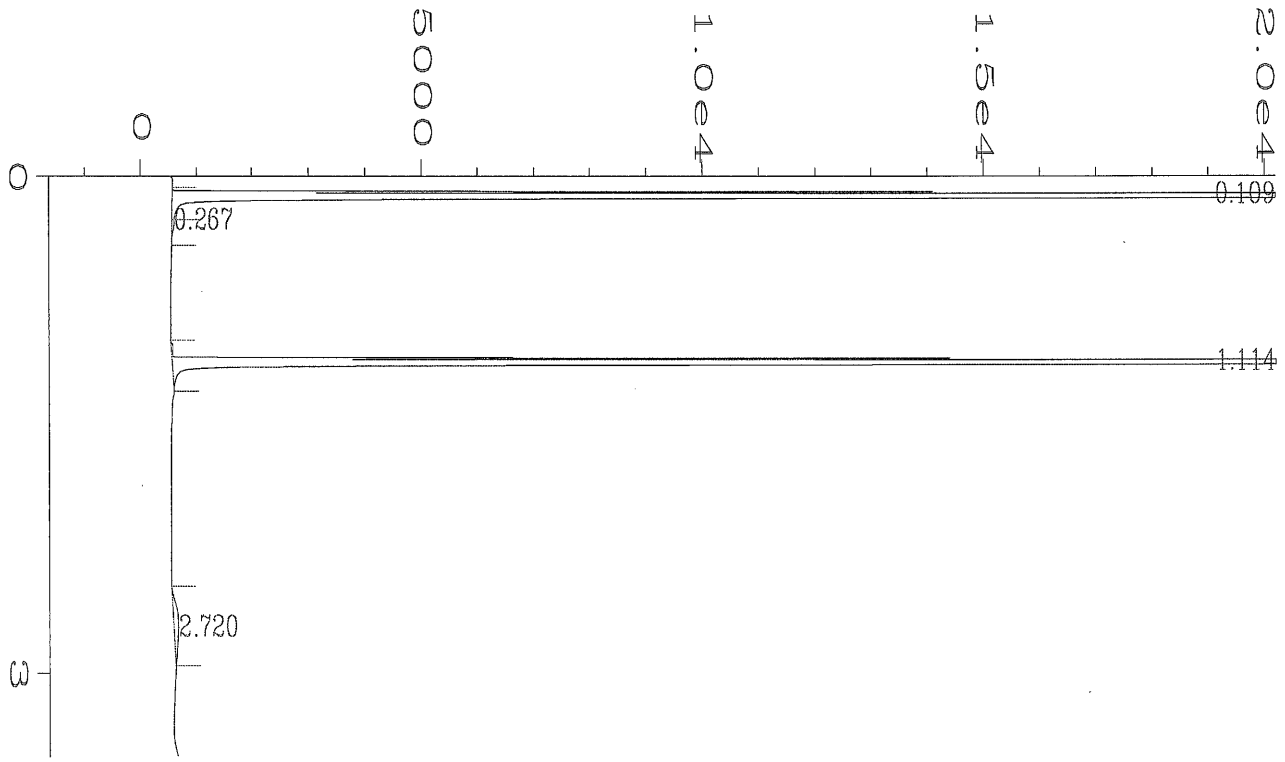
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510031MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.325	1951	756	BB	0.040	0.9719
2	2.578	21769	12848	BV	0.026	10.8464
3	2.620	175021	22592	VB	0.104	87.2022
4	3.313	1966	770	BB	0.040	0.9794

Total area = 200707

==========



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510031PA.D
Operator : LR
Instrument : GCL
Sample Name : T-213
Run Time Bar Code:
Acquired on : 24 Mar 25 05:32 PM
Report Created on: 27 Mar 25 12:07 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510031PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.109	249315	246177	MF	0.017	50.0859
2	0.267	190	43	FM	0.074	0.0382
3	1.114	246805	238412	BB S	0.016	49.5815
4	2.720	1466	87	BB	0.247	0.2945

Total area = 497776

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **32**

Client ID T-214

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 32

File Name: 2510032A
Description: T-214
Can/Tube#: 610
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 12:57
Date Analyzed: 03/24/25 **Time:** 17:37
Can Dilution Factor: 1.11

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.033	0.099	0.36	334	1,002	3,614	
7782-44-7	Oxygen	0.056	0.168	13.16	557	1,670	131,554	
630-08-0	Carbon Monoxide	0.011	0.033	ND	111	334	ND	ND
124-38-9	Carbon Dioxide	0.011	0.033	ND	111	334	ND	ND

QUANTITATION REPORT
ASTM D1945 GC/TCD

File Name:	**2510032A**			Method:	**D1945**
SDG:	**225100**			Cal Update:	**4/19/24**
Lab Id:	**32**			SF:	**2**
Description:	**T-214**			Not Detected Flag:	**ND**
Date Sampled:	**03/20/25**	Time:	**12:57**	Matrix	**AA**
Date Received:	**03/21/25**	Time:	**14:30**	Type	**TRG**
Date Analyzed:	**03/24/25**	Time:	**17:37**	Instrument	**GCO**
QCBatch	**032425-GCO**			Flux Factor:	0.385 mg/m2*min
Can Number	**610**				
Can Factor	**1.11**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**5102**
7782-44-7	Oxygen	02	2.27	**27242**
7727-37-9	Nitrogen	03	2.34	**164469**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**0**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510032A	Detect Flag:	ND	**Laboratory Number:**	**32**
QCBatch	032425-GCO	Report Normalized:	**No**		
Can Factor	1.11				
Air Volume:	0.50 ml	Temp	**25** C		
Base Volume	0.50 ml	Atm P	**760.0** torr		
Dilution Factor	1.11	Gas Constant	24.4		
Gas Constant:	24.4	RL Factor	**3**		
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.36	0.36	0.36	3,614	0.36	0.36	300	0.033	0.100	0.033	0.099	334	1,002	
Oxygen	32.00	13.16	13.16	13.16	131,554	13.16	13.16	500	0.056	0.167	0.056	0.168	557	1,670	
Nitrogen	28.01	86.48	86.48	86.48	864,832	86.48	86.48	1000	0.111	0.334	0.111	0.333	1,113	3,340	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.011	0.033	0.011	0.033	111	334	U
Carbon Dioxide	44.01	0.00	0.00	ND	ND	0.00		100	0.011	0.033	0.011	0.033	111	334	U
Sum - N2		13.52	100.00												
Sum		100.0													
Total Nitrogen		73.51													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	ND	Y

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 32

Client: C.E. Schmidt
Client ID: T-214
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 610
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:57
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	786		
Final:	875		
Factor:	1.11		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

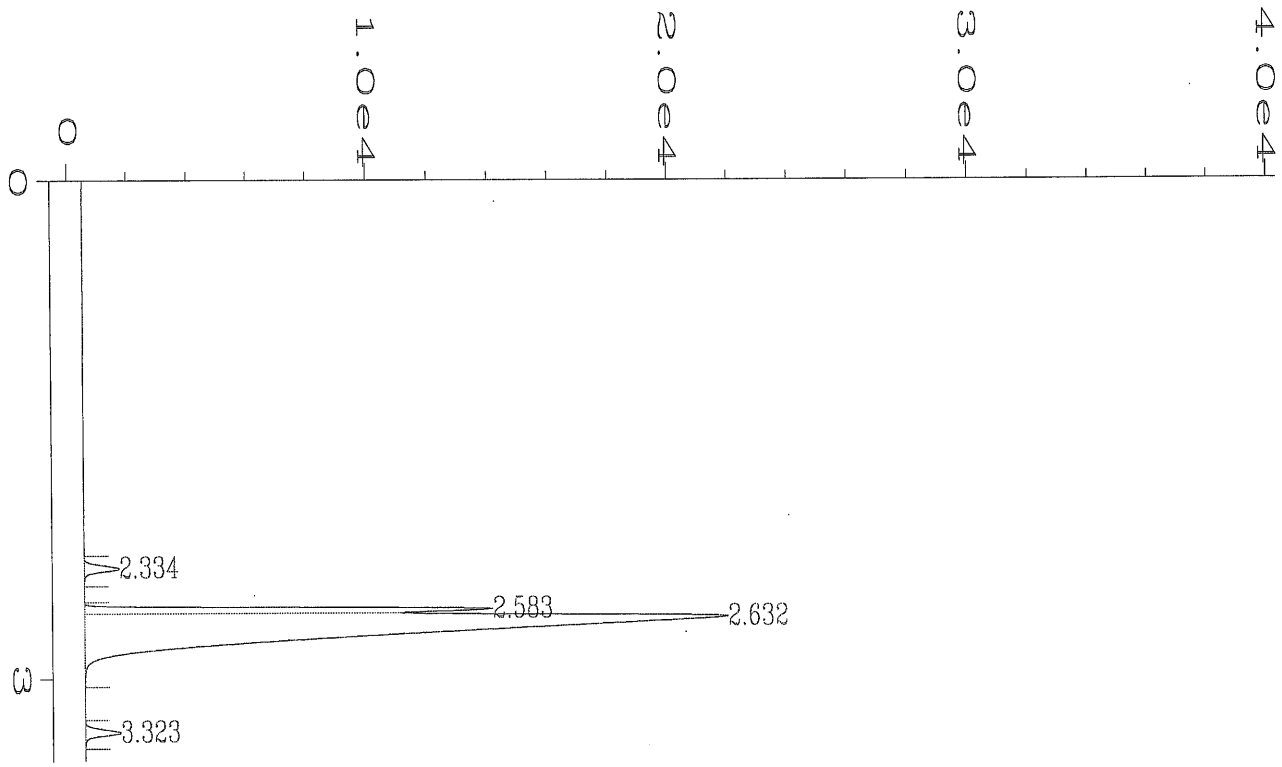
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510032MA.D
Operator : LR
Instrument : GCL
Sample Name : T-214
Run Time Bar Code:
Acquired on : 24 Mar 25 05:37 PM
Report Created on: 27 Mar 25 10:00 AM

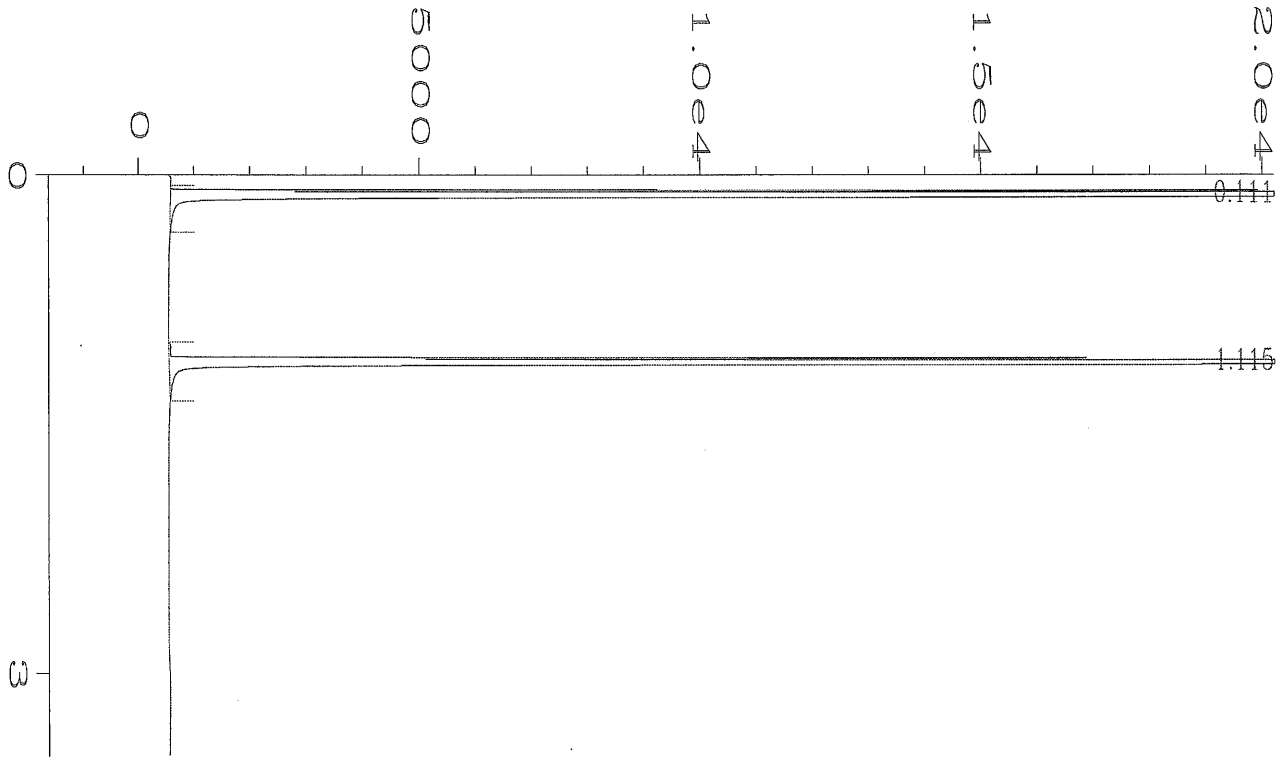
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510032MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.334	3093	1182	BB	0.041	1.5626
2	2.583	27242	13627	BV	0.031	13.7652
3	2.632	164469	21497	VB	0.102	83.1054
4	3.323	3101	1203	BB	0.040	1.5667

Total area = 197903

==========



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510032PA.D
Operator : LR
Instrument : GCL
Sample Name : T-214
Run Time Bar Code:
Acquired on : 24 Mar 25 05:37 PM
Report Created on: 27 Mar 25 10:00 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510032PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.111	242574	245019	BB S	0.040	49.6935
2	1.115	245567	225192	BB S	0.036	50.3065

Total area = 488141

==========

Sample Data Packages

SDG Number 225100

Lab Id Number 33

Client ID T-215

Analytical Method ASTM D1945

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Analytical Report
Quantitation Report
Calculations
Sample Calculations
Chromatogram

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 33

Client: C.E. Schmidt
Client ID: T-215
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 751
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:44
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	677		
Final:	874		
Factor:	1.29		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

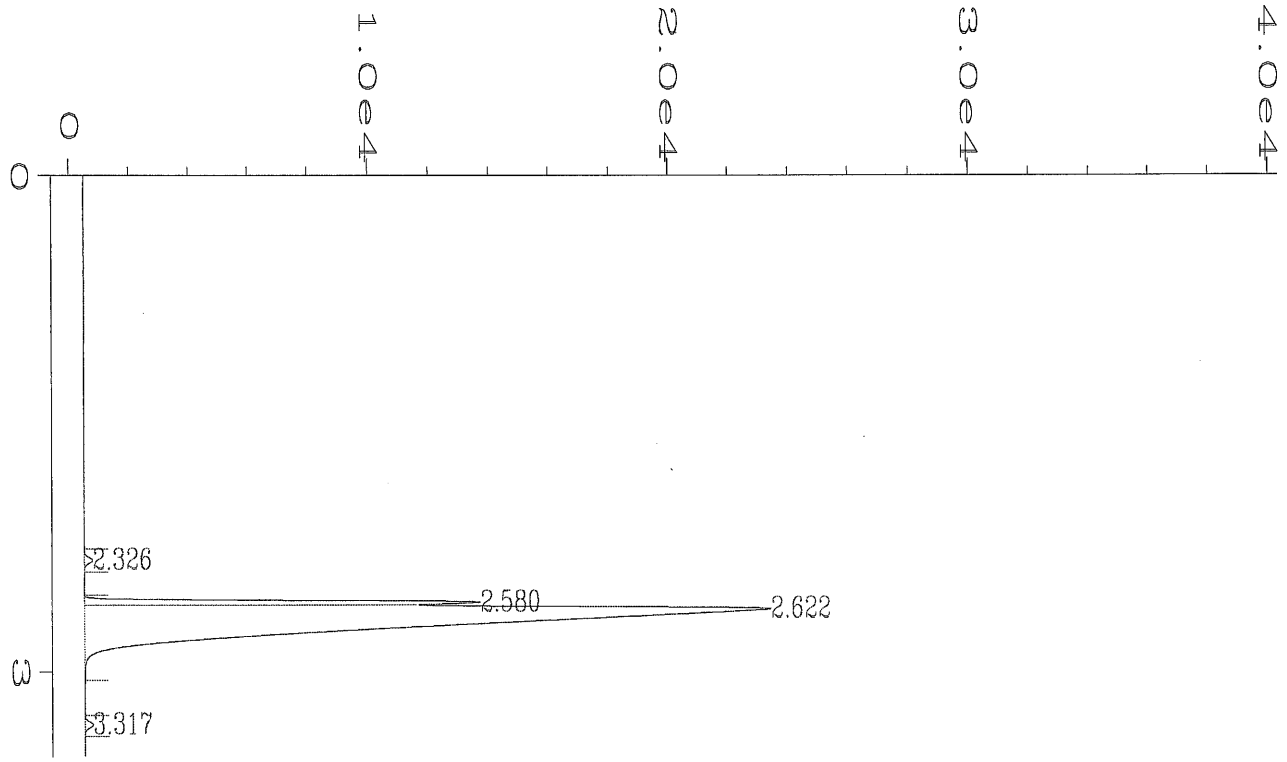
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510033MA.D
Operator : LR
Instrument : GCL
Sample Name : T-215
Run Time Bar Code:
Acquired on : 24 Mar 25 05:45 PM
Report Created on: 27 Mar 25 10:00 AM

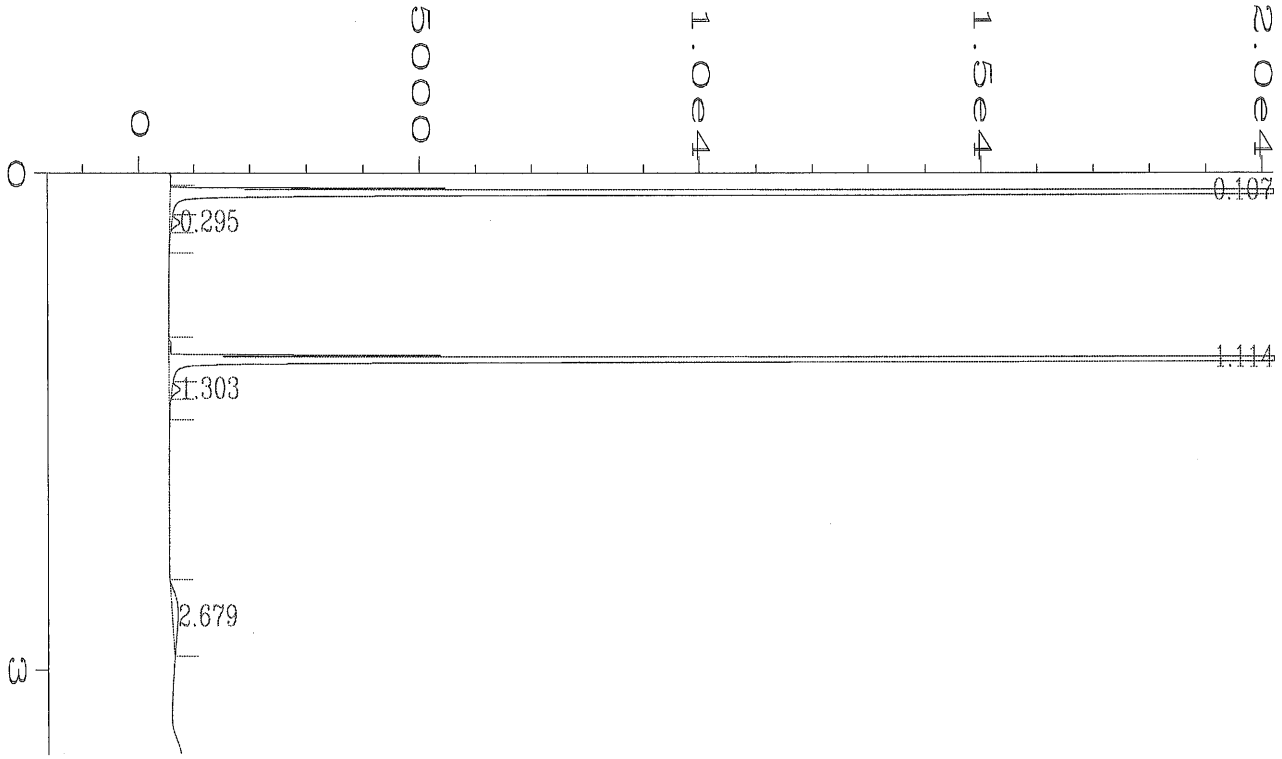
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510033MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.326	710	278	BB	0.040	0.3486
2	2.580	22376	13197	BV	0.026	10.9902
3	2.622	179817	22914	VB	0.105	88.3183
4	3.317	698	277	BB	0.039	0.3429

Total area = 203601

==========



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510033PA.D
Operator : LR
Instrument : GCL
Sample Name : T-215
Run Time Bar Code:
Acquired on : 24 Mar 25 05:45 PM
Report Created on: 27 Mar 25 10:01 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510033PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.107	253723	249533	BB S	0.016	49.9258
2	0.295	412	146	BV T	0.043	0.0810
3	1.114	251851	253695	BB S	0.015	49.5574
4	1.303	410	148	BV T	0.045	0.0808
5	2.679	1804	106	BB	0.242	0.3551

Total area = 508201

==========

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 33

File Name: 2510033A
Description: T-215
Can/Tube#: 751
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 12:44
Date Analyzed: 03/24/25 **Time:** 17:45
Can Dilution Factor: 1.29

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.039	0.117	0.15	387	1,162	1,457	
7782-44-7	Oxygen	0.065	0.195	12.53	645	1,936	125,310	
630-08-0	Carbon Monoxide	0.013	0.039	ND	129	387	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.11	129	387	1,054	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510033A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**33**		SF:	**2**	
Description:	**T-215**		Not Detected Flag:	**ND**	
Date Sampled:	**03/20/25**	Time: **12:44**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **17:45**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**751**				
Can Factor	**1.29**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**1774**
7782-44-7	Oxygen	02	2.27	**22376**
7727-37-9	Nitrogen	03	2.34	**179817**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**412**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510033A		Detect Flag:	ND	**Laboratory Number: 33**
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.29				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.29		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.15	0.15	0.15	1,457	0.15	0.15	300	0.039	0.116	0.039	0.117	387	1,162	
Oxygen	32.00	12.53	12.53	12.53	125,310	12.53	12.53	500	0.065	0.194	0.065	0.195	645	1,936	
Nitrogen	28.01	87.22	87.22	87.22	872,179	87.22	87.22	1000	0.129	0.387	0.129	0.387	1,291	3,873	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.039	0.013	0.039	129	387	U
Carbon Dioxide	44.01	0.11	0.11	0.11	1,054	0.11	0.11	100	0.013	0.039	0.013	0.039	129	387	
Sum - N2		12.78	100.00												
Sum		100.0													
Total Nitrogen		93.20													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **34**

Client ID T-216

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 34

File Name: 2510034A
Description: T-216
Can/Tube#: 896
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 12:46
Date Analyzed: 03/24/25 **Time:** 17:49
Can Dilution Factor: 1.38

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.041	0.123	0.36	415	1,245	3,621	
7782-44-7	Oxygen	0.069	0.207	12.27	691	2,074	122,732	
630-08-0	Carbon Monoxide	0.014	0.042	ND	138	415	ND	ND
124-38-9	Carbon Dioxide	0.014	0.042	0.03	138	415	310	J

QUANTITATION REPORT
ASTM D1945 GC/TCD

File Name:	**2510034A**			Method:	**D1945**
SDG:	**225100**			Cal Update:	**4/19/24**
Lab Id:	**34**			SF:	**2**
Description:	**T-216**			Not Detected Flag:	**ND**
Date Sampled:	**03/20/25**	Time:	**12:46**	Matrix	**AA**
Date Received:	**03/21/25**	Time:	**14:30**	Type	**TRG**
Date Analyzed:	**03/24/25**	Time:	**17:49**	Instrument	**GCO**
QCBatch	**032425-GCO**			Flux Factor:	0.385 mg/m2*min
Can Number	**896**				
Can Factor	**1.38**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**4114**
7782-44-7	Oxygen	02	2.27	**20459**
7727-37-9	Nitrogen	03	2.34	**174205**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**113**

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The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

File Name:	2510034A
QCBatch	032425-GCO
Can Factor	1.38
Air Volume:	0.50 ml
Base Volume	0.50 ml
Dilution Factor	1.38
Gas Constant:	24.4
Decimal Places:	2

Detect Flag: ND
Report Normalized: **No**

Temp	**25**	C
Atm P	**760.0**	torr
Gas Constant	24.4	
RL Factor	**3**	

SDG: 225100
Laboratory Number: 34

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.36	0.36	0.36	3,621	0.36	0.36	300	0.041	0.124	0.041	0.123	415	1,245	
Oxygen	32.00	12.27	12.27	12.27	122,732	12.27	12.27	500	0.069	0.207	0.069	0.207	691	2,074	
Nitrogen	28.01	87.33	87.33	87.33	873,338	87.33	87.33	1000	0.138	0.415	0.138	0.414	1,383	4,149	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.014	0.041	0.014	0.042	138	415	U
Carbon Dioxide	44.01	0.03	0.03	0.03	310	0.03	0.03	100	0.014	0.041	0.014	0.042	138	415	J
Sum - N2		12.67	100.00												
Sum		100.0													
Total Nitrogen		96.72													

EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	ND	Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 | 34

Client: C.E. Schmidt
Client ID: T-216
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 896
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:46
Received: 3/21/2025 Time: 14:30

Date:
Initial : 632
Final: 874
Factor: 1.38

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

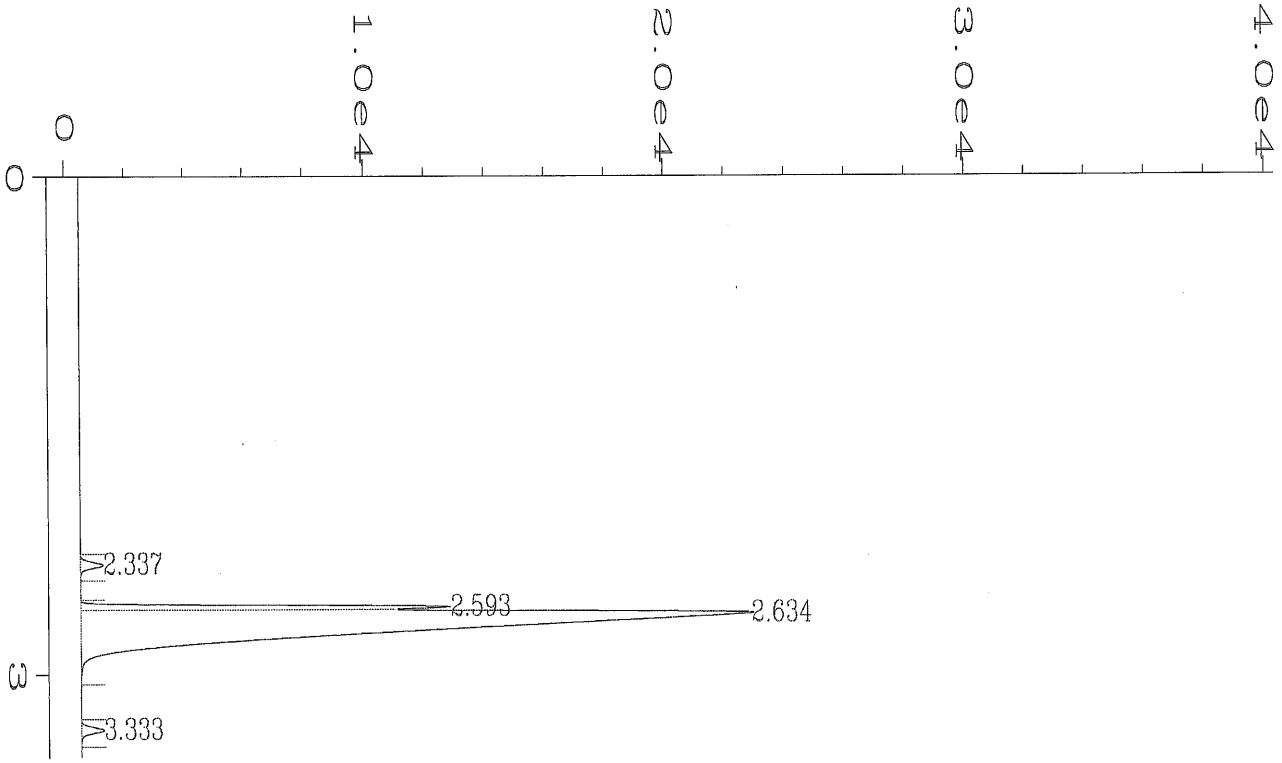
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510034MA.D
Operator : LR
Instrument : GCL
Sample Name : T-216
Run Time Bar Code:
Acquired on : 24 Mar 25 05:49 PM
Report Created on: 27 Mar 25 10:02 AM

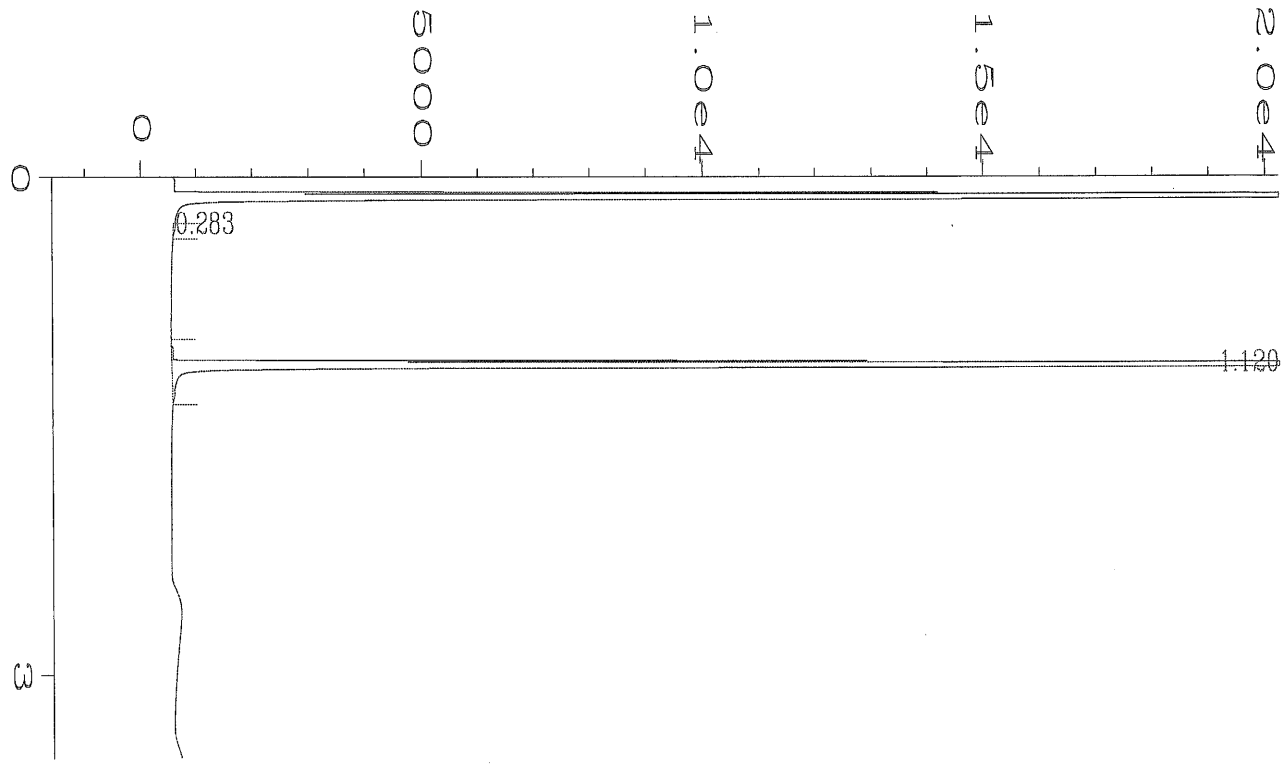
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510034MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.337	1962	756	BB	0.040	0.9880
2	2.593	20459	12339	BV	0.026	10.3016
3	2.634	174205	22462	VB	0.102	87.7164
4	3.333	1974	764	BB	0.040	0.9939

Total area = 198601

==========



User Modified

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510034PA.D
Operator : LR
Instrument : GCL
Sample Name : T-216
Run Time Bar Code:
Acquired on : 24 Mar 25 05:49 PM
Report Created on: 27 Mar 25 12:14 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510034PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.283	113	38	MM	0.049	0.0464
2	1.120	243946	234340	BB S	0.036	99.9536

Total area = 244059

User Modified

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **35**

Client ID T-217

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 35

File Name: 2510035A
Description: T-217
Can/Tube#: 634
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 12:48
Date Analyzed: 03/24/25 **Time:** 18:08
Can Dilution Factor: 1.27

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.28	381	1,144	2,767	
7782-44-7	Oxygen	0.064	0.192	12.49	636	1,907	124,908	
630-08-0	Carbon Monoxide	0.013	0.039	ND	127	381	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.08	127	381	769	

QUANTITATION REPORT
ASTM D1945 GC/TCD

File Name:	**2510035A**			Method:	**D1945**
SDG:	**225100**			Cal Update:	**4/19/24**
Lab Id:	**35**			SF:	**2**
Description:	**T-217**			Not Detected Flag:	**ND**
Date Sampled:	**03/20/25**	Time:	**12:48**	Matrix	**AA**
Date Received:	**03/21/25**	Time:	**14:30**	Type	**TRG**
Date Analyzed:	**03/24/25**	Time:	**18:08**	Instrument	**GCO**
QCBatch	**032425-GCO**			Flux Factor:	0.385 mg/m2*min
Can Number	**634**				
Can Factor	**1.27**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**3420**
7782-44-7	Oxygen	02	2.27	**22650**
7727-37-9	Nitrogen	03	2.34	**173043**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**305**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

Laboratory Number: 35

File Name:	2510035A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.27				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.27		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.28	0.28	0.28	2,767	0.28	0.28	300	0.038	0.114	0.038	0.114	381	1,144	
Oxygen	32.00	12.49	12.49	12.49	124,908	12.49	12.49	500	0.064	0.191	0.064	0.192	636	1,907	
Nitrogen	28.01	87.16	87.16	87.16	871,557	87.16	87.16	1000	0.127	0.381	0.127	0.381	1,271	3,814	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.038	0.013	0.039	127	381	U
Carbon Dioxide	44.01	0.08	0.08	0.08	769	0.08	0.08	100	0.013	0.038	0.013	0.039	127	381	
Sum - N2		12.84	100.00												
Sum		100.0													
Total Nitrogen		88.32													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:	Expires:		
	4/19/2025	225100	35

Client:	C.E. Schmidt	MS Load Vol:	300
Client ID:	T-217	MS SIM Vol:	
Description:		GCK Load Vol:	200
Project Name:	Chiquita Canyon	GCP Load Vol:	
EAS Project:	17807 EAS PM: David Atkinson	Sample Volume:	

Media:	CAN	Can Pressurization:	Sampled:	3/20/2025	Time: 12:48
Can Number:	634		Received:	3/21/2025	Time: 14:30
FC Number:	0				
TAT Working:		Date:			
Sampling Time:		Initial :	693		
Flow:		Final:	881		
		Factor:	1.27		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

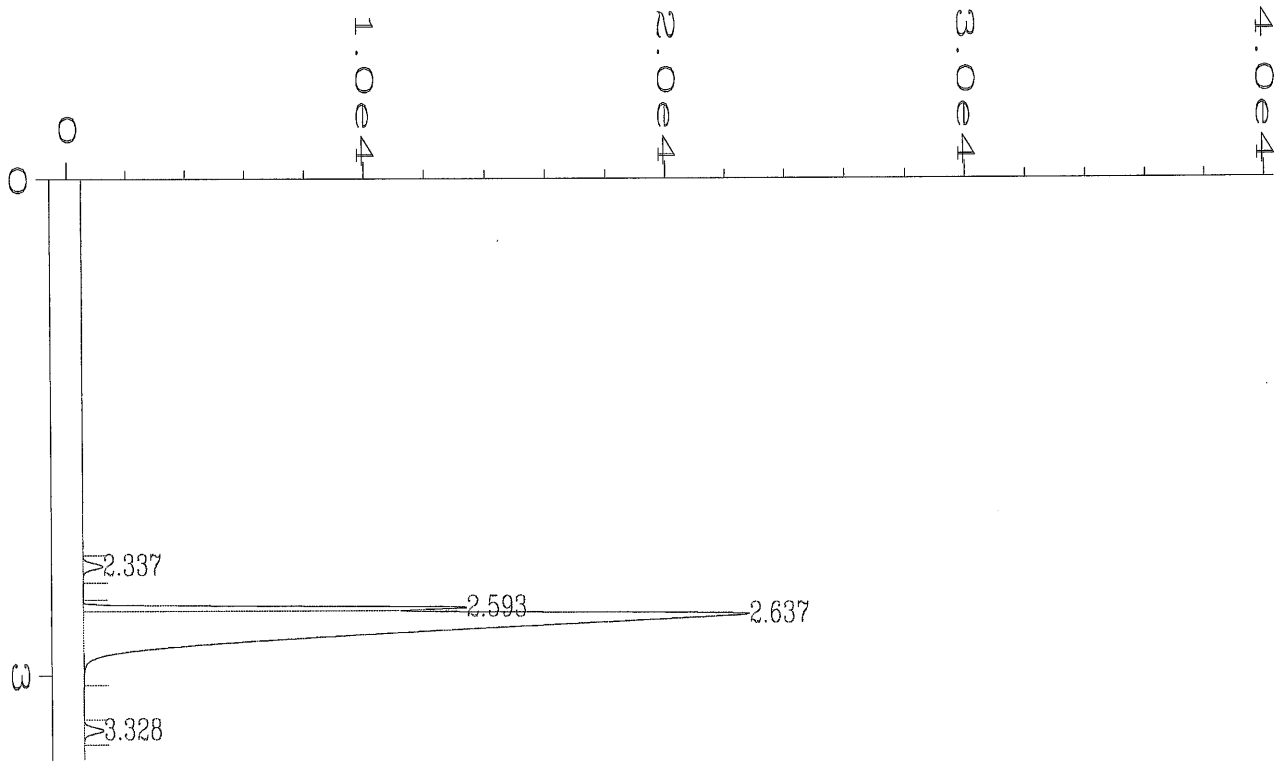
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510035MA.D
Operator : LR
Instrument : GCL
Sample Name : T-217
Run Time Bar Code:
Acquired on : 24 Mar 25 06:08 PM
Report Created on: 27 Mar 25 10:03 AM

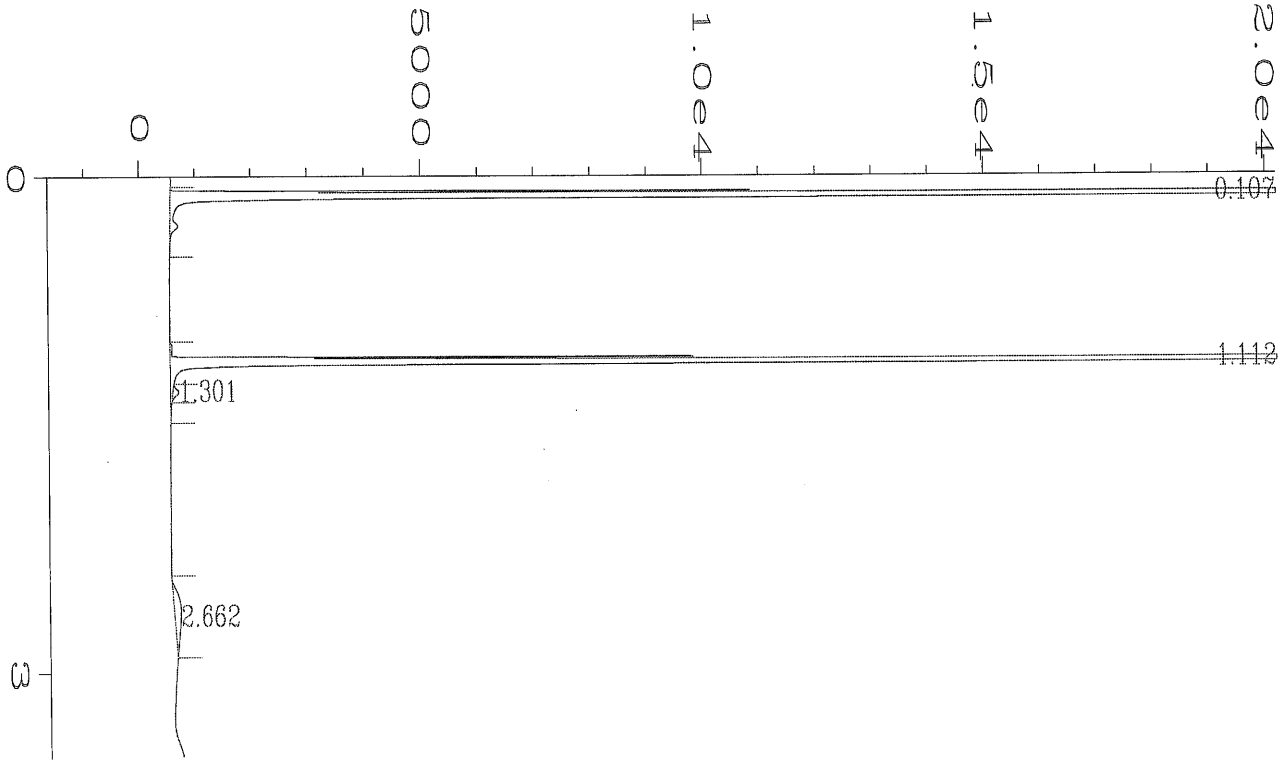
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510035MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.337	1682	643	BB	0.041	0.8448
2	2.593	22650	12820	BV	0.027	11.3792
3	2.637	173043	22238	VB	0.104	86.9374
4	3.328	1669	649	BB	0.040	0.8385

Total area = 199043

==========



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510035PA.D
Operator : LR
Instrument : GCL
Sample Name : T-217
Run Time Bar Code:
Acquired on : 24 Mar 25 06:08 PM
Report Created on: 27 Mar 25 10:03 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510035PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.107	247697	242464	BB S	0.036	49.7275
2	1.112	247980	231988	BB S	0.039	49.7844
3	1.301	305	110	BV T	0.045	0.0612
4	2.662	2127	121	BB	0.288	0.4269

Total area = 498108

==========

Sample Data Packages

SDG Number 225100
Lab Id Number 36

Client ID T-218

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 36

File Name: 2510036A
Description: T-218
Can/Tube#: 698
QC_Batch: 032425-GCO

Date Sampled: 03/20/25 **Time:** 12:42
Date Analyzed: 03/24/25 **Time:** 18:12
Can Dilution Factor: 1.27

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.24	380	1,141	2,405	
7782-44-7	Oxygen	0.063	0.189	1.16	634	1,901	11,594	
630-08-0	Carbon Monoxide	0.013	0.039	ND	127	380	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	2.11	127	380	21,098	

QUANTITATION REPORT
ASTM D1945 GC/TCD

File Name:	**2510036A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**36**		SF:	**2**	
Description:	**T-218**		Not Detected Flag:	**ND**	
Date Sampled:	**03/20/25**	Time: **12:42**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **18:12**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**698**				
Can Factor	**1.27**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**2982**
7782-44-7	Oxygen	02	2.27	**2109**
7727-37-9	Nitrogen	03	2.34	**172509**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**8399**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

File Name:	2510036A
QCBatch	032425-GCO
Can Factor	1.27
Air Volume:	0.50 ml
Base Volume	0.50 ml
Dilution Factor	1.27
Gas Constant:	24.4
Decimal Places:	2

Detect Flag: ND
Report Normalized: **No**

Temp	**25**	C
Atm P	**760.0**	torr
Gas Constant	24.4	
RL Factor	**3**	

SDG: 225100
Laboratory Number: 36

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	Fixed ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.24	0.24	0.24	2,405	0.24	0.24	300	0.038	0.114	0.038	0.114	380	1,141	
Oxygen	32.00	1.16	1.16	1.16	11,594	1.16	1.16	500	0.063	0.190	0.063	0.189	634	1,901	
Nitrogen	28.01	96.42	96.42	96.42	964,202	96.42	96.42	1000	0.127	0.380	0.127	0.381	1,267	3,802	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.038	0.013	0.039	127	380	U
Carbon Dioxide	44.01	2.11	2.11	2.11	21,098	2.11	2.11	100	0.013	0.038	0.013	0.039	127	380	
Sum - N2		3.58	100.00												
Sum		100.0													
Total Nitrogen		87.77													

EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 | 36

Client: C.E. Schmidt
Client ID: T-218
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 698
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:42
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	692		
Final:	877		
Factor:	1.27		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

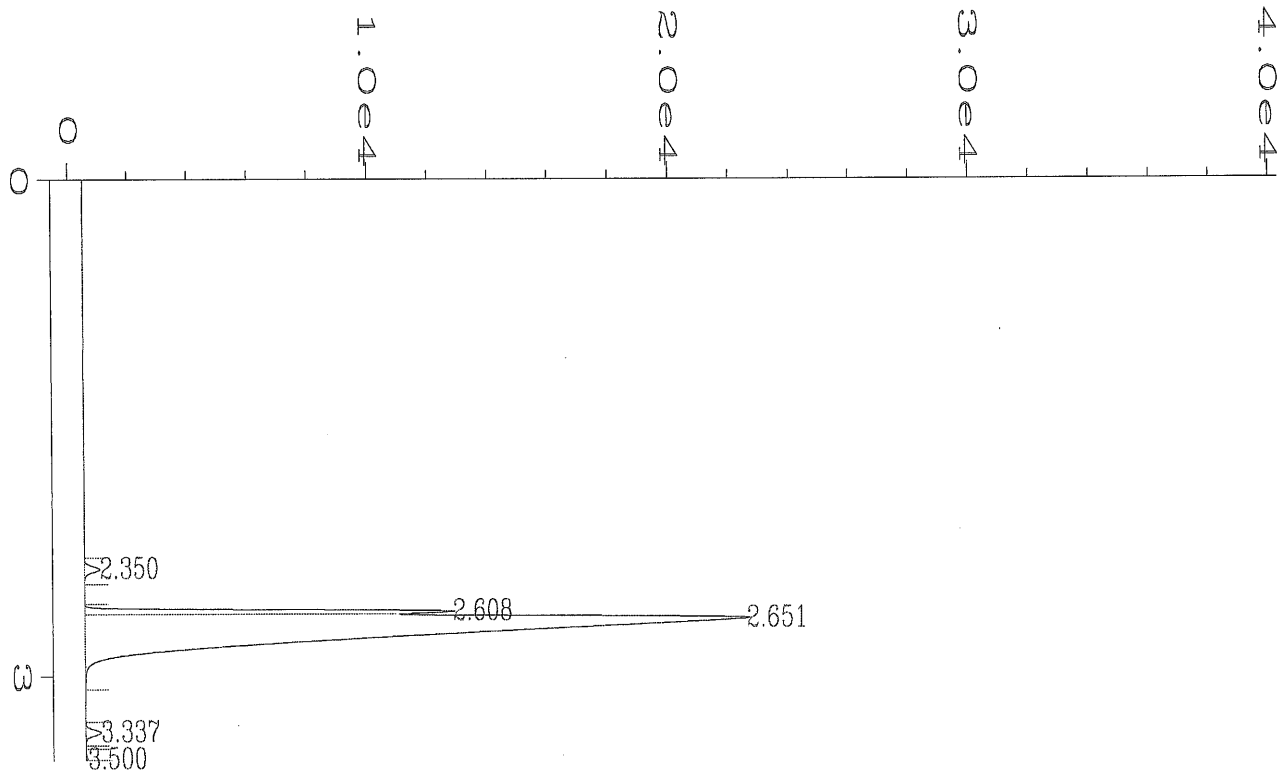
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



user modified

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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510036MA.D
Operator : LR
Instrument : GCL
Sample Name : T-218
Run Time Bar Code:
Acquired on : 24 Mar 25 06:12 PM
Report Created on: 27 Mar 25 12:21 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510036MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.350	1345	514	BB	0.041	0.6848
2	2.608	21098	12427	BV	0.026	10.7427
3	2.651	172509	22173	VB	0.107	87.8401
4	3.337	1337	522	BB	0.040	0.6809
5	3.500	101	61	MM	0.028	0.0516

Total area = 196390

User Modified

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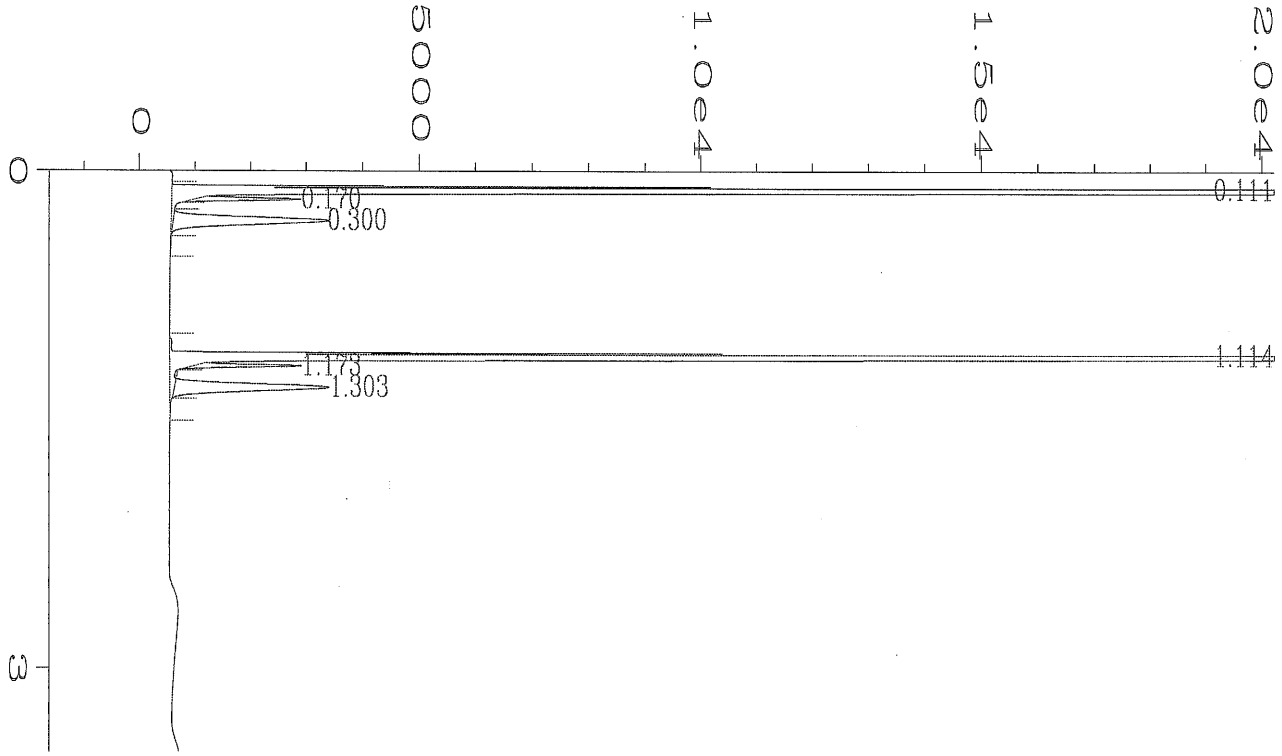

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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510036PA.D
Operator : LR
Instrument : GCL
Sample Name : T-218
Run Time Bar Code:
Acquired on : 24 Mar 25 06:12 PM
Report Created on: 27 Mar 25 10:04 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510036PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.111	245195	240434	BB S	0.016	47.9929
2	0.170	2067	1982	BB T	0.017	0.4046
3	0.300	8399	2787	BV T	0.047	1.6439
4	1.114	244996	238499	BB S	0.016	47.9539
5	1.173	2114	1807	BV T	0.019	0.4139
6	1.303	8128	2783	PV T	0.046	1.5909

Total area = 510898

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **37**

Client ID T-301

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 37

File Name: 2510037A
Description: T-301
Can/Tube#: 638
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 7:58
Date Analyzed: 03/24/25 **Time:** 18:27
Can Dilution Factor: 1.19

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.29	356	1,069	2,856	
7782-44-7	Oxygen	0.059	0.177	12.89	594	1,782	128,909	
630-08-0	Carbon Monoxide	0.012	0.036	ND	119	356	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.04	119	356	421	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510037A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**37**		SF:	**2**	
Description:	**T-301**		Not Detected Flag:	**ND**	
Date Sampled:	**03/21/25**	Time: **7:58**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **18:27**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**638**				
Can Factor	**1.19**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**3777**
7782-44-7	Oxygen	02	2.27	**25014**
7727-37-9	Nitrogen	03	2.34	**172887**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**179**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510037A		Detect Flag:	ND	**Laboratory Number: 37**
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.19				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.19		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.29	0.29	0.29	2,856	0.29	0.29	300	0.036	0.107	0.036	0.108	356	1,069	
Oxygen	32.00	12.89	12.89	12.89	128,909	12.89	12.89	500	0.059	0.178	0.059	0.177	594	1,782	
Nitrogen	28.01	86.78	86.78	86.78	867,814	86.78	86.78	1000	0.119	0.356	0.119	0.357	1,188	3,564	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.036	0.012	0.036	119	356	U
Carbon Dioxide	44.01	0.04	0.04	0.04	421	0.04	0.04	100	0.012	0.036	0.012	0.036	119	356	
Sum - N2		13.22	100.00												
Sum		100.0													
Total Nitrogen		82.46													

EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 37

Client: C.E. Schmidt
Client ID: T-301
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 638
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 7:58
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	738		
Final:	879		
Factor:	1.19		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

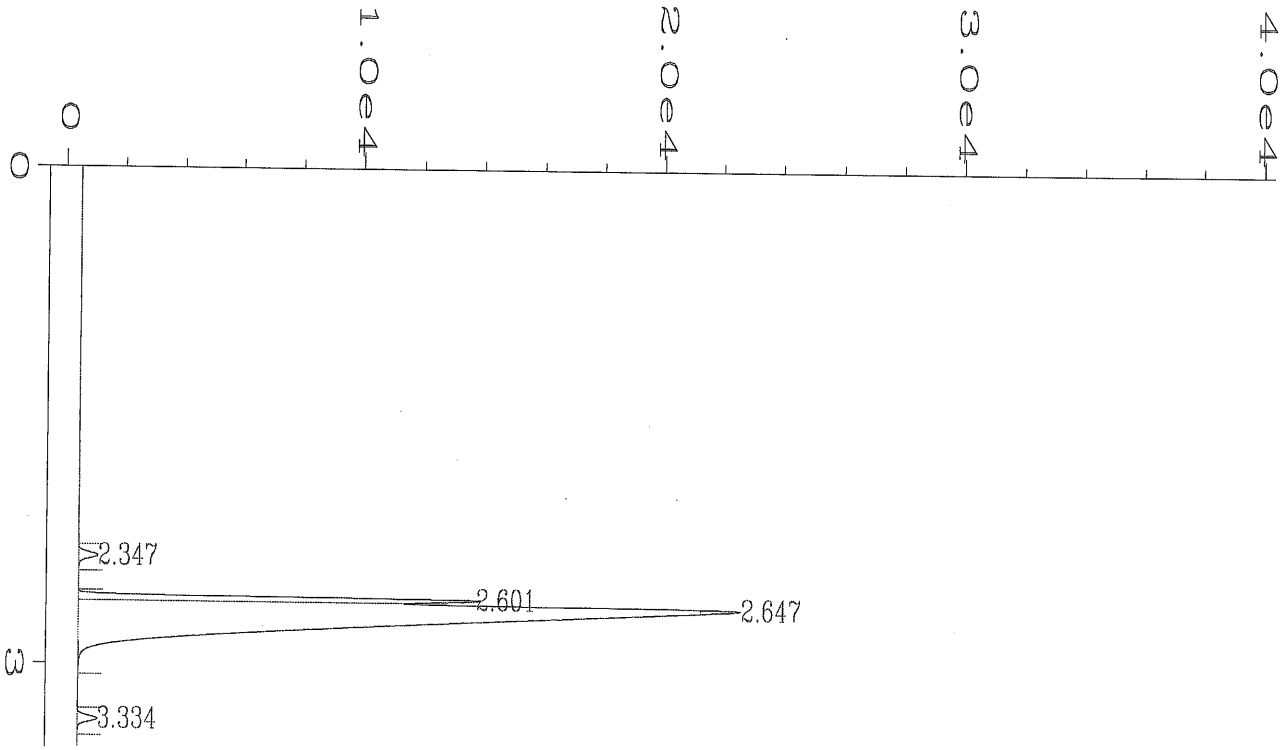
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



Area Percent Report

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510038MA.D
Operator : LR
Instrument : GCL
Sample Name : T-30
Run Time Bar Code:
Acquired on : 24 Mar 25 06:27 PM
Report Created on: 27 Mar 25 10:08 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

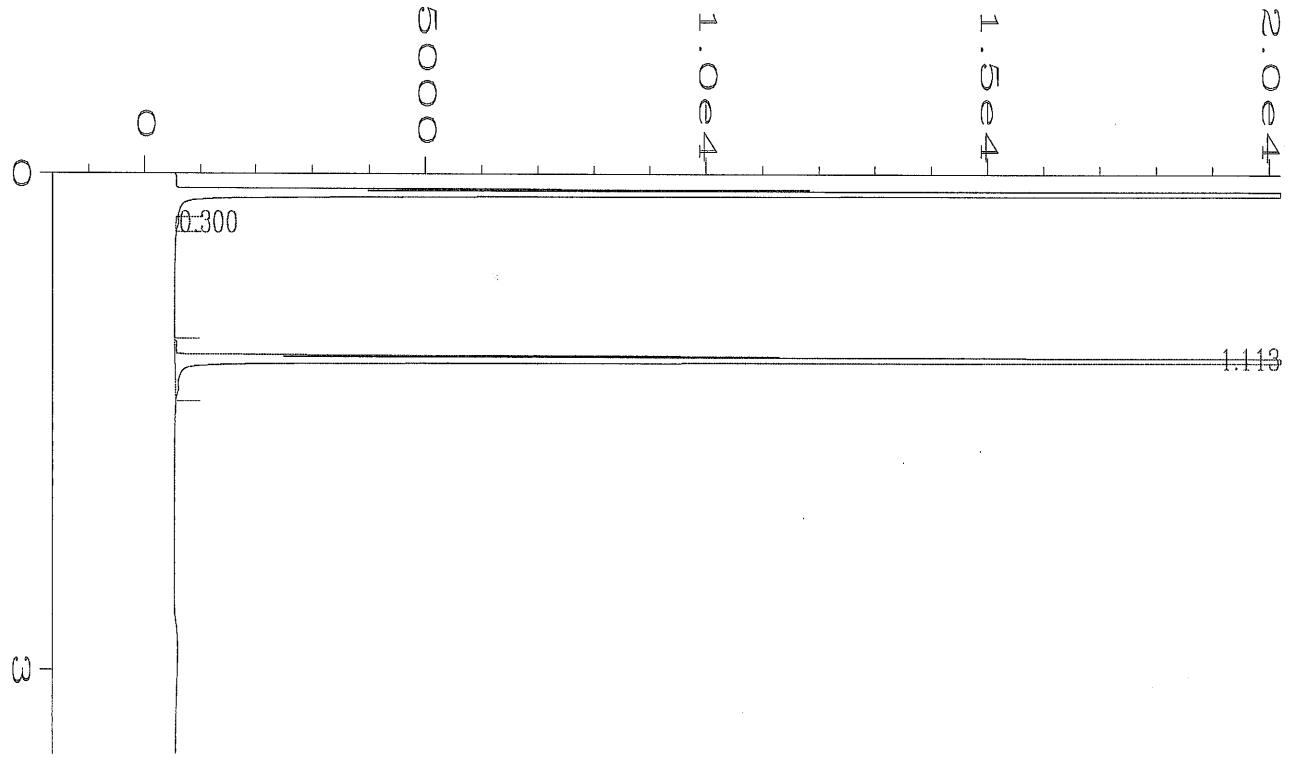
Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510038MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.347	1702	649	BB	0.041	0.8454
2	2.601	25014	13449	BV	0.029	12.4254
3	2.647	172887	22131	VB	0.104	85.8786
4	3.334	1712	661	BB	0.040	0.8506

Total area = 201316

CORRECTED SAMPLE LABELLING ERROR

-QA 3/27/25



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510038PA.D
Operator : LR
Instrument : GCL
Sample Name : T-30
Run Time Bar Code:
Acquired on : 24 Mar 25 06:27 PM
Report Created on: 27 Mar 25 12:28 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\510038PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.300	179	54	MM	0.055	0.0730
2	1.113	244748	226908	BB S	0.038	99.9270

Total area = 244927

User Modified

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3/27/25

Sample Data Packages

SDG Number **225100**

Lab Id Number **38**

Client ID T-302

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 38

File Name: 2510038A
Description: T-302
Can/Tube#: 857
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 8:04
Date Analyzed: 03/24/25 **Time:** 18:17
Can Dilution Factor: 1.19

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.18	357	1,072	1,782	
7782-44-7	Oxygen	0.060	0.180	12.92	596	1,787	129,157	
630-08-0	Carbon Monoxide	0.012	0.036	ND	119	357	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.05	119	357	489	

QUANTITATION REPORT
ASTM D1945 GC/TCD

File Name:	**2510038A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**38**		SF:	**2**	
Description:	**T-302**		Not Detected Flag:	**ND**	
Date Sampled:	**03/21/25**	Time: **8:04**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **18:17**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**857**				
Can Factor	**1.19**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**2351**
7782-44-7	Oxygen	02	2.27	**24998**
7727-37-9	Nitrogen	03	2.34	**174637**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**207**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510038A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.19				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.19		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Laboratory Number: 38

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.18	0.18	0.18	1,782	0.18	0.18	300	0.036	0.107	0.036	0.108	357	1,072	
Oxygen	32.00	12.92	12.92	12.92	129,157	12.92	12.92	500	0.060	0.179	0.060	0.180	596	1,787	
Nitrogen	28.01	86.86	86.86	86.86	868,573	86.86	86.86	1000	0.119	0.357	0.119	0.357	1,191	3,573	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.036	0.012	0.036	119	357	U
Carbon Dioxide	44.01	0.05	0.05	0.05	489	0.05	0.05	100	0.012	0.036	0.012	0.036	119	357	
Sum - N2		13.14	100.00												
Sum		100.0													
Total Nitrogen		83.51													

EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 38

Client: C.E. Schmidt
Client ID: T-302
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 857
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 8:04
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	734		
Final:	872		
Factor:	1.19		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

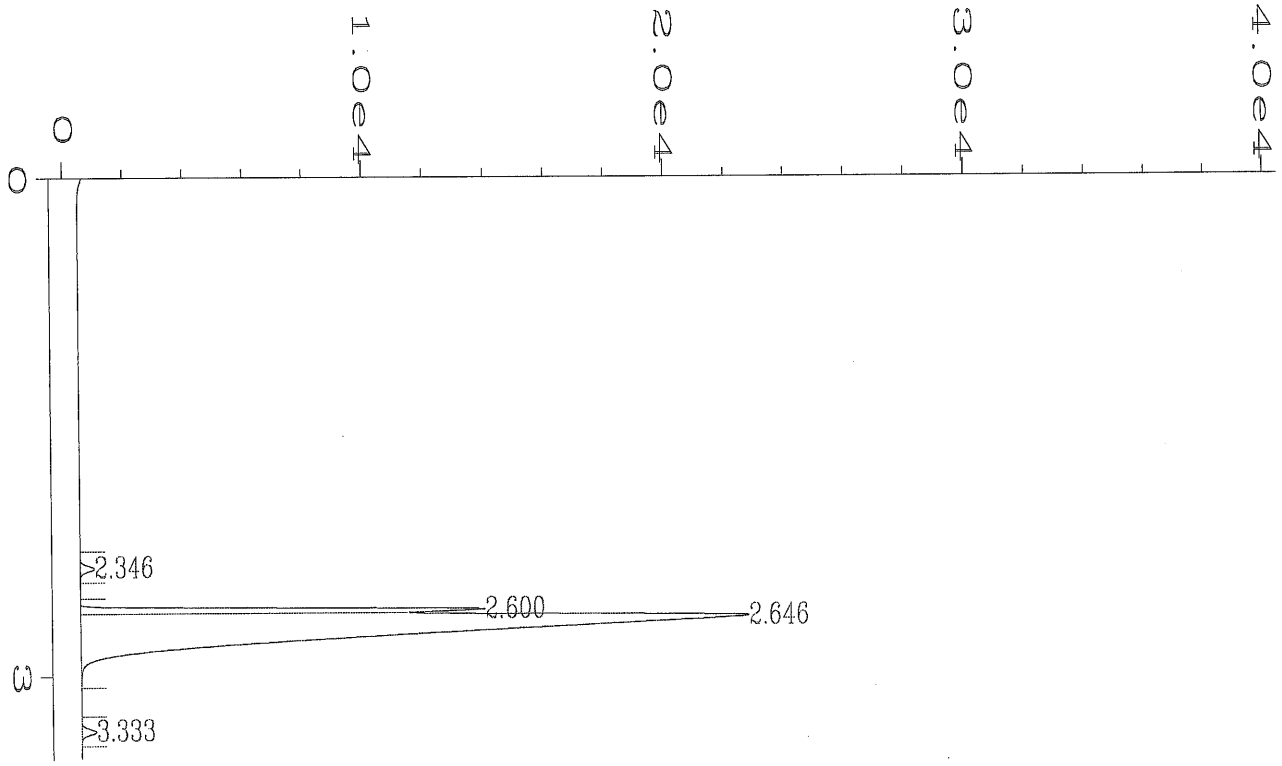
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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38

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\51003~~7~~MA.D
Operator : LR
Instrument : GCL~~2~~
Sample Name : T-30~~1~~
Run Time Bar Code:
Acquired on : 24 Mar 25 06:17 PM
Report Created on: 27 Mar 25 10:04 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

38

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\51003~~7~~MA.D

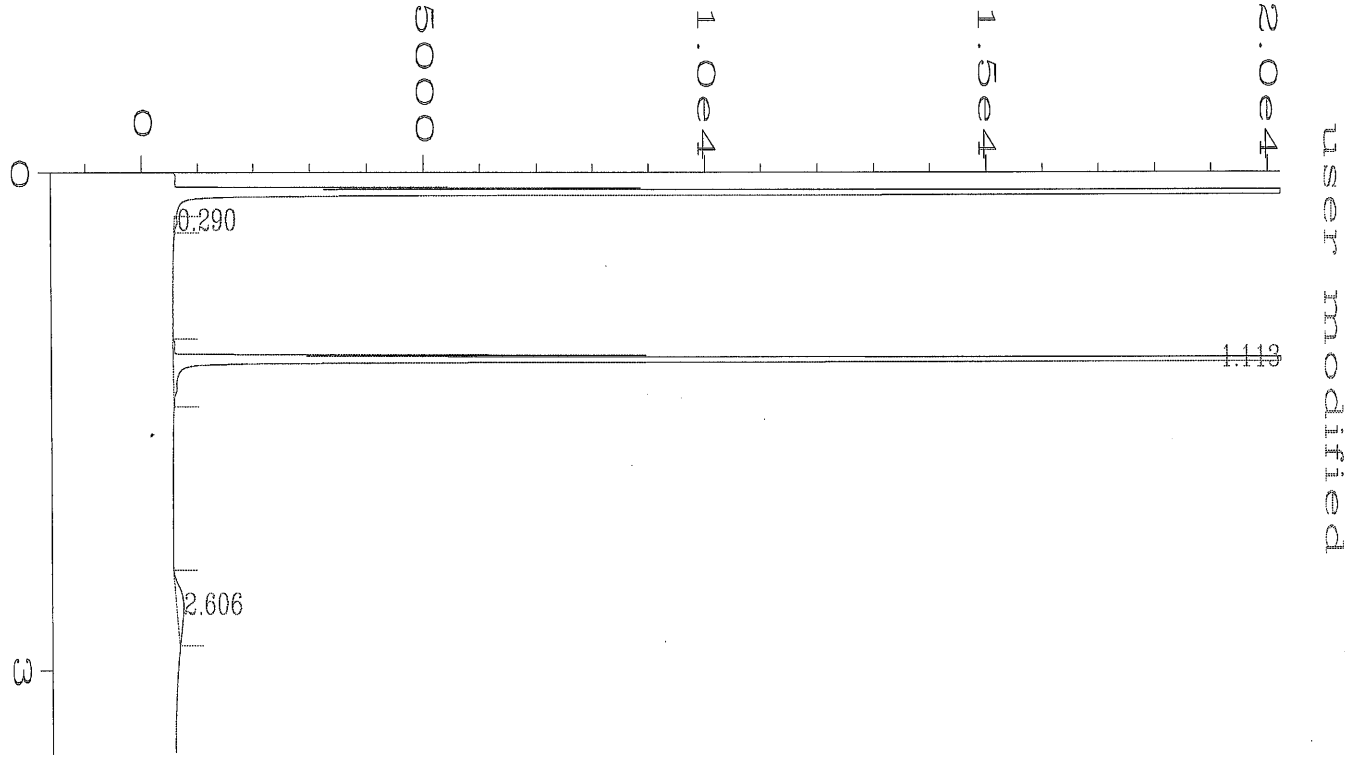
Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.346	1218	468	BB	0.040	0.6025
2	2.600	24998	13500	BV	0.029	12.3696
3	2.646	174637	22294	VB	0.105	86.4141
4	3.333	1240	482	BB	0.040	0.6138

Total area = 202094

==========

CORRECTED SAMPLE LABELLING ERROR

-RA 3/27/25



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510037PA.D
Operator : LR
Instrument : GCL
Sample Name : T-301
Run Time Bar Code:
Acquired on : 24 Mar 25 06:17 PM
Report Created on: 27 Mar 25 12:22 PM
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510037PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.290	207	54	MM	0.064	0.0812
2	1.113	252988	237821	BB S	0.043	99.1468
3	2.606	1970	127	BB	0.224	0.7720

Total area = 255165

User Modified

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3/27/25

Sample Data Packages

SDG Number 225100

Lab Id Number 39

Client ID T-303

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 39

File Name: 2510039A
Description: T-303
Can/Tube#: 552
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 8:05
Date Analyzed: 03/24/25 **Time:** 19:08
Can Dilution Factor: 1.21

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.16	362	1,086	1,588	
7782-44-7	Oxygen	0.060	0.180	12.87	603	1,809	128,735	
630-08-0	Carbon Monoxide	0.012	0.036	ND	121	362	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.07	121	362	696	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510039A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**39**		SF:	**2**	
Description:	**T-303**		Not Detected Flag:	**ND**	
Date Sampled:	**03/21/25**	Time: **8:05**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **19:08**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**552**				
Can Factor	**1.21**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**2068**
7782-44-7	Oxygen	02	2.27	**24601**
7727-37-9	Nitrogen	03	2.34	**176852**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**291**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100
Laboratory Number: 39

File Name:	2510039A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.21				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.21		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.16	0.16	0.16	1,588	0.16	0.16	300	0.036	0.109	0.036	0.108	362	1,086	
Oxygen	32.00	12.87	12.87	12.87	128,735	12.87	12.87	500	0.060	0.181	0.060	0.180	603	1,809	
Nitrogen	28.01	86.90	86.90	86.90	868,981	86.90	86.90	1000	0.121	0.362	0.121	0.363	1,206	3,619	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.036	0.012	0.036	121	362	U
Carbon Dioxide	44.01	0.07	0.07	0.07	696	0.07	0.07	100	0.012	0.036	0.012	0.036	121	362	
Sum - N2		13.10	100.00												
Sum		100.0													
Total Nitrogen		85.65													

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EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 39

Client: C.E. Schmidt
Client ID: T-303
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 552
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 8:05
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	727		
Final:	877		
Factor:	1.21		

LABORATORY

Analytical Test:

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions

Sample Type:

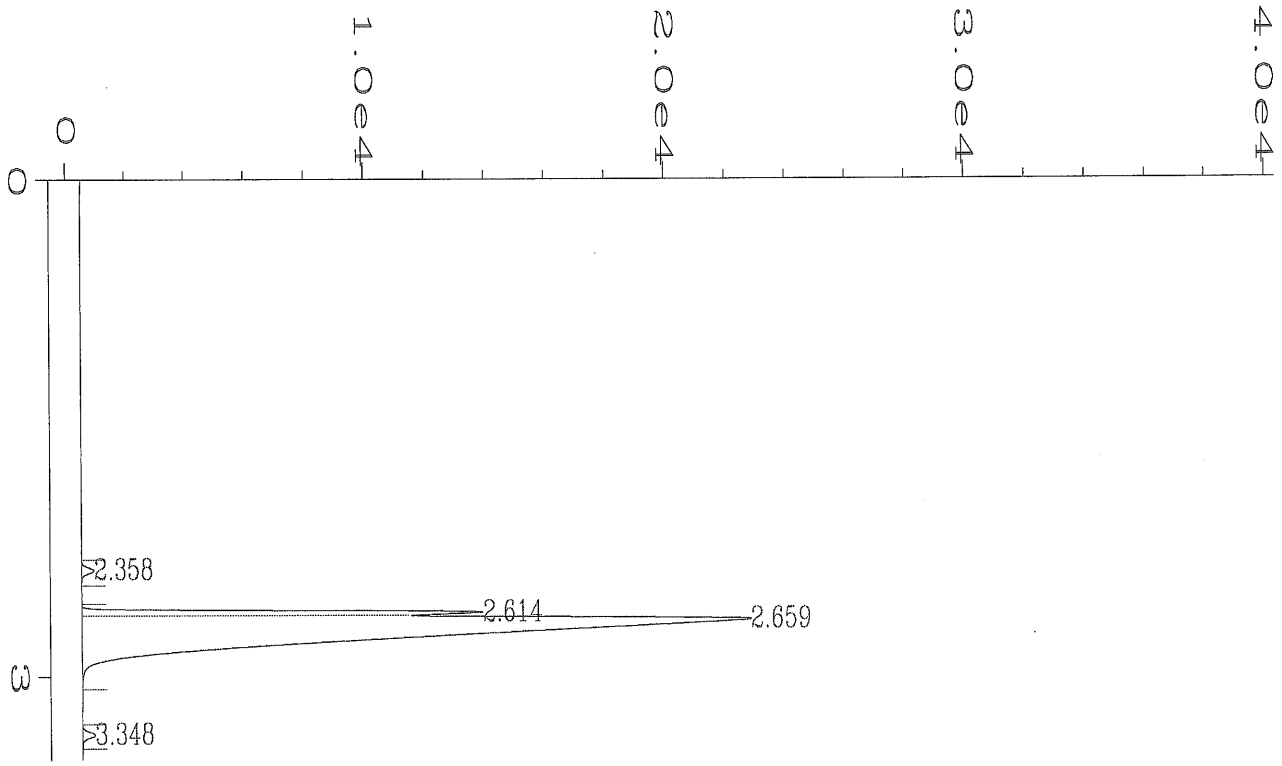
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510040MA.D
Operator : LR
Instrument : GCL
Sample Name : T-303
Run Time Bar Code:
Acquired on : 24 Mar 25 07:08 PM
Report Created on: 27 Mar 25 10:10 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

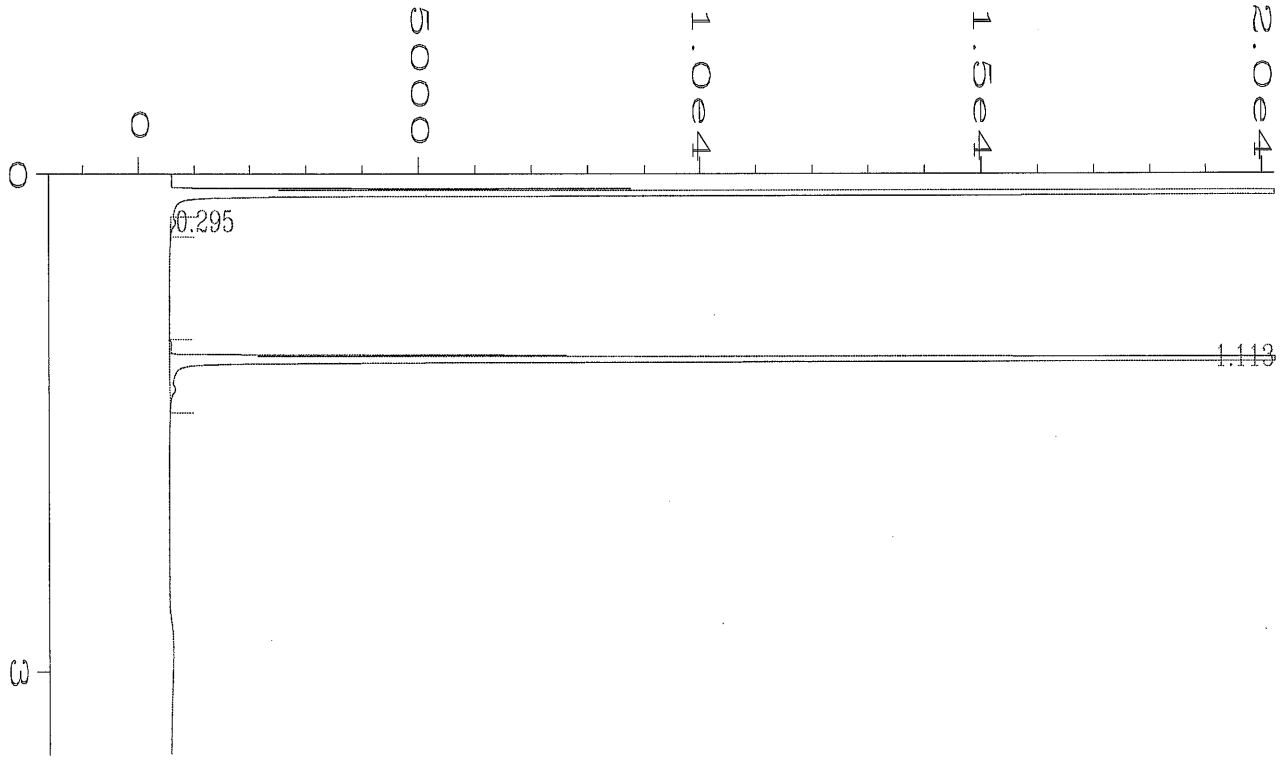
Sig. 1 in C:\GCCHEM\1\DATA\GCO\510040MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.358	1126	427	BB	0.041	0.5529
2	2.614	24601	13409	BV	0.028	12.0771
3	2.659	176852	22331	VB	0.106	86.8195
4	3.348	1121	433	BB	0.040	0.5506

Total area = 203701

==========

CORRECTED SAMPLE LABELLING ERROR
3/27/25



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\51004QPA.D
Operator : LR
Instrument : GCL
Sample Name : T-303
Run Time Bar Code:
Acquired on : 24 Mar 25 07:08 PM
Report Created on: 27 Mar 25 10:10 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\51004QPA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.295	291	87	MM	0.056	0.1175
2	1.113	247508	231793	BB S	0.039	99.8825

Total area = 247799

User Modified

==========

3/27/25

Sample Data Packages

SDG Number **225100**

Lab Id Number **40**

Client ID T-304

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 40

File Name: 2510040A
Description: T-304
Can/Tube#: 529
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 7:58
Date Analyzed: 03/24/25 **Time:** 19:03
Can Dilution Factor: 1.20

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.23	360	1,081	2,331	
7782-44-7	Oxygen	0.060	0.180	12.88	601	1,802	128,844	
630-08-0	Carbon Monoxide	0.012	0.036	ND	120	360	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.18	120	360	1,778	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510040A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**40**		SF:	**2**	
Description:	**T-304**		Not Detected Flag:	**ND**	
Date Sampled:	**03/21/25**	Time: **7:58**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **19:03**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**529**				
Can Factor	**1.20**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**3049**
7782-44-7	Oxygen	02	2.27	**24729**
7727-37-9	Nitrogen	03	2.34	**174776**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**747**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

Laboratory Number: 40

File Name:	2510040A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.20				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.20		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.23	0.23	0.23	2,331	0.23	0.23	300	0.036	0.108	0.036	0.108	360	1,081	
Oxygen	32.00	12.88	12.88	12.88	128,844	12.88	12.88	500	0.060	0.180	0.060	0.180	601	1,802	
Nitrogen	28.01	86.70	86.70	86.70	867,047	86.70	86.70	1000	0.120	0.360	0.120	0.360	1,201	3,603	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.036	0.012	0.036	120	360	U
Carbon Dioxide	44.01	0.18	0.18	0.18	1,778	0.18	0.18	100	0.012	0.036	0.012	0.036	120	360	
Sum - N2		13.30	100.00												
Sum		100.0													
Total Nitrogen		84.28													

EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 40

Client: C.E. Schmidt
Client ID: T-304
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 529
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 7:58
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	731		
Final:	878		
Factor:	1.20		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

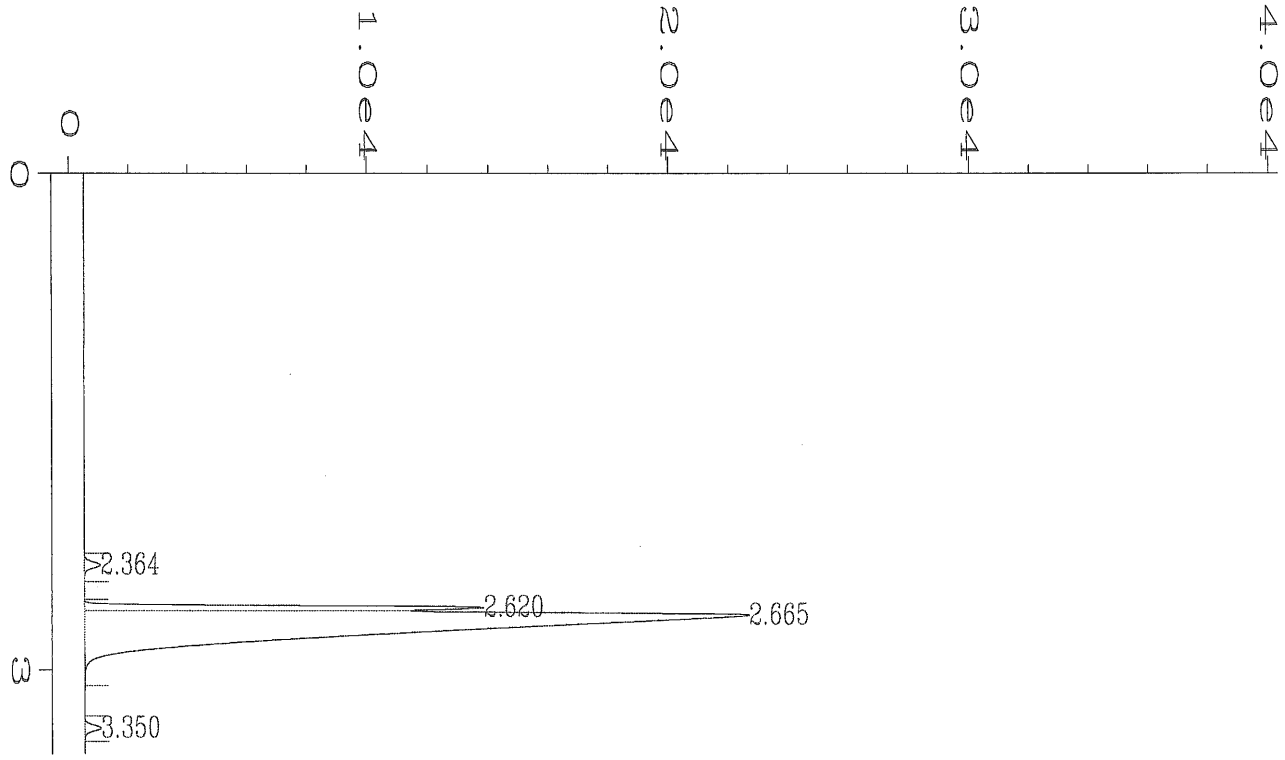
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510039MA.D
Operator : LR
Instrument : GCL
Sample Name : T-304
Run Time Bar Code:
Acquired on : 24 Mar 25 07:03 PM
Report Created on: 27 Mar 25 10:09 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510039MA.D

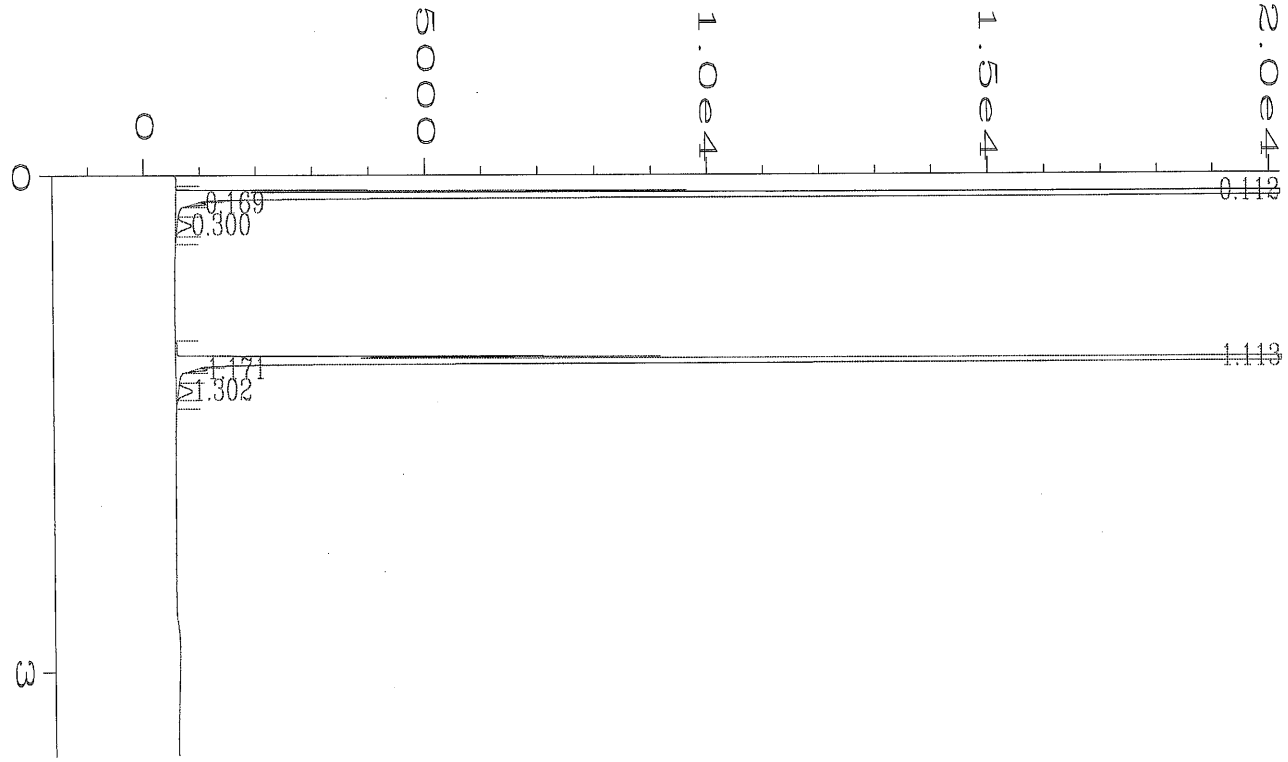
Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.364	1426	538	BB	0.041	0.7046
2	2.620	24729	13316	BV	0.029	12.2210
3	2.665	174776	22194	VB	0.106	86.3727
4	3.350	1420	546	BB	0.040	0.7018

Total area = 202351

==========

CORRECTED SAMPLE LABELLING ERROR

RJ 3/27/25



Area Percent Report

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510033PA.D
Operator : LR
Instrument : GCL
Sample Name : T-304
Run Time Bar Code:
Acquired on : 24 Mar 25 07:03 PM
Report Created on: 27 Mar 25 10:09 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510033PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.112	245756	259255	BB S	0.015	49.1379
2	0.169	189	246	BB T	0.013	0.0378
3	0.300	747	255	BB T	0.046	0.1493
4	1.113	252500	242077	BB S	0.030	50.4863
5	1.171	203	254	BB T	0.013	0.0405
6	1.302	741	254	BB T	0.045	0.1482

Total area = 500136

CORRECTED SAMPLE LABELLING ERROR
RA 3/27/25

Sample Data Packages

SDG Number **225100**

Lab Id Number **41**

Client ID T-305

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 41

File Name: 2510041A
Description: T-305
Can/Tube#: 660
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 9:22
Date Analyzed: 03/24/25 **Time:** 19:30
Can Dilution Factor: 1.23

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.12	369	1,106	1,233	
7782-44-7	Oxygen	0.061	0.183	12.66	614	1,843	126,645	
630-08-0	Carbon Monoxide	0.012	0.036	ND	123	369	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.33	123	369	3,256	

QUANTITATION REPORT
ASTM D1945 GC/TCD

File Name:	**2510041A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**41**		SF:	**2**	
Description:	**T-305**		Not Detected Flag:	**ND**	
Date Sampled:	**03/21/25**	Time: **9:22**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **19:30**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**660**				
Can Factor	**1.23**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**1577**
7782-44-7	Oxygen	02	2.27	**23765**
7727-37-9	Nitrogen	03	2.34	**178085**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**1337**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510041A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.23				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.23		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Laboratory Number: 41

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.12	0.12	0.12	1,233	0.12	0.12	300	0.037	0.111	0.037	0.111	369	1,106	
Oxygen	32.00	12.66	12.66	12.66	126,645	12.66	12.66	500	0.061	0.184	0.061	0.183	614	1,843	
Nitrogen	28.01	86.89	86.89	86.89	868,866	86.89	86.89	1000	0.123	0.369	0.123	0.369	1,228	3,685	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.037	0.012	0.036	123	369	U
Carbon Dioxide	44.01	0.33	0.33	0.33	3,256	0.33	0.33	100	0.012	0.037	0.012	0.036	123	369	
Sum - N2		13.11	100.00												
Sum		100.0													
Total Nitrogen		87.83													

EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 41

Client: C.E. Schmidt
Client ID: T-305
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 660
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:22
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	709		
Final:	871		
Factor:	1.23		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

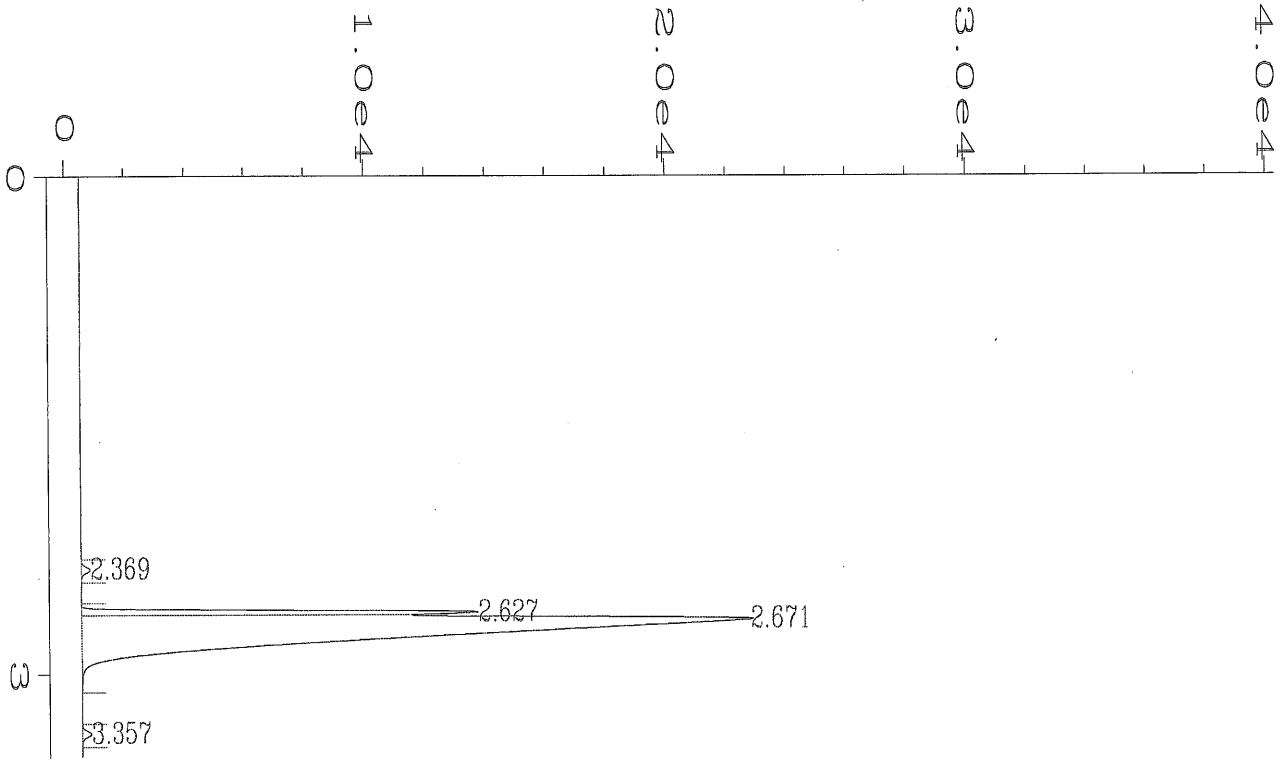
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510041MA.D
Operator : LR
Instrument : GCL
Sample Name : T-305
Run Time Bar Code:
Acquired on : 24 Mar 25 07:30 PM
Report Created on: 27 Mar 25 10:11 AM

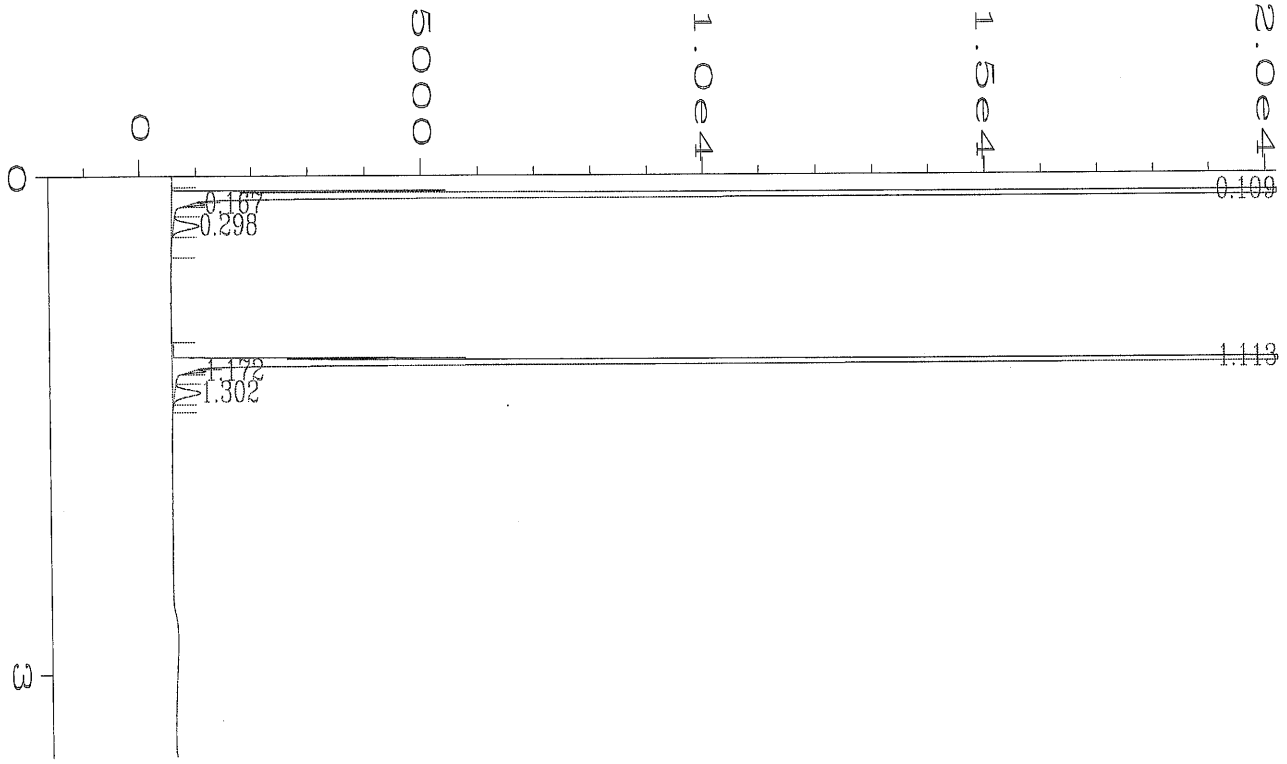
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510041MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.369	836	316	BB	0.041	0.4107
2	2.627	23765	13237	BV	0.028	11.6767
3	2.671	178085	22406	VB	0.109	87.5013
4	3.357	837	321	BB	0.040	0.4113

Total area = 203523

==========



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510041PA.D
Operator : LR
Instrument : GCL
Sample Name : T-305
Run Time Bar Code:
Acquired on : 24 Mar 25 07:30 PM
Report Created on: 27 Mar 25 10:11 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510041PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.109	253116	236616	BB S	0.030	49.6887
2	0.167	277	282	BB T	0.014	0.0544
3	0.298	1337	454	BV T	0.046	0.2625
4	1.113	253085	245438	BB S	0.030	49.6827
5	1.172	237	290	BB T	0.014	0.0465
6	1.302	1351	467	BB T	0.046	0.2652

Total area = 509403

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **42**

Client ID T-306

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 42

File Name: 2510042A
Description: T-306
Can/Tube#: 859
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 9:13
Date Analyzed: 03/24/25 **Time:** 19:34
Can Dilution Factor: 1.21

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.18	363	1,089	1,797	
7782-44-7	Oxygen	0.061	0.183	12.84	605	1,816	128,375	
630-08-0	Carbon Monoxide	0.012	0.036	ND	121	363	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.11	121	363	1,070	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510042A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**42**		SF:	**2**	
Description:	**T-306**		Not Detected Flag:	**ND**	
Date Sampled:	**03/21/25**	Time: **9:13**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **19:34**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**859**				
Can Factor	**1.21**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**2333**
7782-44-7	Oxygen	02	2.27	**24447**
7727-37-9	Nitrogen	03	2.34	**175834**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**446**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

Laboratory Number: 42

File Name:	2510042A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.21				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.21		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.18	0.18	0.18	1,797	0.18	0.18	300	0.036	0.109	0.036	0.108	363	1,089	
Oxygen	32.00	12.84	12.84	12.84	128,375	12.84	12.84	500	0.061	0.182	0.061	0.183	605	1,816	
Nitrogen	28.01	86.88	86.88	86.88	868,758	86.88	86.88	1000	0.121	0.363	0.121	0.363	1,211	3,632	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.036	0.012	0.036	121	363	U
Carbon Dioxide	44.01	0.11	0.11	0.11	1,070	0.11	0.11	100	0.012	0.036	0.012	0.036	121	363	
Sum - N2		13.12	100.00												
Sum		100.0													
Total Nitrogen		85.45													

Z49483
9541

EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 | 42

Client: C.E. Schmidt
Client ID: T-306
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 859
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:13
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	722		
Final:	874		
Factor:	1.21		

LABORATORY **Analytical Test:**

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions

Sample Type:

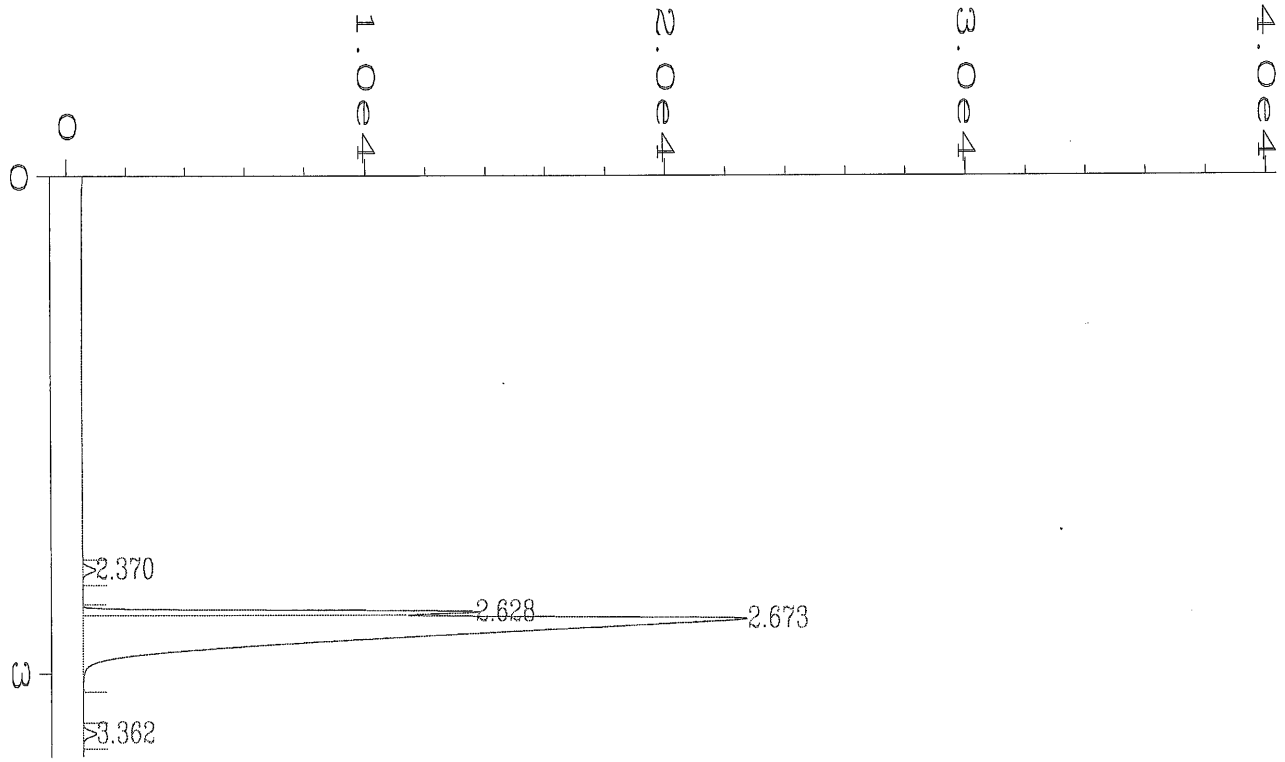
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510042MA.D
Operator : LR
Instrument : GCL
Sample Name : T-306
Run Time Bar Code:
Acquired on : 24 Mar 25 07:34 PM
Report Created on: 27 Mar 25 10:13 AM

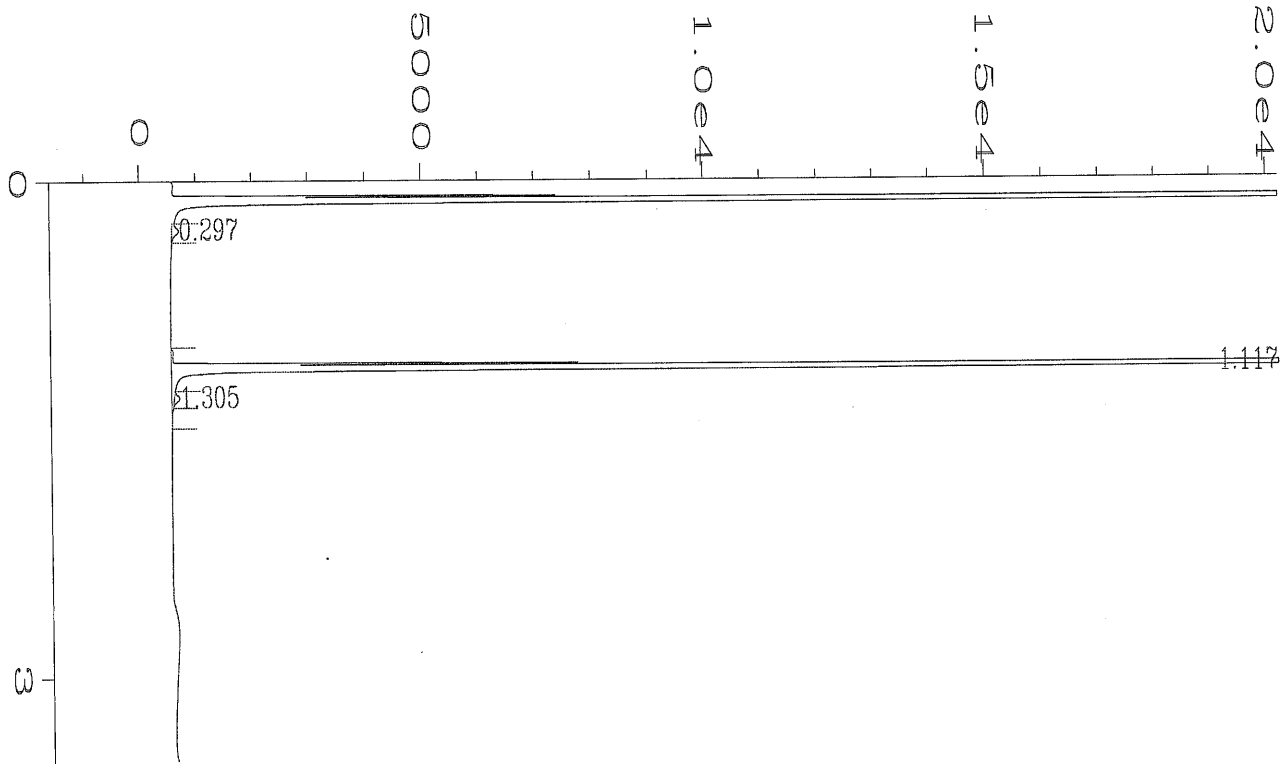
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510042MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.370	1141	431	BB	0.041	0.5631
2	2.628	24447	13288	BV	0.029	12.0685
3	2.673	175834	22180	VB	0.104	86.8010
4	3.362	1149	439	BB	0.041	0.5675

Total area = 202572

==========



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510042PA.D
Operator : LR
Instrument : GCL
Sample Name : T-306
Run Time Bar Code:
Acquired on : 24 Mar 25 07:34 PM
Report Created on: 27 Mar 25 10:13 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510042PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.297	446	127	MM	0.058	0.1774
2	1.117	250608	247148	BB S	0.040	99.7067
3	1.305	291	105	BV T	0.043	0.1159

Total area = 251345

User Modified

==========

Sample Data Packages

SDG Number 225100

Lab Id Number 43

Client ID T-307

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 43

File Name: 2510043A
Description: T-307
Can/Tube#: 636
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 9:10
Date Analyzed: 03/24/25 **Time:** 19:56
Can Dilution Factor: 1.22

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.13	366	1,098	1,257	
7782-44-7	Oxygen	0.061	0.183	12.88	610	1,829	128,781	
630-08-0	Carbon Monoxide	0.012	0.036	ND	122	366	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.09	122	366	904	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510043A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**43**		SF:	**2**	
Description:	**T-307**		Not Detected Flag:	**ND**	
Date Sampled:	**03/21/25**	Time: **9:10**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **19:56**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**636**				
Can Factor	**1.22**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**1620**
7782-44-7	Oxygen	02	2.27	**24345**
7727-37-9	Nitrogen	03	2.34	**176284**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**374**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510043A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.22				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.22		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Laboratory Number: 43

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.13	0.13	0.13	1,257	0.13	0.13	300	0.037	0.110	0.037	0.111	366	1,098	
Oxygen	32.00	12.88	12.88	12.88	128,781	12.88	12.88	500	0.061	0.183	0.061	0.183	610	1,829	
Nitrogen	28.01	86.91	86.91	86.91	869,058	86.91	86.91	1000	0.122	0.366	0.122	0.366	1,219	3,658	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.037	0.012	0.036	122	366	U
Carbon Dioxide	44.01	0.09	0.09	0.09	904	0.09	0.09	100	0.012	0.037	0.012	0.036	122	366	
Sum - N2		13.09	100.00												
Sum		100.0													
Total Nitrogen		86.30													

EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 43

Client: C.E. Schmidt
Client ID: T-307
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 636
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:10
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	720		
Final:	878		
Factor:	1.22		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:		Item Description:	Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

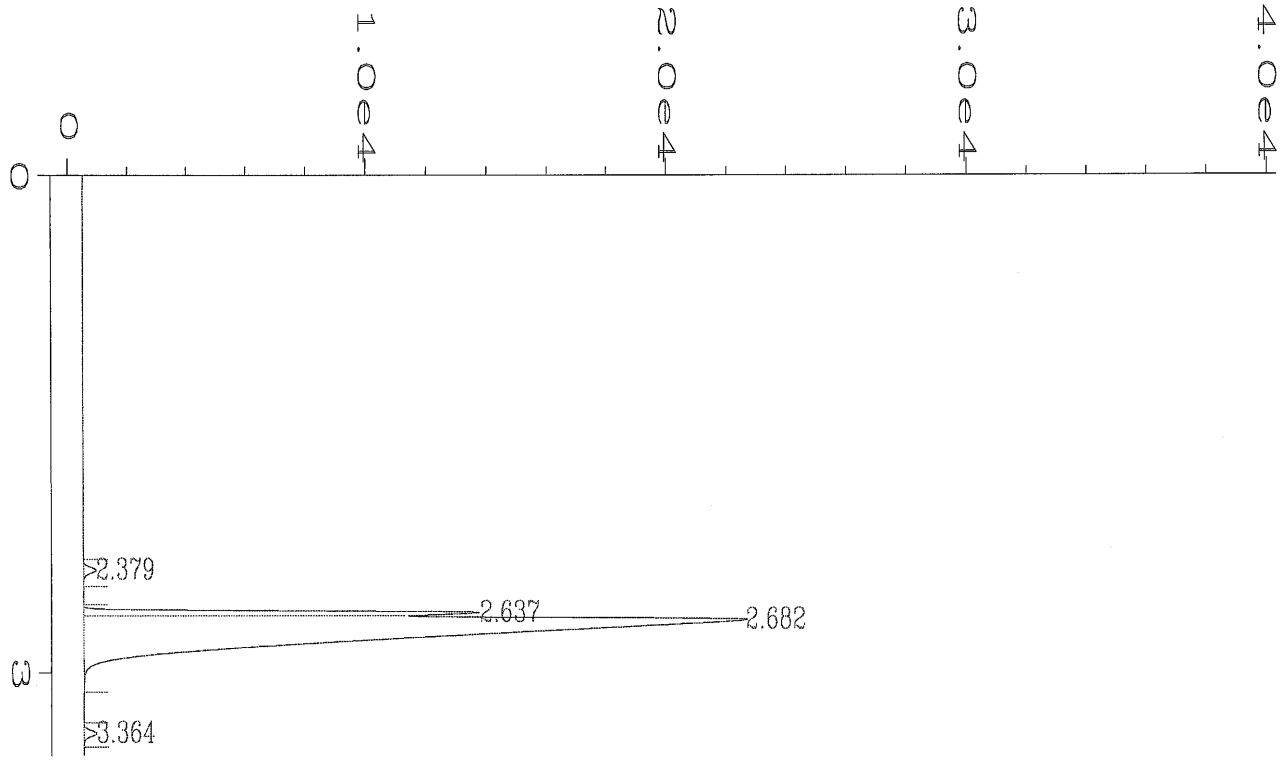
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510043MA.D
Operator : LR
Instrument : GCL
Sample Name : T-307
Run Time Bar Code:
Acquired on : 24 Mar 25 07:56 PM
Report Created on: 27 Mar 25 10:14 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510043MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.379	1096	412	BB	0.041	0.5406
2	2.637	24345	13216	BV	0.029	12.0031
3	2.682	176284	22111	VB	0.106	86.9151
4	3.364	1098	420	BB	0.041	0.5412

Total area = 202824

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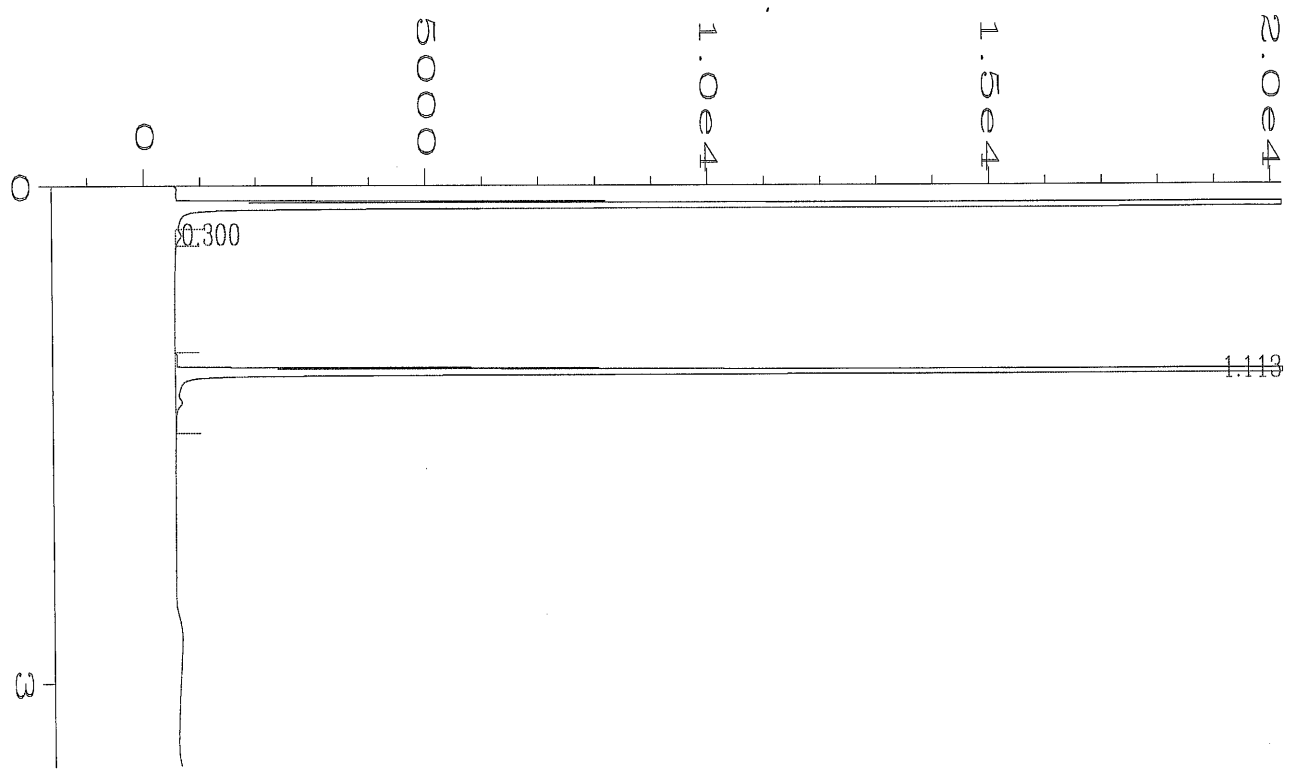

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510043PA.D
Operator : LR
Instrument : GCL
Sample Name : T-307
Run Time Bar Code:
Acquired on : 24 Mar 25 07:56 PM
Report Created on: 27 Mar 25 10:15 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510043PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.300	374	105	MM	0.059	0.1519
2	1.113	245961	234101	BB S	0.037	99.8481

Total area = 246335

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **44**

Client ID T-308

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 44

File Name: 2510044A
Description: T-308
Can/Tube#: 661
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 9:18
Date Analyzed: 03/24/25 **Time:** 20:05
Can Dilution Factor: 1.22

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.17	366	1,098	1,657	
7782-44-7	Oxygen	0.061	0.183	12.74	610	1,831	127,433	
630-08-0	Carbon Monoxide	0.012	0.036	ND	122	366	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.09	122	366	943	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510044A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**44**		SF:	**2**	
Description:	**T-308**		Not Detected Flag:	**ND**	
Date Sampled:	**03/21/25**	Time: **9:18**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **20:05**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**661**				
Can Factor	**1.22**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**2133**
7782-44-7	Oxygen	02	2.27	**24072**
7727-37-9	Nitrogen	03	2.34	**177405**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**390**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100
Laboratory Number: 44

File Name:	2510044A
QCBatch	032425-GCO
Can Factor	1.22
Air Volume:	0.50 ml
Base Volume	0.50 ml
Dilution Factor	1.22
Gas Constant:	24.4
Decimal Places:	2

Detect Flag: ND
Report Normalized: **No**

Temp	**25**	C
Atm P	**760.0**	torr
Gas Constant	24.4	
RL Factor	**3**	

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.17	0.17	0.17	1,657	0.17	0.17	300	0.037	0.110	0.037	0.111	366	1,098	
Oxygen	32.00	12.74	12.74	12.74	127,433	12.74	12.74	500	0.061	0.183	0.061	0.183	610	1,831	
Nitrogen	28.01	87.00	87.00	87.00	869,967	87.00	87.00	1000	0.122	0.366	0.122	0.366	1,220	3,661	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.037	0.012	0.036	122	366	U
Carbon Dioxide	44.01	0.09	0.09	0.09	943	0.09	0.09	100	0.012	0.037	0.012	0.036	122	366	
Sum - N2		13.00	100.00												
Sum		100.0													
Total Nitrogen		86.92													

EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 | 44

Client: C.E. Schmidt
Client ID: T-308
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 661
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:18
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	717		
Final:	875		
Factor:	1.22		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

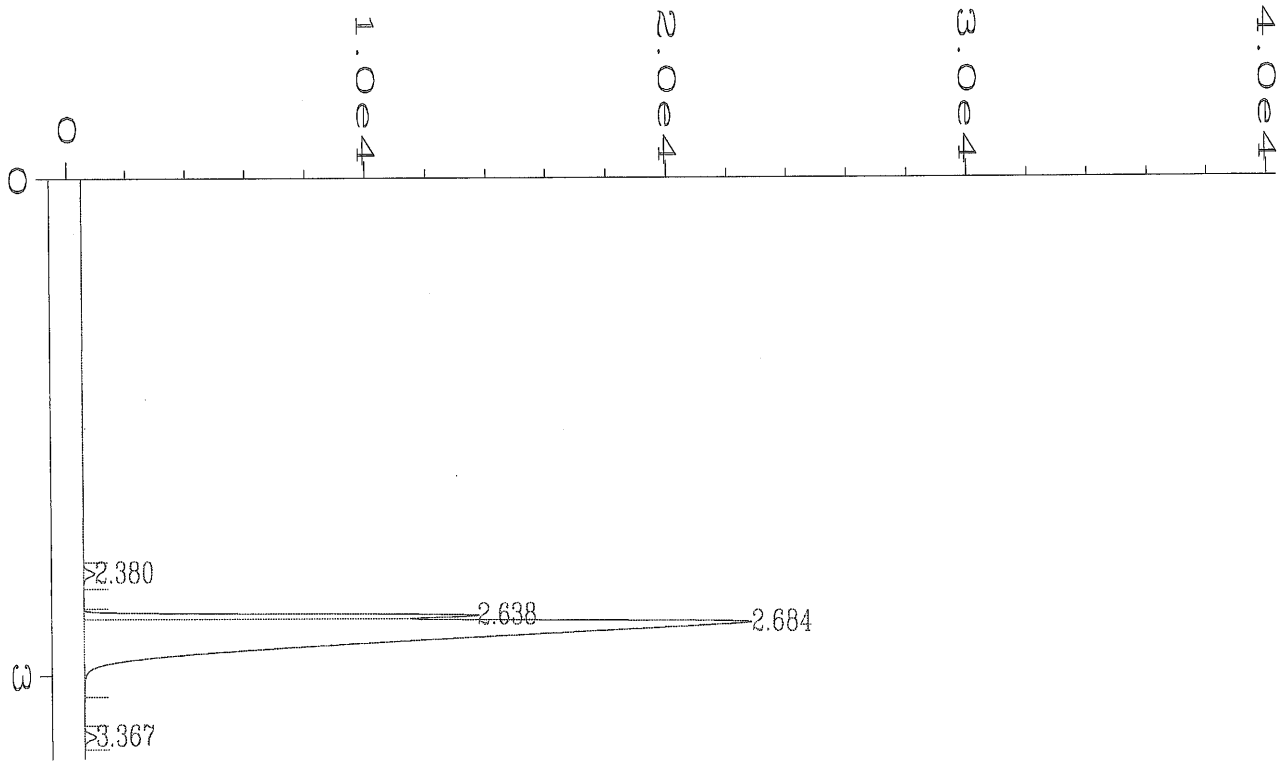
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510044MA.D
Operator : LR
Instrument : GCL
Sample Name : T-308
Run Time Bar Code:
Acquired on : 24 Mar 25 08:05 PM
Report Created on: 27 Mar 25 10:16 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510044MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.380	983	369	BB	0.041	0.4833
2	2.638	24072	13167	BV	0.028	11.8325
3	2.684	177405	22256	VB	0.110	87.2019
4	3.367	981	374	BB	0.041	0.4823

Total area = 203441

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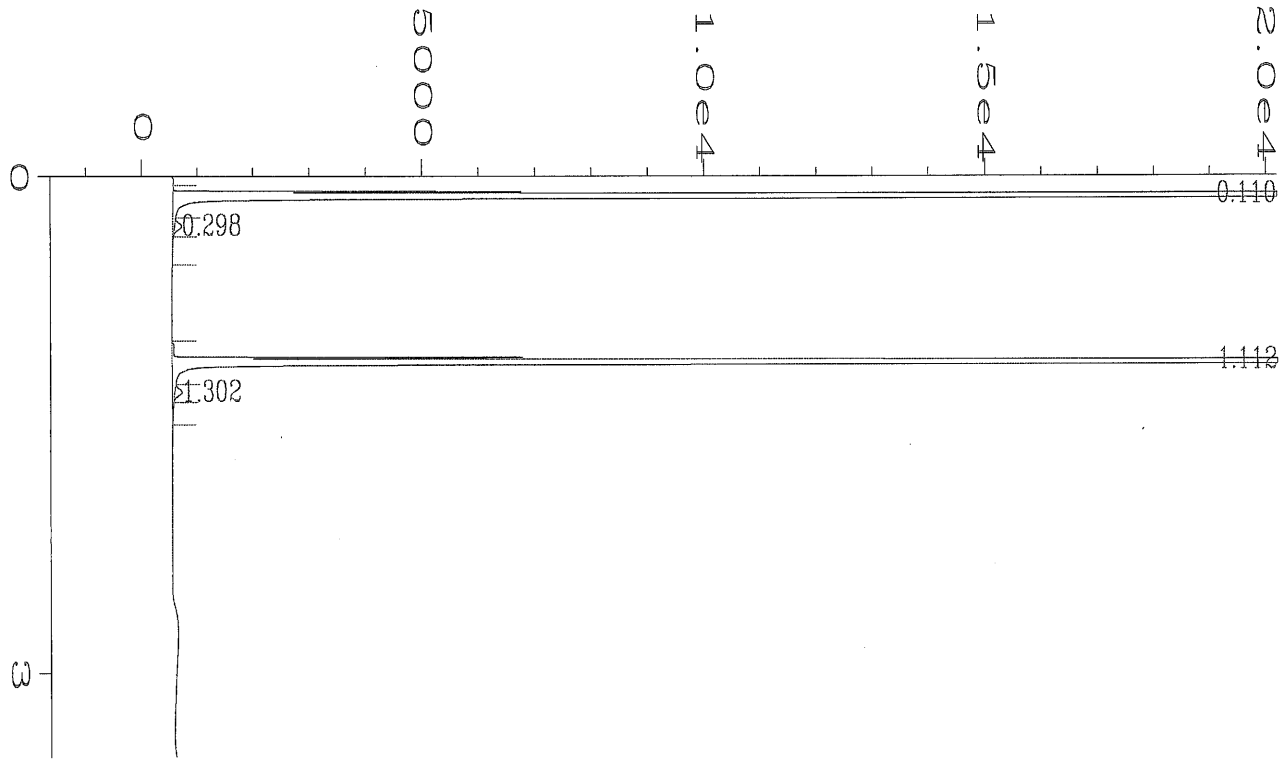

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510044PA.D
Operator : LR
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-308
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 08:05 PM
Instrument Method: ASTM1946.MTH
Report Created on: 27 Mar 25 10:16 AM
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510044PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.110	247608	241123	BB S	0.031	49.3051
2	0.298	390	134	BV T	0.045	0.0776
3	1.112	253815	235469	BB S	0.032	50.5410
4	1.302	383	139	BV T	0.043	0.0762

Total area = 502195

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **45**

Client ID T-309

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 45

File Name: 2510045A
Description: T-309
Can/Tube#: 579
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 9:24
Date Analyzed: 03/24/25 **Time:** 20:17
Can Dilution Factor: 1.21

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.036	0.108	0.10	362	1,087	988	J
7782-44-7	Oxygen	0.060	0.180	12.98	604	1,812	129,803	
630-08-0	Carbon Monoxide	0.012	0.036	ND	121	362	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.07	121	362	725	

QUANTITATION REPORT
ASTM D1945 GC/TCD

File Name:	**2510045A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**45**		SF:	**2**	
Description:	**T-309**		Not Detected Flag:	**ND**	
Date Sampled:	**03/21/25**	Time: **9:24**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **20:17**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**579**				
Can Factor	**1.21**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**1285**
7782-44-7	Oxygen	02	2.27	**24771**
7727-37-9	Nitrogen	03	2.34	**177614**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**303**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100
Laboratory Number: 45

File Name:	2510045A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.21				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.21		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.10	0.10	0.10	988	0.10	0.10	300	0.036	0.109	0.036	0.108	362	1,087	J
Oxygen	32.00	12.98	12.98	12.98	129,803	12.98	12.98	500	0.060	0.181	0.060	0.180	604	1,812	
Nitrogen	28.01	86.85	86.85	86.85	868,483	86.85	86.85	1000	0.121	0.362	0.121	0.363	1,208	3,624	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.036	0.012	0.036	121	362	U
Carbon Dioxide	44.01	0.07	0.07	0.07	725	0.07	0.07	100	0.012	0.036	0.012	0.036	121	362	
Sum - N2		13.15	100.00												
Sum		100.0													
Total Nitrogen		86.14													

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004289 of 004929

EPA Qual	Det Qual	Rpt
	ND	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 | 45

Client: C.E. Schmidt
Client ID: T-309
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 579
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:24
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	726		
Final:	877		
Factor:	1.21		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

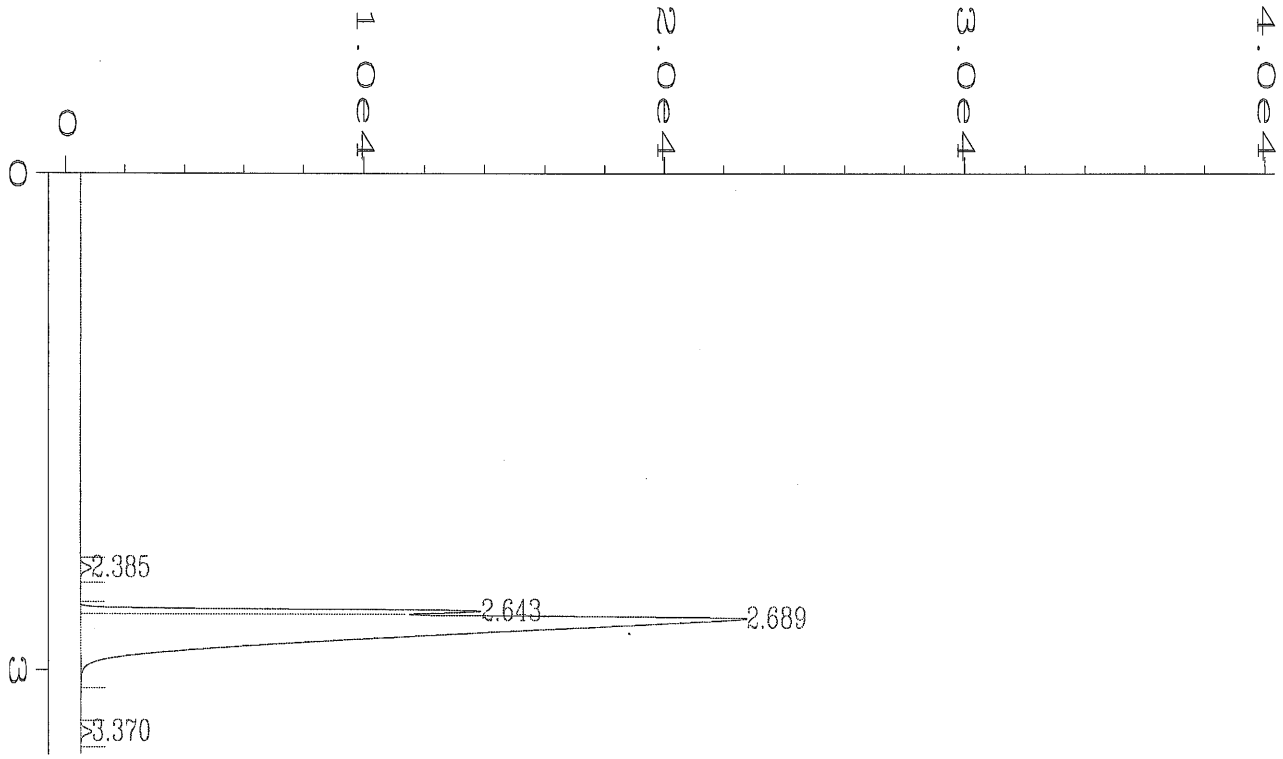
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

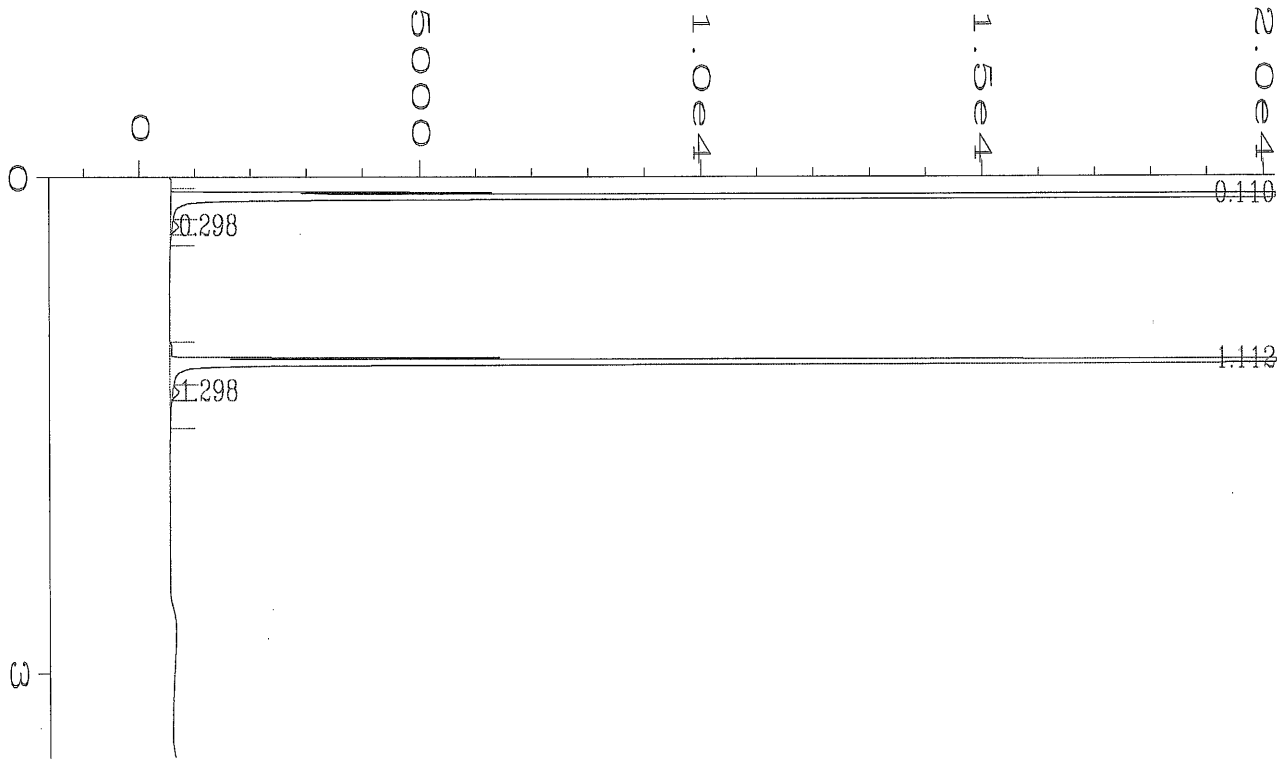
Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510045MA.D
Operator : LR
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-309
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 08:17 PM
Instrument Method: ASTM1946.MTH
Report Created on: 27 Mar 25 10:17 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510045MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.385	927	349	BB	0.041	0.4537
2	2.643	24771	13350	BV	0.029	12.1277
3	2.689	177614	22215	VB	0.107	86.9590
4	3.370	939	353	BB	0.041	0.4596

Total area = 204250

==========



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510045PA.D
Operator : LR
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-309
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 08:17 PM
Instrument Method: ASTM1946.MTH
Report Created on: 27 Mar 25 10:18 AM
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510045PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.110	253766	246109	BB S	0.033	50.4118
2	0.298	303	112	BB T	0.043	0.0603
3	1.112	249013	230445	BB S	0.033	49.4676
4	1.298	303	112	BV T	0.043	0.0603

Total area = 503385

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **46**

Client ID T-310

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 46

File Name: 2510046A
Description: T-310
Can/Tube#: 771
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 10:48
Date Analyzed: 03/24/25 **Time:** 20:28
Can Dilution Factor: 1.29

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.039	0.117	0.45	386	1,158	4,484	
7782-44-7	Oxygen	0.064	0.192	12.78	644	1,931	127,788	
630-08-0	Carbon Monoxide	0.013	0.039	ND	129	386	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.03	129	386	347	J

QUANTITATION REPORT
ASTM D1945 GC/TCD

File Name:	**2510046A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**46**		SF:	**2**	
Description:	**T-310**		Not Detected Flag:	**ND**	
Date Sampled:	**03/21/25**	Time: **10:48**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **20:28**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**771**				
Can Factor	**1.29**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**5474**
7782-44-7	Oxygen	02	2.27	**22886**
7727-37-9	Nitrogen	03	2.34	**170752**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**136**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

Laboratory Number: 46

File Name:	2510046A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.29				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.29		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.45	0.45	0.45	4,484	0.45	0.45	300	0.039	0.116	0.039	0.117	386	1,158	
Oxygen	32.00	12.78	12.78	12.78	127,788	12.78	12.78	500	0.064	0.193	0.064	0.192	644	1,931	
Nitrogen	28.01	86.74	86.74	86.74	867,381	86.74	86.74	1000	0.129	0.386	0.129	0.387	1,287	3,862	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.039	0.013	0.039	129	386	U
Carbon Dioxide	44.01	0.03	0.03	0.03	347	0.03	0.03	100	0.013	0.039	0.013	0.039	129	386	J
Sum - N2		13.26	100.00												
Sum		100.0													
Total Nitrogen		88.24													

EPA Qual	Det Qual	Rpt
	=	Y
	=	Y
	=	Y
	ND	Y
	ND	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 46

Client: C.E. Schmidt
Client ID: T-310
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 771
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:48
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	679		
Final:	874		
Factor:	1.29		

LABORATORY **Analytical Test:**

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions

Sample Type:

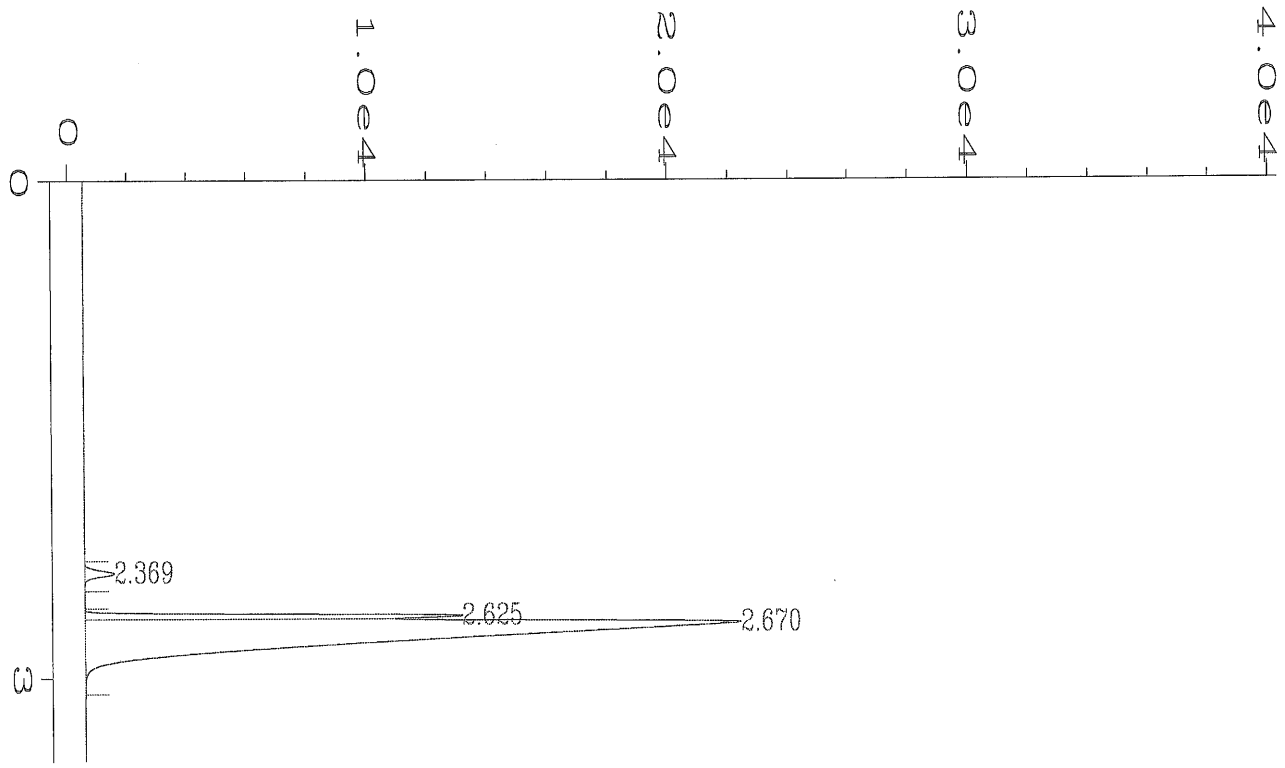
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510046MA.D
Operator : LR
Instrument : GCL
Sample Name : T-310
Run Time Bar Code:
Acquired on : 24 Mar 25 08:28 PM
Report Created on: 27 Mar 25 10:19 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510046MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.369	2678	1003	BB	0.041	1.3641
2	2.625	22886	12637	BV	0.028	11.6579
3	2.670	170752	21856	VB	0.107	86.9780

Total area = 196316

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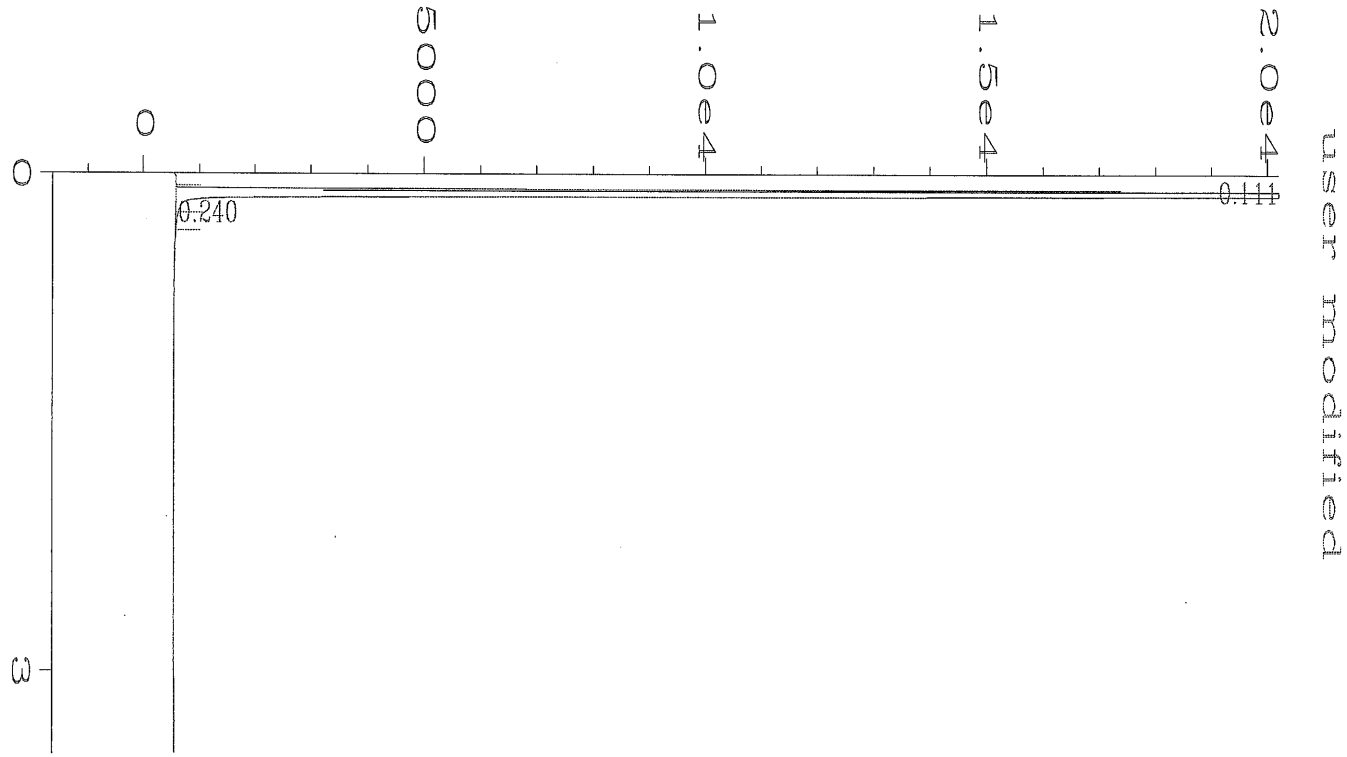

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510046PA.D
Operator : LR
Instrument : GCL
Sample Name : T-310
Run Time Bar Code:
Acquired on : 24 Mar 25 08:28 PM
Report Created on: 27 Mar 25 12:54 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510046PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.111	248020	240874	BB S	0.016	99.9453
2	0.240	136	46	MM	0.049	0.0547

Total area = 248155

User Modified

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Sample Data Packages

SDG Number 225100

Lab Id Number 47

Client ID T-311

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 47

File Name: 2510047A
Description: T-311
Can/Tube#: 605
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 10:35
Date Analyzed: 03/24/25 **Time:** 20:50
Can Dilution Factor: 1.28

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.039	0.117	0.07	385	1,155	703	J
7782-44-7	Oxygen	0.064	0.192	12.73	642	1,926	127,310	
630-08-0	Carbon Monoxide	0.013	0.039	ND	128	385	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.08	128	385	753	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510047A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**47**		SF:	**2**	
Description:	**T-311**		Not Detected Flag:	**ND**	
Date Sampled:	**03/21/25**	Time: **10:35**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **20:50**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**605**				
Can Factor	**1.28**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**861**
7782-44-7	Oxygen	02	2.27	**22860**
7727-37-9	Nitrogen	03	2.34	**181662**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**296**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510047A		Detect Flag:	ND	**Laboratory Number: 47**
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.28				
Air Volume:	0.50 ml		Temp	**25** C	
Base Volume	0.50 ml		Atm P	**760.0** torr	
Dilution Factor	1.28		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.07	0.07	0.07	703	0.07	0.07	300	0.039	0.116	0.039	0.117	385	1,155	J
Oxygen	32.00	12.73	12.73	12.73	127,310	12.73	12.73	500	0.064	0.193	0.064	0.192	642	1,926	
Nitrogen	28.01	87.12	87.12	87.12	871,234	87.12	87.12	1000	0.128	0.385	0.128	0.384	1,284	3,851	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.039	0.013	0.039	128	385	U
Carbon Dioxide	44.01	0.08	0.08	0.08	753	0.08	0.08	100	0.013	0.039	0.013	0.039	128	385	
Sum - N2		12.88	100.00												
Sum		100.0													
Total Nitrogen		93.63													

EPA Qual	Det Qual	Rpt
	ND	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 47

Client: C.E. Schmidt
Client ID: T-311
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 605
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:35
Received: 3/21/2025 Time: 14:30

Date:
Initial : 680
Final: 873
Factor: 1.28

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

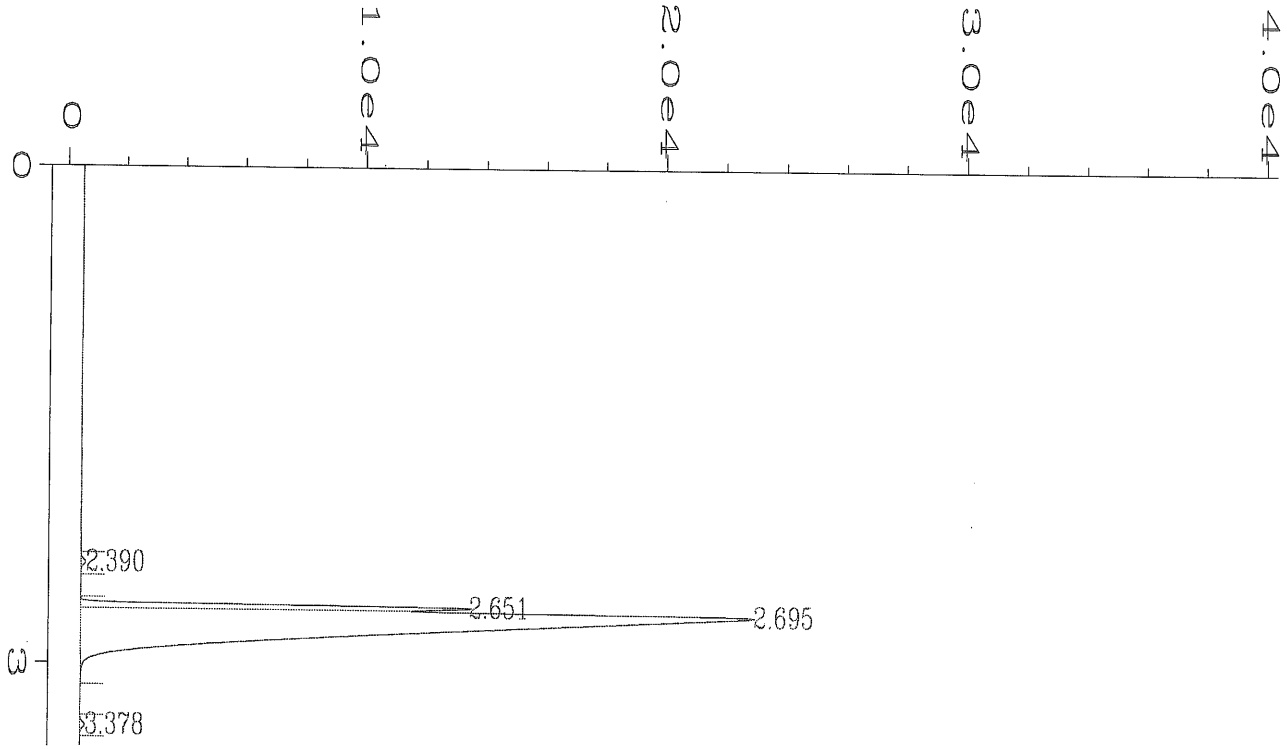
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510047MA.D
Operator : LR
Instrument : GCL
Sample Name : T-311
Run Time Bar Code:
Acquired on : 24 Mar 25 08:50 PM
Report Created on: 27 Mar 25 10:21 AM

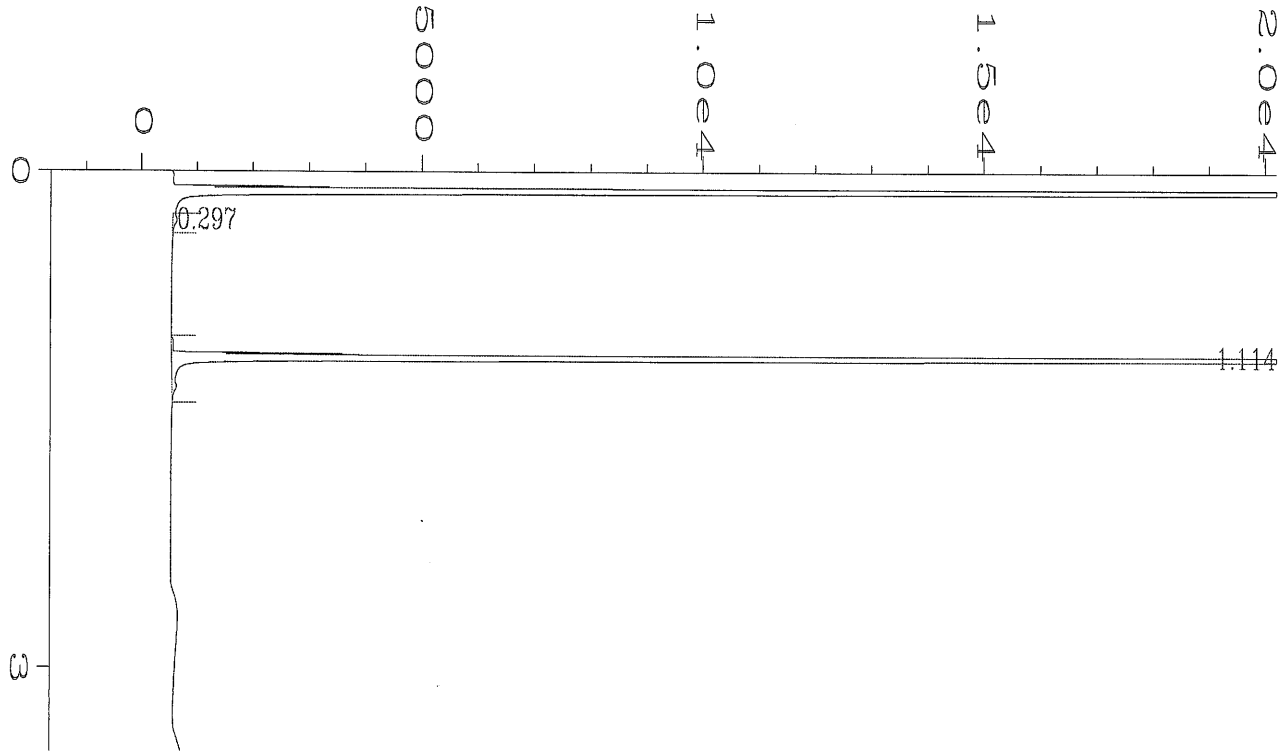
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510047MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.390	405	151	BB	0.041	0.1972
2	2.651	22860	13098	BV	0.027	11.1333
3	2.695	181662	22536	VB	0.107	88.4715
4	3.378	407	154	BB	0.041	0.1980

Total area = 205334

==========



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510047PA.D
Operator : LR
Instrument : GCL
Sample Name : T-311
Run Time Bar Code:
Acquired on : 24 Mar 25 08:50 PM
Report Created on: 27 Mar 25 10:22 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510047PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.297	296	80	MM	0.062	0.1178
2	1.114	250838	243047	BB S	0.016	99.8822

Total area = 251134

User Modified

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **48**

Client ID T-312

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 48

File Name: 2510048A
Description: T-312
Can/Tube#: 990
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 10:30
Date Analyzed: 03/24/25 **Time:** 20:55
Can Dilution Factor: 1.33

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.040	0.120	0.08	398	1,193	800	J
7782-44-7	Oxygen	0.066	0.198	12.65	663	1,988	126,477	
630-08-0	Carbon Monoxide	0.013	0.039	ND	133	398	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.12	133	398	1,237	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510049A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**49**		SF:	**2**	
Description:	**T-313**		Not Detected Flag:	**ND**	
Date Sampled:	**03/21/25**	Time: **10:31**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **21:00**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**549**				
Can Factor	**1.25**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**720**
7782-44-7	Oxygen	02	2.27	**23454**
7727-37-9	Nitrogen	03	2.34	**180415**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**305**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510048A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**48**		SF:	**2**	
Description:	**T-312**		Not Detected Flag:	**ND**	
Date Sampled:	**03/21/25**	Time: **10:30**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **20:55**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**990**				
Can Factor	**1.33**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**949**
7782-44-7	Oxygen	02	2.27	**22003**
7727-37-9	Nitrogen	03	2.34	**181260**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**471**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

Laboratory Number: 48

File Name:	2510048A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.33				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.33		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.08	0.08	0.08	800	0.08	0.08	300	0.040	0.119	0.040	0.120	398	1,193	J
Oxygen	32.00	12.65	12.65	12.65	126,477	12.65	12.65	500	0.066	0.199	0.066	0.198	663	1,988	
Nitrogen	28.01	87.15	87.15	87.15	871,485	87.15	87.15	1000	0.133	0.398	0.133	0.399	1,325	3,975	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.040	0.013	0.039	133	398	U
Carbon Dioxide	44.01	0.12	0.12	0.12	1,237	0.12	0.12	100	0.013	0.040	0.013	0.039	133	398	
Sum - N2		12.85	100.00												
Sum		100.0													
Total Nitrogen		96.43													

EPA Qual	Det Qual	Rpt
	ND	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:	Expires:		
	4/20/2025	225100	48

Client:	C.E. Schmidt	MS Load Vol:	300
Client ID:	T-312	MS SIM Vol:	
Description:		GCK Load Vol:	200
Project Name:	Chiquita Canyon	GCP Load Vol:	
EAS Project:	17807 EAS PM: David Atkinson	Sample Volume:	

Media:	CAN	Can Pressurization:	Sampled:	3/21/2025	Time: 10:30
Can Number:	990		Received:	3/21/2025	Time: 14:30
FC Number:	0				
TAT Working:		Date:			
Sampling Time:		Initial :	689		
Flow:		Final:	913		
		Factor:	1.33		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

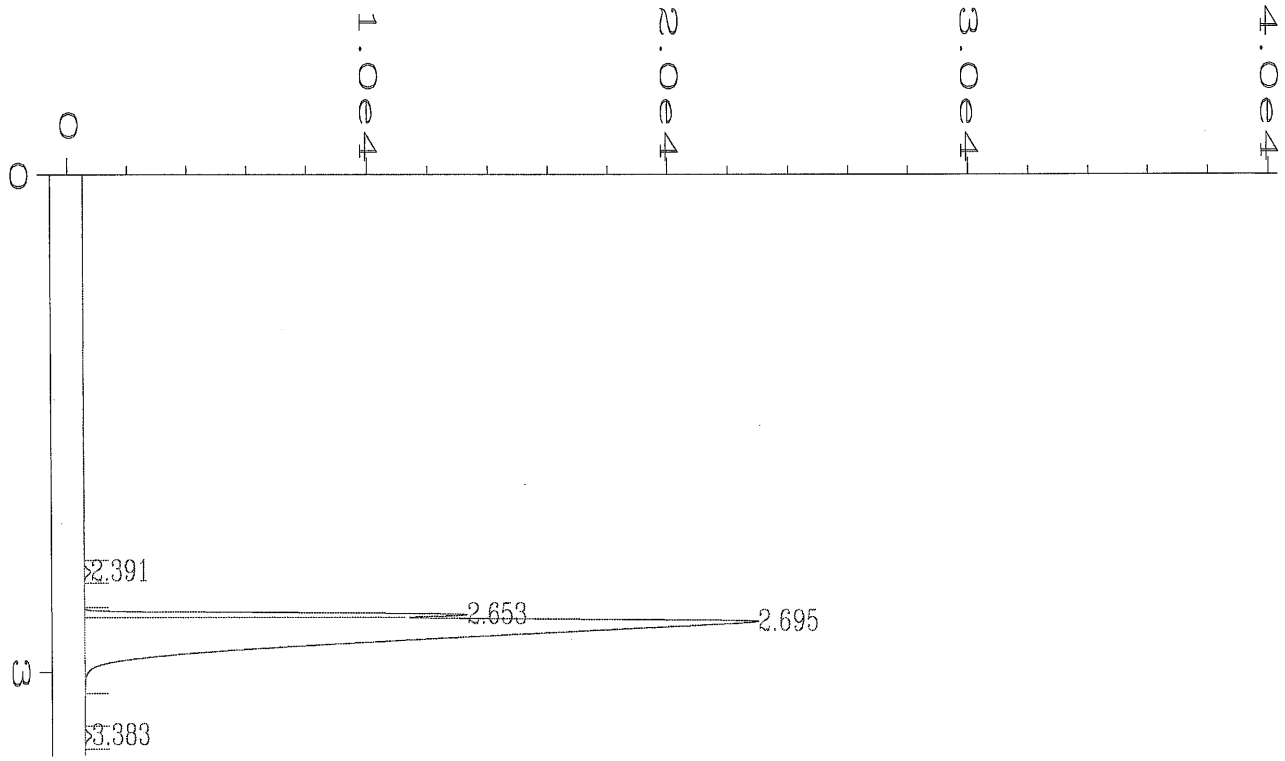
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510048MA.D
Operator : LR
Instrument : GCL
Sample Name : T-312
Run Time Bar Code:
Acquired on : 24 Mar 25 08:55 PM
Report Created on: 27 Mar 25 10:22 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510048MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.391	568	210	BB	0.042	0.2777
2	2.653	22003	12767	BV	0.027	10.7650
3	2.695	181260	22478	VB	0.110	88.6806
4	3.383	566	217	BB	0.041	0.2767

Total area = 204396

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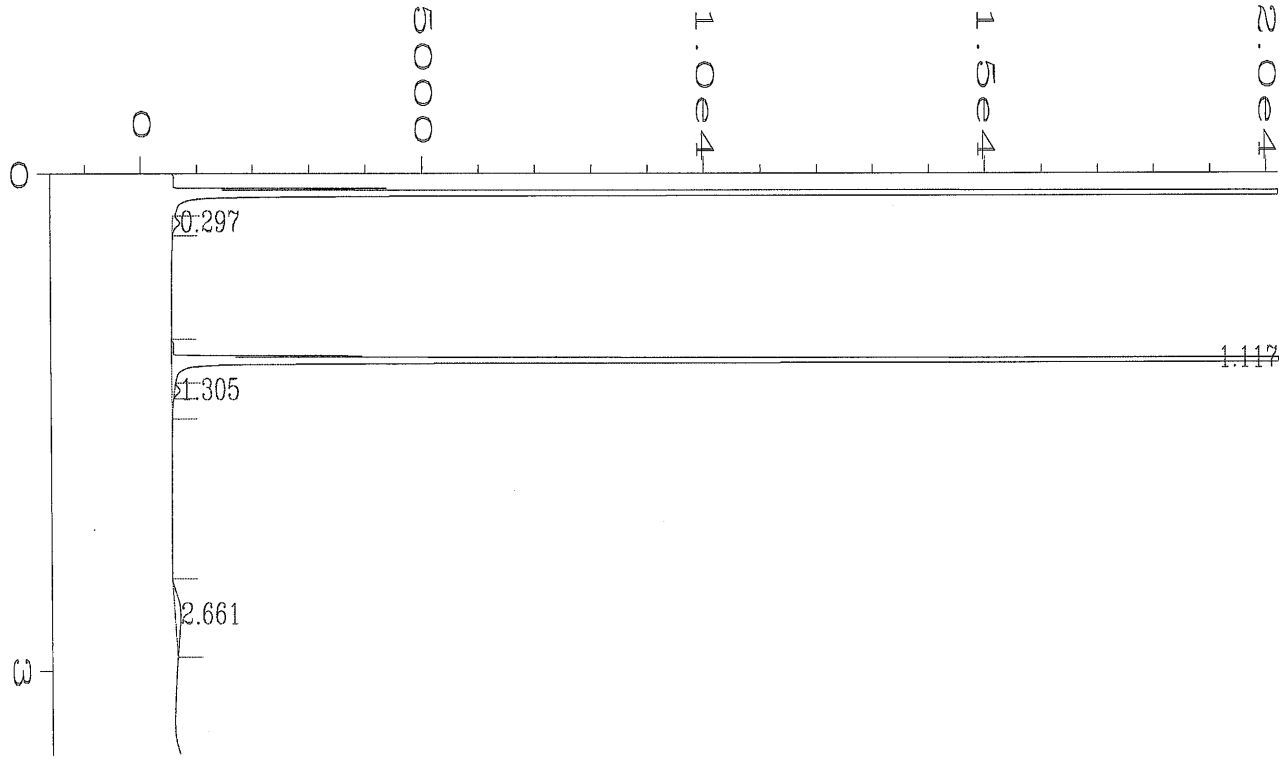

user modified

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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510048PA.D
Operator : LR
Instrument : GCL
Sample Name : T-312
Run Time Bar Code:
Acquired on : 24 Mar 25 08:55 PM
Report Created on: 27 Mar 25 10:23 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510048PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.297	471	133	MM	0.059	0.1863
2	1.117	250413	240639	BB S	0.047	99.0374
3	1.305	285	101	BV T	0.045	0.1127
4	2.661	1678	108	BB	0.234	0.6636

Total area = 252847

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **49**

Client ID T-313

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 49

File Name: 2510049A
Description: T-313
Can/Tube#: 549
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 10:31
Date Analyzed: 03/24/25 **Time:** 21:00
Can Dilution Factor: 1.25

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.038	0.114	0.06	376	1,129	575	J
7782-44-7	Oxygen	0.063	0.189	12.77	627	1,882	127,652	
630-08-0	Carbon Monoxide	0.013	0.039	ND	125	376	ND	ND
124-38-9	Carbon Dioxide	0.013	0.039	0.08	125	376	758	

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100

File Name:	2510049A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.25				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.25		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Laboratory Number: 49

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	Fixed ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.06	0.06	0.06	575	0.06	0.06	300	0.038	0.113	0.038	0.114	376	1,129	J
Oxygen	32.00	12.77	12.77	12.77	127,652	12.77	12.77	500	0.063	0.188	0.063	0.189	627	1,882	
Nitrogen	28.01	87.10	87.10	87.10	871,014	87.10	87.10	1000	0.125	0.376	0.125	0.375	1,255	3,764	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.013	0.038	0.013	0.039	125	376	U
Carbon Dioxide	44.01	0.08	0.08	0.08	758	0.08	0.08	100	0.013	0.038	0.013	0.039	125	376	
Sum - N2		12.90	100.00												
Sum		100.0													
Total Nitrogen		90.88													

004321 of 004929

EPA Qual	Det Qual	Rpt
	ND	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:	Expires:		
	4/20/2025	225100	49

Client:	C.E. Schmidt	MS Load Vol:	300
Client ID:	T-313	MS SIM Vol:	
Description:		GCK Load Vol:	200
Project Name:	Chiquita Canyon	GCP Load Vol:	
EAS Project:	17807	EAS PM: David Atkinson	Sample Volume:

Media:	CAN	Can Pressurization:	Sampled:	3/21/2025	Time: 10:31
Can Number:	549		Received:	3/21/2025	Time: 14:30
FC Number:	0				
TAT Working:		Date:			
Sampling Time:		Initial :	695		
Flow:		Final:	872		
		Factor:	1.25		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

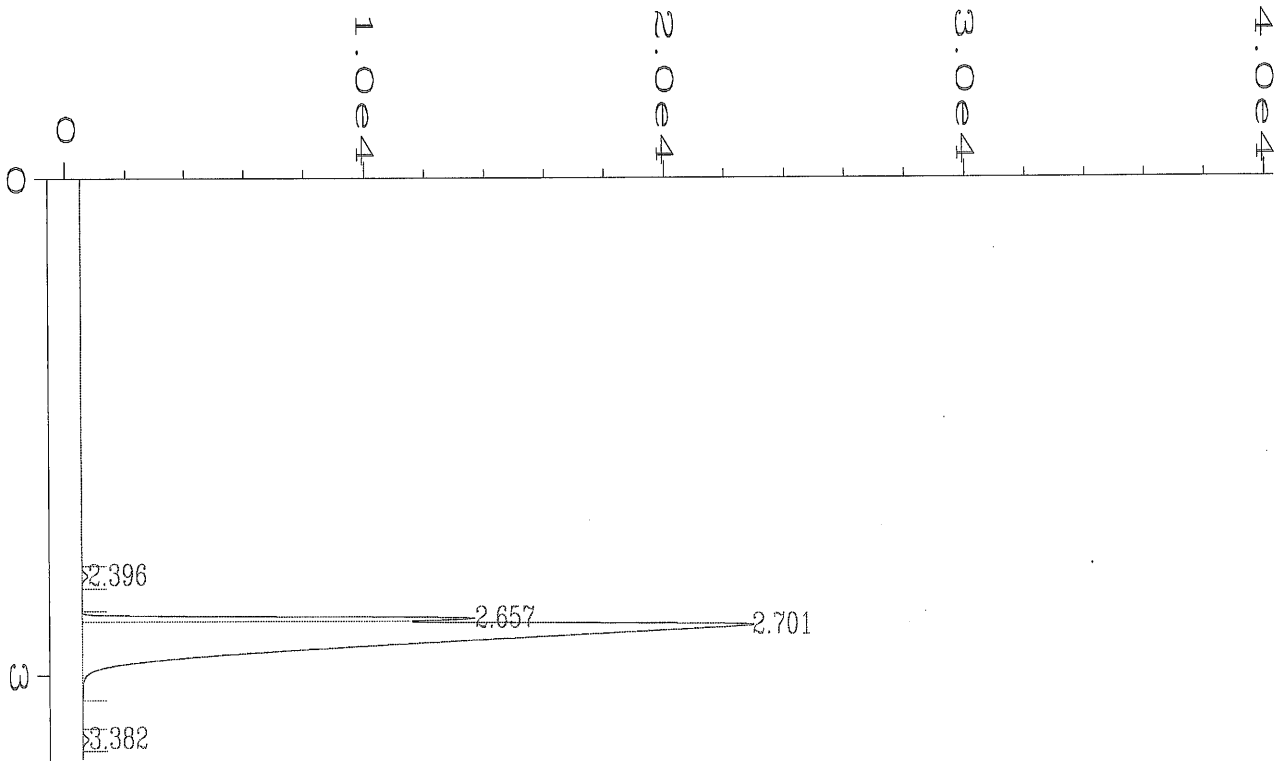
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510049MA.D
Operator : LR
Instrument : GCL
Sample Name : T-313
Run Time Bar Code:
Acquired on : 24 Mar 25 09:00 PM
Report Created on: 27 Mar 25 10:24 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510049MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.396	499	186	BB	0.042	0.2435
2	2.657	23454	13116	BV	0.028	11.4485
3	2.701	180415	22425	VB	0.110	88.0652
4	3.382	498	189	BB	0.041	0.2429

Total area = 204865

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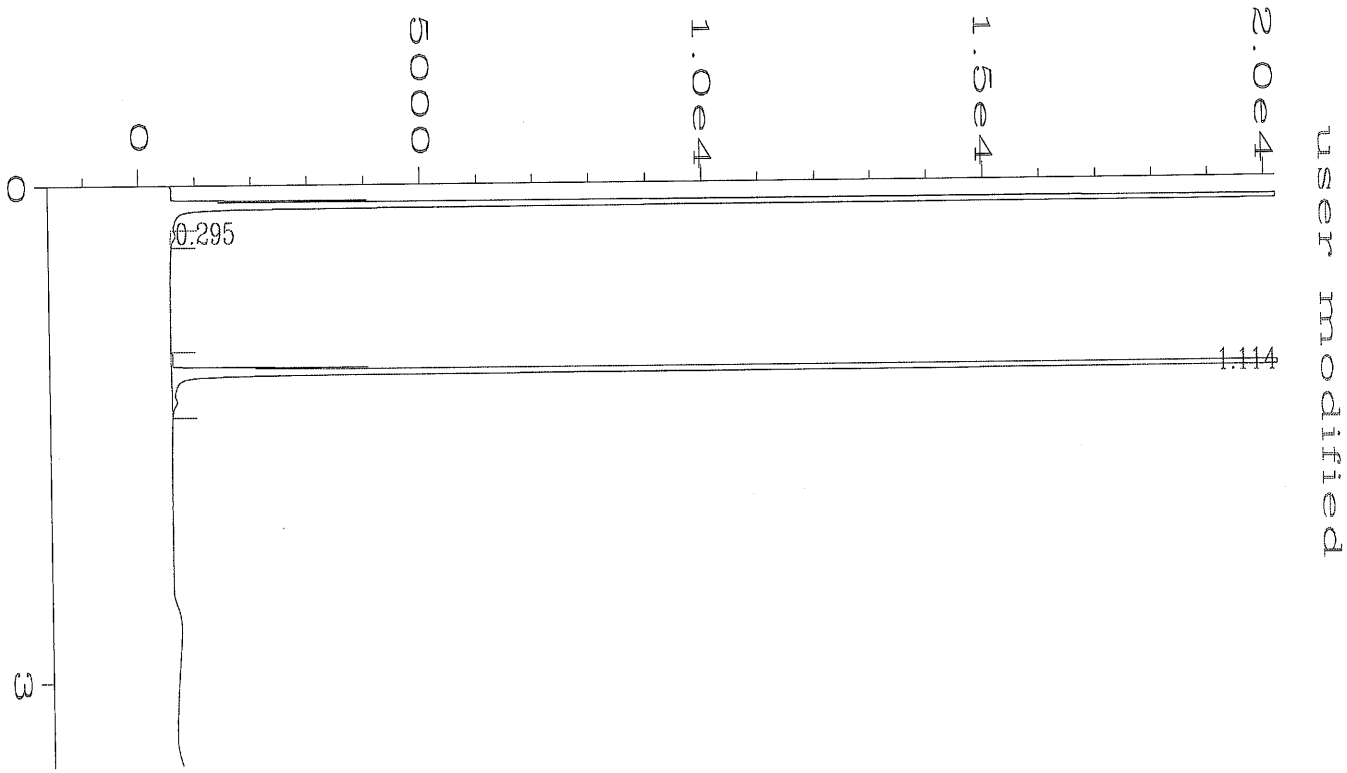

Area Percent Report

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510049PA.D
Operator : LR
Instrument : GCL
Sample Name : T-313
Run Time Bar Code:
Acquired on : 24 Mar 25 09:00 PM
Report Created on: 27 Mar 25 10:24 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510049PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.295	305	86	MM	0.059	0.1231
2	1.114	247185	249209	BB S	0.015	99.8769

Total area = 247489

User Modified

Sample Data Packages

SDG Number 225100

Lab Id Number 50

Client ID T-314

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 50

File Name: 2510050A
Description: T-314
Can/Tube#: 784
QC_Batch: 032425-GCO

Date Sampled: 03/21/25 **Time:** 10:38
Date Analyzed: 03/24/25 **Time:** 21:05
Can Dilution Factor: 1.25

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.037	0.111	0.06	375	1,125	638	J
7782-44-7	Oxygen	0.062	0.186	12.68	625	1,874	126,847	
630-08-0	Carbon Monoxide	0.012	0.036	ND	125	375	ND	ND
124-38-9	Carbon Dioxide	0.012	0.036	0.14	125	375	1,449	

QUANTITATION REPORT

ASTM D1945 GC/TCD

File Name:	**2510050A**		Method:	**D1945**	
SDG:	**225100**		Cal Update:	**4/19/24**	
Lab Id:	**50**		SF:	**2**	
Description:	**T-314**		Not Detected Flag:	**ND**	
Date Sampled:	**03/21/25**	Time: **10:38**	Matrix	**AA**	
Date Received:	**03/21/25**	Time: **14:30**	Type	**TRG**	
Date Analyzed:	**03/24/25**	Time: **21:05**	Instrument	**GCO**	
QCBatch	**032425-GCO**		Flux Factor:	0.385	mg/m2*min
Can Number	**784**				
Can Factor	**1.25**				
Volume:	**0.5**				
Type	**SA**				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**802**
7782-44-7	Oxygen	02	2.27	**23400**
7727-37-9	Nitrogen	03	2.34	**179984**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**585**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: 225100
Laboratory Number: 50

File Name:	2510050A		Detect Flag:	ND	
QCBatch	032425-GCO		Report Normalized:	**No**	
Can Factor	1.25				
Air Volume:	0.50	ml	Temp	**25**	C
Base Volume	0.50	ml	Atm P	**760.0**	torr
Dilution Factor	1.25		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	**3**	
Decimal Places:	2				

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.06	0.06	0.06	638	0.06	0.06	300	0.037	0.112	0.037	0.111	375	1,125	J
Oxygen	32.00	12.68	12.68	12.68	126,847	12.68	12.68	500	0.062	0.187	0.062	0.186	625	1,874	
Nitrogen	28.01	87.11	87.11	87.11	871,066	87.11	87.11	1000	0.125	0.375	0.125	0.375	1,250	3,749	
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.012	0.037	0.012	0.036	125	375	U
Carbon Dioxide	44.01	0.14	0.14	0.14	1,449	0.14	0.14	100	0.012	0.037	0.012	0.036	125	375	
Sum - N2		12.89	100.00												
Sum		100.0													
Total Nitrogen		90.30													

EPA Qual	Det Qual	Rpt
	ND	Y
	=	Y
	=	Y
	ND	Y
	=	Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 | 50

Client: C.E. Schmidt
Client ID: T-314
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 784
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:38
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	701		
Final:	876		
Factor:	1.25		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO	ASTM D1945	ASTM D1945 Permanent Gas Analysis	30

Analysis Instructions Sample Type:

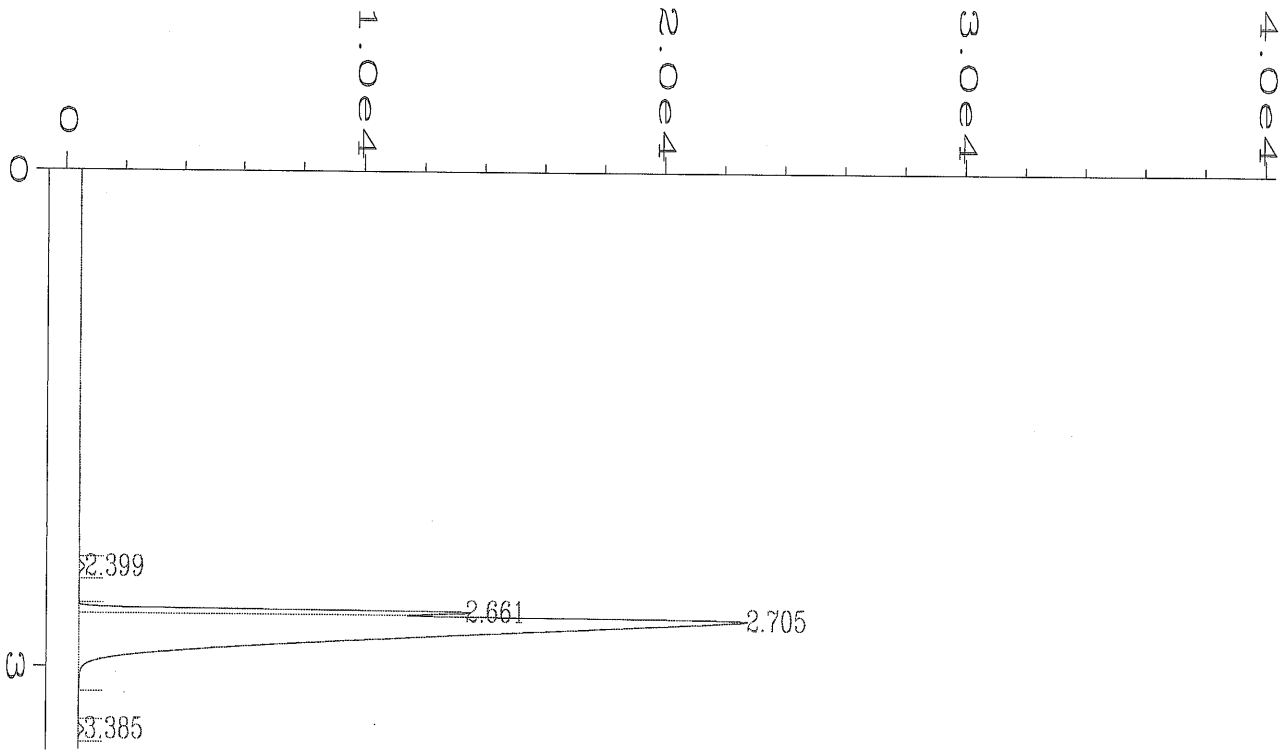
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



Area Percent Report

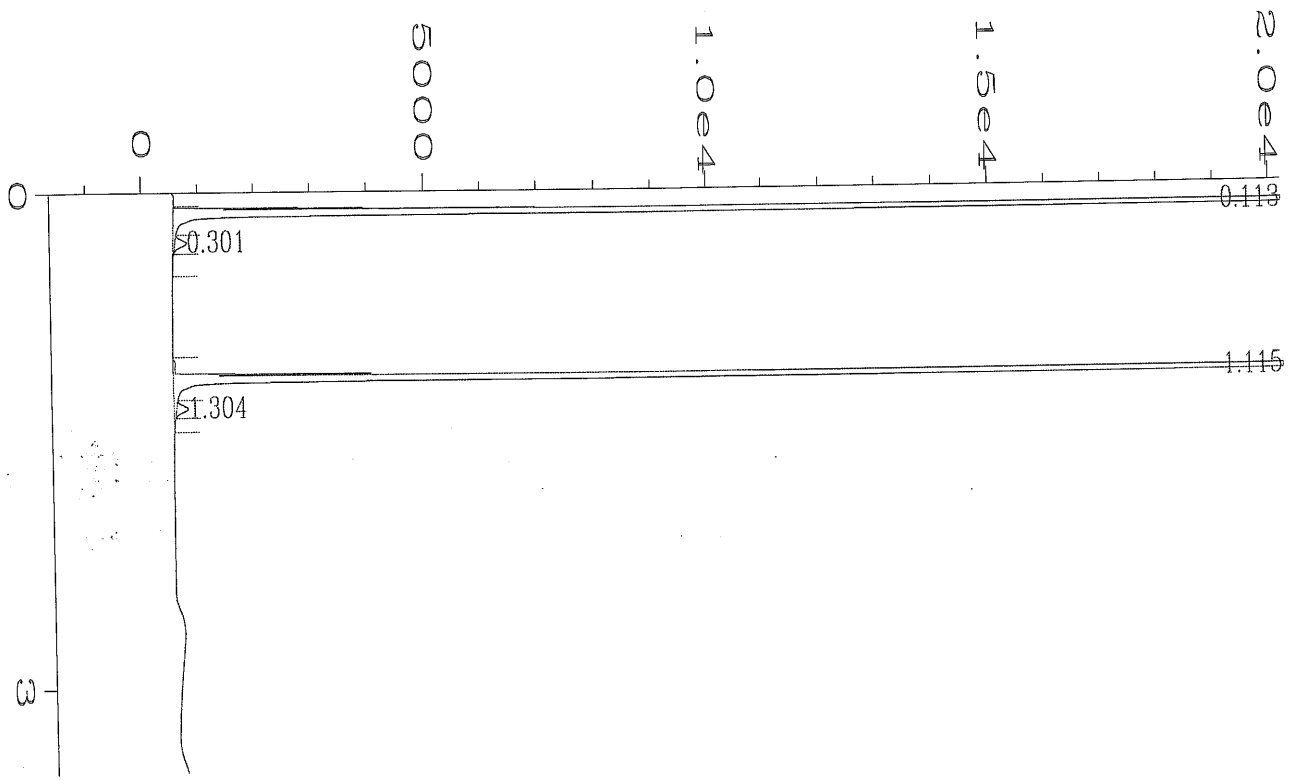
Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510050MA.D
Operator : LR
Instrument : GCL
Sample Name : T-314
Run Time Bar Code:
Acquired on : 24 Mar 25 09:05 PM
Report Created on: 27 Mar 25 10:25 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\510050MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.399	480	178	BB	0.042	0.2351
2	2.661	23400	13065	BV	0.028	11.4506
3	2.705	179984	22338	VB	0.108	88.0756
4	3.385	488	184	BB	0.042	0.2387

Total area = 204352



Area Percent Report

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\510050PA.D
Operator : LR
Instrument : GCL
Sample Name : T-314
Run Time Bar Code:
Acquired on : 24 Mar 25 09:05 PM
Report Created on: 27 Mar 25 10:25 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\510050PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.113	246817	238171	BB S	0.031	49.1684
2	0.301	585	199	BV T	0.047	0.1166
3	1.115	254001	252356	BB S	0.016	50.5997
4	1.304	578	204	BB T	0.045	0.1152

Total area = 501982

Method Blank Data Packages

Samples are analyzed in a Daily Analytical Batch (DAB) on an instrument. The DAB identifier is on each analytial report in the field called QC Batch. There will be one Method Blank QC Batch report for each DAB in this SDG.

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METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: LABQC
Laboratory Number: B03245B

File Name: B03245B
Description: METHOD BLANK
Can/Tube#:
QC_Batch: 032425-GCO

Date Sampled: **Time:**
Date Analyzed: 03/24/25 **Time:** 13:24
Can Dilution Factor: 1.00

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
1333-74-0	Hydrogen	0.030	0.090	ND	300	900	ND	ND
7782-44-7	Oxygen	0.050	0.150	ND	500	1,500	ND	ND
74-82-8	Methane	0.010	0.030	ND	100	300	ND	ND
630-08-0	Carbon Monoxide	0.010	0.030	ND	100	300	ND	ND
124-38-9	Carbon Dioxide	0.010	0.030	ND	100	300	ND	ND

QUANTITATION REPORT
ASTM D1945 GC/TCD

File Name:	B03245B		Method:	D1945	
SDG:	LABQC		Cal Update:	4/19/24	
Lab Id:	B03245B		SF:	2	
Description:	METHOD BLANK		Not Detected Flag:	ND	
Date Sampled:	NA	Time: NA	Matrix	AA	
Date Received:	NA	Time: NA	Type	TRG	
Date Analyzed:	03/24/25	Time: 13:24	Instrument	GCO	
QCBatch	032425-GCO		Flux Factor:	0.385	mg/m2*min
Can Number	NA				
Can Factor	1.00				
Volume:	0.5				
Type	MB				

CAS#	Compound	Num	STD RT	Sample Area
1333-74-0	Hydrogen	01	1.01	**0**
7782-44-7	Oxygen	02	2.27	**0**
7727-37-9	Nitrogen	03	2.34	**699**
74-82-8	Methane	04	3.00	**0**
630-08-0	Carbon Monoxide	05	2.59	**0**
124-38-9	Carbon Dioxide	06	0.30	**0**

The Hydrogen Area is from the GCO run for Helium and Hydrogen done with Nitrogen carrier gas

For Data Package Print: QUANT, CALC, REPORT

CALCULATIONS

ASTM D1945 GC/TCD

SDG: LABQC
Laboratory Number: B03245E

File Name:	B03245B	Detect Flag:	ND
QCBatch	032425-GCO	Report Normalized:	**No**
Can Factor	1.00		
Air Volume:	0.50 ml	Temp	**25** C
Base Volume	0.50 ml	Atm P	**760.0** torr
Dilution Factor	1.00	Gas Constant	24.4
Gas Constant:	24.4	RL Factor	**3**
Decimal Places:	2		

Compound	MW	Calc Result %	Result %Norm	Fixed Result %	Fixed ResultV ppmv	Fixed ResultQ %	ResultG %	MDL ppmv	MDL %	RL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual
Hydrogen	2.02	0.00	0.00	ND	ND	0.00		300	0.030	0.090	0.030	0.090	300	900	U
Oxygen	32.00	0.00	0.00	ND	ND	0.00		500	0.050	0.150	0.050	0.150	500	1,500	U
Nitrogen	28.01	100.00	100.00	100.00	1,000,000	100.00	100.00	1000	0.100	0.300	0.100	0.300	1,000	3,000	
Methane	16.04	0.00	0.00	ND	ND	0.00		100	0.010	0.030	0.010	0.030	100	300	U
Carbon Monoxide	28.01	0.00	0.00	ND	ND	0.00		100	0.010	0.030	0.010	0.030	100	300	U
Carbon Dioxide	44.01	0.00	0.00	ND	ND	0.00		100	0.010	0.030	0.010	0.030	100	300	U
Sum - N2		0.00	100.00												
Sum		100.0													
Total Nitrogen		0.28													

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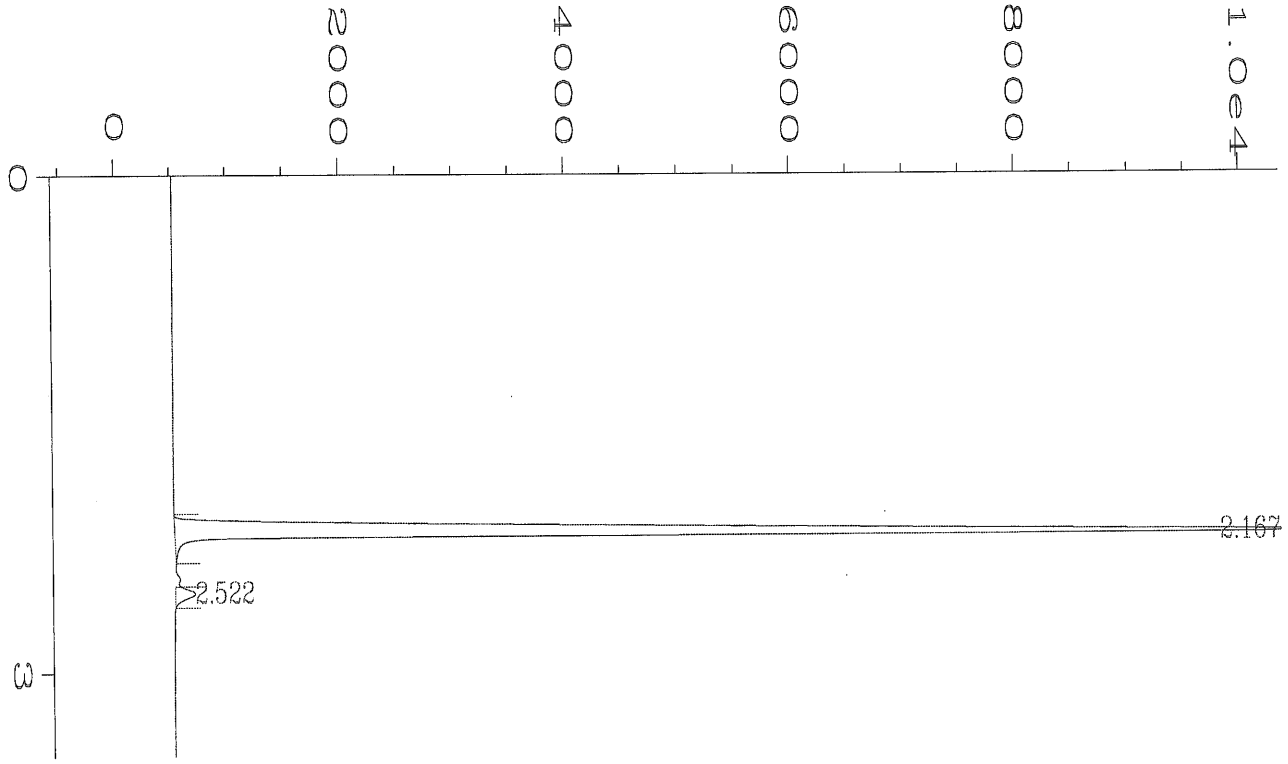
EPA Qual	Det Qual	Rpt
	ND	Y
	ND	Y
	=	Y
	ND	Y
	ND	Y
	ND	Y



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\B03245MB.D
Operator : DA
Instrument : GCL
Sample Name : METHOD BLANK
Run Time Bar Code:
Acquired on : 24 Mar 25 01:24 PM
Report Created on: 26 Mar 25 02:16 PM
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\B03245MB.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.167	34740	10641	BB	0.046	98.0279
2	2.522	699	175	MM	0.066	1.9721

Total area = 35439

User Modified

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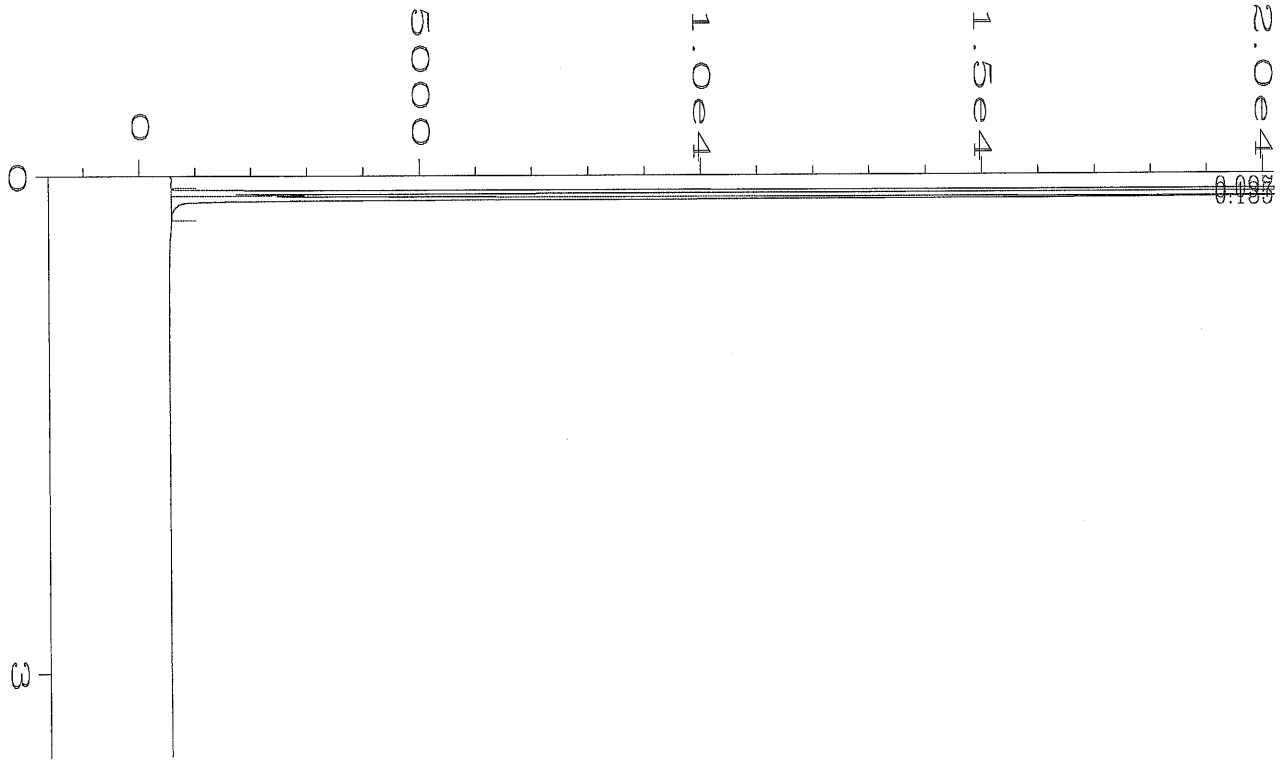

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\B03245PB.D
Operator : DA
Instrument : GCL
Sample Name : METHOD BLANK
Run Time Bar Code:
Acquired on : 24 Mar 25 01:24 PM
Report Created on: 26 Mar 25 02:16 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\B03245PB.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.097	54880	72969	BV	0.016	72.1967
2	0.135	21134	23353	VB	0.033	27.8033

Total area = 76014

==========

LCS/LCD Data Packages

Samples are analyzed in a Daily Analytical Batch (DAB) on an instrument. The DAB identifier is on each analytial report in the field called QC Batch. There will be one LCS/LCD report for each QC Batch (DAB) in this SDG.

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Calculations
Sample Calculations
Chromatogram

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

ASTM D 1945 GC/TCD
Analytical Method: **D1945**

Date: 03/24/25
QC_Batch: 032425-GCO

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate %	Duplicate Limit %	Flag
7782-44-7	Oxygen	101		98		70	130	3	25	
7727-37-9	Nitrogen	110		98		70	130	12	25	
74-82-8	Methane	100		101		70	130	1	25	
630-08-0	Carbon Monoxide	100		100		70	130	1	25	
124-38-9	Carbon Dioxide	96		96		70	130	0	25	

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: LABQC
Laboratory Number: QC03245B

File Name:	QC03245B			
QCBatch	032425-GCO			
Can Factor	1.00			
Volume:	0.5			
Air Volume:	0.5		LCS	
Base Volume	0.5			
Dilution Factor	1.00	RL Factor	3	
Gas Constant:	24.4			
Decimal Places:	0	1		

Compound	ResultV %	Spike %	LCS %	LCS % Rec	LCL %	UCL %	FLAG	RPD %	RPD UCL	FLAG
Oxygen	12.36	12.24	12.36	101	70	130		2.8	25	
Nitrogen	18.26	16.59	18.26	110	70	130		11.9	25	
Methane	10.26	10.28	10.26	100	70	130		1.1	25	
Carbon Monoxide	12.12	12.14	12.12	100	70	130		0.5	25	
Carbon Dioxide	9.80	10.17	9.80	96	70	130		0.1	25	

Compound	ResultV %	Spike %	LCS %	LCS % Rec	LCL %	UCL %	FLAG
Oxygen	12.01	12.24	12.01	98	70	130	
Nitrogen	16.21	16.59	16.21	98	70	130	
Methane	10.38	10.28	10.38	101	70	130	
Carbon Monoxide	12.18	12.14	12.18	100	70	130	
Carbon Dioxide	9.81	10.17	9.81	96	70	130	

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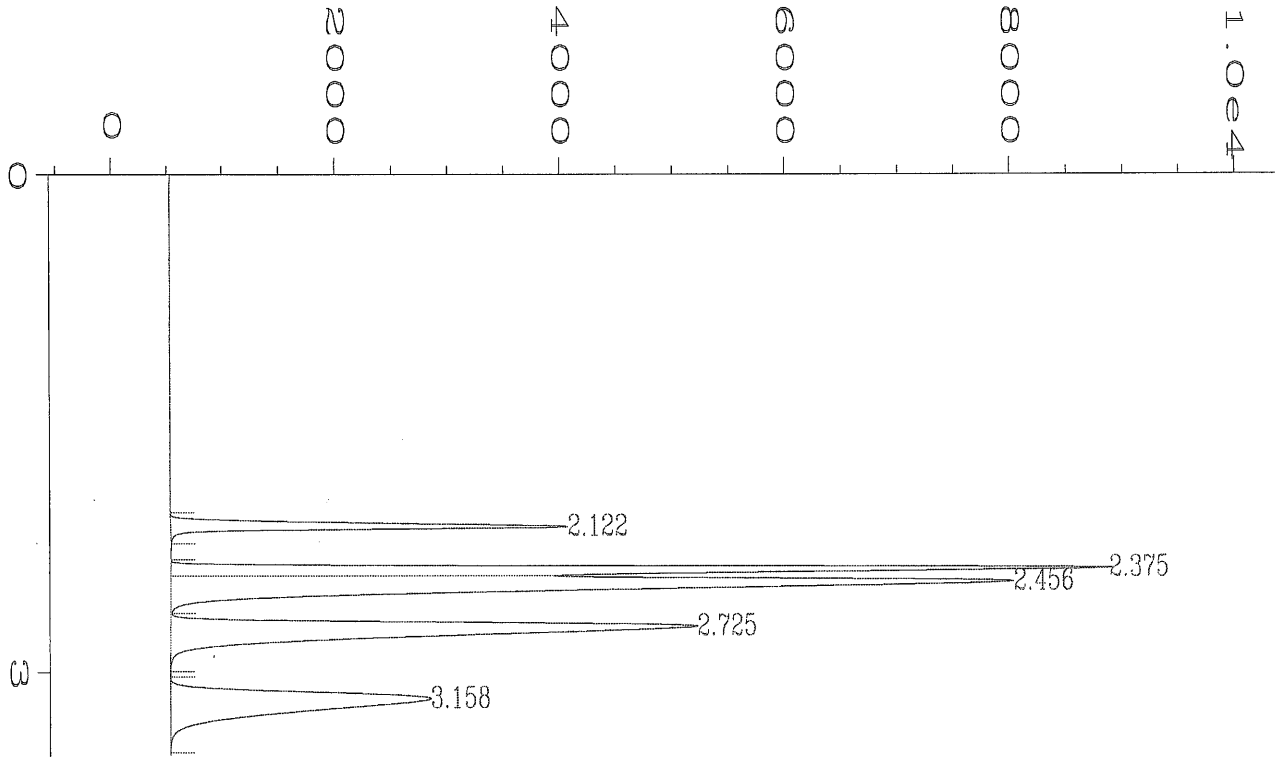
QUANTITATION REPORT

ASTM D 1945 GC/TCD

	LCS		LCD			
File Name:	**QC03245B**		**QC03245C**	Method:	**D1945**	D1945
SDG:	**LABQC**		**LABQC**	SF:	**2**	D1946
Lab Id:	**QC03245B**		**QC03245C**	Detect Flag:	**ND**	3C
Description:	**ST61561**		**ST61561**	Matrix:	**AA**	
Time:	**12:07**	Time:	**12:12**	Type:	**TRG**	
Date Analyzed:	**03/24/25**			Instrument:	**GCO**	
QC Batch	**032425-GCO**					

						ST63400	B	C
			Column	STD	STD	Standard	LCS	LCD
CAS#	Compound	Num		RT	Conc.	Area	Area	Area
7782-44-7	Oxygen	01	MS	1.97	2.49	**4795**	23796	23130
7727-37-9	Nitrogen	02	MS	2.07	4.84	**10848**	40927	36342
74-82-8	Methane	03	MS	2.66	3.97	**6863**	17738	17942
630-08-0	Carbon Monoxide	04	MS	2.43	5.15	**10830**	25482	25621
124-38-9	Carbon Dioxide	05	PQ	0.33	4.80	**20932**	42726	42767



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\QC0324MC.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : ST61561
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 01:12 PM
Instrument Method: ASTM1946.MTH
Report Created on: 26 Mar 25 02:13 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\QC0324MC.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.122	8789	3560	BB	0.038	7.8599
2	2.375	23130	8366	BV	0.042	20.6842
3	2.456	36342	7494	VV	0.072	32.4995
4	2.725	25621	4691	VB	0.082	22.9117
5	3.158	17942	2314	BBA	0.119	16.0447

Total area = 111824

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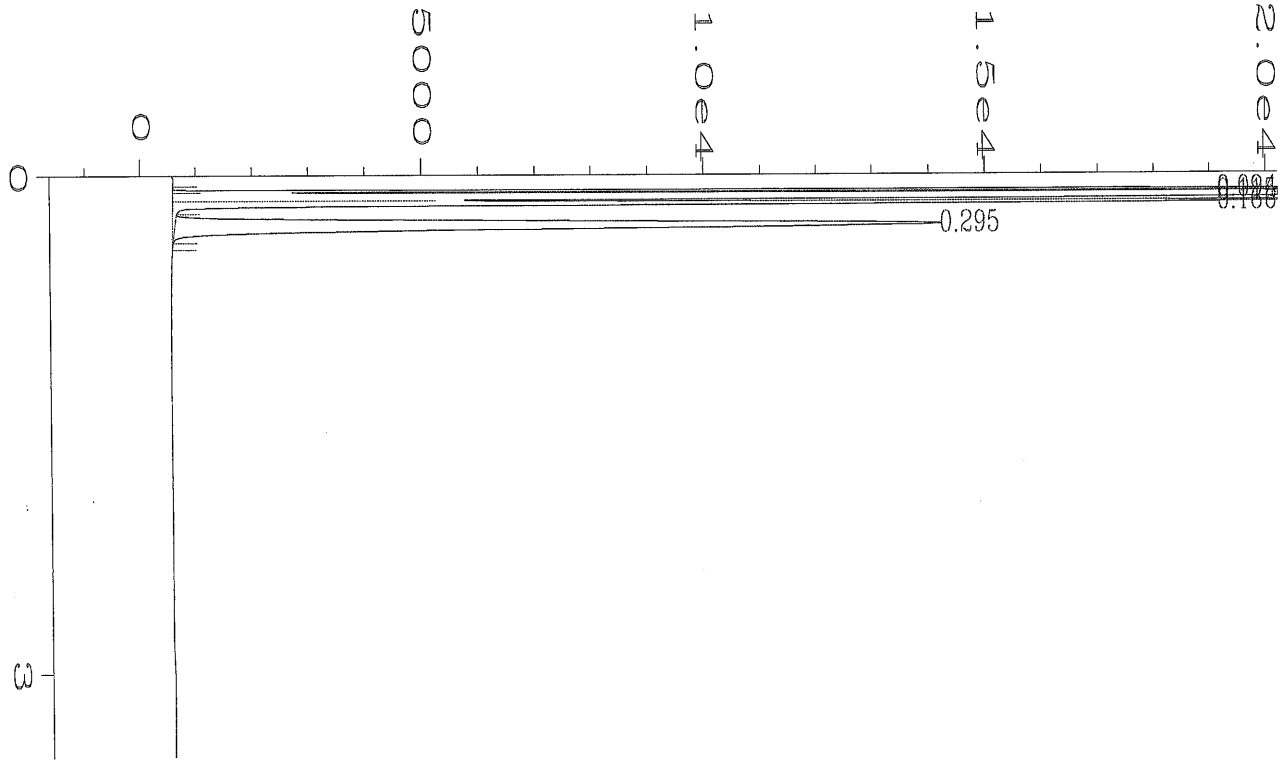

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\QC0324PC.D
Operator : DA
Instrument : GCL
Sample Name : ST61561
Run Time Bar Code:
Acquired on : 24 Mar 25 01:12 PM
Report Created on: 26 Mar 25 02:14 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\QC0324PC.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.094	20273	42146	BV	0.008	8.4060
2	0.115	145993	122084	HH S	0.022	60.5347
3	0.166	32140	25101	HB S	0.020	13.3265
4	0.295	42767	13637	BB T	0.050	17.7328

Total area = 241173

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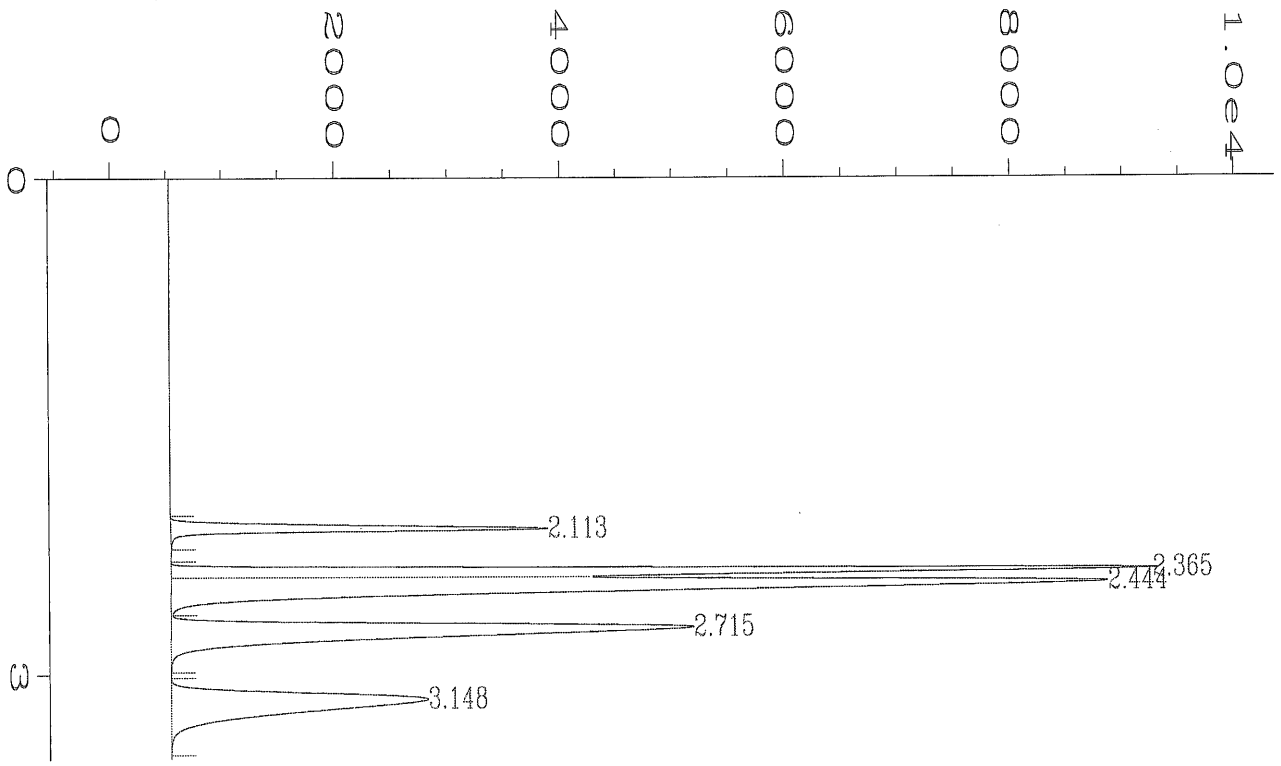

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\QC0324MB.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : ST61561
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 01:06 PM
Instrument Method: ASTM1946.MTH
Report Created on: 26 Mar 25 02:13 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\QC0324MB.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.113	8221	3361	BB	0.038	7.0774
2	2.365	23796	8813	BV	0.041	20.4847
3	2.444	40927	8324	VV	0.074	35.2323
4	2.715	25482	4655	VB	0.083	21.9361
5	3.148	17738	2285	BB	0.118	15.2694

Total area = 116164

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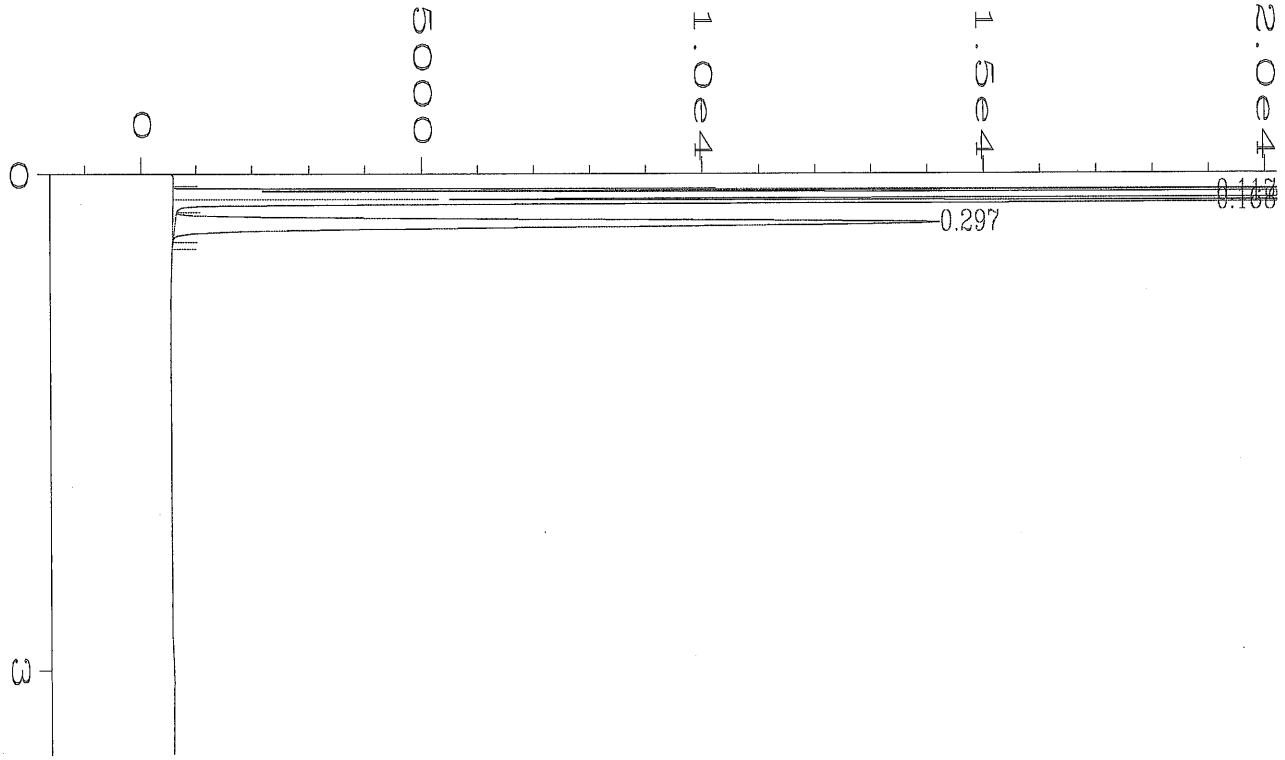

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\QC0324PB.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : ST61561
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 01:06 PM
Instrument Method: ASTM1946.MTH
Report Created on: 26 Mar 25 02:13 PM
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\QC0324PB.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.117	172533	130761	BH S	0.023	69.7255
2	0.168	32187	24921	HB S	0.020	13.0076
3	0.297	42726	13615	BB T	0.050	17.2669

Total area = 247446

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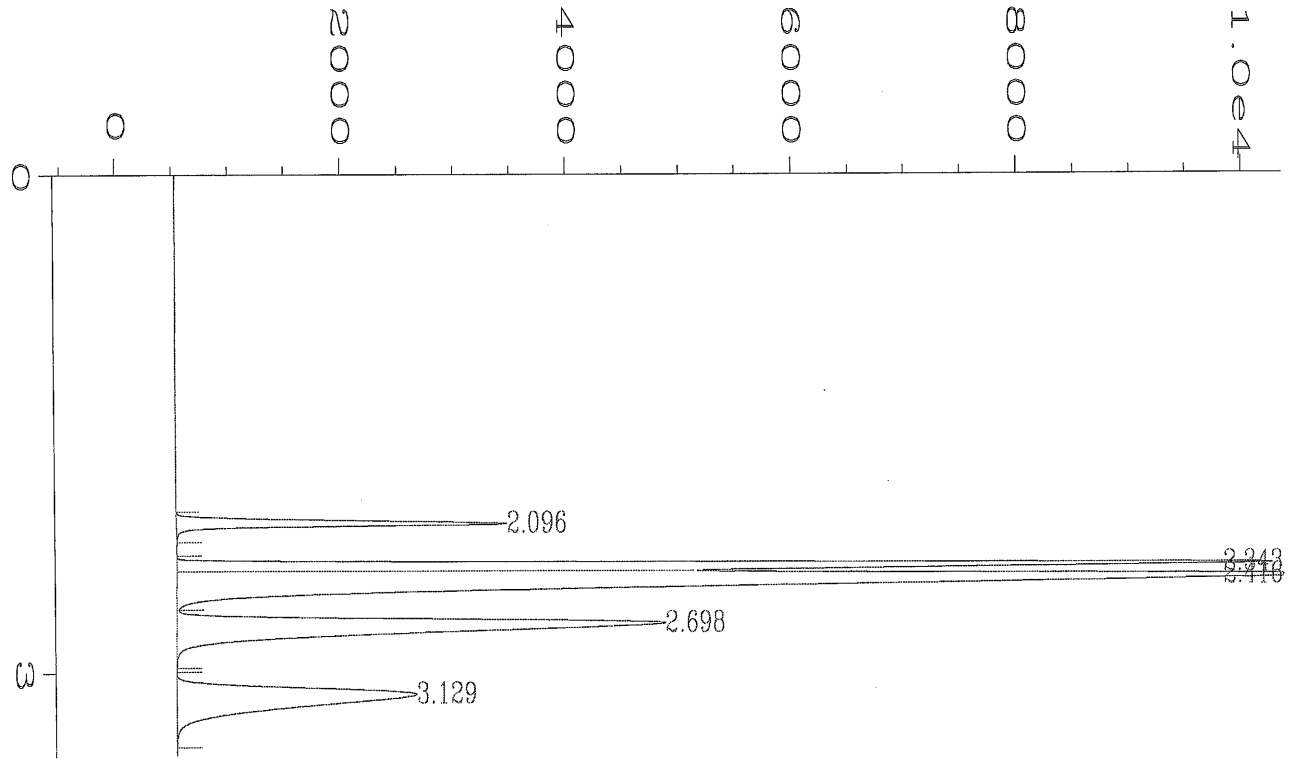

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\QC0324MA.D
Operator : DA
Instrument : GCL
Sample Name : ST61561
Run Time Bar Code:
Acquired on : 24 Mar 25 01:01 PM
Report Created on: 26 Mar 25 02:12 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\QC0324MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.096	6992	2946	BB	0.037	5.5553
2	2.343	25150	9733	BV	0.039	19.9809
3	2.416	53415	10450	VV	0.075	42.4368
4	2.698	23906	4342	VB	0.085	18.9926
5	3.129	16406	2130	BB	0.119	13.0344

Total area = 125870

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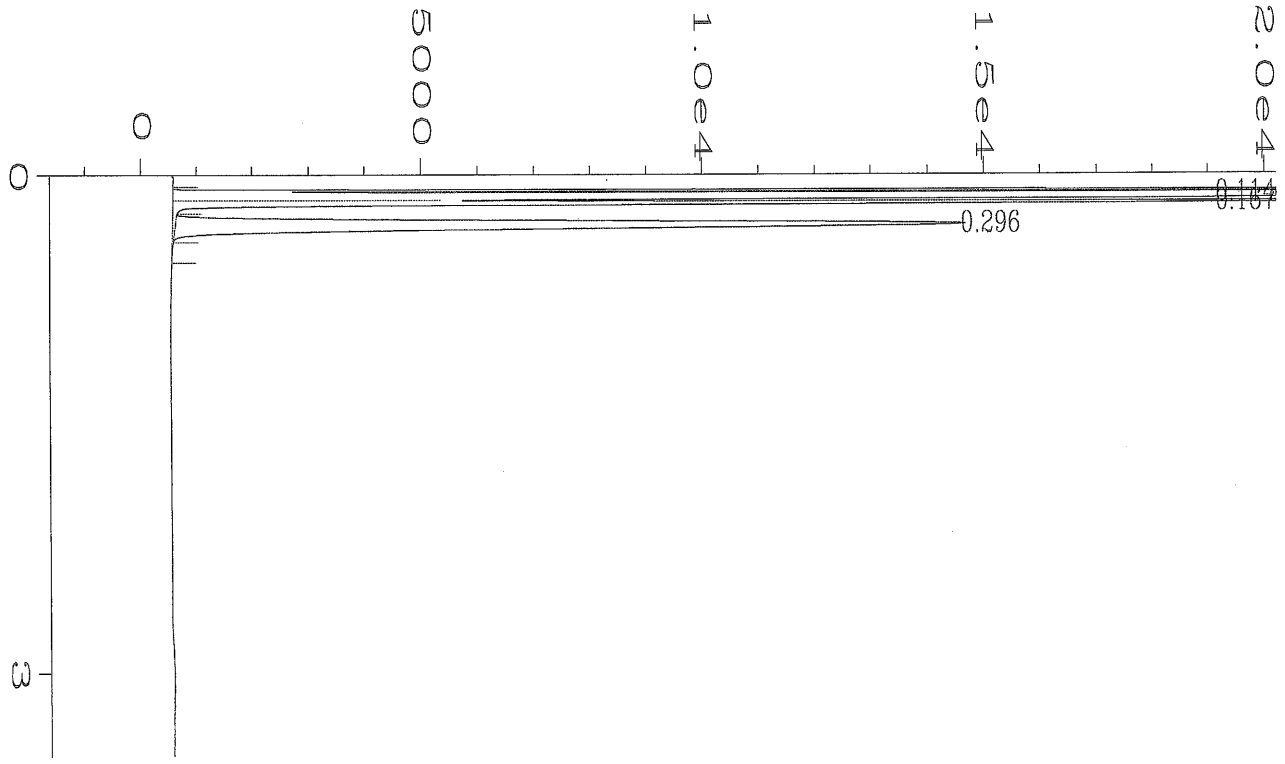

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\QC0324PA.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : ST61561
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 01:01 PM
Instrument Method: ASTM1946.MTH
Report Created on: 26 Mar 25 02:12 PM
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\QC0324PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.114	187185	153836	BH S	0.018	71.5101
2	0.167	30394	23053	HB S	0.022	11.6113
3	0.296	44182	14064	BV T	0.050	16.8787

Total area = 261760

==========

Continuing Calibration Data Package

Samples are analyzed in a Daily Analytical Batch (DAB) on an instrument. The DAB identifier is on each analytial report in the field called QC Batch. There will be one Continuing Calibration QC Batch report for each DAB in this SDG.

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CONTINUING CALIBRATION REPORT

ASTM D1945 GC/TCD

SDG: 225100
QC_Batch: **032425-GCO**
Sample Analysis Date: 03/24/25
Initial Calibration Date: 04/19/24

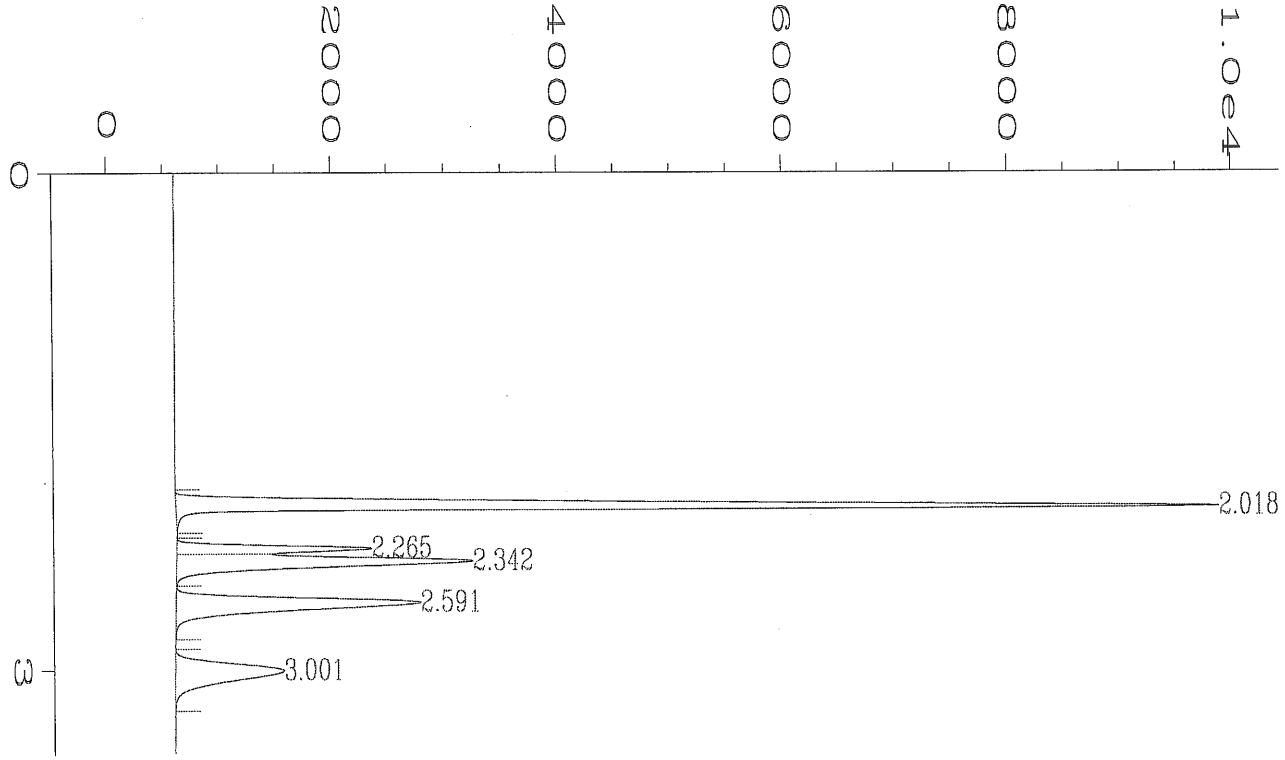
Sample Calculation:

1) $CCRRF = \frac{(Astdni)}{(Cstdni)}$

2) $Avg\ RFn = \frac{Sum\ (Astdni)}{(Cstdni)}$

Calibration Level Level 9

Compound	Area Astdi	Cal Level Cstdi %	CCRRF	RFn	%Dev	%Dev Limit	%Dev Flag
Hydrogen	136906	10.00	13691	15714	-13	20	IN
Oxygen	4795	2.49	1926	2305	-16	20	IN
Nitrogen	10848	4.84	2241	2491	-10	20	IN
Methane	6863	3.97	1729	1826	-5	20	IN
Carbon Monoxide	10830	5.15	2103	2268	-7	20	IN
Carbon Dioxide	20932	4.800	4361	5045	-14	20	IN



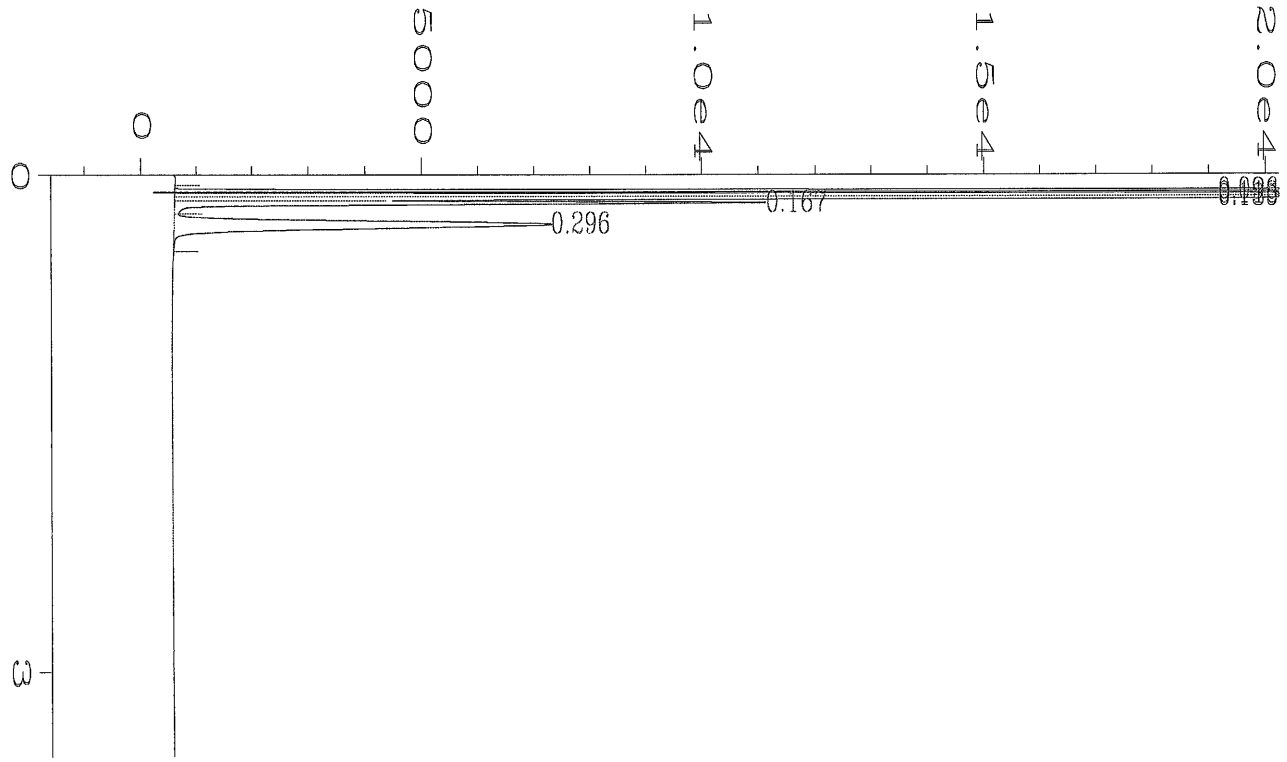
Area Percent Report

Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\C03245MA.D
Operator : DA
Instrument : GCL
Sample Name : ST63400
Run Time Bar Code:
Acquired on : 24 Mar 25 12:06 PM
Report Created on: 24 Mar 25 12:36 PM
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03245GCO\C03245MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	2.018	25604	9274	BB	0.041	43.4409
2	2.265	4795	1742	BV	0.042	8.1354
3	2.342	10848	2636	VV	0.063	18.4049
4	2.591	10830	2183	VB	0.077	18.3741
5	3.001	6863	975	BB	0.107	11.6447

Total area = 58941



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03245GCO\C03245PA.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : ST63400
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 24 Mar 25 12:06 PM
Instrument Method: ASTM1946.MTH
Report Created on: 24 Mar 25 12:36 PM
Analysis Method : DEFAULT.MTH

Sig. 2 in C:\GCCHEM\1\DATA\GCO\03245GCO\C03245PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.096	46777	74722	BV	0.010	29.7476
2	0.118	40942	47549	VV	0.014	26.0369
3	0.135	35984	40563	VV	0.015	22.8839
4	0.167	12611	10597	VV	0.018	8.0201
5	0.296	20932	6740	VB	0.049	13.3115

Total area = 157245

==========

Initial Calibration Data Packages

Samples were analyzed using the methods listed in Section 3. For each of the methods there is an Initial Calibration Curve that meets the criteria defined in Section 2 on Quality Control for the modified method.

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Response Factors
Quant Report

INITIAL CALIBRATION REPORT: Response Factors

Curve Date: 04/19/24
Analysis Date: 04/19/24

Sample Calculation:

$$1)\ \text{Avg RFn} = \text{Sum} \left| \frac{(\text{Astdni})}{(\text{Cstdni})} \right|_{i}$$

Response Factors

Compound	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRFn	%RSD
Hydrogen							19354	16464	11323	15714	25.89
Oxygen			2102	2032			2678	2378	2133	2305	12.49
Nitrogen			2201	2143			2945	2590	2285	2491	14.28
Methane						1800	1877	1851	1776	1826	2.53
Carbon Monoxide							2314	2275	2215	2268	2.20
Carbon Dioxide				4220	4904		5510	5371	5221	5045	10.18

INITIAL CALIBRATION REPORT

ASTM D1945 GC/TCD

Curve Date: 04/19/24
Analysis Date: 04/19/24

Calibration Amount CA, %

Compound	Level 1 Amt	Level 2 Amt	Level 3 50% AIR ST63413	Level 4 AIR ST63412	Level 5 25% CO2 ST63410	Level 6 25% CH4 ST63411	Level 7 ST63405	Level 8 ST36406	Level 9 ST63407
Hydrogen							5.00	10.00	20.00
Oxygen			10.77	21.54			0.62	1.25	2.49
Nitrogen			39.31	78.62			1.21	2.42	4.84
Methane						25	0.99	1.99	3.97
Carbon Monoxide							1.29	2.58	5.15
Carbon Dioxide				0.0410	25.00		1.20	2.40	4.80
Percentage of Pure Gas			50%	100%	25%	25%	25%	50%	100%

INITIAL CALIBRATION REPORT

ASTM D1945 GC/TCD

Curve Date: 04/19/24
Analysis: 01/00/00

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9
		C0419MG	C0419MF	C0419MD	C0419ME	C04164MA	C04164MC	C04164MF
						C04194MA	C04194MB	C04194MA
		ST63413	ST63412	ST63410	ST63411	ST63405	ST36406	ST63407
						ST63409	ST63408	ST63400
		22634	43767			96772	164636	226464
		86503	168513			1667	2961	5311
						3564	6267	11058
					45001	1863	3675	7052
						2980	5858	11409
			173	122598		6611	12888	25056

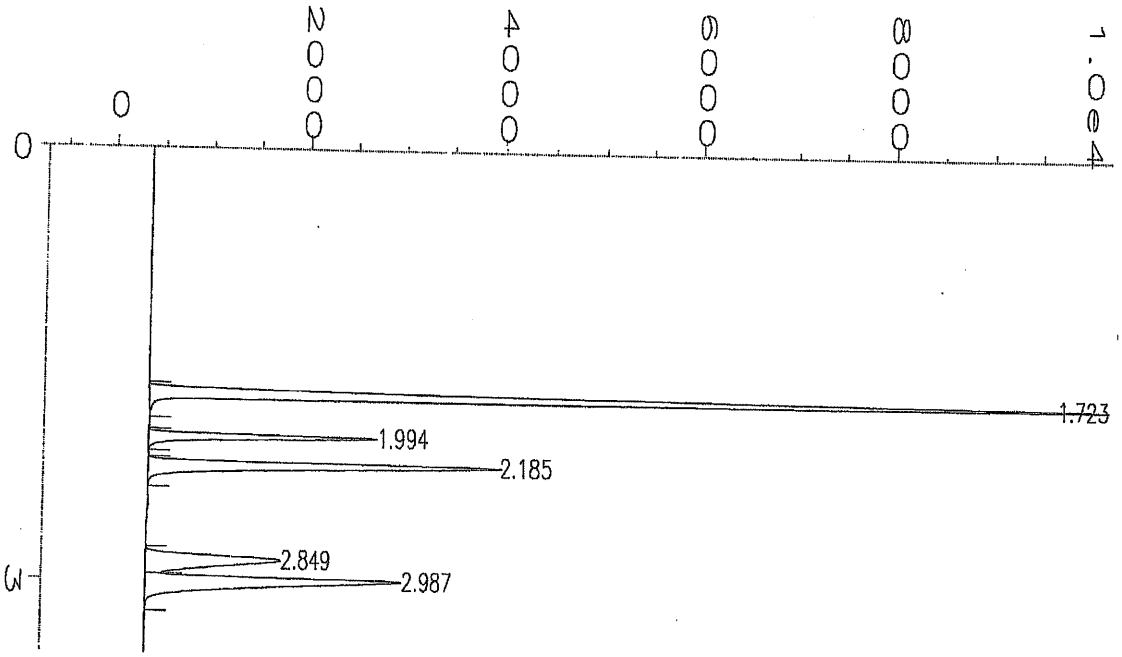
Daily Analytical Batch

DAB: 041924-GCO

GCO

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit:	Proc:
041924-GCO	01	GCO	STD			C04194A		ST63400	100% AIR STAN	0.5	DA		ASTM194			
041924-GCO	02	GCO	STD			C04194B		ST63408	50% AIR STAND	0.5	DA		ASTM194			
041924-GCO	03	GCO	STD			C04194C		ST63409	25% AIR STAND	0.5	DA		ASTM194			
041924-GCO	04	GCO	STD			C04194D		ST63410	25% CO2 STAND	0.5	DA		ASTM194			
041924-GCO	05	GCO	STD			C04194E		ST63411	25% CH4 STAND	0.5	DA		ASTM194			
041924-GCO	06	GCO	STD			C04194F		ST63412	100% ABT OUTD	0.5	DA		ASTM194			
041924-GCO	07	GCO	STD			C04194G		ST63413	50% ABT OUTD	0.5	DA		ASTM194			
041924-GCO	08	GCO	SPK			QC0419A		ST61561		0.5	DA		ASTM194			
041924-GCO	09	GCO	SPK			QC0419B		ST61561		0.5	DA		ASTM194			
041924-GCO	10	GCO	SPK			QC0419C		ST61561		0.5	DA		ASTM194			
041924-GCO	11	GCO	BLK			B04194A		METHOD BLANK		0.5	DA		ASTM194			
041924-GCO	12	GCO	BLK			B04194B		METHOD BLANK		0.5	DA		ASTM194			
041924-GCO	13	GCO	SA	224109	01	2410901A	688	T-101	SCHMIDT	0.5	DA		ASTM194			
041924-GCO	14	GCO	SA	224109	02	2410902A	695	T-102	SCHMIDT	0.5	DA		ASTM194			
041924-GCO	15	GCO	SA	224109	03	2410903A	644	T-103	SCHMIDT	0.5	DA		ASTM194			
041924-GCO	16	GCO	SA	224109	04	2410904A	634	T-104	SCHMIDT	0.5	DA		ASTM194			
041924-GCO	17	GCO	SA	224109	05	2410905A	182	T-105	SCHMIDT	0.5	DA		ASTM194			
041924-GCO	18	GCO	SA	224109	06	2410906A	529	T-106	SCHMIDT	0.5	DA		ASTM194			
041924-GCO	19	GCO	SA	224109	07	2410907A	690	T-107	SCHMIDT	0.5	DA		ASTM194			

REVIEWED



Area Percent Report

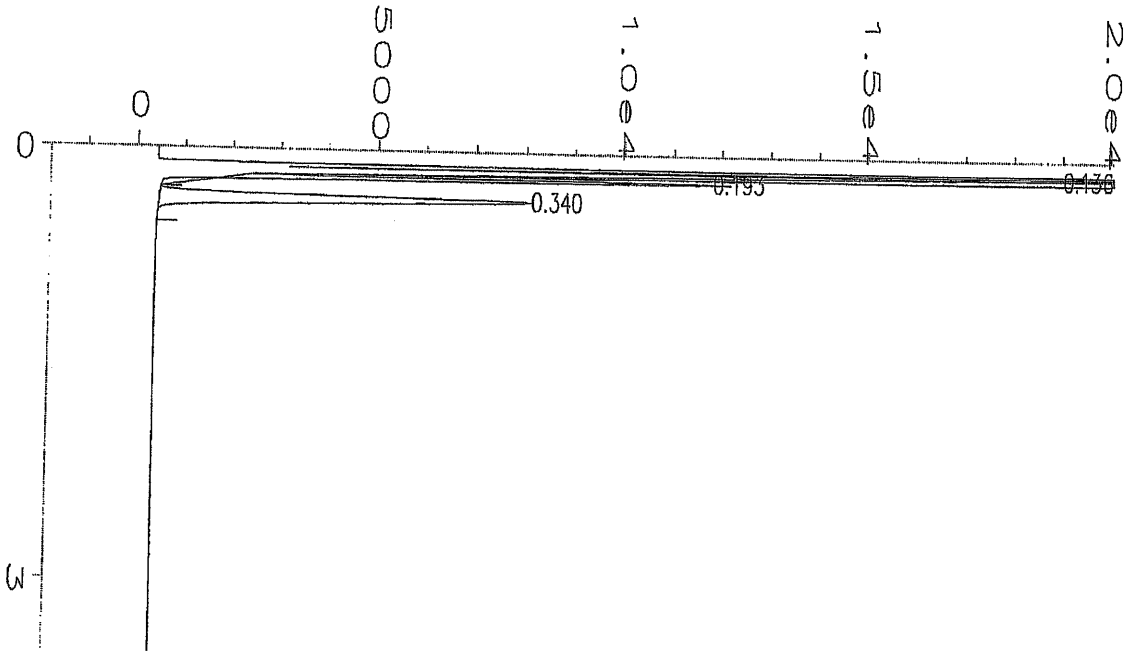
Data File Name : C:\GCCHEM\1\DATA\04194GCO\C04194MA.D
Operator : DA
Instrument : GCL
Sample Name : ST63400
Run Time Bar Code:
Acquired on : 19 Apr 24 10:44 AM
Report Created on: 19 Apr 24 10:48 AM
Sample Info : 100% AIR STANDARD

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : ASTM1946.MTH

Sig. 1 in C:\GCCHEM\1\DATA\04194GCO\C04194MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	1.723	24400	10140	BB	0.033	41.1957
2	1.994	5311	2378	BB	0.034	8.9664
3	2.185	11058	3655	BB	0.046	18.6702
4	2.849	7052	1398	BV	0.078	11.9057
5	2.987	11409	2652	VB	0.061	19.2620

Total area = 59229



Area Percent Report

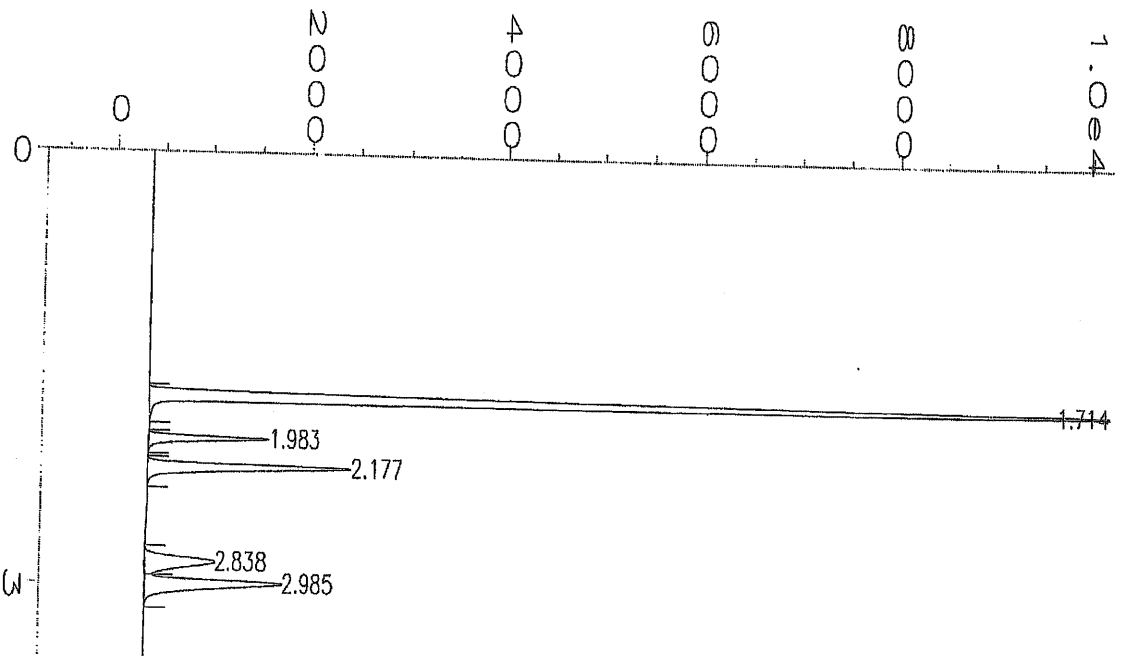
Data File Name : C:\GCCHEM\1\DATA\04194GCO\C04193PA.D
Operator : DA
Instrument : GCL
Sample Name : ST63400
Run Time Bar Code:
Acquired on : 19 Apr 24 10:44 AM
Report Created on: 19 Apr 24 10:48 AM
Sample Info : 100% AIR STANDARD

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : ASTM1946.MTH

Sig. 2 in C:\GCCHEM\1\DATA\04194GCO\C04193PA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.136	42246	35257	BV	0.020	54.8804
2	0.193	9677	10210	PV	0.016	12.5706
3	0.340	25056	7646	PB	0.052	32.5490

Total area = 76979



Area Percent Report

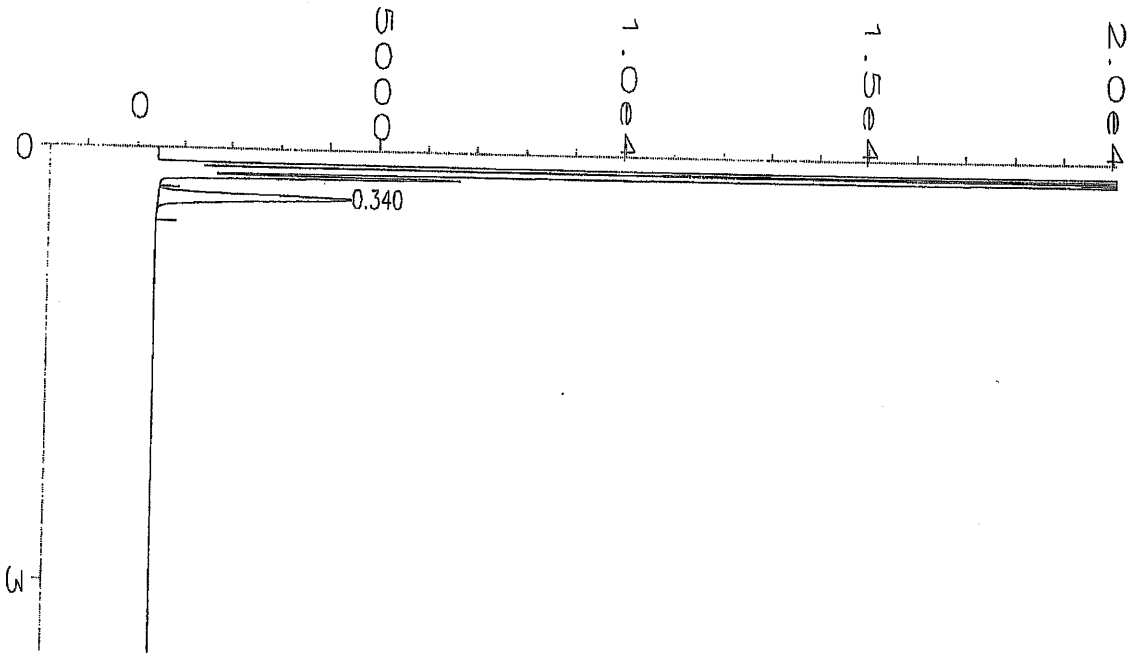
Data File Name : C:\GCCHEM\1\DATA\04194GCO\C04194MB.D
Operator : DA
Instrument : GCL
Sample Name : ST63408
Run Time Bar Code:
Acquired on : 19 Apr 24 11:10 AM
Report Created on: 19 Apr 24 11:13 AM
Sample Info : 50% AIR STANDARD

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : ASTM1946.MTH

Sig. 1 in C:\GCCHEM\1\DATA\04194GCO\C04194MB.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	1.714	28769	11349	BB	0.034	60.5287
2	1.983	2961	1250	BB	0.037	6.2294
3	2.177	6267	2087	BB	0.046	13.1849
4	2.838	3675	739	BV	0.078	7.7317
5	2.985	5858	1421	VB	0.062	12.3253

Total area = 47530



Area Percent Report

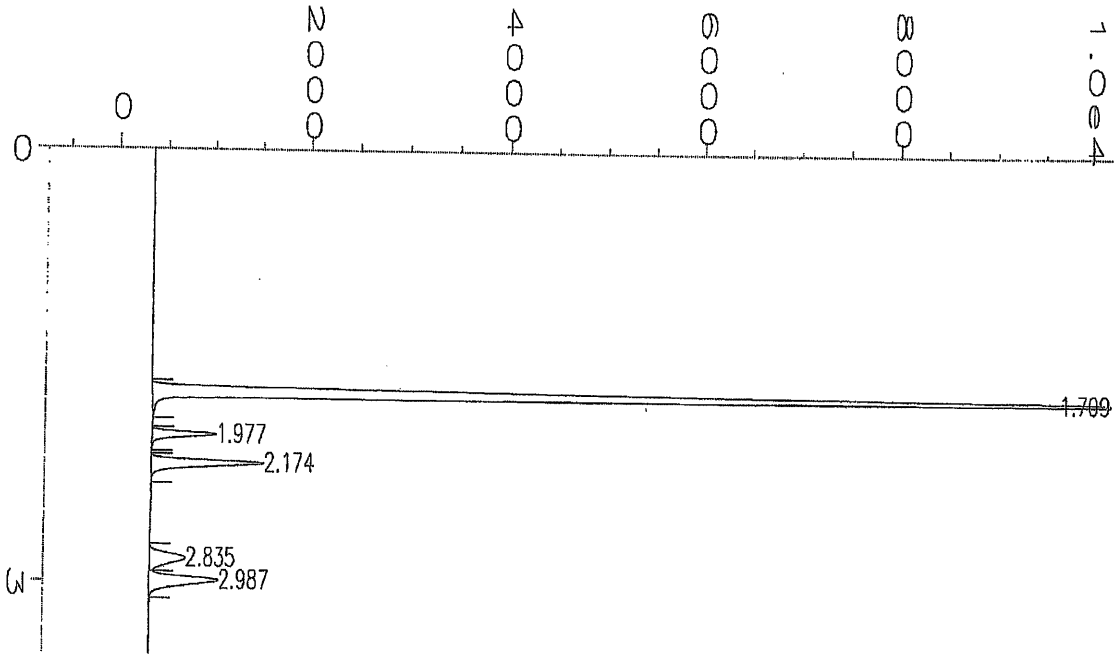
Data File Name : C:\GCCHEM\1\DATA\04194GCO\C04193PB.D
Operator : DA
Instrument : GCL
Sample Name : ST63408
Run Time Bar Code:
Acquired on : 19 Apr 24 11:10 AM
Report Created on: 19 Apr 24 11:13 AM
Sample Info : 50% AIR STANDARD

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : ASTM1946.MTH

Sig. 2 in C:\GCCHEM\1\DATA\04194GCO\C04193PB.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.340	12888	4000	PB	0.051	100.0000

Total area = 12888



Area Percent Report

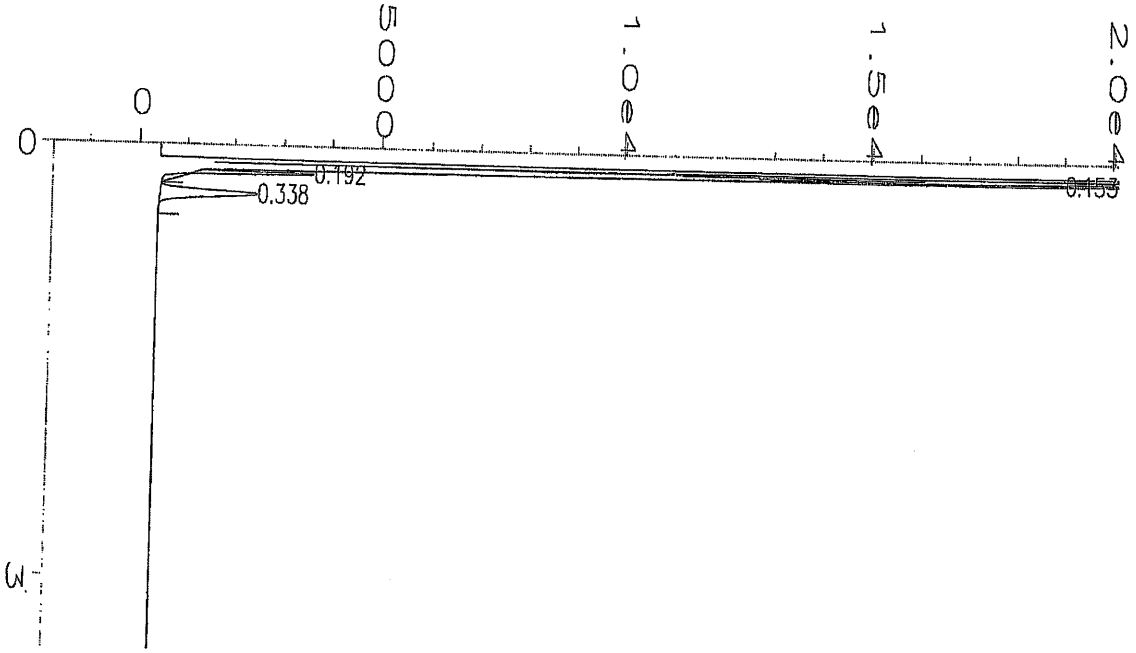
Data File Name : C:\GCCHEM\1\DATA\04194GCO\C04194MC.D
Operator : DA
Instrument : GCL
Sample Name : ST63409
Run Time Bar Code:
Acquired on : 19 Apr 24 11:19 AM
Report Created on: 19 Apr 24 11:23 AM
Sample Info : 25% AIR STANDARD

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : ASTM1946.MTH

Sig. 1 in C:\GCCHEM\1\DATA\04194GCO\C04194MC.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	1.709	31044	12190	BB	0.035	75.5005
2	1.977	1667	676	BB	0.038	4.0536
3	2.174	3564	1183	BB	0.046	8.6666
4	2.835	1863	379	BV	0.078	4.5318
5	2.987	2980	732	VB	0.063	7.2475

Total area = 41118



Area Percent Report

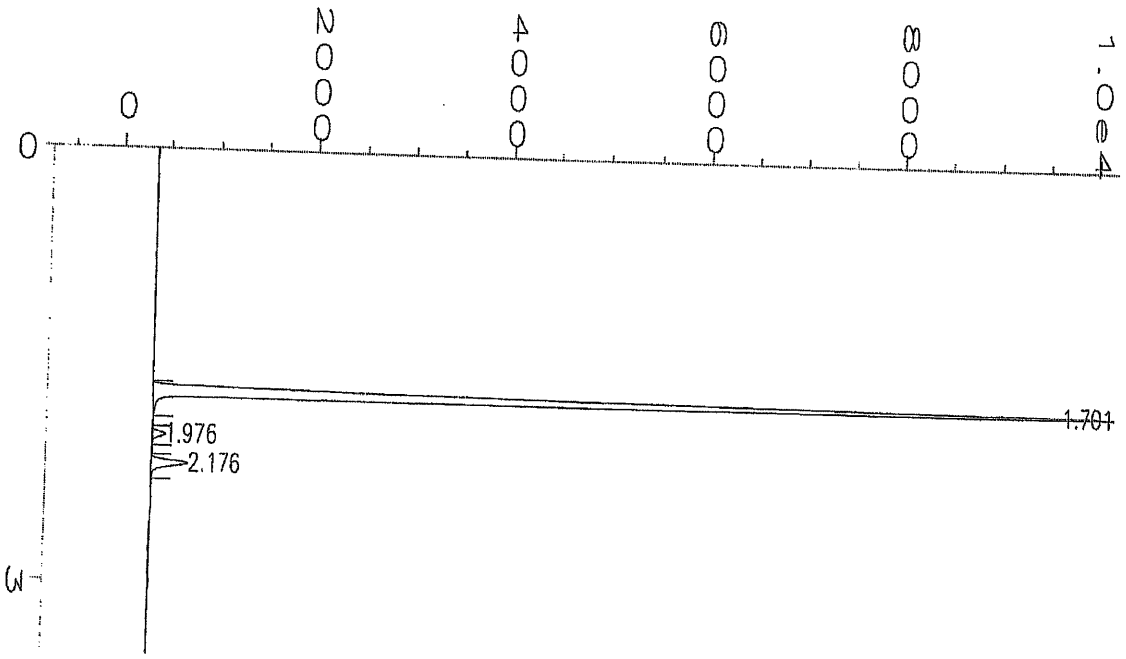
Data File Name : C:\GCCHEM\1\DATA\04194GCO\C04193PC.D
Operator : DA
Instrument : GCL
Sample Name : ST63409
Run Time Bar Code:
Acquired on : 19 Apr 24 11:19 AM
Report Created on: 19 Apr 24 11:23 AM
Sample Info : 25% AIR STANDARD

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : ASTM1946.MTH

Sig. 2 in C:\GCCHEM\1\DATA\04194GCO\C04193PC.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.153	4247	9820	BV	0.007	33.8261
2	0.192	1696	2499	PV	0.013	13.5099
3	0.338	6611	2040	PB	0.051	52.6640

Total area = 12554



Area Percent Report

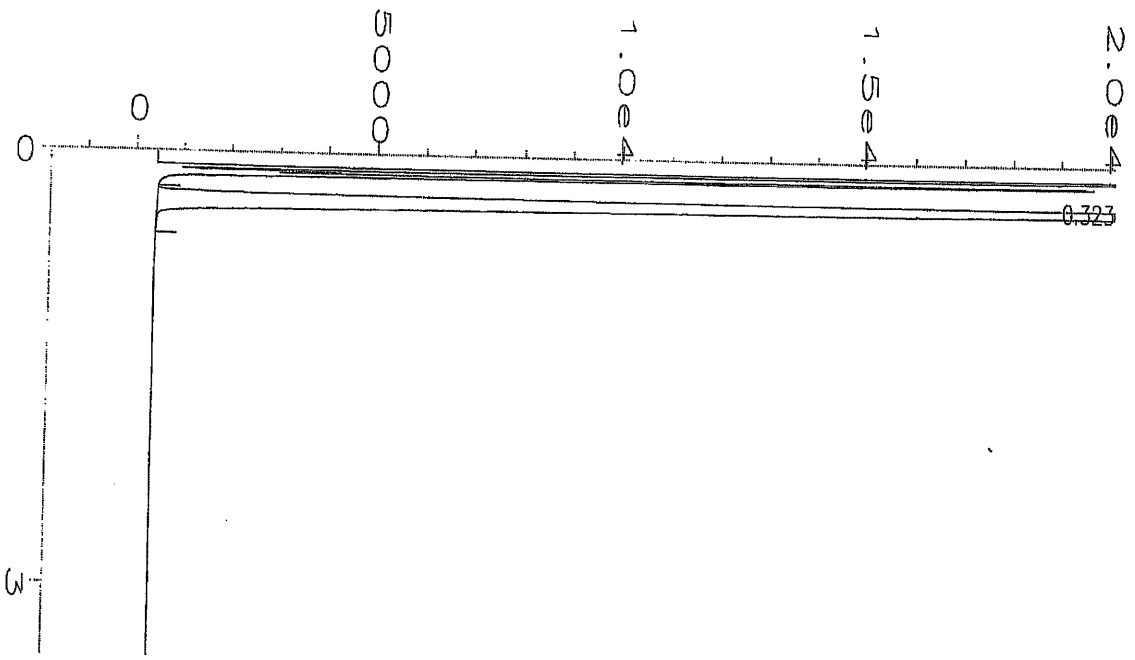
Data File Name : C:\GCCHEM\1\DATA\04194GCO\C04194MD.D
Operator : DA
Instrument : GCL
Sample Name : ST63410
Run Time Bar Code:
Acquired on : 19 Apr 24 11:32 AM
Report Created on: 19 Apr 24 11:35 AM
Sample Info : 25% CARBON DIOXIDE STANDARD

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : ASTM1946.MTH

Sig. 1 in C:\GCCHEM\1\DATA\04194GCO\C04194MD.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	1.701	24456	10392	BB	0.032	94.1480
2	1.976	353	147	BB	0.037	1.3601
3	2.176	1167	396	BB	0.045	4.4919

Total area = 25976



Area Percent Report

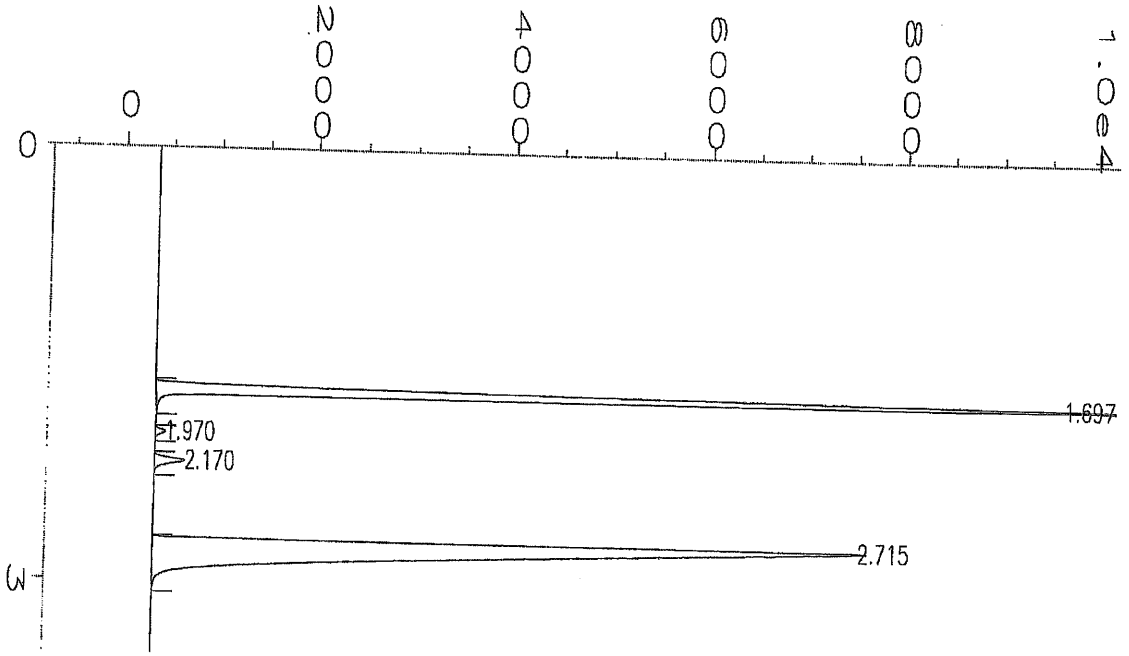
Data File Name : C:\GCCHEM\1\DATA\04194GCO\C04193PD.D
Operator : DA
Instrument : GCL
Sample Name : ST63410
Run Time Bar Code:
Acquired on : 19 Apr 24 11:32 AM
Report Created on: 19 Apr 24 11:35 AM
Sample Info : 25% CARBON DIOXIDE STANDARD

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : ASTM1946.MTH

Sig. 2 in C:\GCCHEM\1\DATA\04194GCO\C04193PD.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.323	122598	33880	PB	0.057	100.0000

Total area = 122598



Area Percent Report

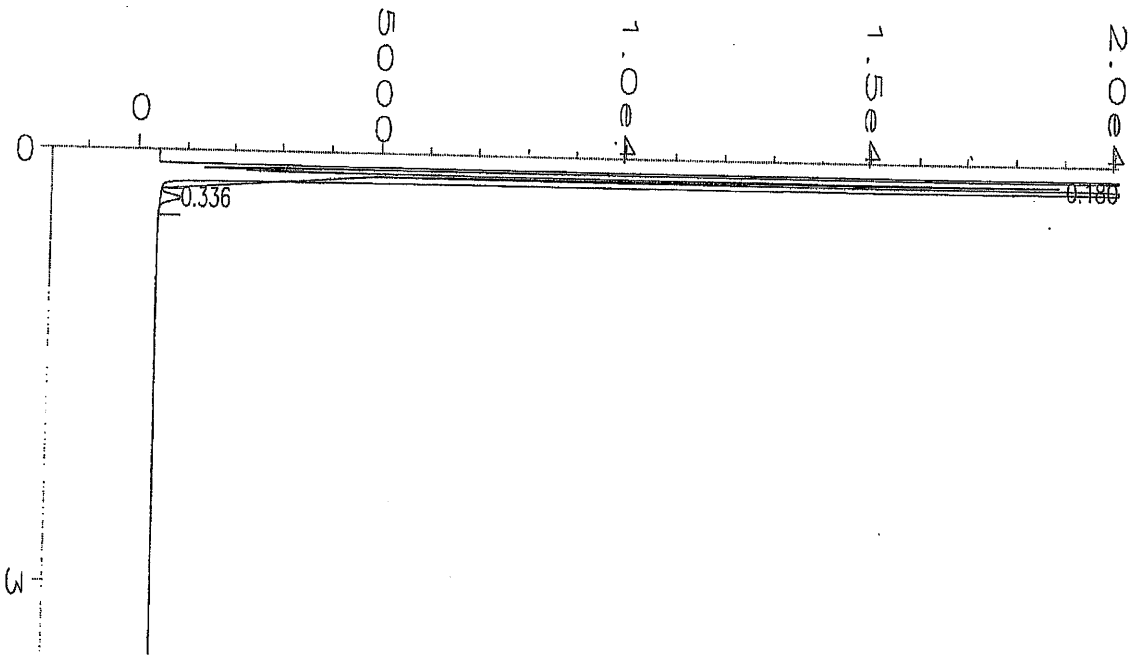
Data File Name : C:\GCCHEM\1\DATA\04194GCO\C04194ME.D
Operator : DA
Instrument : GCL
Sample Name : ST63411
Run Time Bar Code:
Acquired on : 19 Apr 24 11:41 AM
Report Created on: 19 Apr 24 11:45 AM
Sample Info : 25% METHANE STANDARD

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : ASTM1946.MTH

Sig. 1 in C:\GCCHEM\1\DATA\04194GCO\C04194ME.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	1.697	24784	10514	BB	0.032	34.9554
2	1.970	226	99.7	BB	0.036	0.3189
3	2.170	890	314	BB	0.044	1.2550
4	2.715	45001	7288	BB	0.084	63.4708

Total area = 70901



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\04194GCO\C04193PE.D
Operator : DA
Instrument : GCL
Sample Name : ST63411
Run Time Bar Code:
Acquired on : 19 Apr 24 11:41 AM
Report Created on: 19 Apr 24 11:45 AM
Sample Info : 25% METHANE STANDARD

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : ASTM1946.MTH

Sig. 2 in C:\GCCHEM\1\DATA\04194GCO\C04193PE.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.180	67099	53887	PV	0.020	98.1615
2	0.336	1257	406	PB	0.049	1.8385

Total area = 68356

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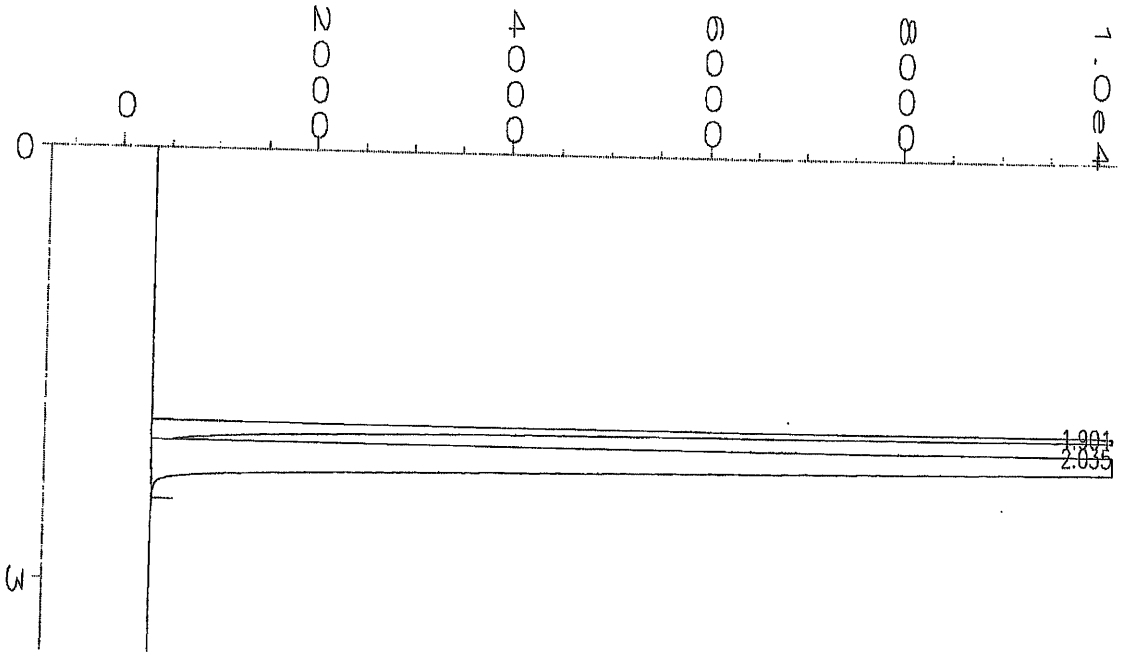


Area Percent Report

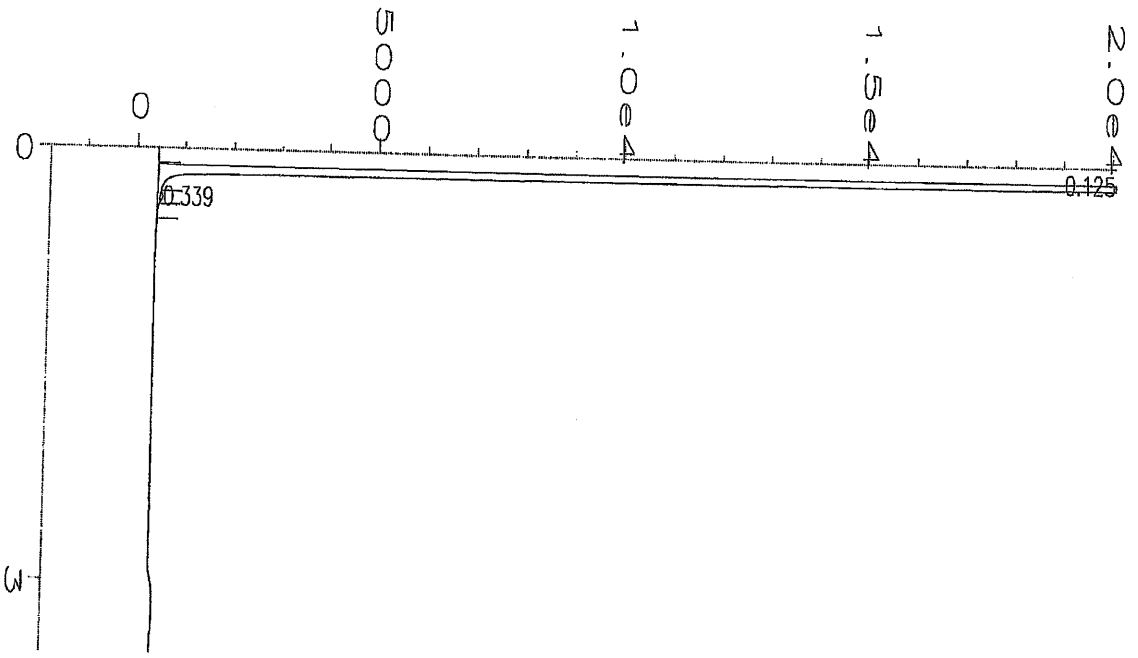
Data File Name : C:\GCCHEM\1\DATA\04194GCO\C04194MF.D
Operator : DA
Instrument : GCL
Sample Name : ST63412
Run Time Bar Code:
Acquired on : 19 Apr 24 11:48 AM
Report Created on: 19 Apr 24 11:52 AM
Sample Info : 100% AMBIENT OUTDOOR AIR SYRINGE DRAW

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : ASTM1946.MTH

Sig. 1 in C:\GCCHEM\1\DATA\04194GCO\C04194MF.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	1.901	43767	20120	BV	0.034	20.6177
2	2.035	168513	26583	VB	0.083	79.3823

Total area = 212280



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\04194GCO\C04193PF.D
Operator : DA
Instrument : GCL
Sample Name : ST63412
Run Time Bar Code:
Acquired on : 19 Apr 24 11:48 AM
Report Created on: 19 Apr 24 11:52 AM
Sample Info : 100% AMBIENT OUTDOOR AIR SYRINGE DRAW

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : ASTM1946.MTH

Sig. 2 in C:\GCCHEM\1\DATA\04194GCO\C04193PF.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.125	324997	280549	BB S	0.018	99.9469
2	0.339	173	65	BB T	0.040	0.0531

Total area = 325170

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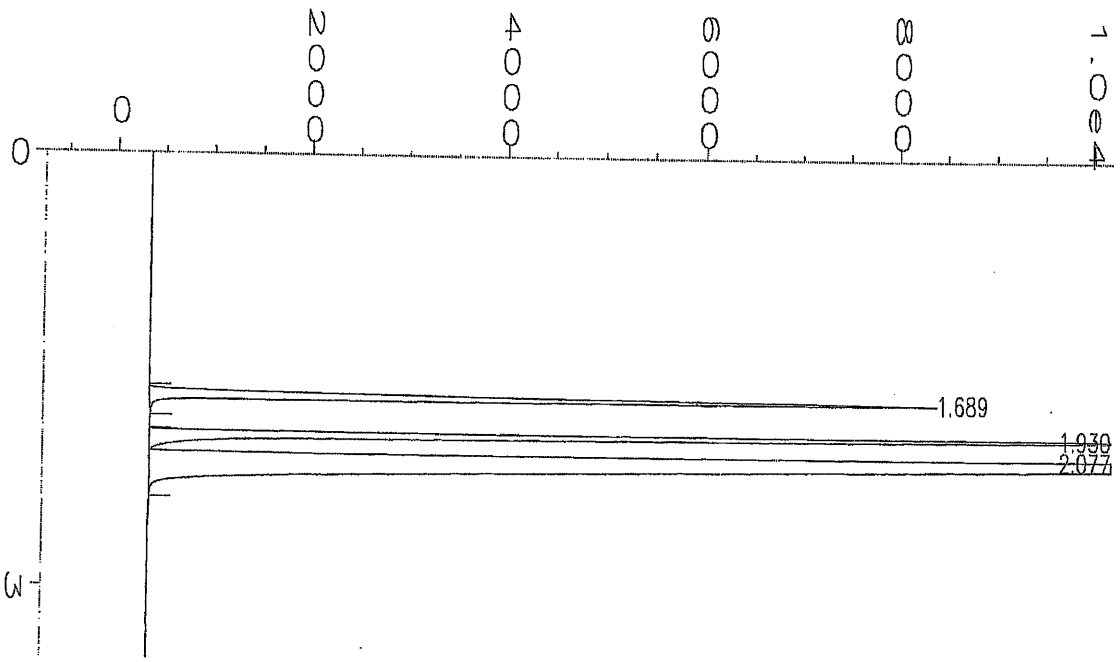


Area Percent Report

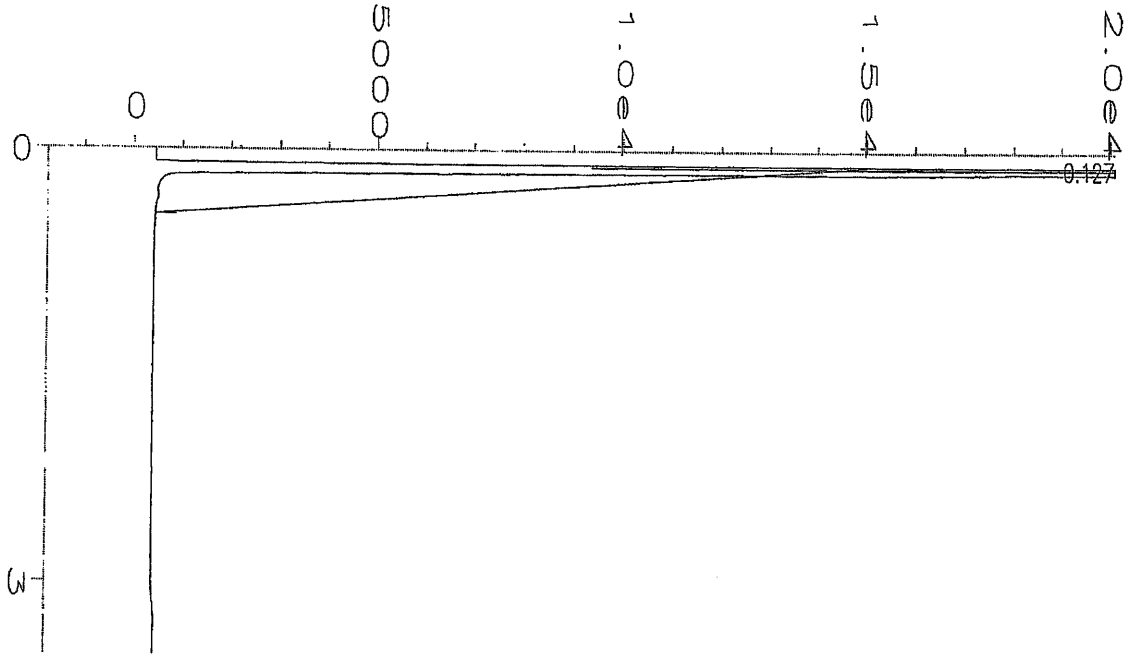
Data File Name : C:\GCCHEM\1\DATA\04194GCO\C04194MG.D
Operator : DA
Instrument : GCL
Sample Name : ST63413
Run Time Bar Code:
Acquired on : 19 Apr 24 11:53 AM
Report Created on: 19 Apr 24 11:56 AM
Sample Info : 50% AMBIENT OUTDOOR AIR SYRINGE DRAW

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : ASTM1946.MTH

Sig. 1 in C:\GCCHEM\1\DATA\04194GCO\C04194MG.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	1.689	16462	8161	BB	0.041	13.1067
2	1.930	22634	11332	BV	0.033	18.0212
3	2.077	86503	17985	VB	0.063	68.8721

Total area = 125599



Area Percent Report

Data File Name : C:\GCCHEM\1\DATA\04194GCO\C04193PG.D
Operator : DA
Instrument : GCL
Sample Name : ST63413
Run Time Bar Code:
Acquired on : 19 Apr 24 11:53 AM
Report Created on: 19 Apr 24 11:56 AM
Sample Info : 50% AMBIENT OUTDOOR AIR SYRINGE DRAW

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: ASTM1946.MTH
Analysis Method : ASTM1946.MTH

Sig. 2 in C:\GCCHEM\1\DATA\04194GCO\C04193PG.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.127	59088	158805	BB S	0.008	100.0000

Total area = 59088

INITIAL CALIBRATION REPORT: Response Factors

Curve Date: 04/15/24
Analysis Date: 04/15/24

Sample Calculation:

1) Avg RFn = Sum $\left| \frac{(Astdni)}{(Cstdni)} \right|_i$

Response Factors

Compound	RF1	RF2	RF3	AvgRFn	%RSD
Helium	14249	14144	12255	13549	8.28

INITIAL CALIBRATION REPORT

ASTM D 1945 GC/TCD

Curve Date: 04/15/24
Analysis Date: 04/15/24

	Calibration Amount CA, %						Calibration Response, Area					
	Level 1	Level 2	Level 3	Level 4	Level 5	Level6	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
SYRINGE %	5.0%	10%	20%				C004154A	C004154C	C004154E			
Compound							ST63401	ST63402	ST63403			
Helium	5.00	10.00	20.00				71247	141438	245094			

Section 5 Standard Calibration Certificates

This section contains the Standard Calibration Certificates for the Standards and Internal Standards.

Section Contents

Standard Calibration Certificates

Airgas
an Air Liquide company

Airgas Specialty Gases
Airgas USA LLC
6141 Easton Road
Plumsteadville, PA 18949
Airgas.com

ST63400

CERTIFICATE OF ANALYSIS

Grade of Product: CERTIFIED STANDARD-SPEC

Customer:	ENV ANALYTICAL SVCS		
Part Number:	X07HE74CP14C000	Reference Number:	160-403006142-1
Cylinder Number:	ST0000232990	Cylinder Volume:	14.0 LG
Laboratory:	124 - Plumsteadville - PA	Cylinder Pressure:	240 PSIG
Analysis Date:	Mar 26, 2024	Valve Outlet:	160
Lot Number:	160-403006142-1		

Expiration Date: Mar 26, 2027

Product composition verified by direct comparison to calibration standards traceable to N.I.S.T. weights and/or N.I.S.T. Gas Mixture reference materials.

ANALYTICAL RESULTS

Component	Req Conc	Actual Concentration (Mole %)	Analytical Uncertainty
OXYGEN	2.500 %	2.490 %	+/- 2%
HYDROGEN	4.000 %	4.124 %	+/- 2%
METHANE	4.000 %	3.970 %	+/- 2%
CARBON DIOXIDE	5.000 %	4.799 %	+/- 2%
CARBON MONOXIDE	5.000 %	5.151 %	+/- 2%
NITROGEN	5.000 %	4.840 %	+/- 2%
HELIUM	Balance		

Notes:RESTEK P/N 34543

Paul Lee

Approved for Release

Page 1 of 1

Daily Analytical Batch

DAB: 041524-GCO

GCO

Also 041624-GCO

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit:	Proc:
041524-GCO	39	GCO	SA	224109	31	2410931A	886	T-213	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	40	GCO	SA	224109	32	2410932A	556	T-214	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	41	GCO	SA	224109	33	2410933A	896	T-301	SCHMIDT	0.5	SS		AST1946H			
041524-GCO	42	GCO	SA	224109	34	2410934A	726	T-302	SCHMIDT	0.5	SS		AST1946H			
041524-GCO	43	GCO	SA	224109	35	2410935A	636	T-303	SCHMIDT	0.5	SS		AST1946H			
041524-GCO	44	GCO	SA	224109	36	2410936A	764	T-304	SCHMIDT	0.5	SS		AST1946H			
041524-GCO	45	GCO	SA	224109	37	2410937A	442	T-305	SCHMIDT	0.5	SS		AST1946H			
041524-GCO	46	GCO	SA	224109	38	2410938A	436	T-306	SCHMIDT	0.5	SS		AST1946H			
041524-GCO	47	GCO	SA	224109	39	2410939A	446	T-307	SCHMIDT	0.5	SS		AST1946H			
041524-GCO	48	GCO	SA	224109	40	2410940A	444	T-308	SCHMIDT	0.5	SS		AST1946H			
041524-GCO	49	GCO	SA	224109	41	2410941A	433	T-309	SCHMIDT	0.5	SS		AST1946H			
041524-GCO	50	GCO	SA	224109	42	2410942A	815	T-310	SCHMIDT	0.5	SS		AST1946H			
041524-GCO	51	GCO	SA	224109	43	2410943A	829	T-311	SCHMIDT	0.5	SS		AST1946H			
041524-GCO	52	GCO	SA	224109	44	2410944A	439	T-312	SCHMIDT	0.5	SS		AST1946H			
041524-GCO	53	GCO	SA	224109	45	2410945A	445	T-313	SCHMIDT	0.5	SS		AST1946H			
041524-GCO	54	GCO	SA	224109	46	2410946A	820	T-314	SCHMIDT	0.5	SS		AST1946H			
041524-GCO	56	GCO	STD			C04164A		ST63405	5% Hydrogen	0.5	DA		AST1946H			
041524-GCO	57	GCO	STD			C04164B		ST63405	5% Hydrogen	0.5	DA		AST1946H			
041524-GCO	58	GCO	STD			C04164C		ST63406	10% Hydrogen	0.5	DA		AST1946H			

REVIEWED

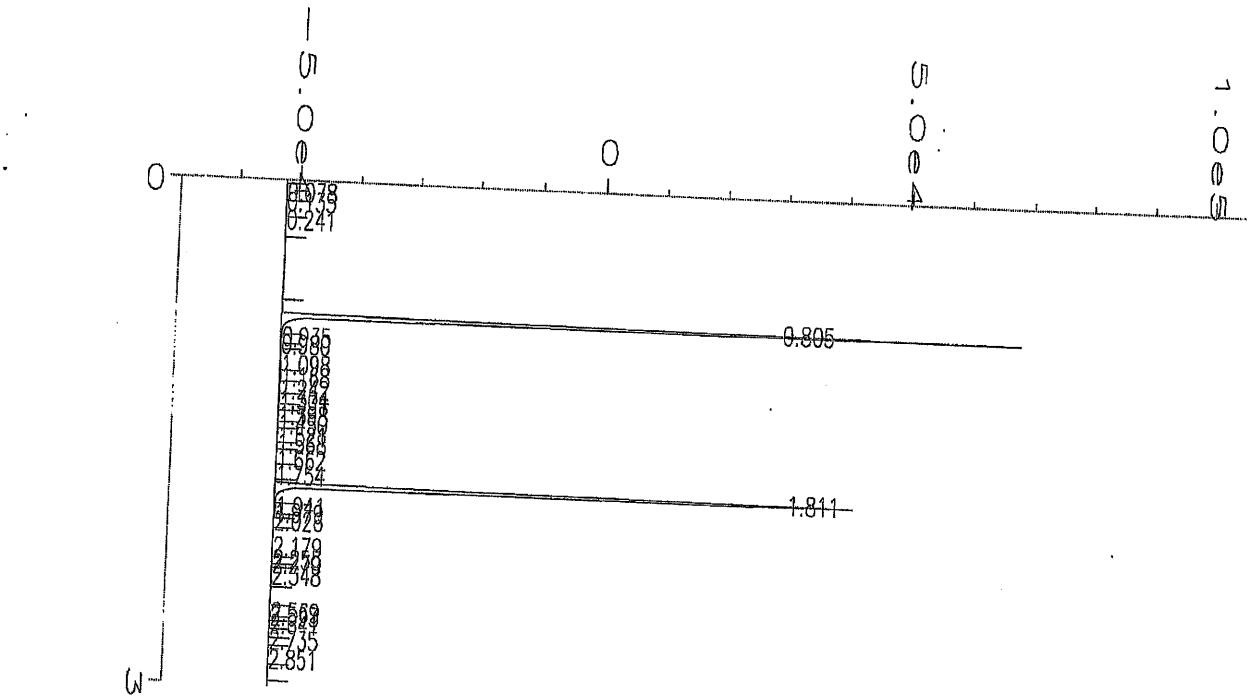
Daily Analytical Batch

DAB: 041524-GCO

GCO

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit:	Proc:
041524-GCO	59	GCO	STD			C04164D		ST63406	10% Hydrogen	0.5	DA		AST1946H			
041524-GCO	60	GCO	STD			C04164E		ST63407	20% Hydrogen	0.5	DA		AST1946H			
041524-GCO	61	GCO	STD			C04164F		ST63407	20% Hydrogen	0.5	DA		AST1946H			

REVIEWED



Area Percent Report

Data File Name : C:\GCCHEM\1\DATA\04164GCO\C04164MA.D
Operator : DA
Instrument : GCL
Sample Name : ST63405
Run Time Bar Code:
Acquired on : 16 Apr 24 02:05 PM
Report Created on: 16 Apr 24 02:08 PM
Sample Info : 5% HYDROGEN

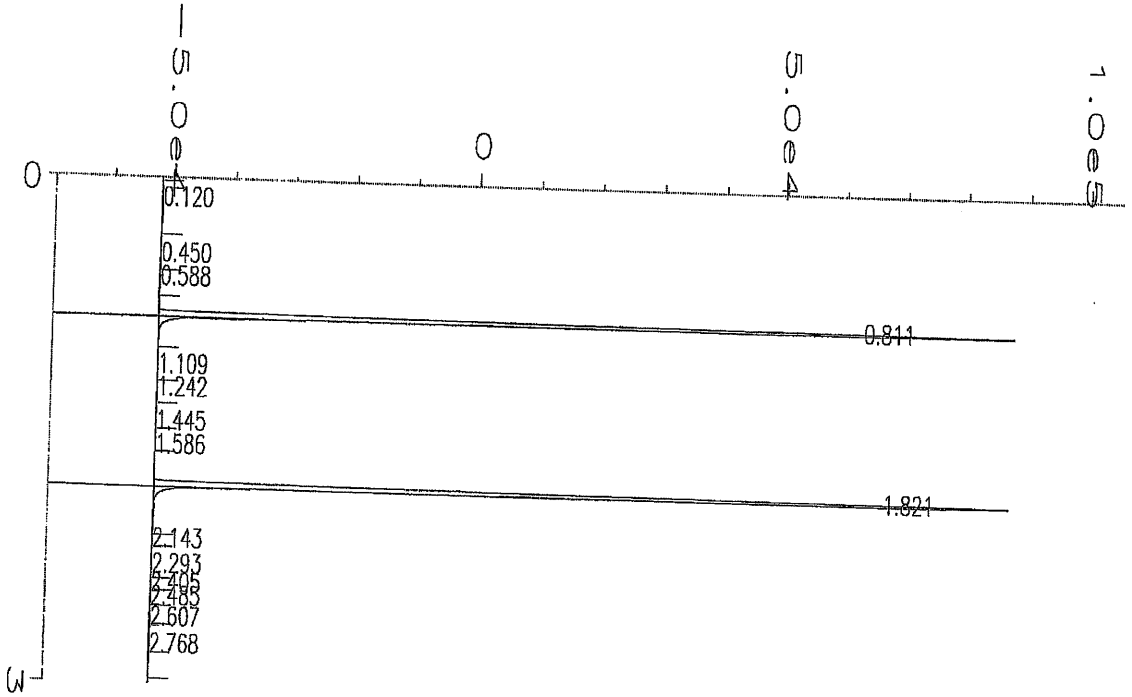
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : AST1946H.MTH

Sig. 1 in C:\GCCHEM\1\DATA\04164GCO\C04164MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.078	596	146	BV	0.058	0.2835
2	0.135	679	134	VV	0.084	0.3231
3	0.241	757	140	VV	0.079	0.3603
4	0.805	105403	126959	HH S	0.048	50.1579
5	0.935	156	86	BV T	0.030	0.0741
6	0.980	24	27	VV T	0.015	0.0113
7	1.098	548	148	PV T	0.052	0.2609
8	1.168	568	173	VV T	0.054	0.2704
9	1.242	492	122	VV T	0.067	0.2342
10	1.304	402	129	VV T	0.052	0.1913
11	1.331	208	102	VV T	0.034	0.0989
12	1.398	325	109	VV T	0.049	0.1546
13	1.450	182	93	VV T	0.029	0.0865

14	1.521	302	85	VV T	0.050	0.1438
15	1.568	116	70	VV T	0.028	0.0551
16	1.662	212	59	VV T	0.060	0.1008
17	1.754	65	38	VV T	0.028	0.0309
18	1.811	96772	84336	HBAS	0.019	46.0504
19	1.941	238	156	BV T	0.025	0.1134
20	1.979	22	13	VV T	0.028	0.0107
21	2.026	90	43	PV T	0.034	0.0430
22	2.179	552	79	PV T	0.116	0.2627
23	2.255	166	80	VV T	0.034	0.0790
24	2.279	72	72	VV T	0.017	0.0344
25	2.348	470	101	VV T	0.073	0.2237
26	2.569	229	139	PV T	0.027	0.1088
27	2.593	75	67	VV T	0.019	0.0359
28	2.641	156	77	PV T	0.034	0.0745
29	2.735	117	67	VV T	0.029	0.0555
30	2.851	148	37	VV T	0.066	0.0704

Total area = 210143



Area Percent Report

Data File Name : C:\GCCHEM\1\DATA\04164GCO\C04164MC.D
Operator : DA
Instrument : GCL
Sample Name : ST63406
Run Time Bar Code:
Acquired on : 16 Apr 24 02:17 PM
Report Created on: 16 Apr 24 02:20 PM
Sample Info : 10% HYDROGEN

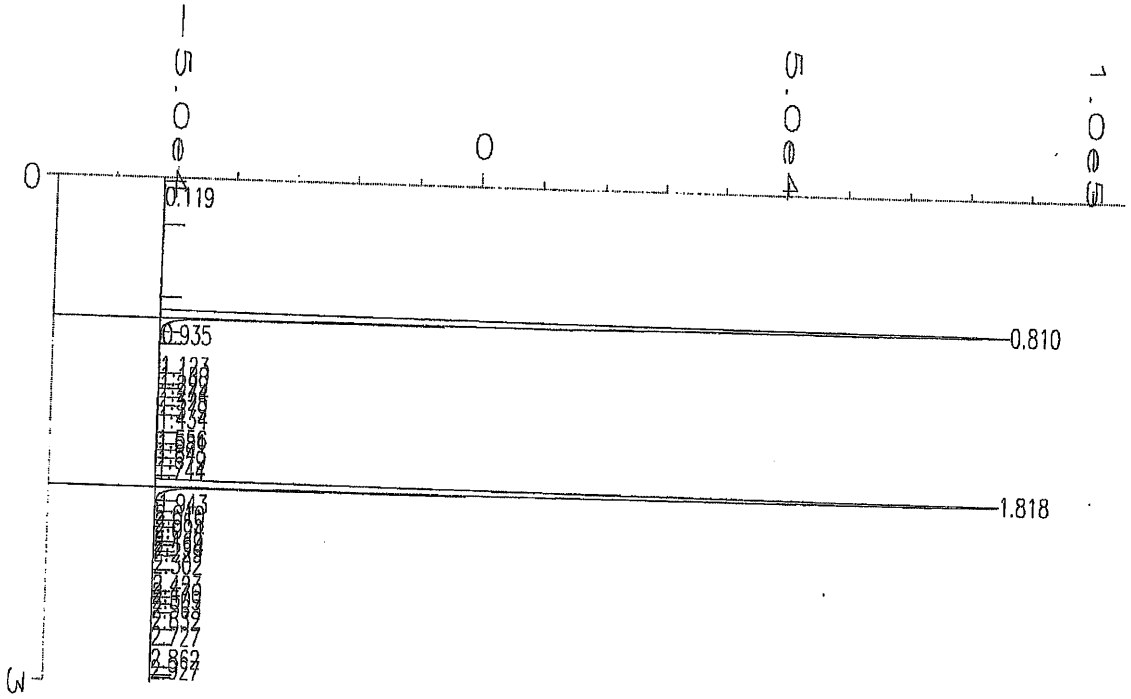
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : AST1946H.MTH

Sig. 1 in C:\GCCHEM\1\DATA\04164GCO\C04164MC.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.120	2277	158	BV	0.204	0.6864
2	0.450	1390	144	VV	0.149	0.4188
3	0.588	999.5	233	VV	0.072	0.3012
4	0.811	158108	120939	HH S	0.022	47.6500
5	1.109	1239	162	BV T	0.099	0.3734
6	1.242	796	140	VV T	0.095	0.2398
7	1.445	375	86	VV T	0.072	0.1129
8	1.586	324	67	PV T	0.081	0.0975
9	1.821	164636	132911	HBAS	0.054	49.6172
10	2.143	45	31	BV T	0.024	0.0134
11	2.293	614	114	PV T	0.090	0.1849
12	2.405	172	62	VV T	0.046	0.0519
13	2.485	234	67	VV T	0.059	0.0706

14	2.607	308	91	PV T	0.056	0.0928
15	2.768	296	72	VV T	0.078	0.0893

Total area = 331812



Area Percent Report

Data File Name : C:\GCCHEM\1\DATA\04164GCO\C04164MF.D
Operator : DA
Instrument : GCL
Sample Name : ST63407
Run Time Bar Code:
Acquired on : 16 Apr 24 02:35 PM
Report Created on: 16 Apr 24 02:38 PM
Sample Info : 20% HYDROGEN

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : AST1946H.MTH

Sig. 1 in C:\GCCHEM\1\DATA\04164GCO\C04164MF.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.119	971	115	BV	0.128	0.2085
2	0.810	231486	139018	HH S	0.058	49.7098
3	0.935	321	198	BV T	0.027	0.0690
4	1.123	722	122	PV T	0.088	0.1550
5	1.180	429	129	VV T	0.055	0.0921
6	1.229	143	110	VV T	0.022	0.0306
7	1.274	313	101	VV T	0.052	0.0672
8	1.325	311	108	VV T	0.045	0.0667
9	1.379	323	88	VV T	0.061	0.0694
10	1.434	670	105	VV T	0.093	0.1439
11	1.556	568	120	VV T	0.079	0.1221
12	1.581	333	170	VV T	0.033	0.0716
13	1.643	373	121	VV T	0.044	0.0801

14	1.668	546	224	VV T	0.040	0.1211
15	1.817	223535	138921	HBAS	0.027	49.5740
16	2.020	57	44	BV T	0.022	0.0127
17	2.069	17	28	PV T	0.010	0.0038
18	2.209	244	64	PV T	0.064	0.0542
19	2.249	87	35	VV T	0.041	0.0194
20	2.335	193	63	VV T	0.051	0.0429
21	2.359	131	43	VV T	0.051	0.0291
22	2.461	173	59	VV T	0.040	0.0383
23	2.579	230	62	VV T	0.067	0.0510
24	2.747	248	54	VV T	0.062	0.0550
25	2.793	29	28	PV T	0.017	0.0064

Total area = 450912

14	1.679	306	151	VV T	0.034	0.0658
15	1.744	99	46	PV T	0.035	0.0214
16	1.818	226464	138042	HBAS	0.027	48.6313
17	1.943	567	354	BV T	0.027	0.1217
18	2.010	20	4	PV T	0.082	0.0043
19	2.055	52	24	PV T	0.037	0.0111
20	2.094	154	53	VV T	0.049	0.0330
21	2.169	45	50	VV T	0.015	0.0096
22	2.194	50	27	VV T	0.030	0.0106
23	2.229	26	44	PV T	0.010	0.0055
24	2.302	98	38	VV T	0.043	0.0210
25	2.423	88	32	PV T	0.043	0.0190
26	2.470	56	54	VV T	0.017	0.0119
27	2.509	54	29	VV T	0.031	0.0116
28	2.563	59	42	PV T	0.023	0.0126
29	2.632	146	52	PV T	0.050	0.0315
30	2.727	111	46	VV T	0.045	0.0237
31	2.862	272	76	PV T	0.060	0.0584
32	2.927	47	23	PV T	0.034	0.0100

Total area = 465675

Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 01

File Name: 225100
Description T-101
Canister: 668
QC_Batch: 040325-MA1

Date Sampled: 3/19/2025 **Time:** 08:40
Date Analyzed: 4/3/2025 **Time:** 17:20
Can Dilution Factor: 1.20
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.80	6.00	ND	11.47	24.57	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
1) The identity of the compound is determined by a match to a computer library.
2) Many compounds have similar mass spectra so the actual compound can be different from the one reported
3) Hydrocarbons especially have similar mass spectra so it is difficult to determine which hydrocarbon is present
4) If there is not a good computer match, a type of compound may be indicated or it may be called "Unknown"
5) The Amount of the compound is calculated against an Internal Standard, so the reported Amounts are approximate.
6) The conversion from ppbv to ug/m3 is done assuming an average molecular weight of 100 since the identity of the compound is often not known with certainty.

Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 02

File Name 225100
Descriptio T-102
Canister: 895
QC_Batch 033125-MA1

Date Sampled: 3/19/2025 **Time:** 08:50
Date Analyzed: 3/31/2025 **Time:** 15:11
Can Dilution Factor: 1.24
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.89	6.20	ND	11.85	25.39	ND

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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 03

File Name: 225100
Description T-103
Canister: 881
QC_Batch: 033125-MA1

Date Sampled: 3/19/2025 **Time:** 08:44
Date Analyzed: 3/31/2025 **Time:** 15:48
Can Dilution Factor: 1.20
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.80	6.00	ND	11.47	24.57	ND

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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 04

File Name: 225100
Description T-104
Canister: 860
QC_Batch: 033125-MA1

Date Sampled: 3/19/2025 **Time:** 08:37
Date Analyzed: 3/31/2025 **Time:** 16:34
Can Dilution Factor: 1.31
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	3.06	6.55	ND	12.52	26.83	ND

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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 05

File Name: 225100
Description T-105
Canister: 685
QC_Batch: 033125-MA1

Date Sampled: 3/19/2025 **Time:** 10:16
Date Analyzed: 3/31/2025 **Time:** 17:14
Can Dilution Factor: 1.23
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.87	6.15	ND	11.75	25.19	ND

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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 06

File Name: 225100
Description: T-106
Canister: 621
QC_Batch: 033125-MA1

Date Sampled: 3/19/2025 **Time:** 10:22
Date Analyzed: 3/31/2025 **Time:** 17:56
Can Dilution Factor: 1.23
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.87	6.15	ND	11.75	25.19	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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6) The conversion from ppbv to ug/m3 is done assuming an average molecular weight of 100 since the identity of the compound is often not known with certainty.

Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 07

File Name: 225100
Description T-107
Canister: 644
QC_Batch: 033125-MA1

Date Sampled: 3/19/2025 **Time:** 10:22
Date Analyzed: 3/31/2025 **Time:** 18:34
Can Dilution Factor: 1.23
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.87	6.15	ND	11.75	25.19	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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3) Hydrocarbons especially have similar mass spectra so it is difficult to determine which hydrocarbon is present
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5) The Amount of the compound is calculated against an Internal Standard, so the reported Amounts are approximate.
6) The conversion from ppbv to ug/m3 is done assuming an average molecular weight of 100 since the identity of the compound is often not known with certainty.

Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 08

File Name: 225100
Description T-108
Canister: 556
QC_Batch: 040425-MA1

Date Sampled: 3/19/2025 **Time:** 10:30
Date Analyzed: 4/4/2025 **Time:** 12:29
Can Dilution Factor: 1.26
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.94	6.30	ND	12.04	25.80	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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2) Many compounds have similar mass spectra so the actual compound can be different from the one reported
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5) The Amount of the compound is calculated against an Internal Standard, so the reported Amounts are approximate.
6) The conversion from ppbv to ug/m3 is done assuming an average molecular weight of 100 since the identity of the compound is often not known with certainty.

Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 09

File Name: 225100
Description T-109
Canister: 694
QC_Batch: 040125-MA1

Date Sampled: 3/19/2025 **Time:** 11:25
Date Analyzed: 4/1/2025 **Time:** 14:57
Can Dilution Factor: 1.30
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	3.03	6.50	ND	12.42	26.62	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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3) Hydrocarbons especially have similar mass spectra so it is difficult to determine which hydrocarbon is present
4) If there is not a good computer match, a type of compound may be indicated or it may be called "Unknown"
5) The Amount of the compound is calculated against an Internal Standard, so the reported Amounts are approximate.
6) The conversion from ppbv to ug/m3 is done assuming an average molecular weight of 100 since the identity of the compound is often not known with certainty.

Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 10

File Name: 225100
Description T-110
Canister: 857
QC_Batch: 033125-MA1

Date Sampled: 3/19/2025 **Time:** 11:32
Date Analyzed: 3/31/2025 **Time:** 19:15
Can Dilution Factor: 1.27
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.96	6.35	ND	12.14	26.01	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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3) Hydrocarbons especially have similar mass spectra so it is difficult to determine which hydrocarbon is present
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5) The Amount of the compound is calculated against an Internal Standard, so the reported Amounts are approximate.
6) The conversion from ppbv to ug/m3 is done assuming an average molecular weight of 100 since the identity of the compound is often not known with certainty.

Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 11

File Name: 225100
Description T-111
Canister: 504
QC_Batch: 033125-MA1

Date Sampled: 3/19/2025 **Time:** 11:32
Date Analyzed: 3/31/2025 **Time:** 19:53
Can Dilution Factor: 1.25
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.92	6.25	ND	11.95	25.60	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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3) Hydrocarbons especially have similar mass spectra so it is difficult to determine which hydrocarbon is present
4) If there is not a good computer match, a type of compound may be indicated or it may be called "Unknown"
5) The Amount of the compound is calculated against an Internal Standard, so the reported Amounts are approximate.
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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 12

File Name: 225100
Description T-112
Canister: 631
QC_Batch: 033125-MA1

Date Sampled: 3/19/2025 **Time:** 11:38
Date Analyzed: 3/31/2025 **Time:** 20:31
Can Dilution Factor: 1.24
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.89	6.20	ND	11.85	25.39	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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3) Hydrocarbons especially have similar mass spectra so it is difficult to determine which hydrocarbon is present
4) If there is not a good computer match, a type of compound may be indicated or it may be called "Unknown"
5) The Amount of the compound is calculated against an Internal Standard, so the reported Amounts are approximate.
6) The conversion from ppbv to ug/m3 is done assuming an average molecular weight of 100 since the identity of the compound is often not known with certainty.

Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 13

File Name: 225100
Description T-113
Canister: 690
QC_Batch: 040125-MA1

Date Sampled: 3/19/2025 **Time:** 13:05
Date Analyzed: 4/1/2025 **Time:** 13:05
Can Dilution Factor: 1.23
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.87	6.15	ND	11.75	25.19	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 14

File Name: 225100
Description T-114
Canister: 645
QC_Batch: 040125-MA1

Date Sampled: 3/19/2025 **Time:** 13:11
Date Analyzed: 4/1/2025 **Time:** 13:43
Can Dilution Factor: 1.27
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.96	6.35	ND	12.14	26.01	ND

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6) The conversion from ppbv to ug/m3 is done assuming an average molecular weight of 100 since the identity of the compound is often not known with certainty.

Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 15

File Name: 225100
Description T-115
Canister: 654
QC_Batch: 040125-MA1

Date Sampled: 3/19/2025 **Time:** 12:53
Date Analyzed: 4/1/2025 **Time:** 14:20
Can Dilution Factor: 1.27
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.96	6.35	ND	12.14	26.01	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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6) The conversion from ppbv to ug/m3 is done assuming an average molecular weight of 100 since the identity of the compound is often not known with certainty.

Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 16

File Name: 225100
Description T-116
Canister: 782
QC_Batch: 040125-MA1

Date Sampled: 3/19/2025 **Time:** 13:03
Date Analyzed: 4/1/2025 **Time:** 15:34
Can Dilution Factor: 1.48
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	3.45	7.40	ND	14.14	30.31	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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6) The conversion from ppbv to ug/m3 is done assuming an average molecular weight of 100 since the identity of the compound is often not known with certainty.

Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 17

File Name: 225100
Description T-117
Canister: 643
QC_Batch: 040125-MA1

Date Sampled: 3/19/2025 **Time:** 13:03
Date Analyzed: 4/1/2025 **Time:** 16:12
Can Dilution Factor: 1.25
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.92	6.25	ND	11.95	25.60	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 18

File Name: 225100
Description T-118
Canister: 553
QC_Batch: 033125-MA1

Date Sampled: 3/19/2025 **Time:** 13:25
Date Analyzed: 3/31/2025 **Time:** 12:32
Can Dilution Factor: 1.14
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.66	5.70	ND	10.89	23.34	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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6) The conversion from ppbv to ug/m3 is done assuming an average molecular weight of 100 since the identity of the compound is often not known with certainty.

Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 19

File Name: 225100
Description T-201
Canister: 726
QC_Batch: 040125-MA1

Date Sampled: 3/20/2025 **Time:** 08:23
Date Analyzed: 4/1/2025 **Time:** 13:08
Can Dilution Factor: 1.21
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.82	6.05	ND	11.56	24.78	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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3) Hydrocarbons especially have similar mass spectra so it is difficult to determine which hydrocarbon is present
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6) The conversion from ppbv to ug/m3 is done assuming an average molecular weight of 100 since the identity of the compound is often not known with certainty.

Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 20

File Name: 225100
Description T-202
Canister: 883
QC_Batch: 040125-MA1

Date Sampled: 3/20/2025 **Time:** 08:38
Date Analyzed: 4/1/2025 **Time:** 17:51
Can Dilution Factor: 1.18
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.75	5.90	ND	11.28	24.16	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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3) Hydrocarbons especially have similar mass spectra so it is difficult to determine which hydrocarbon is present
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6) The conversion from ppbv to ug/m3 is done assuming an average molecular weight of 100 since the identity of the compound is often not known with certainty.

Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 21

File Name: 225100
Description T-203
Canister: 858
QC_Batch: 040325-MA1

Date Sampled: 3/20/2025 **Time:** 08:33
Date Analyzed: 4/3/2025 **Time:** 18:21
Can Dilution Factor: 1.20
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.80	6.00	ND	11.47	24.57	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 22

File Name: 225100
Description T-204
Canister: 758
QC_Batch: 040125-MA1

Date Sampled: 3/20/2025 **Time:** 08:29
Date Analyzed: 4/1/2025 **Time:** 19:45
Can Dilution Factor: 1.18
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.75	5.90	ND	11.28	24.16	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 23

File Name: 225100
Description T-205
Canister: 659
QC_Batch: 040125-MA1

Date Sampled: 3/20/2025 **Time:** 10:00
Date Analyzed: 4/1/2025 **Time:** 19:07
Can Dilution Factor: 1.27
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.96	6.35	ND	12.14	26.01	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 24

File Name: 225100
Description T-206
Canister: 882
QC_Batch: 040325-MA1

Date Sampled: 3/20/2025 **Time:** 09:55
Date Analyzed: 4/3/2025 **Time:** 19:02
Can Dilution Factor: 1.24
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.89	6.20	ND	11.85	25.39	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 25

File Name: 225100
Description T-207
Canister: 627
QC_Batch: 040125-MA1

Date Sampled: 3/20/2025 **Time:** 10:05
Date Analyzed: 4/1/2025 **Time:** 20:22
Can Dilution Factor: 1.31
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	3.06	6.55	ND	12.52	26.83	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 26

File Name: 225100
Description T-208
Canister: 791
QC_Batch: 040125-MA1

Date Sampled: 3/20/2025 **Time:** 10:08
Date Analyzed: 4/1/2025 **Time:** 21:00
Can Dilution Factor: 1.26
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.94	6.30	ND	12.04	25.80	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 27

File Name: 225100
Description T-209
Canister: 682
QC_Batch: 040125-MA1

Date Sampled: 3/20/2025 **Time:** 11:21
Date Analyzed: 4/1/2025 **Time:** 21:37
Can Dilution Factor: 1.30
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	3.03	6.50	ND	12.42	26.62	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 28

File Name: 225100
Description T-210
Canister: 714
QC_Batch: 040225-MA1

Date Sampled: 3/20/2025 **Time:** 11:21
Date Analyzed: 4/2/2025 **Time:** 11:47
Can Dilution Factor: 1.27
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.96	6.35	ND	12.14	26.01	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 29

File Name: 225100
Description T-211
Canister: 629
QC_Batch: 040225-MA1

Date Sampled: 3/20/2025 **Time:** 11:26
Date Analyzed: 4/2/2025 **Time:** 12:24
Can Dilution Factor: 1.29
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	3.01	6.45	ND	12.33	26.42	ND

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3) Hydrocarbons especially have similar mass spectra so it is difficult to determine which hydrocarbon is present
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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 30

File Name: 225100
Description T-212
Canister: 502
QC_Batch: 040225-MA1

Date Sampled: 3/20/2025 **Time:** 11:30
Date Analyzed: 4/2/2025 **Time:** 13:02
Can Dilution Factor: 1.35
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	3.15	6.75	ND	12.90	27.64	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
1) The identity of the compound is determined by a match to a computer library.
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3) Hydrocarbons especially have similar mass spectra so it is difficult to determine which hydrocarbon is present
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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 31

File Name: 225100
Description T-213
Canister: 712
QC_Batch: 040225-MA1

Date Sampled: 3/20/2025 **Time:** 11:30
Date Analyzed: 4/2/2025 **Time:** 13:39
Can Dilution Factor: 1.33
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	3.10	6.65	ND	12.71	27.24	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
1) The identity of the compound is determined by a match to a computer library.
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3) Hydrocarbons especially have similar mass spectra so it is difficult to determine which hydrocarbon is present
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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 32

File Name: 225100
Description T-214
Canister: 610
QC_Batch: 033125-MA1

Date Sampled: 3/20/2025 **Time:** 12:57
Date Analyzed: 3/31/2025 **Time:** 13:08
Can Dilution Factor: 1.11
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.59	5.55	ND	10.61	22.73	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
1) The identity of the compound is determined by a match to a computer library.
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3) Hydrocarbons especially have similar mass spectra so it is difficult to determine which hydrocarbon is present
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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 33

File Name: 225100
Description T-215
Canister: 751
QC_Batch: 040225-MA1

Date Sampled: 3/20/2025 **Time:** 12:44
Date Analyzed: 4/2/2025 **Time:** 12:44
Can Dilution Factor: 1.29
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	3.01	6.45	ND	12.33	26.42	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
1) The identity of the compound is determined by a match to a computer library.
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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 34

File Name: 225100
Description T-216
Canister: 896
QC_Batch: 040225-MA1

Date Sampled: 3/20/2025 **Time:** 12:46
Date Analyzed: 4/2/2025 **Time:** 14:54
Can Dilution Factor: 1.38
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	3.22	6.90	ND	13.19	28.26	ND

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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 35

File Name: 225100
Description T-217
Canister: 634
QC_Batch: 040325-MA1

Date Sampled: 3/20/2025 **Time:** 12:48
Date Analyzed: 4/3/2025 **Time:** 21:41
Can Dilution Factor: 1.27
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.96	6.35	ND	12.14	26.01	ND

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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 36

File Name: 225100
Description T-218
Canister: 698
QC_Batch: 040225-MA1

Date Sampled: 3/20/2025 **Time:** 12:42
Date Analyzed: 4/2/2025 **Time:** 15:31
Can Dilution Factor: 1.27
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.96	6.35	ND	12.14	26.01	ND

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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 37

File Name: 225100
Description T-301
Canister: 638
QC_Batch: 040225-MA1

Date Sampled: 3/21/2025 **Time:** 07:58
Date Analyzed: 4/2/2025 **Time:** 16:09
Can Dilution Factor: 1.19
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.78	5.95	ND	11.37	24.37	ND

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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 38

File Name: 225100
Description T-302
Canister: 857
QC_Batch: 040225-MA1

Date Sampled: 3/21/2025 **Time:** 08:04
Date Analyzed: 4/2/2025 **Time:** 17:01
Can Dilution Factor: 1.19
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.78	5.95	ND	11.37	24.37	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 39

File Name: 225100
Description T-303
Canister: 552
QC_Batch: 040225-MA1

Date Sampled: 3/21/2025 **Time:** 08:05
Date Analyzed: 4/2/2025 **Time:** 17:40
Can Dilution Factor: 1.21
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.82	6.05	ND	11.56	24.78	ND

Tentatively Identified Compounds are Identified by a Computer Match and Semi-Quantitated against an Internal Standard
1) The identity of the compound is determined by a match to a computer library.
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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 40

File Name: 225100
Description T-304
Canister: 529
QC_Batch: 040325-MA1

Date Sampled: 3/21/2025 **Time:** 07:58
Date Analyzed: 4/3/2025 **Time:** 20:18
Can Dilution Factor: 1.21
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.82	6.05	ND	11.56	24.78	ND

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1) The identity of the compound is determined by a match to a computer library.
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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 41

File Name: 225100
Description T-305
Canister: 660
QC_Batch: 040325-MA1

Date Sampled: 3/21/2025 **Time:** 09:22
Date Analyzed: 4/3/2025 **Time:** 21:09
Can Dilution Factor: 1.25
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.92	6.25	ND	11.95	25.60	ND

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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 42

File Name: 225100
Description T-306
Canister: 859
QC_Batch: 040225-MA1

Date Sampled: 3/21/2025 **Time:** 09:13
Date Analyzed: 4/2/2025 **Time:** 18:29
Can Dilution Factor: 1.21
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.82	6.05	ND	11.56	24.78	ND

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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 43

File Name: 225100
Description T-307
Canister: 636
QC_Batch: 040225-MA1

Date Sampled: 3/21/2025 **Time:** 09:10
Date Analyzed: 4/2/2025 **Time:** 19:16
Can Dilution Factor: 1.22
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.85	6.10	ND	11.66	24.98	ND

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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 44

File Name: 225100
Description T-308
Canister: 661
QC_Batch: 040225-MA1

Date Sampled: 3/21/2025 **Time:** 09:18
Date Analyzed: 4/2/2025 **Time:** 21:18
Can Dilution Factor: 1.22
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.85	6.10	ND	11.66	24.98	ND

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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 45

File Name: 225100
Description T-309
Canister: 579
QC_Batch: 040325-MA1

Date Sampled: 3/21/2025 **Time:** 09:24
Date Analyzed: 4/3/2025 **Time:** 13:27
Can Dilution Factor: 1.21
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.82	6.05	ND	11.56	24.78	ND

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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 46

File Name: 225100
Description: T-310
Canister: 771
QC_Batch: 033125-MA1

Date Sampled: 3/21/2025 **Time:** 10:48
Date Analyzed: 3/31/2025 **Time:** 14:34
Can Dilution Factor: 1.29
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	3.01	6.45	ND	12.33	26.42	ND

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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 47

File Name: 225100
Description T-311
Canister: 605
QC_Batch: 040325-MA1

Date Sampled: 3/21/2025 **Time:** 10:35
Date Analyzed: 4/3/2025 **Time:** 14:03
Can Dilution Factor: 1.28
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.99	6.40	ND	12.23	26.21	ND

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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 48

File Name: 225100
Description T-312
Canister: 990
QC_Batch: 040325-MA1

Date Sampled: 3/21/2025 **Time:** 10:30
Date Analyzed: 4/3/2025 **Time:** 15:05
Can Dilution Factor: 1.33
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	3.10	6.65	ND	12.71	27.24	ND

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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 49

File Name: 225100
Description T-313
Canister: 549
QC_Batch: 040325-MA1

Date Sampled: 3/21/2025 **Time:** 10:31
Date Analyzed: 4/3/2025 **Time:** 15:43
Can Dilution Factor: 1.25
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.92	6.25	ND	11.95	25.60	ND

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Tentatively Identified Compounds

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 225100
Laboratory ID: 50

File Name: 225100
Description T-314
Canister: 784
QC_Batch: 040325-MA1

Date Sampled: 3/21/2025 **Time:** 10:38
Date Analyzed: 4/3/2025 **Time:**
Can Dilution Factor: 1.25
Air Volume: 300.00 ml

TIC Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3
None	2.92	6.25	ND	11.95	25.60	ND

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ENVIRONMENTAL
Analytical Service, Inc.

Data Deliverable Package

Prepared For:
C.E. Schmidt
19200 Live Oak Road
Red Bluff CA 96080

Client Project Manager: Chuck Schmidt
Project Name: Chiquita Canyon
Project Number: GC Helium

EAS SDG Number: **225100**
Project Number: 17807
Report Sent: 4/15/2025
Sample Event Date:),3/20,3/21/2025

This is the Laboratory Data Deliverable Package for the samples in the indicated Sample Delivery Group (SDG).

INDEX TO DATA PACKAGE:

Section 1 **Project Summary**
- Laboratory Work Order
- Sample Data
- Laboratory Case Narrative and Chain of Custody

Section 2 **Quality Control**
- Project QC Criteria
- DAB QC Reports

Section 3 **Analytical Methods**
- Analytical Method Description(s)
- Analytical Reports

Section 4 **Data Package with Quant Report and Chromatogram**
- DAB Run Logs and Preparation Log
- Sample Data Package
- Blank Data Package
- Continuing Calibration Package
- Initial Calibration Package

Section 5 **Standard Certificates**

Section 6 **SDG Documentation, Notes, Correspondence**

173 Cross Street, San Luis Obispo, California, 93401 (805) 781-3585

Section 1 Project Summary

The following pages provide detailed information about the sample receipt, log-in, and sample preparation. The Laboratory Work Order provides a cross reference between the Client ID number and the EAS Lab Number as well as a list of the analytical tests preformed. The items included in this section are listed below.

Section Contents

Laboratory Work Order

Sample Data

Laboratory Case Narrative

Chain of Custody

Laboratory Work Order

SDG Number: 225100
Client: Chuck Schmidt
C.E. Schmidt

Project Number: 17807
Received: 3/21/2025

SAMPLE DESCRIPTION AND ANALYSIS REQUESTED

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-101	225100 1	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-101	225100 1	ASTM D3416 Low Level Methane	3/19/2025
T-101	225100 1	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-101	225100 1	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-101	225100 1	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-102	225100 2	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-102	225100 2	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-102	225100 2	ASTM D3416 Low Level Methane	3/19/2025
T-102	225100 2	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-102	225100 2	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-103	225100 3	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-103	225100 3	ASTM D3416 Low Level Methane	3/19/2025
T-103	225100 3	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-103	225100 3	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-103	225100 3	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-104	225100 4	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-104	225100 4	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-104	225100 4	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-104	225100 4	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-104	225100 4	ASTM D3416 Low Level Methane	3/19/2025
T-105	225100 5	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-105	225100 5	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-105	225100 5	ASTM D3416 Low Level Methane	3/19/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-105	225100 5	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-105	225100 5	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-106	225100 6	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-106	225100 6	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-106	225100 6	ASTM D3416 Low Level Methane	3/19/2025
T-106	225100 6	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-106	225100 6	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-107	225100 7	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-107	225100 7	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-107	225100 7	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-107	225100 7	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-107	225100 7	ASTM D3416 Low Level Methane	3/19/2025
T-108	225100 8	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-108	225100 8	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-108	225100 8	ASTM D3416 Low Level Methane	3/19/2025
T-108	225100 8	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-108	225100 8	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-109	225100 9	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-109	225100 9	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-109	225100 9	ASTM D3416 Low Level Methane	3/19/2025
T-109	225100 9	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-109	225100 9	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-110	225100 10	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-110	225100 10	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-110	225100 10	ASTM D3416 Low Level Methane	3/19/2025
T-110	225100 10	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-110	225100 10	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-111	225100 11	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-111	225100 11	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-111	225100 11	ASTM D3416 Low Level Methane	3/19/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-111	225100 11	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-111	225100 11	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-112	225100 12	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-112	225100 12	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-112	225100 12	ASTM D3416 Low Level Methane	3/19/2025
T-112	225100 12	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-112	225100 12	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-113	225100 13	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-113	225100 13	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-113	225100 13	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-113	225100 13	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-113	225100 13	ASTM D3416 Low Level Methane	3/19/2025
T-114	225100 14	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-114	225100 14	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-114	225100 14	ASTM D3416 Low Level Methane	3/19/2025
T-114	225100 14	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-114	225100 14	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-115	225100 15	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-115	225100 15	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-115	225100 15	ASTM D3416 Low Level Methane	3/19/2025
T-115	225100 15	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-115	225100 15	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-116	225100 16	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-116	225100 16	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-116	225100 16	ASTM D3416 Low Level Methane	3/19/2025
T-116	225100 16	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-116	225100 16	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-117	225100 17	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-117	225100 17	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-117	225100 17	ASTM D3416 Low Level Methane	3/19/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-117	225100 17	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-117	225100 17	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-118	225100 18	ASTM D1945 He Low and Hydrogen Confirmation	3/19/2025
T-118	225100 18	ASTM D1945 Permanent Gas Analysis	3/19/2025
T-118	225100 18	ASTM D3416 Low Level Methane	3/19/2025
T-118	225100 18	EPA TO-12 C2 to C12 CRYO	3/19/2025
T-118	225100 18	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/19/2025
T-201	225100 19	ASTM D3416 Low Level Methane	3/20/2025
T-201	225100 19	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-201	225100 19	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-201	225100 19	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-201	225100 19	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-202	225100 20	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-202	225100 20	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-202	225100 20	ASTM D3416 Low Level Methane	3/20/2025
T-202	225100 20	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-202	225100 20	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-203	225100 21	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-203	225100 21	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-203	225100 21	ASTM D3416 Low Level Methane	3/20/2025
T-203	225100 21	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-203	225100 21	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-204	225100 22	ASTM D3416 Low Level Methane	3/20/2025
T-204	225100 22	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-204	225100 22	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-204	225100 22	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-204	225100 22	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-205	225100 23	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-205	225100 23	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-205	225100 23	ASTM D3416 Low Level Methane	3/20/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-205	225100 23	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-205	225100 23	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-206	225100 24	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-206	225100 24	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-206	225100 24	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-206	225100 24	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-206	225100 24	ASTM D3416 Low Level Methane	3/20/2025
T-207	225100 25	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-207	225100 25	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-207	225100 25	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-207	225100 25	ASTM D3416 Low Level Methane	3/20/2025
T-207	225100 25	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-208	225100 26	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-208	225100 26	ASTM D3416 Low Level Methane	3/20/2025
T-208	225100 26	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-208	225100 26	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-208	225100 26	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-209	225100 27	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-209	225100 27	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-209	225100 27	ASTM D3416 Low Level Methane	3/20/2025
T-209	225100 27	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-209	225100 27	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-210	225100 28	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-210	225100 28	ASTM D3416 Low Level Methane	3/20/2025
T-210	225100 28	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-210	225100 28	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-210	225100 28	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-211	225100 29	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-211	225100 29	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-211	225100 29	EPA TO-12 C2 to C12 CRYO	3/20/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-211	225100 29	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-211	225100 29	ASTM D3416 Low Level Methane	3/20/2025
T-212	225100 30	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-212	225100 30	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-212	225100 30	ASTM D3416 Low Level Methane	3/20/2025
T-212	225100 30	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-212	225100 30	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-213	225100 31	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-213	225100 31	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-213	225100 31	ASTM D3416 Low Level Methane	3/20/2025
T-213	225100 31	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-213	225100 31	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-214	225100 32	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-214	225100 32	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-214	225100 32	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-214	225100 32	ASTM D3416 Low Level Methane	3/20/2025
T-214	225100 32	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-215	225100 33	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-215	225100 33	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-215	225100 33	ASTM D3416 Low Level Methane	3/20/2025
T-215	225100 33	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-215	225100 33	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-216	225100 34	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-216	225100 34	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-216	225100 34	ASTM D3416 Low Level Methane	3/20/2025
T-216	225100 34	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-216	225100 34	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-217	225100 35	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-217	225100 35	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-217	225100 35	ASTM D3416 Low Level Methane	3/20/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-217	225100 35	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-217	225100 35	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-218	225100 36	ASTM D1945 He Low and Hydrogen Confirmation	3/20/2025
T-218	225100 36	ASTM D1945 Permanent Gas Analysis	3/20/2025
T-218	225100 36	ASTM D3416 Low Level Methane	3/20/2025
T-218	225100 36	EPA TO-12 C2 to C12 CRYO	3/20/2025
T-218	225100 36	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/20/2025
T-301	225100 37	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-301	225100 37	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-301	225100 37	ASTM D3416 Low Level Methane	3/21/2025
T-301	225100 37	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-301	225100 37	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-302	225100 38	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-302	225100 38	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-302	225100 38	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-302	225100 38	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-302	225100 38	ASTM D3416 Low Level Methane	3/21/2025
T-303	225100 39	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-303	225100 39	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-303	225100 39	ASTM D3416 Low Level Methane	3/21/2025
T-303	225100 39	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-303	225100 39	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-304	225100 40	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-304	225100 40	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-304	225100 40	ASTM D3416 Low Level Methane	3/21/2025
T-304	225100 40	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-304	225100 40	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-305	225100 41	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-305	225100 41	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-305	225100 41	ASTM D3416 Low Level Methane	3/21/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-305	225100 41	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-305	225100 41	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-306	225100 42	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-306	225100 42	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-306	225100 42	ASTM D3416 Low Level Methane	3/21/2025
T-306	225100 42	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-306	225100 42	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-307	225100 43	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-307	225100 43	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-307	225100 43	ASTM D3416 Low Level Methane	3/21/2025
T-307	225100 43	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-307	225100 43	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-308	225100 44	ASTM D3416 Low Level Methane	3/21/2025
T-308	225100 44	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-308	225100 44	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-308	225100 44	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-308	225100 44	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-309	225100 45	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-309	225100 45	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-309	225100 45	ASTM D3416 Low Level Methane	3/21/2025
T-309	225100 45	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-309	225100 45	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-310	225100 46	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-310	225100 46	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-310	225100 46	ASTM D3416 Low Level Methane	3/21/2025
T-310	225100 46	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-310	225100 46	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-311	225100 47	ASTM D3416 Low Level Methane	3/21/2025
T-311	225100 47	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-311	225100 47	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
T-311	225100 47	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-311	225100 47	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-312	225100 48	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-312	225100 48	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-312	225100 48	ASTM D3416 Low Level Methane	3/21/2025
T-312	225100 48	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-312	225100 48	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-313	225100 49	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-313	225100 49	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-313	225100 49	EPA TO-12 C2 to C12 CRYO	3/21/2025
T-313	225100 49	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-313	225100 49	ASTM D3416 Low Level Methane	3/21/2025
T-314	225100 50	EPA TO-15 Full List 95 + Acrolein + TIC 10	3/21/2025
T-314	225100 50	ASTM D1945 He Low and Hydrogen Confirmation	3/21/2025
T-314	225100 50	ASTM D1945 Permanent Gas Analysis	3/21/2025
T-314	225100 50	ASTM D3416 Low Level Methane	3/21/2025
T-314	225100 50	EPA TO-12 C2 to C12 CRYO	3/21/2025

Project Sample Media

SDG Number: 225100

The following sample media was used for this Sample Delivery Group (SDG). The Sample Media column identifies the type of media. For canisters, the Sample Media Batch gives the canister number followed by the cleaning batch number, which is a unique identification. The initial pressure of the canister when it is received is recorded. If the canister is not pressurized, the final pressure will be the same as the initial pressure. If the canister is pessurized the final pressure will be recorded, and the canister dilution factor is calculated as the ratio of the final to initial pressure. The results are adjusted for the can dilution factor.

SDG	Lab ID	Client Sample No.	Sample Media	Batch	Pressure, torr Initial	Final	Can Factor
225100	1	T-101	668		723	871	1.20
225100	2	T-102	895		734	913	1.24
225100	3	T-103	881		728	870	1.20
225100	4	T-104	860		723	947	1.31
225100	5	T-105	685		719	882	1.23
225100	6	T-106	621		718	880	1.23
225100	7	T-107	644		720	888	1.23
225100	8	T-108	556		702	886	1.26
225100	9	T-109	694		713	926	1.30
225100	10	T-110	857		707	901	1.27
225100	11	T-111	504		697	871	1.25
225100	12	T-112	631		714	882	1.24
225100	13	T-113	690		705	870	1.23
225100	14	T-114	645		701	888	1.27
225100	15	T-115	654		696	881	1.27
225100	16	T-116	782		706	881	1.25
225100	17	T-117	643		709	883	1.25
225100	18	T-118	553		783	891	1.14
225100	19	T-201	726		738	895	1.21
225100	20	T-202	883		739	873	1.18
225100	21	T-203	858		735	879	1.20
225100	22	T-204	758		743	874	1.18
225100	23	T-205	659		708	897	1.27
225100	24	T-206	882		710	883	1.24
225100	25	T-207	627		692	904	1.31

SDG	Lab ID	Client Sample No.	Sample Media	Batch	Pressure, torr Initial	Final	Can Factor
225100	26	T-208	791		709	890	1.26
225100	27	T-209	778		682	887	1.30
225100	28	T-210	714		695	882	1.27
225100	29	T-211	629		685	881	1.29
225100	30	T-212	502		687	930	1.35
225100	31	T-213	712		678	905	1.33
225100	32	T-214	610		786	875	1.11
225100	33	T-215	751		677	874	1.29
225100	34	T-216	896		632	874	1.38
225100	35	T-217	634		693	881	1.27
225100	36	T-218	698		692	877	1.27
225100	37	T-301	638		738	879	1.19
225100	38	T-302	857		734	872	1.19
225100	39	T-303	552		727	877	1.21
225100	40	T-304	529		731	878	1.20
225100	41	T-305	660		709	871	1.23
225100	42	T-306	859		722	874	1.21
225100	43	T-307	636		720	878	1.22
225100	44	T-308	661		717	875	1.22
225100	45	T-309	579		726	877	1.21
225100	46	T-310	771		679	874	1.29
225100	47	T-311	605		680	873	1.28
225100	48	T-312	990		689	913	1.33
225100	49	T-313	549		695	872	1.25
225100	50	T-314	784		701	876	1.25

Laboratory Case Narrative

EAS SDG Number: 225100 **Project Number:** 17807

Client: C.E. Schmidt

The Laboratory Case Narrative for the SDG is below. The Chain of Custody form(s) follow the Laboratory Case Narrative.

Sample Control Narrative

The samples were all received in good condition and with proper preservation.

Analytical Methods

The methods used for sample analysis are listed on the Analytyical Report header, and have been modified as described in the EAS Quality Manual..

Case Narrative

QC Narrative

All analyses met EAS method criteria as defined in the Quality Manual, except as noted in the report or QC reports with data qualifiers.

Subcontract Narrative

No sample analysis was subcontracted for this project

Laboratory Certification

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness other than the condition(s) noted above. The Laboratory Report is property of EAS and its client. The entire report has been reviewed and approved.

Date Approved: 4/15/2025

Steven D. Hoyt, Ph.D.
Environmental Analytical Service
Laboratory Director

004451 of 004929

CE Schmidt, PhD, Environmental Consultant

Chain of Custody Record

225100

TO-15 Day 1

Form Serial Number: CES F1-02106	For Information Regarding These Samples Please Contact:
Client Name: *SCS*	**Dr. Charles E. Schmidt**
Chiquita Canyon Landfill	19200 Live Oak Road, Red Bluff, CA 96080
Project Manager: *Pat Sullivan*	530-529-4256 Cell: 530-200-2473
Requested Completion Date	E-Mail: SCHMIDTCE@aol.com

Client Address and Phone Number: ***3900 Kilroy Airport Way, Suite 100, Long Beach, CA 90806 562-743-7895***

Laboratory Name: *EAS* 17807

Laboratory Address: ***173 Cross Street, San Luis Obispo, CA 93401***

Laboratory Phone: ***805-781-3585***

Laboratory Contact: ***Dr. Steve Hoyt*** *stevehoyt@easlab.com*

Station Number	Date	Time	COMP	GRAB	Sample ID Number	Can ID Number	# OF CONTAINERS	Sample Container: Vial	Can	Tube	Analysis Requested: TO-12 FID (TNMHC)	TO-14 FID (See back)	TO-15 (List on back)	Fixed gases (List on back)		Can Pressure In (Inches Hg)	Can Pressure Out (Inches	Remarks
	3/19/2025	~~840~~		x	T - 101	668	1		x		x	x	x	x		-29	0	01
	3/19/2025	850		x	T - 102	695	1		x		x	x	x	x		-29	0	02
	3/19/2025	844		x	T - 103	881	1		x		x	x	x	x		-29	0	03
	3/19/2025	837		x	T - 104	860	1		x		x	x	x	x		-29	0	04
	3/19/2025	106		x	T - 105	655	1		x		x	x	x	x		-29	0	05
	3/19/2025	1022		x	T - 106	621	1		x		x	x	x	x		-29	0	06
	3/19/2025	1022		x	T - 107	644	1		x		x	x	x	x		-29	0	07
	3/19/2025	1080		x	T - 108	556	1		x		x	x	x	x		-29	0	08
	3/19/2025	1125		x	T - 109	654	1		x		x	x	x	x		-29	0	09
	3/19/2025	1232		x	T - 110	837	1		x		x	x	x	x		-29	0	10
	3/19/2025	1138		x	T - 111	884	1		x		x	x	x	x		-29	0	11
	3/19/2025	1131		x	T - 112	631	1		x		x	x	x	x		-29	0	12
	3/19/2025	1305		x	T - 113	690	1		x		x	x	x	x		-29	0	13
	3/19/2025	1311		x	T - 114	645	1		x		x	x	x	x		-29	0	14
	3/19/2025	1253		x	T - 115	654/654	1		x		x	x	x	x		-29	0	15
	3/19/2025	1303		x	T - 116	782	1		x		x	x	x	x		-29	0	16
	3/19/2025	1303		x	T - 117	643	1		x		x	x	x	x		-29	0	17
	3/19/2025	1325		x	T - 118	553	1		x		x	x	x	x		-29	0	18

Sampler: CESCHMIDT	Date/Time: 3/21/25 1130	Relinquished by: CESCHMIDT	Date/Time: 3/21/25 1130
Recieved by: DHS	Date/Time	Relinquished by	Date/Time
Recieved by	Date/Time	Relinquished by	Date/Time
Recieved by Laboratory: [illegible]	Date/Time: 3/21/2025 1430	Sample Shipped Via: UPS FEDEX BUS Other	
Remarks: 0	**Do Not Pressurize with Helium**		

HAZWRAP/NEESA Y N
QC Level 1 2 3
COC
Ana Req
Cust Seal
Sample Condition

File: Chiquita Cyn Forms TO-15.xlsb Form: COC TO-15 D1

CE Schmidt, PhD, Environmental Consultant

Chain of Custody Record

22510D

TO-15 Day 2

Form Serial Number: CES F1-02106	For Information Regarding These Samples Please Contact:
Client Name: *SCS* / *Chiquita Canyon Landfill*	**Dr. Charles E. Schmidt**
Project Manager: *Pat Sullivan*	19200 Live Oak Road, Red Bluff, CA 96080
Requested Completion Date	530-529-4256 Cell: 530-200-2473
	E-Mail: SCHMIDTCE@aol.com

Client Address and Phone Number: *3900 Kilroy Airport Way, Suite 100, Long Beach, CA 90806 562-743-7895*

Laboratory Name: *EAS* 17807

Laboratory Address: *173 Cross Street, San Luis Obispo, CA 93401*

Laboratory Phone: *805-781-3585*

Laboratory Contact: *Dr. Steve Hoyt* *stevehoyt@easlab.com*

Station Number	Date	Time	COMP	GRAB	Sample ID Number	Can ID Number	# OF CONTAINERS	Sample Container: Vial	Can	Tube	Analysis Requested: TO-12 FID (TNMHC)	TO-14 FID (See back)	TO-15 (List on back)	Fixed gases (/List on back)		Can Pressure In (inches Hg)	Can Pressure Out (inches	Remarks
	3/20/2025	823		x	T - 201	126	1		x		x	x	x	x		-29	0	19
	3/20/2025	838		x	T - 202	883	1		x		x	x	x	x		-29	0	20
	3/20/2025	833		x	T - 203	858	1		x		x	x	x	x		-29	0	21
	3/20/2025	827		x	T - 204	758	1		x		x	x	x	x		-29	0	22
	3/20/2025	1000		x	T - 205	259	1		x		x	x	x	x		-29	0	23
	3/20/2025	955		x	T - 206	882	1		x		x	x	x	x		-29	0	24
	3/20/2025	1005		x	T - 207	627	1		x		x	x	x	x		-29	0	25
	3/20/2025	1008		x	T - 208	791	1		x		x	x	x	x		-29	0	26
	3/20/2025	1121		x	T - 209	798	1		x		x	x	x	x		-29	0	27
	3/20/2025	1121		x	T - 210	714	1		x		x	x	x	x		-29	0	28
	3/20/2025	1126		x	T - 211	629	1		x		x	x	x	x		-29	0	29
	3/20/2025	1130		x	T - 212	502	1		x		x	x	x	x		-29	0	30
	3/20/2025	1130		x	T - 213	712	1		x		x	x	x	x		-29	0	31
	3/20/2025	1257		x	T - 214	610	1		x		x	x	x	x		-29	0	32
	11	1244		x	T 215	751	1		x		✓	x	x	x		-29	0	33
	11	1246		x	T 216	596	1		x		✓	x	x	x		-29	0	34
	11	1248		x	T 217	624	1		✓		✓	x	✓	x		-29	0	35
	11	1242		x	T 218	698	1		x		✓	✓	x	x		-29	0	36

Sampler: CE SCHMIDT	Date/Time: 3/21/25 1130	Relinquished by: CE SCHMIDT	Date/Time: 3/21/25 1130
Recieved by: CAS	Date/Time	Relinquished by	Date/Time
Recieved by	Date/Time	Relinquished by	Date/Time
Recieved by Laboratory	Date/Time: 3/21/2025 1430	Sample Shipped Via: UPS FEDEX BUS Other	
Remarks	**Do Not Pressurize with Helium**		

HAZWRAP/NEESA Y N

QC Level 1 2 3

COC

Ana Req

Cust Seal

Sample Condition

File: Chiquita Cyn Forms TO-15.xlsb Form: COC TO-15 D2

CE Schmidt, Phd, Environmental Consultant 225100 TO-15 Day 3

Chain of Custody Record

| | | |

Section 2 Quality Control

This section contains the QC Reports for each Daily Analytical Batch (DAB) which make up the Sample Delivery Group (SDG). It also contains either the EAS or Project QC criteria that was used for the DAB. The methods used for this project have been modified from the original method. The modifications include modifications to the QC for the method. This is either because the method did not specify certain aspects of the QC, the method was originally designed for a different matrix, or additional compounds were added to the target list of the method which required modified QC. The QC modifications used by EAS follows those used by other air testing laboratories.

The Daily Analytical Batch data was checked against the QC criteria for the method. Any deviations from the QC criteria are listed on the QC Reports for each DAB, which are summarized in this section and are given in more detail in Section 4 which has the Quantitation Reports and Calculations for the Samples, Method Blank, Lab Control Spikes, as well as the Initial Calibration and Continuing Calibration. This section contains the following:

Section Contents

Project QC Critera

DAB Quality Control Reports

- Method Blank
- Laboratory Control Spike
- Laboratory Control Duplicate
- Continuing Calibration

Quality Control Report

EAS SDG Number: 225100

Project Number: 17807

QC Narrative

Samples were anlayzed in a daily analytical batch (DAB) designated by a QC batch number, and were analyzed using EAS standard laboratory QC specified in the EAS Quality Manual which may be different then the referrenced agency method. Any deviations from the EAS QC criteria are flagged in the Laboratory Control Reports or in the sample Analytical Reports.

Standard Laboratory QC Report

Unless project specific QC was requested, this Section containing the standard laboratory QC (Level 2) supplied with the Analytical Reports. Each sample is analyzed in a Daily Analytical Batch (DAB) which includes the method blank, a laboratory control spike (LCS) and a laboratory control duplicate (LCD). A Daily Analytical Batch QC report is supplied for each method requested.

Method Blank

The method blank is a laboratory generated sample which assesses the degree to which laboratory operations cause a false positive. The target analytes in the analytical reports for a daily analytical batch are "B" flagged if their concentrations are present in the Method Blank above the RL, unless the result is greater then ten times the blank value..

Laboratory Control Spike

A laboratory control spike is a well characterized matrix similar to the sample which is spiked and run in duplicate with each Daily Analytical Batch. The laboratory control spike results are reported as a percent recovery. The QC Criteria for the control spike is listed in the Laboratory Control Report. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report. The control spike contains an abbreviated list of compounds in the method, and may contain compounds not on the target list for the specified report.

Laboratory Control Duplicate

The laboratory control duplicate is a duplicate analysis of the laboratory control spike, a standard, or a sample depending on the method. The results are reported as a relative percent difference (RPD). The criteria for the duplicate is in the Laboratory Control Report for the Daily Analytical Batch. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report.

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: LABQC
Laboratory Number: B03255

File Name: B03255MA
Description: METHOD BLANK
Can/Tube#:
QC_Batch: 032525-GCO

Date Sampled: **Time:**
Date Analyzed: 03/25/25 **Time:** 11:24

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.020	0.060	ND	200	600	ND	

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

ASTM D 1945 GC/TCD
Analytical Method: **D1945**

Date: 03/25/25
QC_Batch: 03255-GCO

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate Duplicate %	Duplicate Limit %	Flag
7440-59-7	Helium	104		100		70	130	4	25	

Section 3 Analytical Methods

This section has information on the analytial methods and a copy of the analytical reports for the Sample Delivery Group (SDG) listed below. The reports are organized in order of the EAS Laboratory Number.

Section Contents

Analytical Method Description(s)

Analytical Reports

Analytical Reports

EAS SDG Number: 225100

Project Number: 17807

The following pages contain the certified Analytical Reports for the samples submitted in the Sample Delivery Group (SDG) and are in order of the EAS Lab ID number. All of the analytical methods used are modifications of the published methods. Procedural method modifications, QC modifications, QC Criteria modifications, target lists, definitions of detection limits, and flags are all explained in detail in the EAS Quality Manual. The Analytical Report has columns for the method detection limit (MDL), the reporting limit (RL), and the Amount. The Amount is the concentration of the compound in the sample. The report usually has the results reported with two commonly used units. The MDL, RL, and Amount are adjusted for the canister dilution factor and any dilution caused by sample matrix effects.

NELAC CERTIFICATION

EAS is accredited by the National Environmental Laboratory Accreditation (NELAC) with the Florida Department of Health, one of the NELAC certifying states. EAS is certified for the EPA TO-15, EPA TO-11 and EPA TO-4 methods. A list of accredited compounds is available on request.

DETECTION LIMITS

MDL: The MDL is lowest concentration that can be measured to be statistically above the noise level and is determined using the EPA 2016 method which uses the standard deviation of replicate measurements made over time. The method also incorporates systematic instrumentation blank levels. See Quality Manual for detailed explanation.

RL: The reporting limit (RL) is the lowest concentration that can be reliably reported for each compound that meets the QC Criteria for the method, background levels, or project specific considerations. The QC criteria level for the method blank is to be less then the RL See Quality Manual for more information.

DATA FLAGS

In the standard report, if a compound is not detected above the method detection limit, a "ND" is in the Amount column. The flag column is used for both the not detect flag and for any data flags.

B - This compound was detected in the batch method blank above the reporting limit and is greater then one tenth the amount in the sample.

E - This compound exceeds the calibration range for this sample volume.

J - The amount reported is estimated because it was below the RL and could be below the lowest calibration point, have higher uncertainty, or could be the result of system background

SIGNIFICANT FIGURES

Based on the uncertainty in the methods, the numbers on the Analytical Reports should be used with only two significant digits. Additional significant figures are reported for ease of use and to avoid rounding errors when used in further calculations.

UNITS

PPBV or PPMV: Parts-per-billion (or million) by volume is a mole (volume) ratio of the moles of analyte divided by the moles of air (gas). This is the primary unit used to report air or gas concentrations and is independent of temperature and pressure.

UG/M3 OR MG/M3: The reported result was calculated based on 1 atm pressure and a temperature of 25C. The conversion from PPBV is: UG/M3 = PPBV x MW/24.46 where 24.26 is the gas constant and MW is the Compounds Molecular Weight (sometimes called Formula Weight)

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 01

File Name: 2510001A
Description: T-101
Can/Tube#: 668
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 8:40
Date Analyzed: 03/25/25 **Time:** 11:30

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.029	0.087	4.369	241	723	43,690	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 02

File Name: 2510002A
Description: T-102
Can/Tube#: 895
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 8:50
Date Analyzed: 03/25/25 **Time:** 11:34

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.031	0.093	4.082	249	746	40,820	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 03

File Name: 2510003A
Description: T-103
Can/Tube#: 881
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 8:44
Date Analyzed: 03/25/25 **Time:** 11:38

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.029	0.086	2.563	239	717	25,625	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945 **Laboratory Number:** 04

File Name: 2510004A
Description: T-104
Can/Tube#: 860
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 8:37
Date Analyzed: 03/25/25 **Time:** 11:42

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.034	0.103	4.404	262	786	44,043	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 05

File Name: 2510005A
Description: T-105
Can/Tube#: 685
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 10:16
Date Analyzed: 03/25/25 **Time:** 11:49

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.030	0.090	2.705	245	736	27,053	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 06

File Name: 2510006A
Description: T-106
Can/Tube#: 621
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 10:22
Date Analyzed: 03/25/25 **Time:** 11:53

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.030	0.090	1.541	245	735	15,414	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945 **Laboratory Number:** 07

File Name: 2510007A
Description: T-107
Can/Tube#: 644
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 10:22
Date Analyzed: 03/25/25 **Time:** 11:57

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.030	0.091	4.043	247	740	40,426	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 08

File Name: 2510008A
Description: T-108
Can/Tube#: 556
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 10:30
Date Analyzed: 03/25/25 **Time:** 12:00

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.032	0.096	2.020	252	757	20,204	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD **SDG: 225100**

Analytical Method: **D1945** **Laboratory Number: 09**

File Name: 2510009A **Date Sampled:** 03/19/25 **Time:** 11:25
Description: T-109 **Date Analyzed:** 03/25/25 **Time:** 12:05
Can/Tube#: 694
QC_Batch: 032525-GCO

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.034	0.101	1.721	260	779	17,207	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 10

File Name: 2510010A
Description: T-110
Can/Tube#: 857
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 11:32
Date Analyzed: 03/25/25 **Time:** 12:09

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.032	0.097	2.617	255	765	26,172	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 11

File Name: 2510011A
Description: T-111
Can/Tube#: 504
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 11:32
Date Analyzed: 03/25/25 **Time:** 12:13

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.031	0.094	4.711	250	750	47,111	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 12

File Name: 2510012A
Description: T-112
Can/Tube#: 631
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 11:38
Date Analyzed: 03/25/25 **Time:** 12:17

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.031	0.092	7.100	247	741	71,002	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 13

File Name: 2510013A
Description: T-113
Can/Tube#: 690
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 13:05
Date Analyzed: 03/25/25 **Time:** 12:28

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.030	0.091	2.676	247	740	26,758	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 14

File Name: 2510014A
Description: T-114
Can/Tube#: 645
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 13:11
Date Analyzed: 03/25/25 **Time:** 12:33

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.032	0.096	5.015	253	760	50,148	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 15

File Name: 2510015A
Description: T-115
Can/Tube#: 654
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 12:53
Date Analyzed: 03/25/25 **Time:** 12:37

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.032	0.096	7.398	253	759	73,979	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD **SDG: 225100**

Analytical Method: D1945 **Laboratory Number:** 16

File Name: 2510016A **Date Sampled:** 03/19/25 **Time:** 13:03
Description: T-116 **Date Analyzed:** 03/25/25 **Time:** 12:41
Can/Tube#: 782
QC_Batch: 032525-GCO

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.044	0.131	8.545	296	887	85,451	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD **SDG: 225100**

Analytical Method: D1945 **Laboratory Number:** 17

File Name: 2510017A **Date Sampled:** 03/19/25 **Time:** 13:03
Description: T-117 **Date Analyzed:** 03/25/25 **Time:** 12:46
Can/Tube#: 643
QC_Batch: 032525-GCO

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.031	0.093	8.228	249	747	82,276	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD **SDG: 225100**

Analytical Method: **D1945** **Laboratory Number: 18**

File Name: 2510018A **Date Sampled:** 03/19/25 **Time:** 13:25
Description: T-118 **Date Analyzed:** 03/25/25 **Time:** 12:52
Can/Tube#: 553
QC_Batch: 032525-GCO

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.026	0.078	8.907	228	683	89,073	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 19

File Name: 2510019A
Description: T-201
Can/Tube#: 726
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 8:23
Date Analyzed: 03/25/25 **Time:** 12:56

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.029	0.088	2.660	243	728	26,599	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 20

File Name: 2510020A
Description: T-202
Can/Tube#: 883
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 8:38
Date Analyzed: 03/25/25 **Time:** 13:00

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.028	0.084	3.053	236	709	30,526	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 21

File Name: 2510021A
Description: T-203
Can/Tube#: 858
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 8:33
Date Analyzed: 03/25/25 **Time:** 13:04

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.029	0.086	5.125	239	718	51,254	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD **SDG: 225100**

Analytical Method: **D1945** **Laboratory Number: 22**

File Name: 2510022A **Date Sampled:** 03/20/25 **Time:** 8:29
Description: T-204 **Date Analyzed:** 03/25/25 **Time:** 13:08
Can/Tube#: 758
QC_Batch: 032525-GCO

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.028	0.083	8.402	235	706	84,018	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945 **Laboratory Number:** 23

File Name: 2510023A
Description: T-205
Can/Tube#: 659
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 10:00
Date Analyzed: 03/25/25 **Time:** 13:12

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.032	0.096	2.031	253	760	20,308	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD **SDG: 225100**

Analytical Method: **D1945** **Laboratory Number: 24**

File Name: 2510024A **Date Sampled:** 03/20/25 **Time:** 9:55
Description: T-206 **Date Analyzed:** 03/25/25 **Time:** 13:16
Can/Tube#: 882
QC_Batch: 032525-GCO

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.031	0.093	2.761	249	746	27,615	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 25

File Name: 2510025A
Description: T-207
Can/Tube#: 627
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 10:05
Date Analyzed: 03/25/25 **Time:** 13:20

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.034	0.102	2.070	261	784	20,700	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 26

File Name: 2510026A
Description: T-208
Can/Tube#: 791
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 10:08
Date Analyzed: 03/25/25 **Time:** 13:24

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.032	0.095	1.671	251	753	16,706	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 27

File Name: 2510027A
Description: T-209
Can/Tube#: 778
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 11:21
Date Analyzed: 03/25/25 **Time:** 13:28

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.034	0.101	6.790	260	780	67,901	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 28

File Name: 2510028A
Description: T-210
Can/Tube#: 714
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 11:21
Date Analyzed: 03/25/25 **Time:** 13:33

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.032	0.097	4.155	254	761	41,551	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 29

File Name: 2510029A
Description: T-211
Can/Tube#: 629
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 11:26
Date Analyzed: 03/25/25 **Time:** 13:37

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.033	0.099	7.766	257	772	77,664	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945 **Laboratory Number:** 30

File Name: 2510030A
Description: T-212
Can/Tube#: 502
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 11:30
Date Analyzed: 03/25/25 **Time:** 13:41

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.037	0.110	7.545	271	812	75,447	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD **SDG: 225100**

Analytical Method: **D1945** **Laboratory Number: 31**

File Name: 2510031A **Date Sampled:** 03/20/25 **Time:** 11:30
Description: T-213 **Date Analyzed:** 03/25/25 **Time:** 13:46
Can/Tube#: 712
QC_Batch: 032525-GCO

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.036	0.107	7.182	267	801	71,825	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945 **Laboratory Number:** 32

File Name: 2510032A
Description: T-214
Can/Tube#: 610
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 12:57
Date Analyzed: 03/25/25 **Time:** 13:50

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.025	0.074	9.403	223	668	94,035	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 33

File Name: 2510033A
Description: T-215
Can/Tube#: 751
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 12:44
Date Analyzed: 03/25/25 **Time:** 13:54

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.033	0.100	2.545	258	775	25,447	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945 **Laboratory Number:** 34

File Name: 2510034A
Description: T-216
Can/Tube#: 896
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 12:46
Date Analyzed: 03/25/25 **Time:** 13:58

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.038	0.115	7.533	277	830	75,334	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 35

File Name: 2510035A
Description: T-217
Can/Tube#: 634
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 12:48
Date Analyzed: 03/25/25 **Time:** 14:02

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.032	0.097	5.967	254	763	59,668	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 36

File Name: 2510036A
Description: T-218
Can/Tube#: 698
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 12:42
Date Analyzed: 03/25/25 **Time:** 14:06

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.032	0.096	4.714	253	760	47,143	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945 **SDG:** 225100
Laboratory Number: 37

File Name: 2510037A
Description: T-301
Can/Tube#: 638
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 7:58
Date Analyzed: 03/25/25 **Time:** 14:15

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.028	0.085	5.531	238	715	55,311	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 38

File Name: 2510038A
Description: T-302
Can/Tube#: 857
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 8:04
Date Analyzed: 03/25/25 **Time:** 14:20

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.028	0.085	4.133	238	713	41,327	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 39

File Name: 2510039A
Description: T-303
Can/Tube#: 552
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 8:05
Date Analyzed: 03/25/25 **Time:** 14:23

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.029	0.087	3.833	241	724	38,331	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 40

File Name: 2510040A
Description: T-304
Can/Tube#: 529
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 7:58
Date Analyzed: 03/25/25 **Time:** 14:27

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.029	0.087	4.724	240	721	47,238	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 41

File Name: 2510041A
Description: T-305
Can/Tube#: 660
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 9:22
Date Analyzed: 03/25/25 **Time:** 14:31

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.030	0.091	2.894	246	737	28,938	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 42

File Name: 2510042A
Description: T-306
Can/Tube#: 859
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 9:13
Date Analyzed: 03/25/25 **Time:** 14:34

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.029	0.088	3.871	242	726	38,706	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 43

File Name: 2510043A
Description: T-307
Can/Tube#: 636
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 9:10
Date Analyzed: 03/25/25 **Time:** 14:38

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.030	0.089	3.802	244	732	38,023	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 44

File Name: 2510044A
Description: T-308
Can/Tube#: 661
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 9:18
Date Analyzed: 03/25/25 **Time:** 14:42

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.030	0.089	3.365	244	732	33,653	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 45

File Name: 2510045A
Description: T-309
Can/Tube#: 579
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 9:24
Date Analyzed: 03/25/25 **Time:** 14:46

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.029	0.088	3.184	242	725	31,835	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 46

File Name: 2510046A
Description: T-310
Can/Tube#: 771
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 10:48
Date Analyzed: 03/25/25 **Time:** 14:49

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.033	0.099	9.718	257	772	97,179	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD
Analytical Method: **D1945**

SDG: **225100**
Laboratory Number: **47**

File Name: 2510047A
Description: T-311
Can/Tube#: 605
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 10:35
Date Analyzed: 03/25/25 **Time:** 14:53

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.033	0.099	1.461	257	770	14,610	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD **SDG: 225100**

Analytical Method: **D1945** **Laboratory Number: 48**

File Name: 2510048A **Date Sampled:** 03/21/25 **Time:** 10:30
Description: T-312 **Date Analyzed:** 03/25/25 **Time:** 14:57
Can/Tube#: 990
QC_Batch: 032525-GCO

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.035	0.105	2.127	265	795	21,272	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD **SDG: 225100**

Analytical Method: **D1945** **Laboratory Number: 49**

File Name: 2510049A **Date Sampled:** 03/21/25 **Time:** 10:31
Description: T-313 **Date Analyzed:** 03/25/25 **Time:** 15:00
Can/Tube#: 549
QC_Batch: 032525-GCO

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.031	0.094	1.766	251	753	17,657	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 50

File Name: 2510050A
Description: T-314
Can/Tube#: 784
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 10:38
Date Analyzed: 03/25/25 **Time:** 15:06

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.031	0.094	1.748	250	750	17,483	

Section 4 Data Package

This section contains the Data Packages for the samples, blanks, and calibration. Each package has the analytical report, quantitation report, calculation sheet, instrument quantation report, and chromatograms.

Items provided in Data Package:

DAB Run Logs and Preparation Logs

Sample Packages

Blank Package for each Daily Analytical Batch

Quality Control Reports, LCS,LCD for each Daily Analytical Batch

Continuing Calibration Package for Each Daily Analytical Batch

Initial Calibration Data

DAB Run Logs and Preparation Logs

Samples are analyzed in a Daily Analytical Batch (DAB) on an instrument.
The DAB identifier is on each analytial report in the field called QC Batch.
This section contains the DAB Log Sheets and Preparation Logs.

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DAB Run Logs
Other Log Sheets

Daily Analytical Batch

DAB: 032525-GCO

GCO

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
032525-GCO	01	GCO	STD			C03255A		ST63429	10% Helium	0.5	DA		AST1946H			
032525-GCO	02	GCO	STD			C03255B		ST63429	10% Helium	0.5	DA		AST1946H			
032525-GCO	03	GCO	STD			C03255C		ST63429	10% Helium	0.5	DA		AST1946H			
032525-GCO	04	GCO	STD			C03255D		ST63429	10% Helium	0.5	DA		AST1946H			
032525-GCO	05	GCO	STD			C03255E		ST63430	10% Hydrogen	0.5	DA		AST1946H			
032525-GCO	06	GCO	STD			C03255F		ST63430	10% Hydrogen	0.5	DA		AST1946H			
032525-GCO	07	GCO	STD			C03255G		ST63430	10% Hydrogen	0.5	DA		AST1946H			
032525-GCO	08	GCO	BLK			B03255A	307	METHOD BLANK		0.5	DA		AST1946H			
032525-GCO	09	GCO	SA	225100	01	2510001A	668	T-101	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	10	GCO	SA	225100	02	2510002A	895	T-102	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	11	GCO	SA	225100	03	2510003A	881	T-103	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	12	GCO	SA	225100	04	2510004A	860	T-104	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	13	GCO	SA	225100	05	2510005A	685	T-105	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	14	GCO	SA	225100	06	2510006A	621	T-106	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	15	GCO	SA	225100	07	2510007A	644	T-107	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	16	GCO	SA	225100	08	2510008A	556	T-108	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	17	GCO	SA	225100	09	2510009A	694	T-109	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	18	GCO	SA	225100	10	2510010A	837	T-110	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	19	GCO	SA	225100	11	2510011A	504	T-111	SCHMIDT	0.5	DA		AST1946H			

REVIEWED

Daily Analytical Batch

DAB: 032525-GCO

GCO

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
032525-GCO	20	GCO	SA	225100	12	2510012A	631	T-112	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	21	GCO	SA	225100	13	2510013A	690	T-113	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	22	GCO	SA	225100	14	2510014A	645	T-114	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	23	GCO	SA	225100	15	2510015A	654	T-115	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	24	GCO	SA	225100	16	2510016A	782	T-116	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	25	GCO	SA	225100	17	2510017A	643	T-117	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	26	GCO	SA	225100	18	2510018A	553	T-118	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	27	GCO	SA	225100	19	2510019A	726	T-201	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	28	GCO	SA	225100	20	2510020A	883	T-202	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	29	GCO	SA	225100	21	2510021A	858	T-203	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	30	GCO	SA	225100	22	2510022A	158	T-204	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	31	GCO	SA	225100	23	2510023A	659	T-205	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	32	GCO	SA	225100	24	2510024A	882	T-206	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	33	GCO	SA	225100	25	2510025A	627	T-207	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	34	GCO	SA	225100	26	2510026A	791	T-208	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	35	GCO	SA	225100	27	2510027A	778	T-209	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	36	GCO	SA	225100	28	2510028A	714	T-210	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	37	GCO	SA	225100	29	2510029A	629	T-211	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	38	GCO	SA	225100	30	2510030A	502	T-212	SCHMIDT	0.5	DA		AST1946H			

REVIEWED

Daily Analytical Batch

DAB: 032525-GCO

GCO

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
032525-GCO	39	GCO	SA	225100	31	2510031A	712	T-213	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	40	GCO	SA	225100	32	2510032A	610	T-214	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	41	GCO	SA	225100	33	2510033A	751	T-215	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	42	GCO	SA	225100	34	2510034A	896	T-216	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	43	GCO	SA	225100	35	2510035A	634	T-217	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	44	GCO	SA	225100	36	2510036A	698	T-218	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	45	GCO	SA	225100	37	2510037A	638	T-301	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	46	GCO	SA	225100	38	2510038A	857	T-302	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	47	GCO	SA	225100	39	2510039A	552	T-303	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	48	GCO	SA	225100	40	2510040A	529	T-304	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	49	GCO	SA	225100	41	2510041A	660	T-305	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	50	GCO	SA	225100	42	2510042A	859	T-306	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	51	GCO	SA	225100	43	2510043A	636	T-307	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	52	GCO	SA	225100	44	2510044A	661	T-308	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	53	GCO	SA	225100	45	2510045A	539	T-309	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	54	GCO	SA	225100	46	2510046A	771	T-310	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	55	GCO	SA	225100	47	2510047A	605	T-311	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	56	GCO	SA	225100	48	2510048A	990	T-312	SCHMIDT	0.5	DA		AST1946H			
032525-GCO	57	GCO	SA	225100	49	2510049A	549	T-313	SCHMIDT	0.5	DA		AST1946H			

REVIEWED

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Daily Analytical Batch

DAB: 032525-GCO

GCO

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit	Proc:
032525-GCO	58	GCO	SA	225100	50	2510050A	784	T-314	SCHMIDT	0.5	DA		AST1946H			

REVIEWED

Laboratory Worksheet

Due: **Expires:** **4/18/2025** **225100** **1**

Client: C.E. Schmidt
Client ID: T-101
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 668
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

	Date:			
Initial :	723			
Final:	871			
Factor:	1.20			

Sampled: 3/19/2025 **Time:** 8:40
Received: 3/21/2025 **Time:** 14:30

LABORATORY **Analytical Test:** **Sample Location:** Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 2

Client: C.E. Schmidt
Client ID: T-102
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 895
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:50
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	734			
Final:	913			
Factor:	1.24			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 3

Client: C.E. Schmidt
Client ID: T-103
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 881
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 8:44
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	728			
Final:	870			
Factor:	1.20			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 4

Client: C.E. Schmidt
Client ID: T-104
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 860
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:37
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	723			
Final:	947			
Factor:	1.31			

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 5

Client: C.E. Schmidt
Client ID: T-105
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 685
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 10:16
Received: 3/21/2025 **Time:** 14:30

Date:				
Initial :	719			
Final:	882			
Factor:	1.23			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 6

Client: C.E. Schmidt
Client ID: T-106
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 621
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:22
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	718			
Final:	880			
Factor:	1.23			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 7

Client: C.E. Schmidt
Client ID: T-107
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 644
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:22
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	720		
Final:	888		
Factor:	1.23		

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 8

Client: C.E. Schmidt
Client ID: T-108
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 556
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 10:30
Received: 3/21/2025 **Time:** 14:30

Date:				
Initial :	702			
Final:	886			
Factor:	1.26			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 9

Client: C.E. Schmidt
Client ID: T-109
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 694
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 11:25
Received: 3/21/2025 **Time:** 14:30

Date:				
Initial :	713			
Final:	926			
Factor:	1.30			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 10

Client: C.E. Schmidt
Client ID: T-110
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 857
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 11:32
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	707			
Final:	901			
Factor:	1.27			

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 11

Client: C.E. Schmidt
Client ID: T-111
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 504
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:32
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	697			
Final:	871			
Factor:	1.25			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 12

Client: C.E. Schmidt
Client ID: T-112
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 631
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 11:38
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	714			
Final:	882			
Factor:	1.24			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 13

Client: C.E. Schmidt
Client ID: T-113
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 690
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 13:05
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	705			
Final:	870			
Factor:	1.23			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 14

Client: C.E. Schmidt
Client ID: T-114
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 645
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:11
Received: 3/21/2025 Time: 14:30

Date:				
Initial :	701			
Final:	888			
Factor:	1.27			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 15

Client: C.E. Schmidt
Client ID: T-115
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 654
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 12:53
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	696			
Final:	881			
Factor:	1.27			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 16

Client: C.E. Schmidt
Client ID: T-116
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 782
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:03
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	706			
Final:	881			
Factor:	1.25			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 17

Client: C.E. Schmidt
Client ID: T-117
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 643
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 13:03
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	709			
Final:	883			
Factor:	1.25			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/18/2025 225100 18

Client: C.E. Schmidt
Client ID: T-118
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 553
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 **Time:** 13:25
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	783			
Final:	891			
Factor:	1.14			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs A-C

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 19

Client: C.E. Schmidt
Client ID: T-201
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 726
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 8:23
Received: 3/21/2025 **Time:** 14:30

	Initial :	Final:	Factor:
Date:			
	738	895	1.21

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 20

Client: C.E. Schmidt
Client ID: T-202
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 883
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:38
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	739			
Final:	873			
Factor:	1.18			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 **225100** **21**

Client: C.E. Schmidt
Client ID: T-203
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 858
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 8:33
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	735			
Final:	879			
Factor:	1.20			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 22

Client: C.E. Schmidt
Client ID: T-204
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 758
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:29
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	743			
Final:	874			
Factor:	1.18			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 23

Client: C.E. Schmidt
Client ID: T-205
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 659
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 10:00
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	708			
Final:	897			
Factor:	1.27			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 24

Client: C.E. Schmidt
Client ID: T-206
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 882
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 9:55
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	710			
Final:	883			
Factor:	1.24			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 25

Client: C.E. Schmidt
Client ID: T-207
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 627
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 10:05
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	692		
Final:	904		
Factor:	1.31		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 26

Client: C.E. Schmidt
Client ID: T-208
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 791
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 10:08
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	709			
Final:	890			
Factor:	1.26			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 27

Client: C.E. Schmidt
Client ID: T-209
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 778
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:21
Received: 3/21/2025 Time: 14:30

Date:				
Initial :	682			
Final:	887			
Factor:	1.30			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 28

Client: C.E. Schmidt
Client ID: T-210
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 714
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:21
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	695			
Final:	882			
Factor:	1.27			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 29

Client: C.E. Schmidt
Client ID: T-211
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 629
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 11:26
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	685			
Final:	881			
Factor:	1.29			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 30

Client: C.E. Schmidt
Client ID: T-212
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 502
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 11:30
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	687			
Final:	930			
Factor:	1.35			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 31

Client: C.E. Schmidt
Client ID: T-213
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 712
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:30
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	678			
Final:	905			
Factor:	1.33			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 32

Client: C.E. Schmidt
Client ID: T-214
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 610
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:57
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	786			
Final:	875			
Factor:	1.11			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 **225100** **33**

Client: C.E. Schmidt
Client ID: T-215
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 751
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 12:44
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	677			
Final:	874			
Factor:	1.29			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** **4/19/2025** **225100** **34**

Client: C.E. Schmidt
Client ID: T-216
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 896
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 **Time:** 12:46
Received: 3/21/2025 **Time:** 14:30

Date:				
Initial :	632			
Final:	874			
Factor:	1.38			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 35

Client: C.E. Schmidt
Client ID: T-217
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 634
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:48
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	693			
Final:	881			
Factor:	1.27			

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/19/2025 225100 36

Client: C.E. Schmidt
Client ID: T-218
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 698
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:
Initial : 692
Final: 877
Factor: 1.27

Sampled: 3/20/2025 **Time:** 12:42
Received: 3/21/2025 **Time:** 14:30

Date:			

LABORATORY

Analytical Test:
Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions
Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 37

Client: C.E. Schmidt
Client ID: T-301
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 638
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 7:58
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	738			
Final:	879			
Factor:	1.19			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 38

Client: C.E. Schmidt
Client ID: T-302
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 857
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 8:04
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	734			
Final:	872			
Factor:	1.19			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 39

Client: C.E. Schmidt
Client ID: T-303
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 552
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 **Time:** 8:05
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	727			
Final:	877			
Factor:	1.21			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 40

Client: C.E. Schmidt
Client ID: T-304
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 529
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 7:58
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	731			
Final:	878			
Factor:	1.20			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 41

Client: C.E. Schmidt
Client ID: T-305
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 660
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:22
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	709			
Final:	871			
Factor:	1.23			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 42

Client: C.E. Schmidt
Client ID: T-306
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 859
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 **Time:** 9:13
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	722			
Final:	874			
Factor:	1.21			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 43

Client: C.E. Schmidt
Client ID: T-307
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 636
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 **Time:** 9:10
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	720			
Final:	878			
Factor:	1.22			

LABORATORY **Analytical Test:** **Sample Location:** Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions **Sample Type:**

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 44

Client: C.E. Schmidt
Client ID: T-308
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 661
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 **Time:** 9:18
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	717			
Final:	875			
Factor:	1.22			

LABORATORY

Analytical Test:

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 45

Client: C.E. Schmidt
Client ID: T-309
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 579
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:24
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	726			
Final:	877			
Factor:	1.21			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 **225100** **46**

Client: C.E. Schmidt
Client ID: T-310
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 771
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 **Time:** 10:48
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	679			
Final:	874			
Factor:	1.29			

LABORATORY

Analytical Test:

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 47

Client: C.E. Schmidt
Client ID: T-311
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 605
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:35
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	680			
Final:	873			
Factor:	1.28			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 **225100** **48**

Client: C.E. Schmidt
Client ID: T-312
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 **EAS PM:** David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 990
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 **Time:** 10:30
Received: 3/21/2025 **Time:** 14:30

	Date:			
Initial :	689			
Final:	913			
Factor:	1.33			

LABORATORY

Analytical Test:

Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions

Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 49

Client: C.E. Schmidt
Client ID: T-313
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 549
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:31
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	695			
Final:	872			
Factor:	1.25			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Laboratory Worksheet

Due: **Expires:** 4/20/2025 225100 50

Client: C.E. Schmidt
Client ID: T-314
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 784
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:38
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	701			
Final:	876			
Factor:	1.25			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Sample Data Packages

SDG Number **225100**

Lab Id Number **1**

Client ID T-101

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 01

File Name: 2510001A
Description: T-101
Can/Tube#: 668
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 8:40
Date Analyzed: 03/25/25 **Time:** 11:30

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.029	0.087	4.369	241	723	43,690	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**01**			Cal Update:	**04/15/24**
File Name:	**2510001A**			SF:	3
Description:	**T-101**			Not Detected Flag:	ND
Date Sampled:	**03/19/25**	Time:	**8:40**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**11:30**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**668**				
Can Factor:	**1.20**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**49300**	4.37	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 01

File Name:	2510001A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.20		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.20		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	4.369	4.369	43,690	43,690	4.369	200	0.024	0.029	0.087	241	723			=		Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 1

Client: C.E. Schmidt
Client ID: T-101
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 668
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:40
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	723		
Final:	871		
Factor:	1.20		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

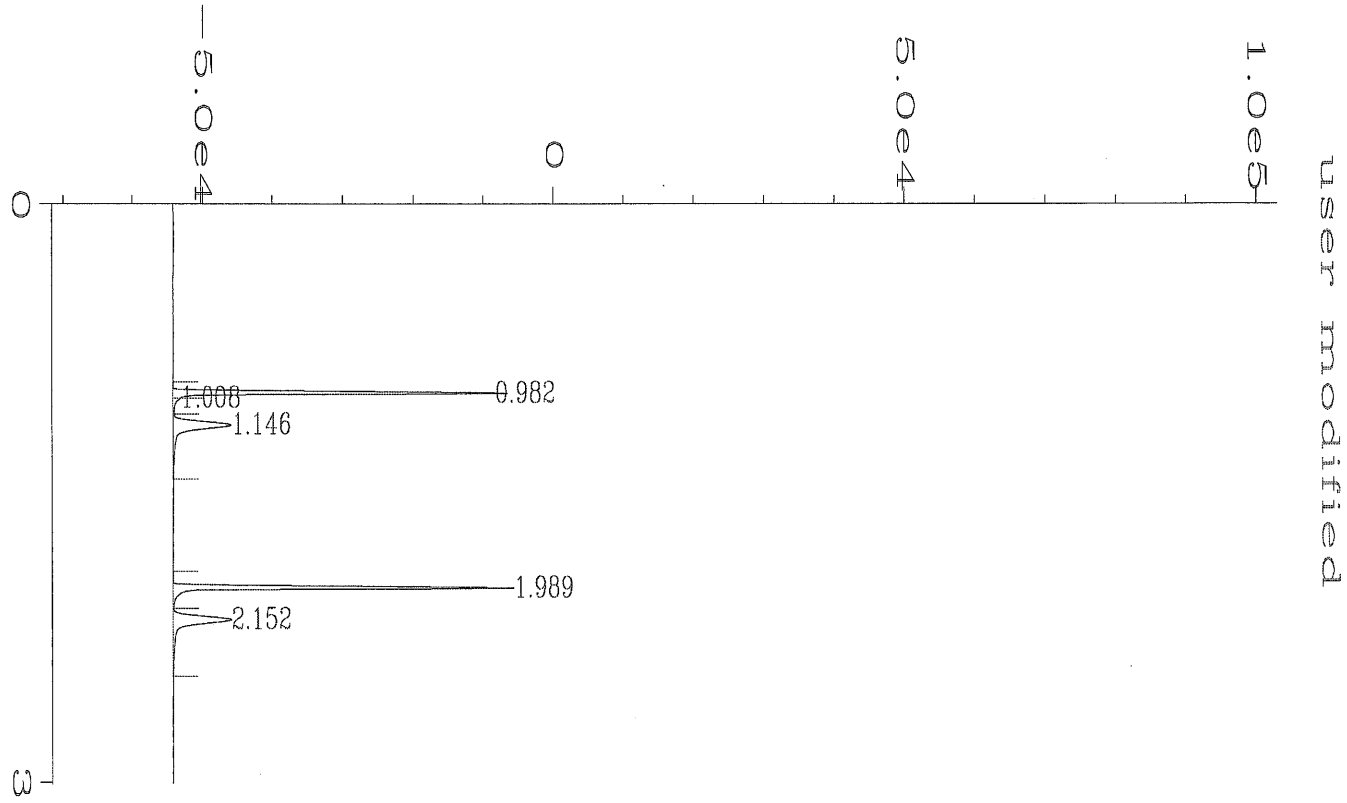
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510001A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-101
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 11:30 AM
Instrument Method: AST1946H.MTH
Report Created on: 27 Mar 25 01:21 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510001A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.982	49300	49580	MF	0.017	32.4283
2	1.008	1671	1116	FM	0.025	1.0989
3	1.146	25001	8315	FV	0.045	16.4451
4	1.989	51295	50574	PV	0.033	33.7402
5	2.152	24762	8355	VV	0.045	16.2876

Total area = 152029

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **2**

Client ID T-102

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 02

File Name: 2510002A
Description: T-102
Can/Tube#: 895
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 8:50
Date Analyzed: 03/25/25 **Time:** 11:34

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.031	0.093	4.082	249	746	40,820	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**02**			Cal Update:	**04/15/24**
File Name:	**2510002A**			SF:	3
Description:	**T-102**			Not Detected Flag:	ND
Date Sampled:	**03/19/25**	Time:	**8:50**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**11:34**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**895**				
Can Factor:	**1.24**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**44611**	4.08	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 02

File Name:	2510002A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.24		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.24		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	4.082	4.082	40,820	40,820	4.082	200	0.025	0.031	0.093	249	746			=		Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 2

Client: C.E. Schmidt
Client ID: T-102
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 895
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:50
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	734		
Final:	913		
Factor:	1.24		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

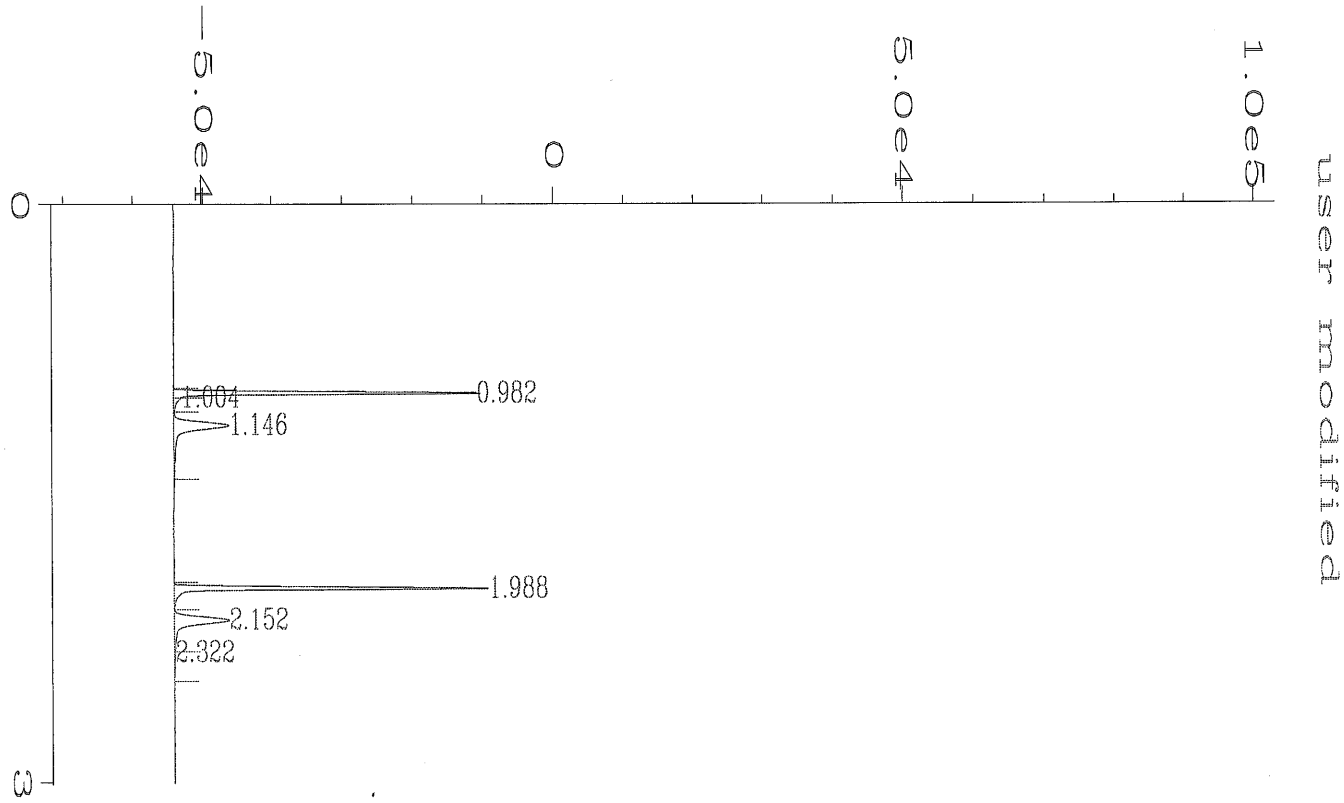
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510002A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-102
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 11:34 AM
Instrument Method: AST1946H.MTH
Report Created on: 27 Mar 25 01:23 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510002A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.982	44611	46812	MF	0.016	31.8011
2	1.004	1658	1043	FM	0.026	1.1820
3	1.146	24135	7971	FV	0.045	17.2048
4	1.988	46342	47167	BV	0.025	33.0351
5	2.152	22754	7999	VV	0.043	16.2203
6	2.322	781	204	VV	0.064	0.5567

Total area = 140281

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **3**

Client ID T-103

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 03

File Name: 2510003A
Description: T-103
Can/Tube#: 881
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 8:44
Date Analyzed: 03/25/25 **Time:** 11:38

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.029	0.086	2.563	239	717	25,625	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**03**			Cal Update:	**04/15/24**
File Name:	**2510003A**			SF:	3
Description:	**T-103**			Not Detected Flag:	ND
Date Sampled:	**03/19/25**	Time:	**8:44**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**11:38**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**881**				
Can Factor:	**1.20**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**29149**	2.56	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 03

File Name:	2510003A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.20		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.20		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	2.563	2.563	25,625	25,625	2.563	200	0.024	0.029	0.086	239	717			=		Y

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 3

Client: C.E. Schmidt
Client ID: T-103
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 881
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:44
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	728		
Final:	870		
Factor:	1.20		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

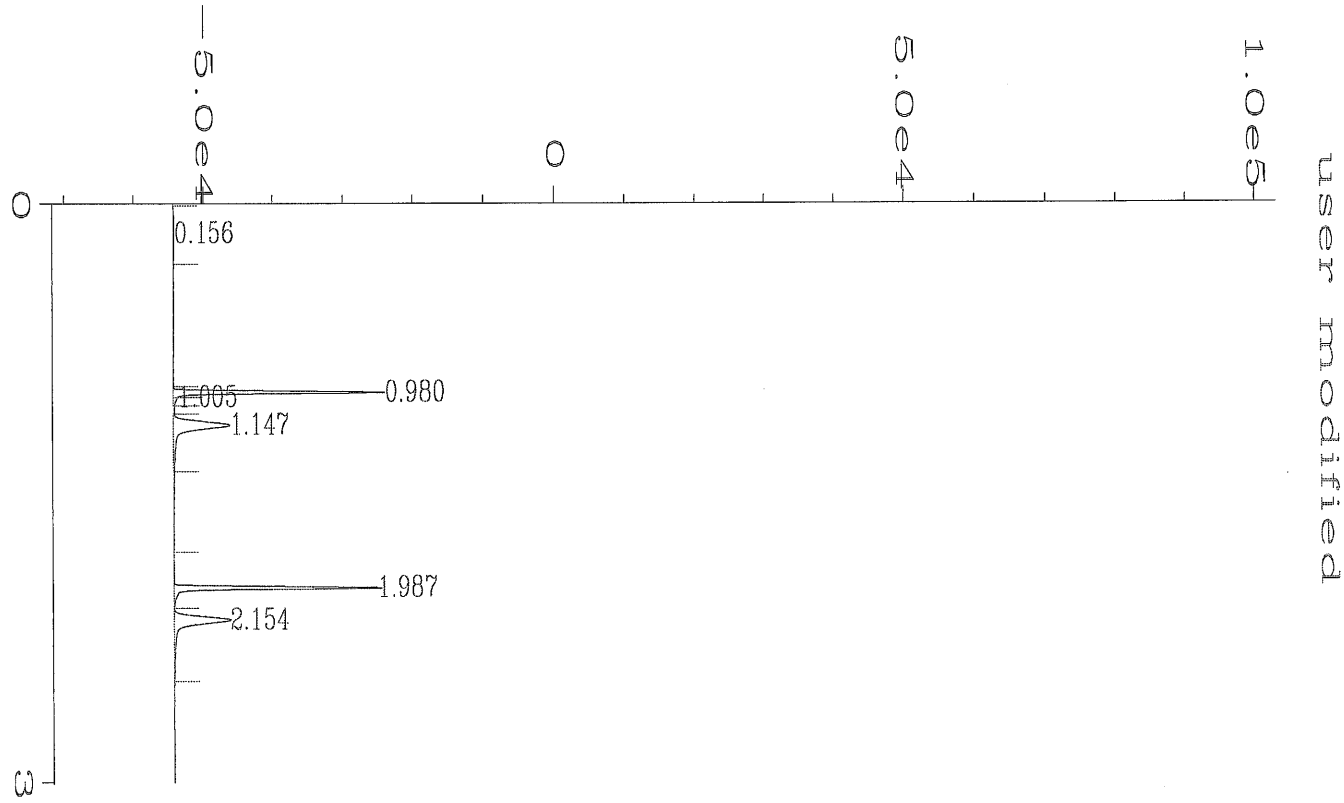
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510003A.D
Operator : DA
Instrument : GCL
Sample Name : T-103
Run Time Bar Code:
Acquired on : 25 Mar 25 11:38 AM
Report Created on: 27 Mar 25 01:26 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510003A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.156	1010	167	BB	0.102	0.9061
2	0.980	29149	30706	MF	0.016	26.1436
3	1.005	973	616	FM	0.026	0.8729
4	1.147	25434	8121	FV	0.047	22.8117
5	1.987	30938	30176	PV	0.026	27.7478
6	2.154	23991	8140	VV	0.045	21.5178

Total area = 111495

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **4**

Client ID T-104

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 04

File Name: 2510004A
Description: T-104
Can/Tube#: 860
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 8:37
Date Analyzed: 03/25/25 **Time:** 11:42

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.034	0.103	4.404	262	786	44,043	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**04**			Cal Update:	**04/15/24**
File Name:	**2510004A**			SF:	3
Description:	**T-104**			Not Detected Flag:	ND
Date Sampled:	**03/19/25**	Time:	**8:37**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**11:42**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**860**				
Can Factor:	**1.31**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**45709**	4.40	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 04

File Name:	2510004A	Detect Flag:	ND		
QCBatch	032525-GCO	Report Normalized:	No		
Can Factor	1.31	Decimal Places:	3		
Air Volume:	0.5 ml	Temp	25 C		
Base Volume	0.5 ml	Atm P	760 torr		
Dilution Factor	1.31	Gas Constant	24.4		
Gas Constant:	24.4	RL Factor	3		

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	4.404	4.404	44,043	44,043	4.404	200	0.026	0.034	0.103	262	786			=		Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 4

Client: C.E. Schmidt
Client ID: T-104
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 860
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 8:37
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	723		
Final:	947		
Factor:	1.31		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

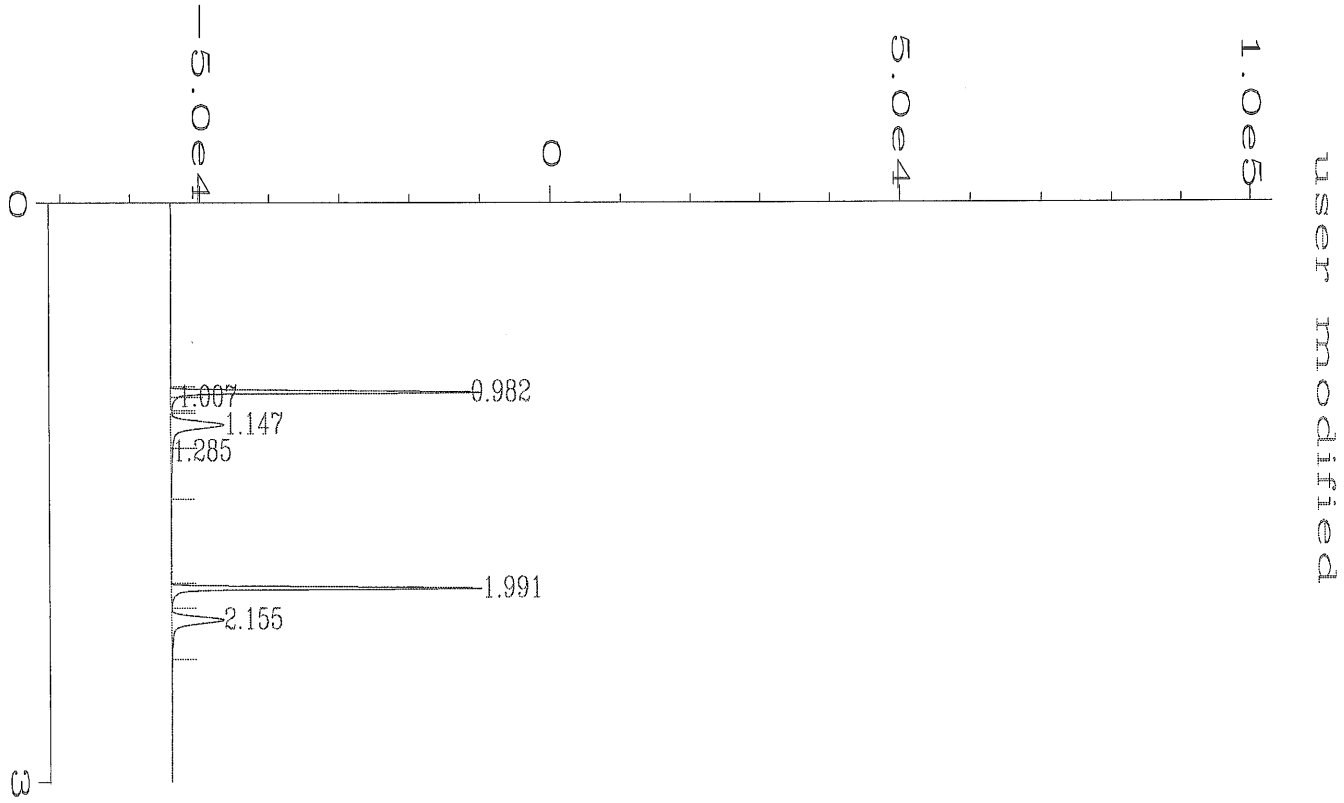
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510004A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-104
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 11:42 AM
Instrument Method: AST1946H.MTH
Report Created on: 27 Mar 25 01:27 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510004A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.982	45709	46010	MF	0.017	32.5223
2	1.007	1712	1095	FM	0.026	1.2182
3	1.147	22654	7678	FV	0.045	16.1184
4	1.285	2088	288	VV	0.090	1.4855
5	1.991	47032	44707	BV	0.017	33.4633
6	2.155	21352	7584	VV	0.043	15.1924

Total area = 140547

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **5**

Client ID T-105

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 05

File Name: 2510005A
Description: T-105
Can/Tube#: 685
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 10:16
Date Analyzed: 03/25/25 **Time:** 11:49

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.030	0.090	2.705	245	736	27,053	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**05**			Cal Update:	**04/15/24**
File Name:	**2510005A**			SF:	3
Description:	**T-105**			Not Detected Flag:	ND
Date Sampled:	**03/19/25**	Time:	**10:16**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**11:49**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**685**				
Can Factor:	**1.23**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**29979**	2.71	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 05

File Name:	2510005A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.23		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.23		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	2.705	2.705	27,053	27,053	2.705	200	0.025	0.030	0.090	245	736			=		Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 5

Client: C.E. Schmidt
Client ID: T-105
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 685
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:16
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	719		
Final:	882		
Factor:	1.23		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

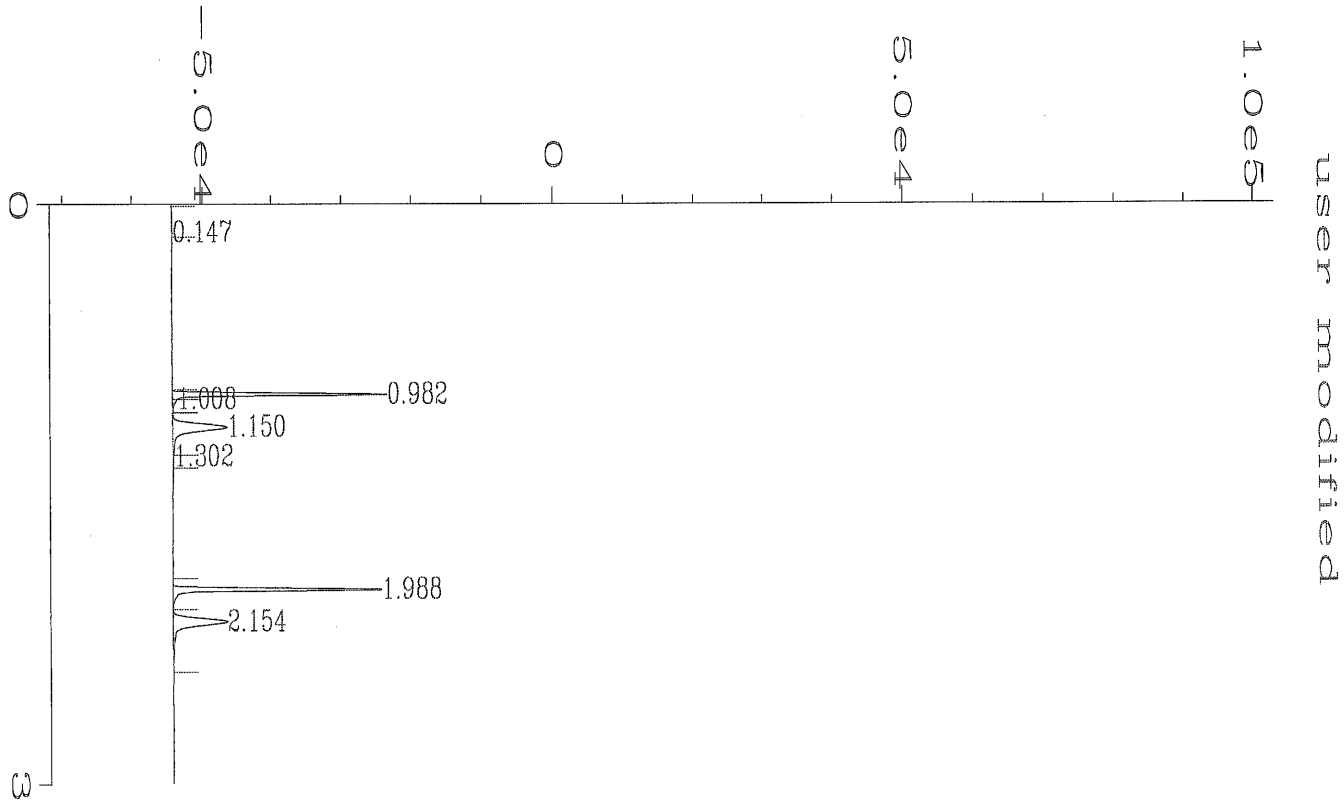
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510005A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-105
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 11:49 AM
Instrument Method: AST1946H.MTH
Report Created on: 27 Mar 25 01:28 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510005A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.147	299	48	BF	0.079	0.2797
2	0.982	29979	31467	MF	0.016	28.0783
3	1.008	886	609	FM	0.024	0.8300
4	1.150	21996	7763	FV	0.043	20.6021
5	1.302	241	120	VV	0.033	0.2260
6	1.988	31159	30805	BV	0.016	29.1836
7	2.154	22208	7812	VV	0.043	20.8002

Total area = 106768

User Modified

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Sample Data Packages

SDG Number 225100

Lab Id Number 6

Client ID T-106

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 06

File Name: 2510006A
Description: T-106
Can/Tube#: 621
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 10:22
Date Analyzed: 03/25/25 **Time:** 11:53

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.030	0.090	1.541	245	735	15,414	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**06**			Cal Update:	**04/15/24**
File Name:	**2510006A**			SF:	3
Description:	**T-106**			Not Detected Flag:	ND
Date Sampled:	**03/19/25**	Time:	**10:22**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**11:53**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**621**				
Can Factor:	**1.23**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**17096**	1.54	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 06

File Name:	2510006A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.23		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.23		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	1.541	1.541	15,414	15,414	1.541	200	0.025	0.030	0.090	245	735			=		Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 6

Client: C.E. Schmidt
Client ID: T-106
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 621
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:22
Received: 3/21/2025 Time: 14:30

Date:
Initial : 718
Final: 880
Factor: 1.23

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

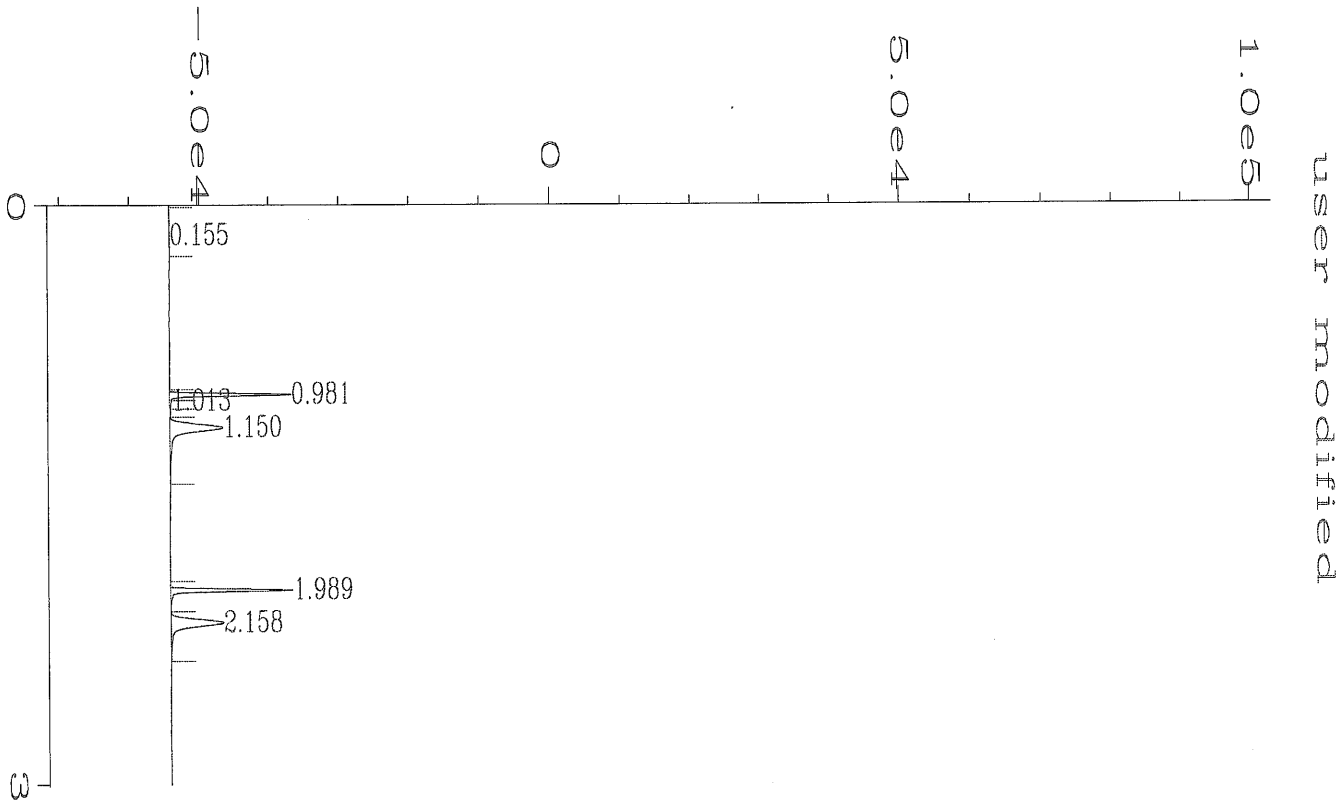
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510006A.D
Operator : DA
Instrument : GCL
Sample Name : T-106
Run Time Bar Code:
Acquired on : 25 Mar 25 11:53 AM
Report Created on: 28 Mar 25 12:32 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510006A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.155	767	90	BF	0.117	0.9765
2	0.981	16628	17751	MF	0.016	21.1783
3	1.013	472	282	FM	0.028	0.6016
4	1.150	22697	7655	FV	0.045	28.9072
5	1.989	17086	17988	PV	0.023	21.7618
6	2.158	20865	7635	VV	0.042	26.5746

Total area = 78516

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **7**

Client ID T-107

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 07

File Name: 2510007A
Description: T-107
Can/Tube#: 644
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 10:22
Date Analyzed: 03/25/25 **Time:** 11:57

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.030	0.091	4.043	247	740	40,426	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**07**			Cal Update:	**04/15/24**
File Name:	**2510007A**			SF:	3
Description:	**T-107**			Not Detected Flag:	ND
Date Sampled:	**03/19/25**	Time:	**10:22**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**11:57**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**644**				
Can Factor:	**1.23**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**44558**	4.04	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 07

File Name:	2510007A	Detect Flag:	ND		
QCBatch	032525-GCO	Report Normalized:	No		
Can Factor	1.23	Decimal Places:	3		
Air Volume:	0.5 ml	Temp	25 C		
Base Volume	0.5 ml	Atm P	760 torr		
Dilution Factor	1.23	Gas Constant	24.4		
Gas Constant:	24.4	RL Factor	3		

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	4.043	4.043	40,426	40,426	4.043	200	0.025	0.030	0.091	247	740			=		Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 7

Client: C.E. Schmidt
Client ID: T-107
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 644
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:22
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	720		
Final:	888		
Factor:	1.23		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

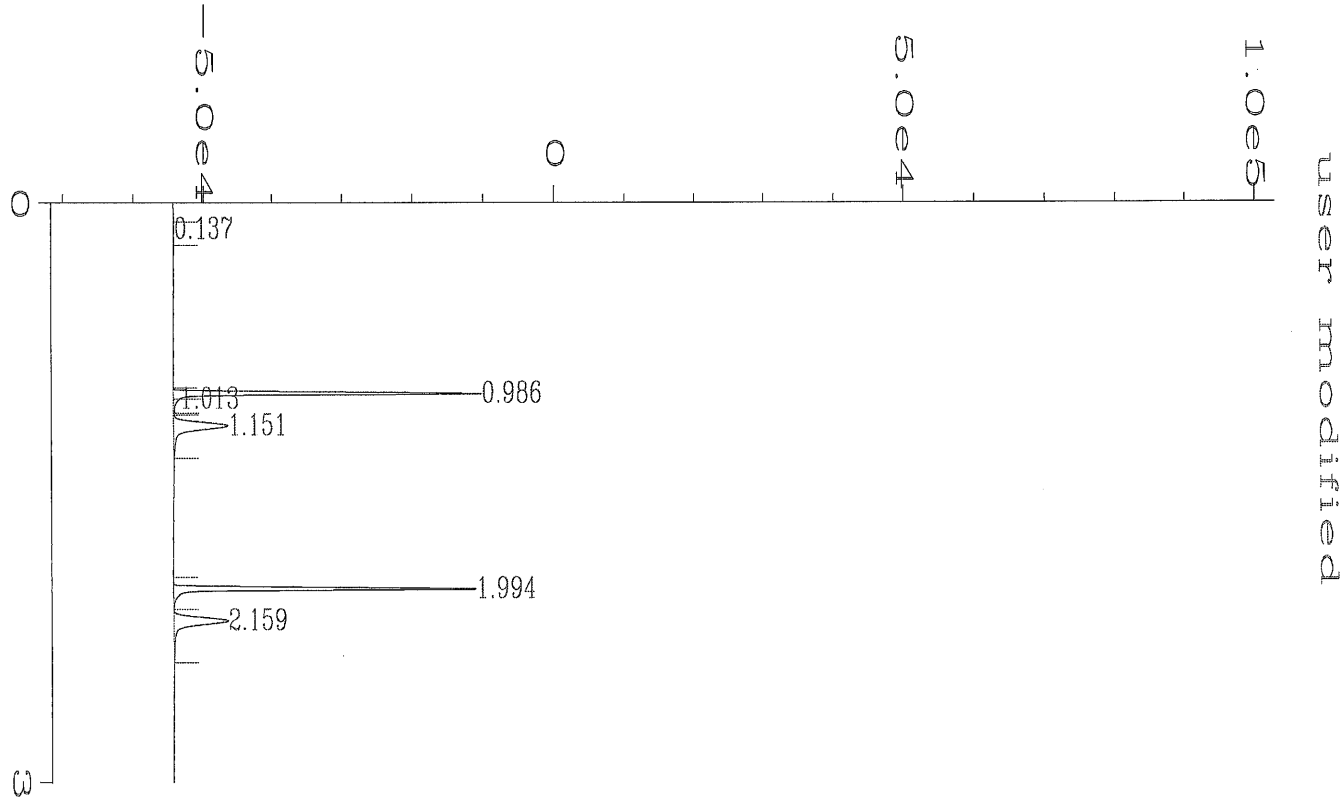
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510007A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-107
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 11:57 AM
Instrument Method: AST1946H.MTH
Report Created on: 27 Mar 25 01:30 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510007A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.137	381	125	VB	0.040	0.2779
2	0.986	44558	45451	MF	0.016	32.5239
3	1.013	1382	970	FM	0.024	1.0087
4	1.151	22249	7880	FV	0.043	16.2404
5	1.994	46286	44307	PV	0.025	33.7855
6	2.159	22144	7946	VV	0.043	16.1636

Total area = 136999

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **8**

Client ID T-108

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 08

File Name: 2510008A
Description: T-108
Can/Tube#: 556
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 10:30
Date Analyzed: 03/25/25 **Time:** 12:00

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.032	0.096	2.020	252	757	20,204	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**08**			Cal Update:	**04/15/24**
File Name:	**2510008A**			SF:	3
Description:	**T-108**			Not Detected Flag:	ND
Date Sampled:	**03/19/25**	Time:	**10:30**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**12:00**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**556**				
Can Factor:	**1.26**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**21761**	2.02	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 08

File Name:	2510008A	Detect Flag:	ND		
QCBatch	032525-GCO	Report Normalized:	No		
Can Factor	1.26	Decimal Places:	3		
Air Volume:	0.5 ml	Temp	25	C	
Base Volume	0.5 ml	Atm P	760	torr	
Dilution Factor	1.26	Gas Constant	24.4		
Gas Constant:	24.4	RL Factor	3		

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	2.020	2.020	20,204	20,204	2.020	200	0.025	0.032	0.096	252	757			=		Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 8

Client: C.E. Schmidt
Client ID: T-108
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 556
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 10:30
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	702			
Final:	886			
Factor:	1.26			

LABORATORY

Analytical Test:

Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions

Sample Type:

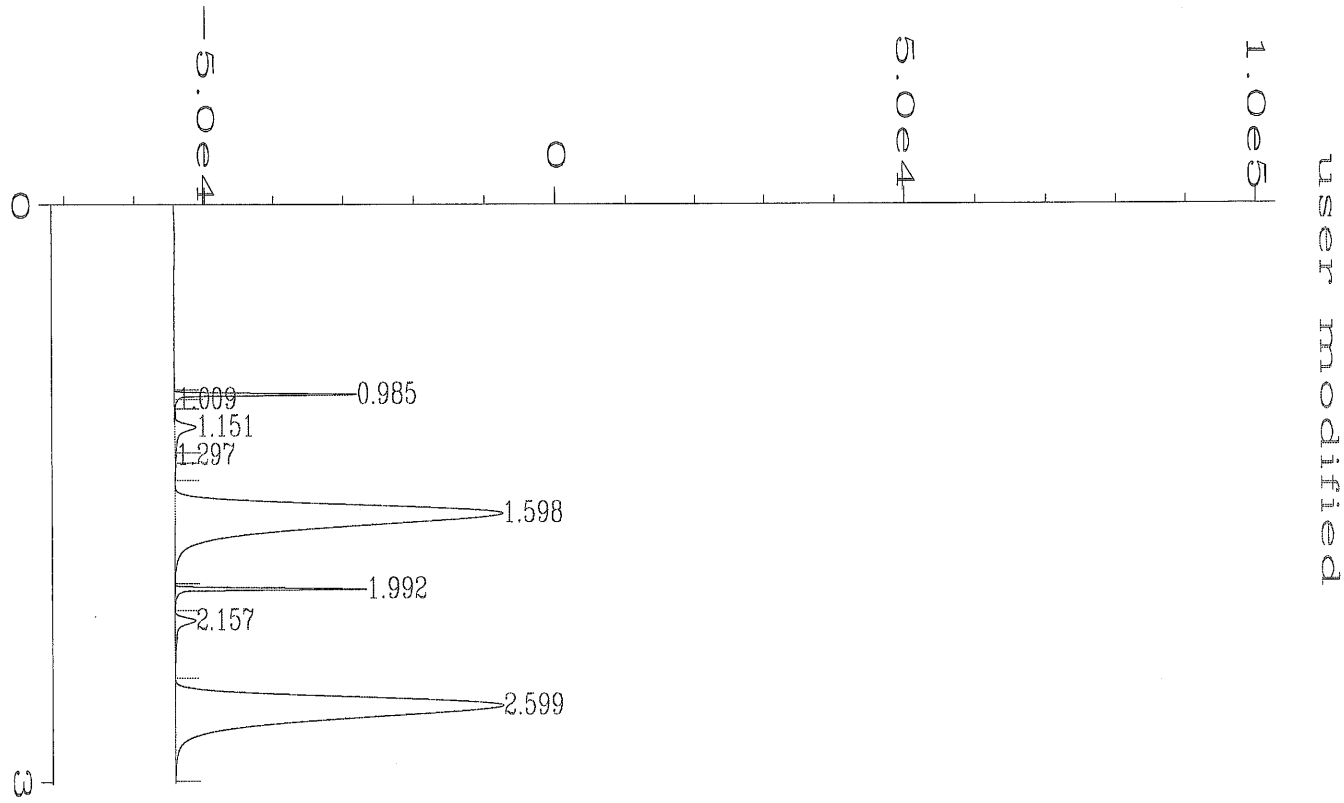
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions: EAS QC Criteria

Report Types: PDF Only

EDD Instructions EDD Type:



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510008A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-108
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 12:00 PM
Instrument Method: AST1946H.MTH
Report Created on: 27 Mar 25 01:32 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510008A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.985	21761	27111	MF	0.013	2.7428
2	1.009	682	512	FM	0.022	0.0860
3	1.151	10097	3013	FV	0.049	1.2727
4	1.297	276	130	VV	0.031	0.0348
5	1.598	364234	46732	BV	0.121	45.9104
6	1.992	22580	28867	VV	0.021	2.8461
7	2.157	9583	2943	PV	0.048	1.2080
8	2.599	364145	46849	PBA	0.121	45.8992

Total area = 793358

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **9**

Client ID T-109

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ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 09

File Name: 2510009A
Description: T-109
Can/Tube#: 694
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 11:25
Date Analyzed: 03/25/25 **Time:** 12:05

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.034	0.101	1.721	260	779	17,207	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**09**			Cal Update:	**04/15/24**
File Name:	**2510009A**			SF:	3
Description:	**T-109**			Not Detected Flag:	ND
Date Sampled:	**03/19/25**	Time:	**11:25**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**12:05**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**694**				
Can Factor:	**1.30**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**18010**	1.72	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 09

File Name:	2510009A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.30		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.30		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	1.721	1.721	17,207	17,207	1.721	200	0.026	0.034	0.101	260	779			=		Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 9

Client: C.E. Schmidt
Client ID: T-109
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 694
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Initial : 713
Final: 926
Factor: 1.30

Sampled: 3/19/2025 Time: 11:25
Received: 3/21/2025 Time: 14:30

Date:

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

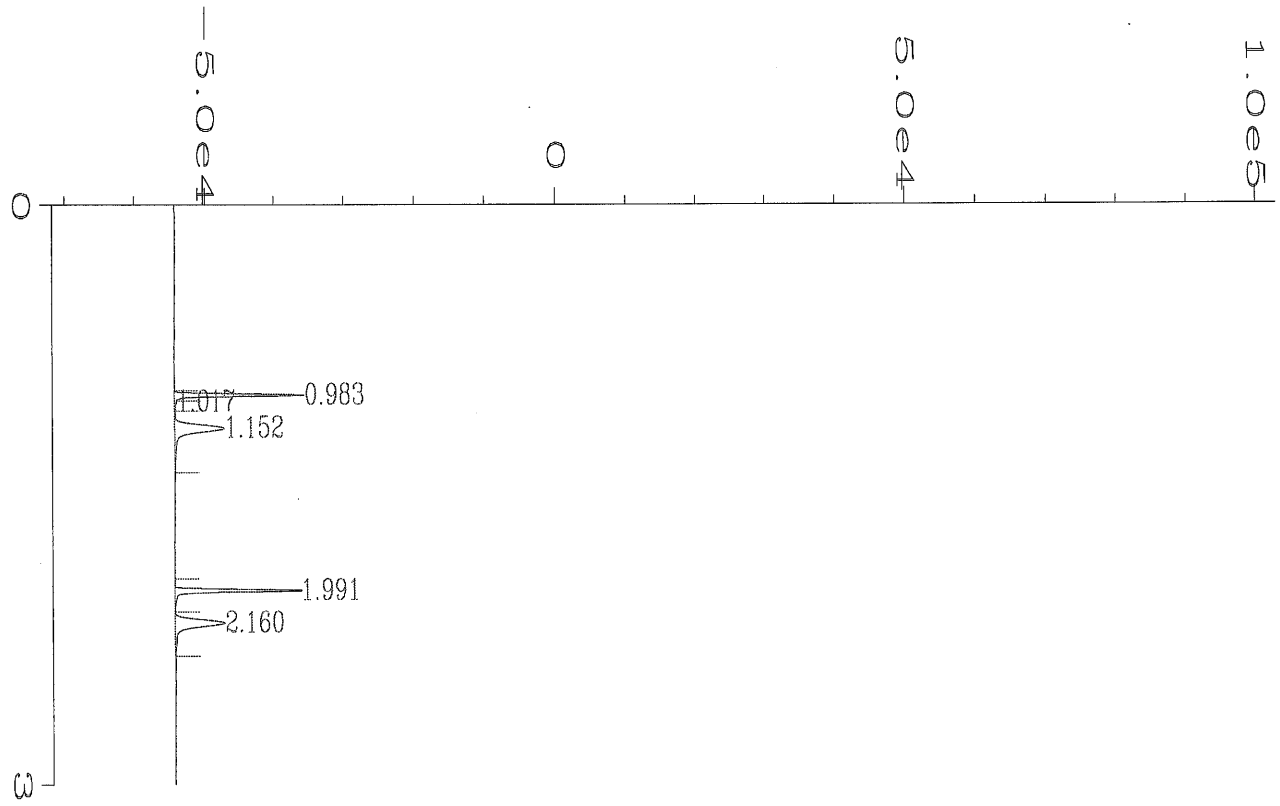
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510009A.D
Operator : DA
Instrument : GCL
Sample Name : T-109
Run Time Bar Code:
Acquired on : 25 Mar 25 12:05 PM
Report Created on: 27 Mar 25 01:33 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510009A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.983	18010	19165	MF	0.016	22.7970
2	1.017	561	323	FM	0.029	0.7106
3	1.152	21348	7268	FV	0.044	27.0222
4	1.991	18739	18979	BV	0.016	23.7193
5	2.160	20344	7285	VV	0.043	25.7510

Total area = 79002

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **10**

Client ID T-110

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Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 10

File Name: 2510010A
Description: T-110
Can/Tube#: 857
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 11:32
Date Analyzed: 03/25/25 **Time:** 12:09

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.032	0.097	2.617	255	765	26,172	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**10**			Cal Update:	**04/15/24**
File Name:	**2510010A**			SF:	3
Description:	**T-110**			Not Detected Flag:	ND
Date Sampled:	**03/19/25**	Time:	**11:32**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**12:09**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**857**				
Can Factor:	**1.27**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**27917**	2.62	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 10

File Name:	2510010A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.27		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.27		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	2.617	2.617	26,172	26,172	2.617	200	0.025	0.032	0.097	255	765			=		Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 10

Client: C.E. Schmidt
Client ID: T-110
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 857
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Initial : 707
Final: 901
Factor: 1.27

Sampled: 3/19/2025 Time: 11:32
Received: 3/21/2025 Time: 14:30

Date:

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

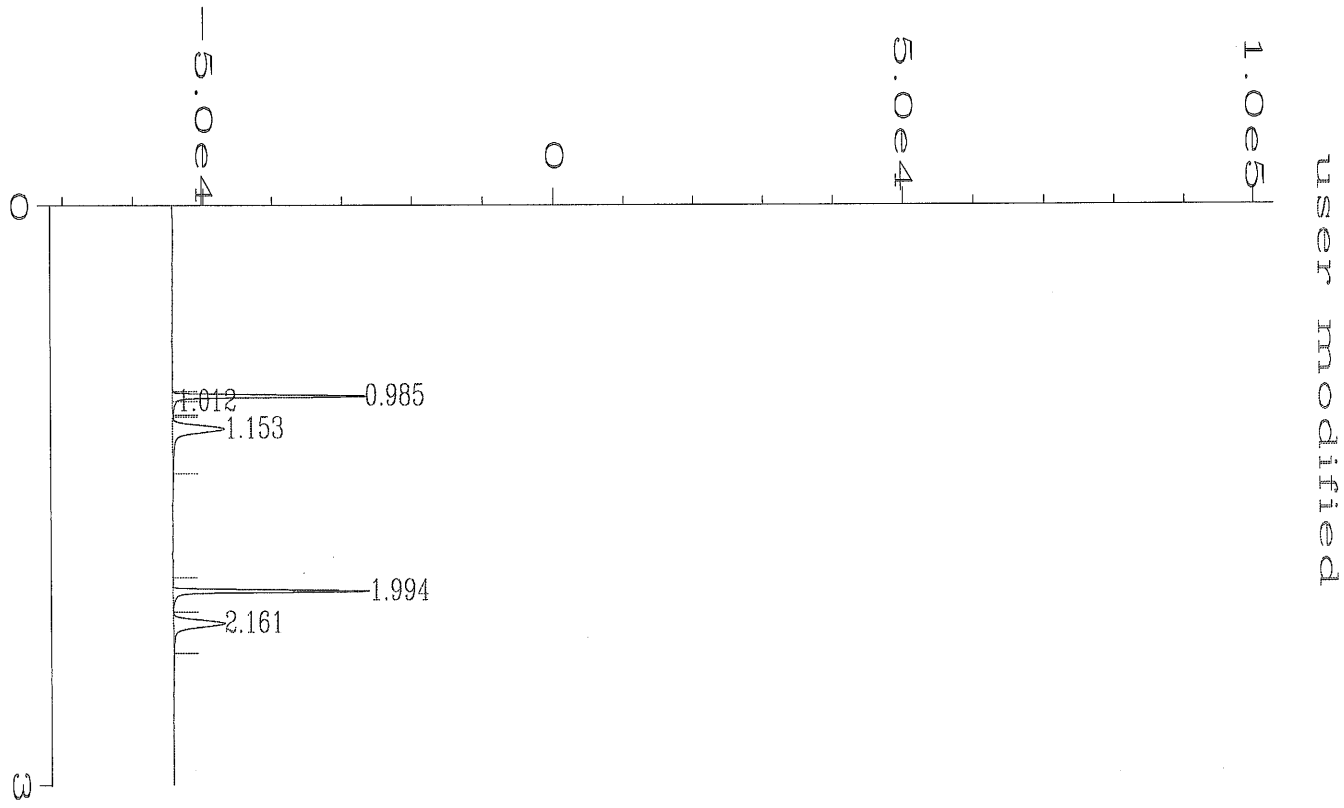
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510010A.D
Operator : DA
Instrument : GCL
Sample Name : T-110
Run Time Bar Code:
Acquired on : 25 Mar 25 12:09 PM
Report Created on: 27 Mar 25 01:34 PM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510010A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.985	27917	29221	MF	0.016	28.0955
2	1.012	1051	621	FM	0.028	1.0581
3	1.153	21778	7462	FV	0.044	21.9171
4	1.994	28813	28787	PV	0.016	28.9967
5	2.161	19806	7411	VV	0.041	19.9327

Total area = 99365

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **11**

Client ID T-111

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945 **Laboratory Number:** 11

File Name: 2510011A
Description: T-111
Can/Tube#: 504
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 11:32
Date Analyzed: 03/25/25 **Time:** 12:13

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.031	0.094	4.711	250	750	47,111	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**11**			Cal Update:	**04/15/24**
File Name:	**2510011A**			SF:	3
Description:	**T-111**			Not Detected Flag:	ND
Date Sampled:	**03/19/25**	Time:	**11:32**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**12:13**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**504**				
Can Factor:	**1.25**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**51248**	4.71	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 11

File Name:	2510011A	Detect Flag:	ND		
QCBatch	032525-GCO	Report Normalized:	No		
Can Factor	1.25	Decimal Places:	3		
Air Volume:	0.5 ml	Temp	25 C		
Base Volume	0.5 ml	Atm P	760 torr		
Dilution Factor	1.25	Gas Constant	24.4		
Gas Constant:	24.4	RL Factor	3		

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	4.711	4.711	47,111	47,111	4.711	200	0.025	0.031	0.094	250	750			=		Y

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 11

Client: C.E. Schmidt
Client ID: T-111
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 504
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:32
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	697		
Final:	871		
Factor:	1.25		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

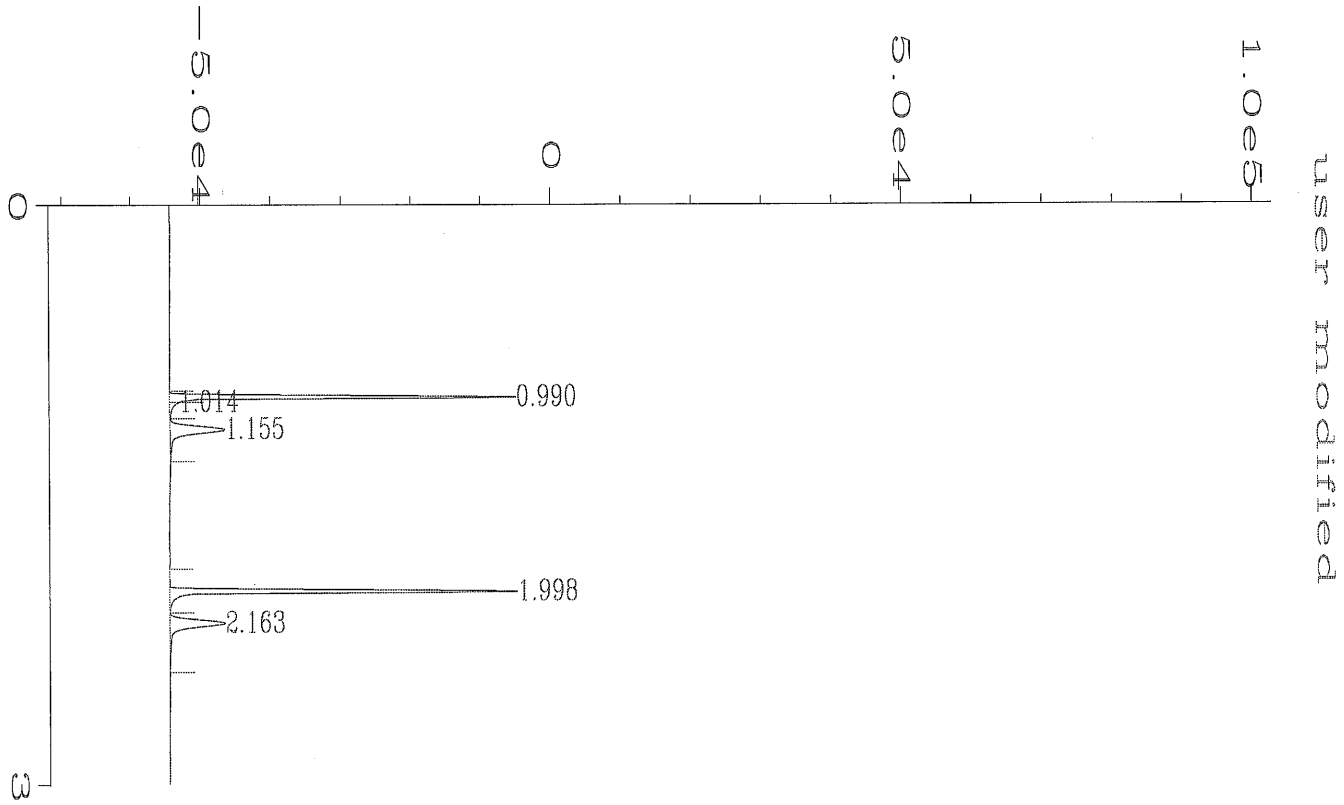
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510011A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-111
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 12:13 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 09:51 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510011A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.990	51248	50104	MF	0.017	34.0817
2	1.014	1766	1297	FM	0.023	1.1745
3	1.155	21751	7867	FV	0.043	14.4651
4	1.998	53588	52209	BV	0.033	35.6375
5	2.163	22016	7943	VV	0.042	14.6412

Total area = 150369

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **12**

Client ID T-112

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 12

File Name: 2510012A
Description: T-112
Can/Tube#: 631
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 11:38
Date Analyzed: 03/25/25 **Time:** 12:17

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.031	0.092	7.100	247	741	71,002	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**12**			Cal Update:	**04/15/24**
File Name:	**2510012A**			SF:	3
Description:	**T-112**			Not Detected Flag:	ND
Date Sampled:	**03/19/25**	Time:	**11:38**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**12:17**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**631**				
Can Factor:	**1.24**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**78134**	7.10	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 12

File Name:	2510012A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.24		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.24		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	7.100	7.100	71,002	71,002	7.100	200	0.025	0.031	0.092	247	741			=		Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 12

Client: C.E. Schmidt
Client ID: T-112
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 631
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 11:38
Received: 3/21/2025 Time: 14:30

Date:
Initial : 714
Final: 882
Factor: 1.24

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

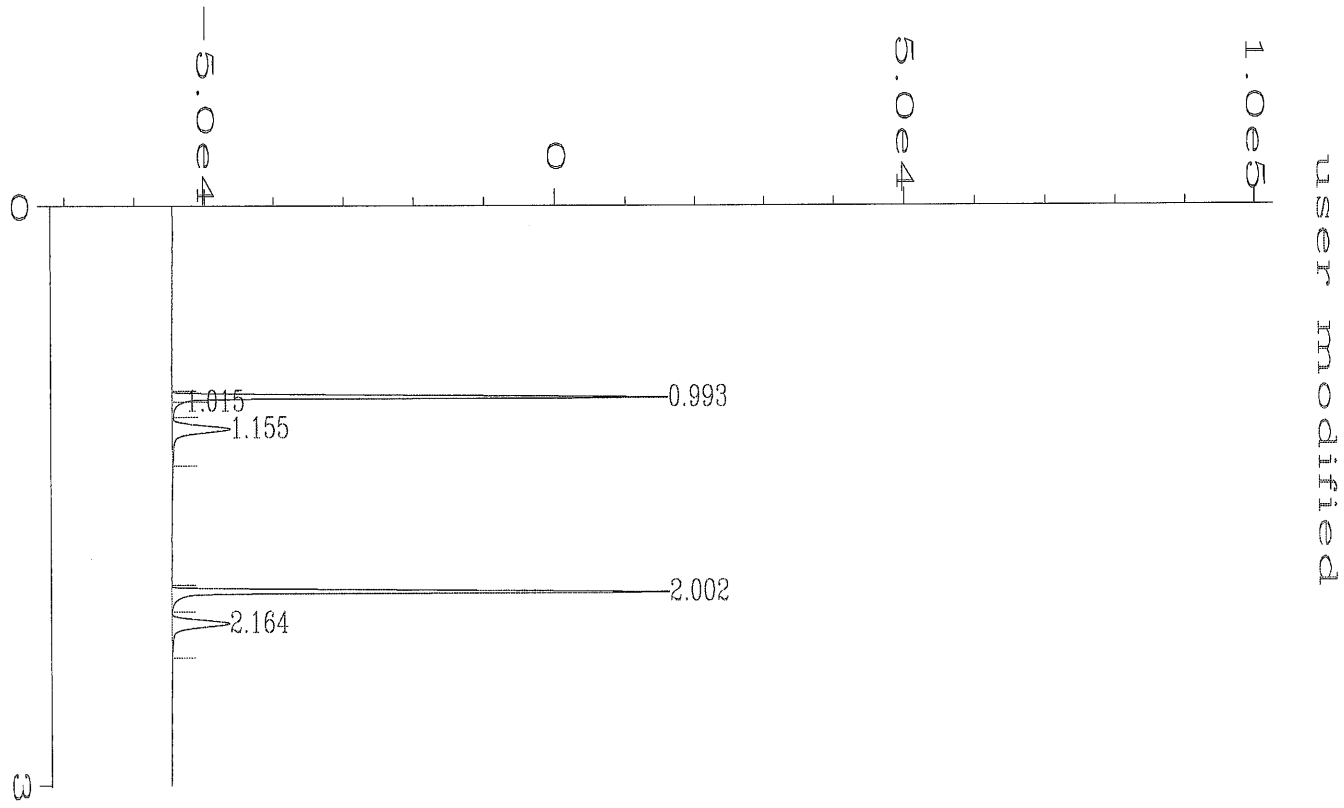
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510012A.D
Operator : DA
Instrument : GCL
Sample Name : T-112
Run Time Bar Code:
Acquired on : 25 Mar 25 12:17 PM
Report Created on: 28 Mar 25 10:04 AM
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510012A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.993	78134	71955	MF	0.018	37.5235
2	1.015	2583	1858	FM	0.023	1.2405
3	1.155	24139	8409	FV	0.044	11.5927
4	2.002	80626	72769	PV	0.034	38.7203
5	2.164	22744	8401	VV	0.042	10.9229

Total area = 208226

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **13**

Client ID T-113

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 13

File Name: 2510013A
Description: T-113
Can/Tube#: 690
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 13:05
Date Analyzed: 03/25/25 **Time:** 12:28

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.030	0.091	2.676	247	740	26,758	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**13**			Cal Update:	**04/15/24**
File Name:	**2510013A**			SF:	3
Description:	**T-113**			Not Detected Flag:	ND
Date Sampled:	**03/19/25**	Time:	**13:05**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**12:28**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**690**				
Can Factor:	**1.23**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**29476**	2.68	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 13

File Name:	2510013A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.23		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.23		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Result %	Calc Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	2.676	2.676	26,758	26,758	2.676	200	0.025	0.030	0.091	247	740			=		Y

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 13

Client: C.E. Schmidt
Client ID: T-113
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 690
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:05
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	705		
Final:	870		
Factor:	1.23		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

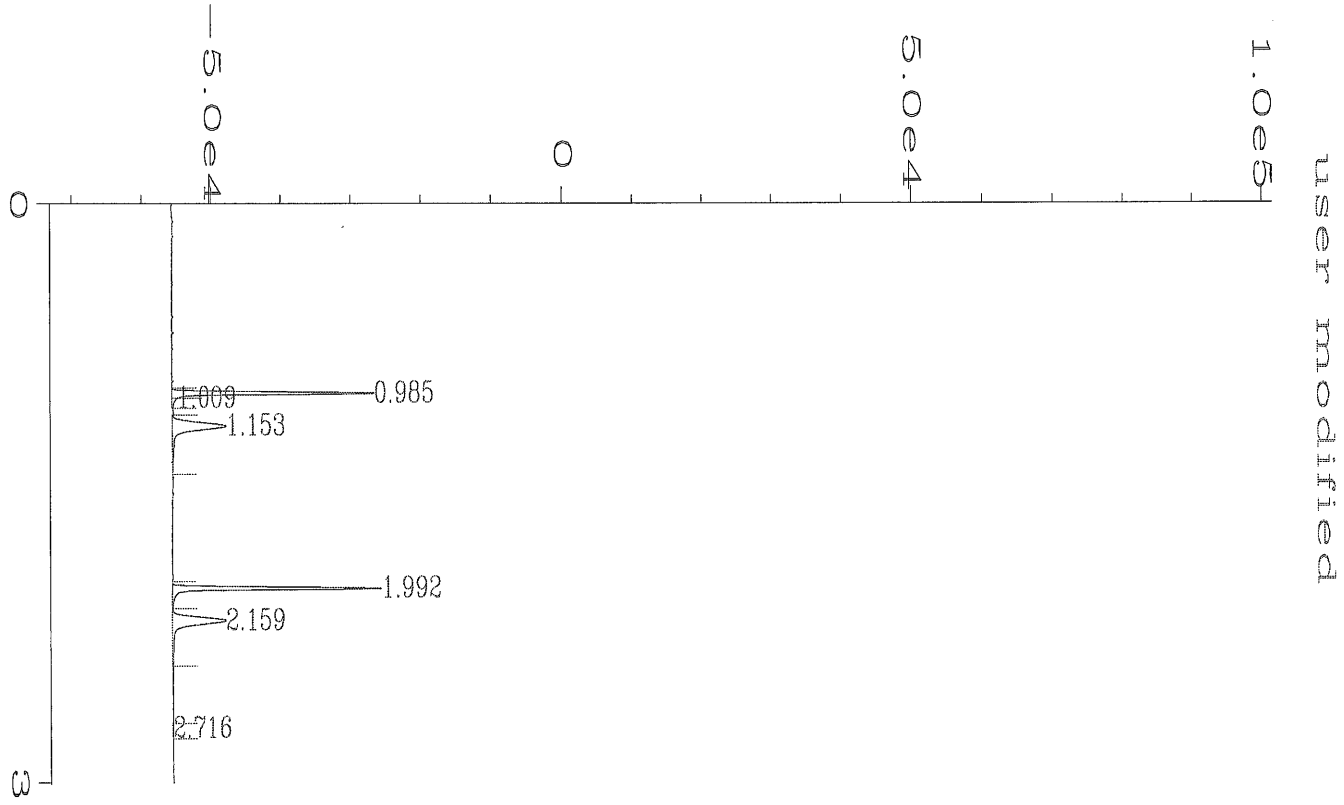
InstrumentMethod:	Item Description:	Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510013A.D
Operator : DA
Instrument : GCL
Sample Name : T-113
Run Time Bar Code:
Acquired on : 25 Mar 25 12:28 PM
Report Created on: 28 Mar 25 10:14 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510013A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.985	29476	29859	MF	0.016	27.6223
2	1.009	975	783	FM	0.021	0.9140
3	1.153	22463	7805	FV	0.044	21.0501
4	1.992	30726	30747	VV	0.025	28.7934
5	2.159	22753	7827	PV	0.044	21.3217
6	2.716	318	111	PB	0.043	0.2984

Total area = 106711

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **14**

Client ID T-114

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ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 14

File Name: 2510014A
Description: T-114
Can/Tube#: 645
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 13:11
Date Analyzed: 03/25/25 **Time:** 12:33

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.032	0.096	5.015	253	760	50,148	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**14**			Cal Update:	**04/15/24**
File Name:	**2510014A**			SF:	3
Description:	**T-114**			Not Detected Flag:	ND
Date Sampled:	**03/19/25**	Time:	**13:11**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**12:33**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**645**				
Can Factor:	**1.27**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**53815**	5.01	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 14

File Name:	2510014A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.27		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.27		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	5.015	5.015	50,148	50,148	5.015	200	0.025	0.032	0.096	253	760			=		Y

Laboratory Worksheet

Due: | Expires: 4/18/2025 | 225100 | 14

Client: C.E. Schmidt
Client ID: T-114
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 645
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:11
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	701		
Final:	888		
Factor:	1.27		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

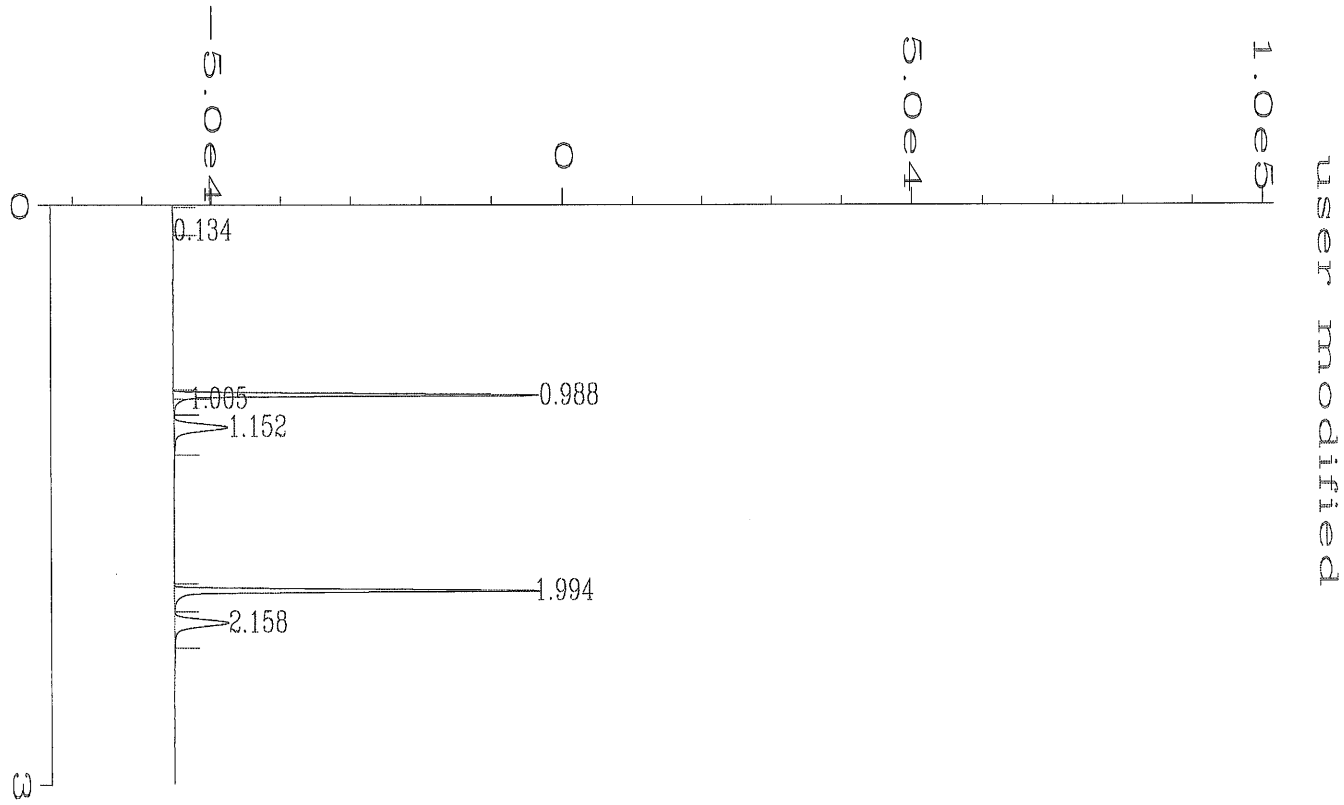
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510014A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-114
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 12:33 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 10:15 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510014A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.134	520	82	BF	0.081	0.3357
2	0.988	53815	52885	MF	0.017	34.7674
3	1.005	2255	1913	FM	0.020	1.4568
4	1.152	21003	7772	FV	0.042	13.5687
5	1.994	56449	52698	PV	0.017	36.4690
6	2.158	20745	7838	VV	0.041	13.4025

Total area = 154787

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **15**

Client ID T-115

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 15

File Name: 2510015A
Description: T-115
Can/Tube#: 654
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 12:53
Date Analyzed: 03/25/25 **Time:** 12:37

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.032	0.096	7.398	253	759	73,979	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**15**			Cal Update:	**04/15/24**
File Name:	**2510015A**			SF:	3
Description:	**T-115**			Not Detected Flag:	ND
Date Sampled:	**03/19/25**	Time:	**12:53**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**12:37**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**654**				
Can Factor:	**1.27**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**79448**	7.40	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 15

File Name:	2510015A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.27		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.27		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	7.398	7.398	73,979	73,979	7.398	200	0.025	0.032	0.096	253	759			=		Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 15

Client: C.E. Schmidt
Client ID: T-115
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 654
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 12:53
Received: 3/21/2025 Time: 14:30

Date:
Initial : 696
Final: 881
Factor: 1.27

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

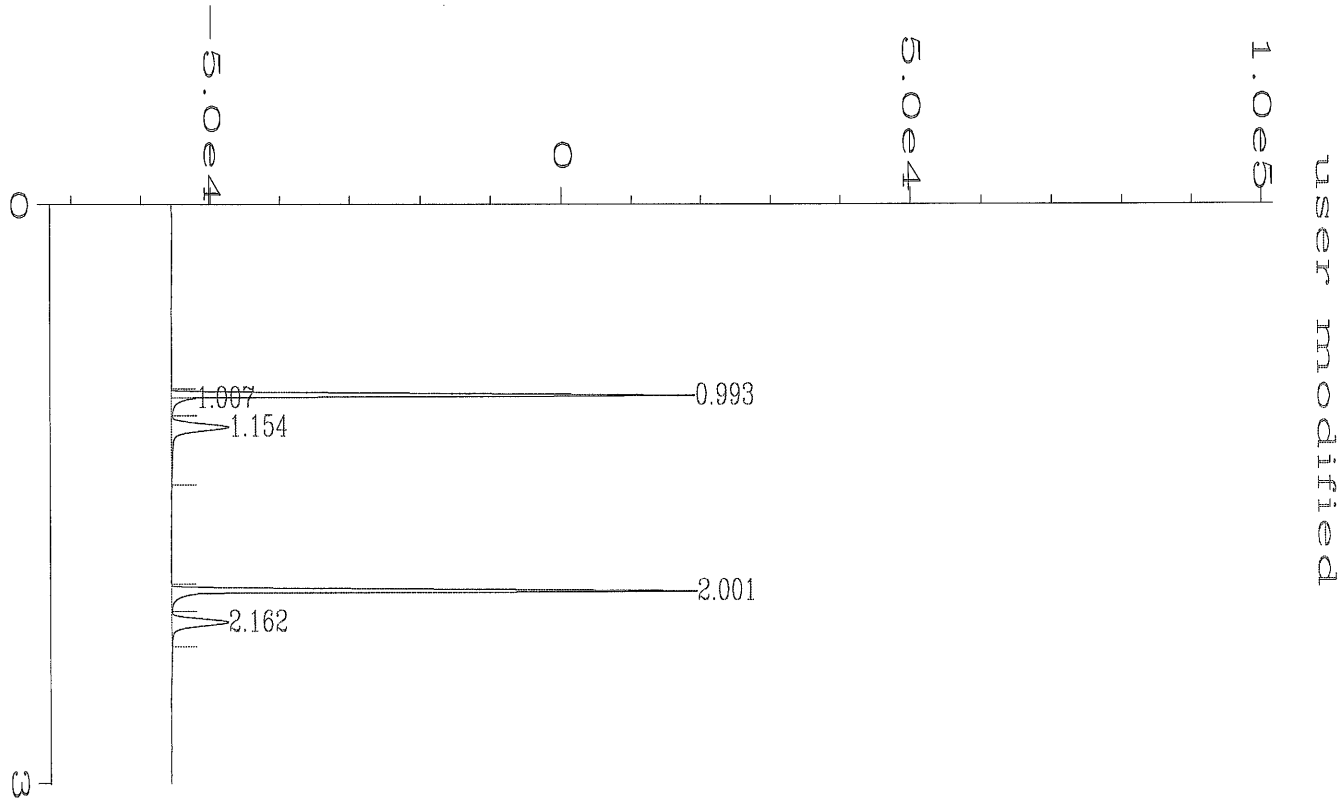
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510015A.D
Operator : DA
Instrument : GCL
Sample Name : T-115
Run Time Bar Code:
Acquired on : 25 Mar 25 12:37 PM
Report Created on: 28 Mar 25 10:17 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510015A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.993	79448	76630	MF	0.017	37.1469
2	1.007	4559	3464	FM	0.022	2.1317
3	1.154	24177	8256	FV	0.044	11.3043
4	2.001	84071	72963	PV	0.019	39.3083
5	2.162	21620	8205	VV	0.041	10.1087

Total area = 213876

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **16**

Client ID T-116

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 16

File Name: 2510016A
Description: T-116
Can/Tube#: 782
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 13:03
Date Analyzed: 03/25/25 **Time:** 12:41

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.044	0.131	8.545	296	887	85,451	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**16**			Cal Update:	**04/15/24**
File Name:	**2510016A**			SF:	3
Description:	**T-116**			Not Detected Flag:	ND
Date Sampled:	**03/19/25**	Time:	**13:03**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**12:41**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**782**				
Can Factor:	**1.48**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**78535**	8.55	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 16

File Name:	2510016A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.48		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.48		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	8.545	8.545	85,451	85,451	8.545	200	0.030	0.044	0.131	296	887			=		Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 16

Client: C.E. Schmidt
Client ID: T-116
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 782
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:03
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	706	761		
Final:	881	907		
Factor:	1.25			

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

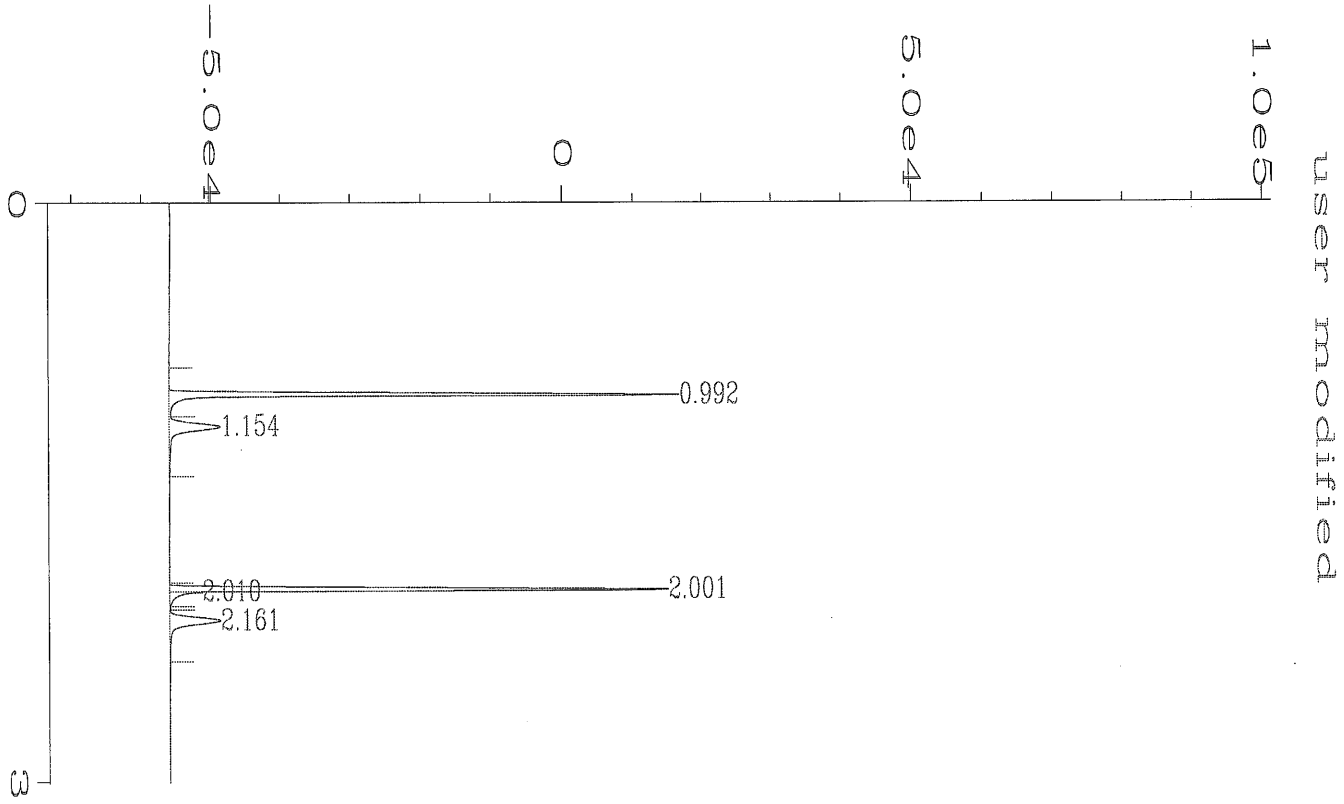
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510016A.D
Operator : DA
Instrument : GCL
Sample Name : T-116
Run Time Bar Code:
Acquired on : 25 Mar 25 12:41 PM
Report Created on: 28 Mar 25 10:32 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510016A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.992	82471	74412	PV	0.037	39.6569
2	1.154	21857	7414	VF	0.044	10.5104
3	2.001	78535	72120	MF	0.018	37.7644
4	2.010	4678	4657	FM	0.017	2.2495
5	2.161	20419	7384	FV	0.042	9.8189

Total area = 207961

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **17**

Client ID T-117

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945 **Laboratory Number:** 17

File Name: 2510017A
Description: T-117
Can/Tube#: 643
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 13:03
Date Analyzed: 03/25/25 **Time:** 12:46

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.031	0.093	8.228	249	747	82,276	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**17**			Cal Update:	**04/15/24**
File Name:	**2510017A**			SF:	3
Description:	**T-117**			Not Detected Flag:	ND
Date Sampled:	**03/19/25**	Time:	**13:03**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**12:46**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**643**				
Can Factor:	**1.25**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**89805**	8.23	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 17

File Name:	2510017A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.25		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.25		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	8.228	8.228	82,276	82,276	8.228	200	0.025	0.031	0.093	249	747			=		Y

Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 17

Client: C.E. Schmidt
Client ID: T-117
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 643
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:03
Received: 3/21/2025 Time: 14:30

Date:
Initial : 709
Final: 883
Factor: 1.25

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

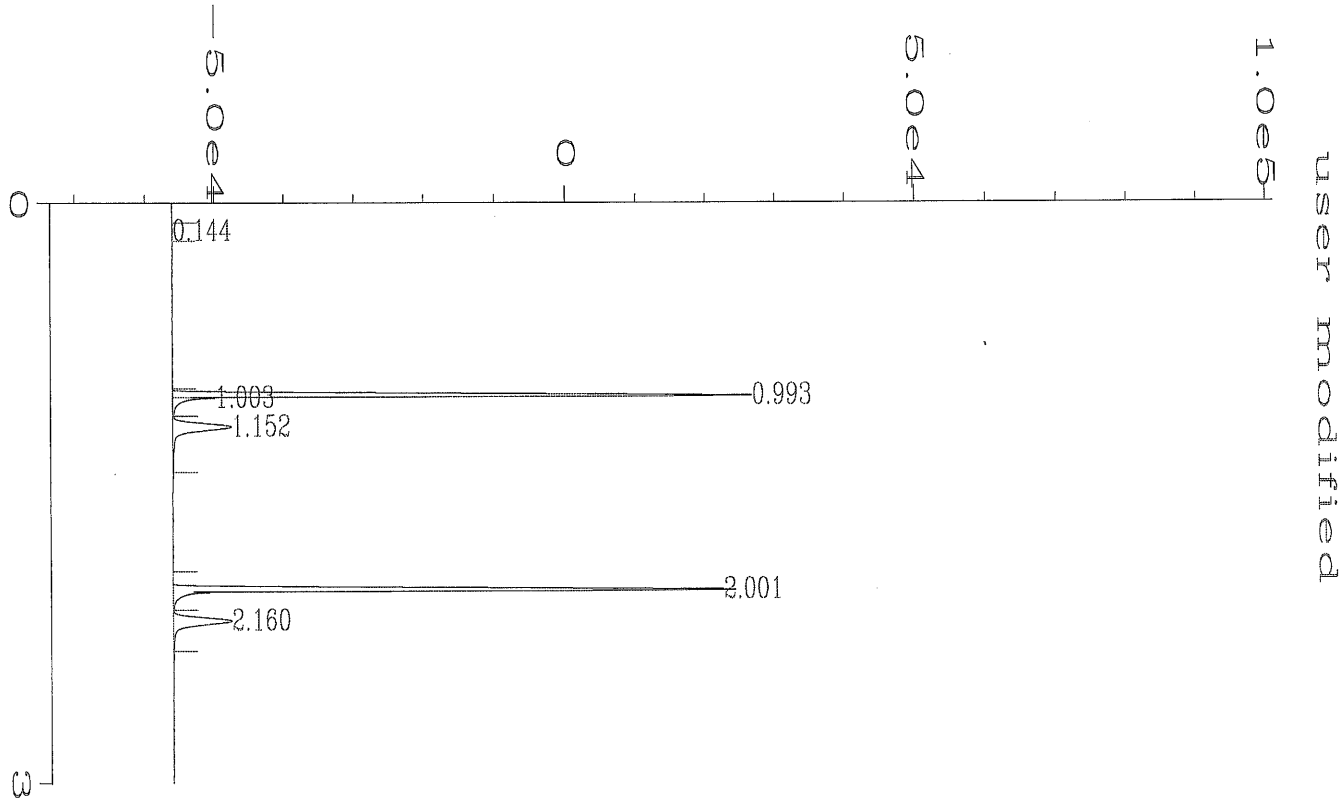
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510017A.D
Operator : DA
Instrument : GCL
Sample Name : T-117
Run Time Bar Code:
Acquired on : 25 Mar 25 12:46 PM
Report Created on: 28 Mar 25 10:32 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510017A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.144	274	94	VF	0.048	0.1141
2	0.993	89805	83635	MF	0.018	37.3845
3	1.003	5936	6160	FM	0.016	2.4712
4	1.152	23819	8459	FV	0.043	9.9153
5	2.001	97420	80703	PV	0.020	40.5545
6	2.160	22966	8470	VV	0.042	9.5604

Total area = 240220

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **18**

Client ID T-118

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ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945 **Laboratory Number:** 18

File Name: 2510018A
Description: T-118
Can/Tube#: 553
QC_Batch: 032525-GCO

Date Sampled: 03/19/25 **Time:** 13:25
Date Analyzed: 03/25/25 **Time:** 12:52

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.026	0.078	8.907	228	683	89,073	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**18**			Cal Update:	**04/15/24**
File Name:	**2510018A**			SF:	3
Description:	**T-118**			Not Detected Flag:	ND
Date Sampled:	**03/19/25**	Time:	**13:25**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**12:52**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**553**				
Can Factor:	**1.14**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**106407**	8.91	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

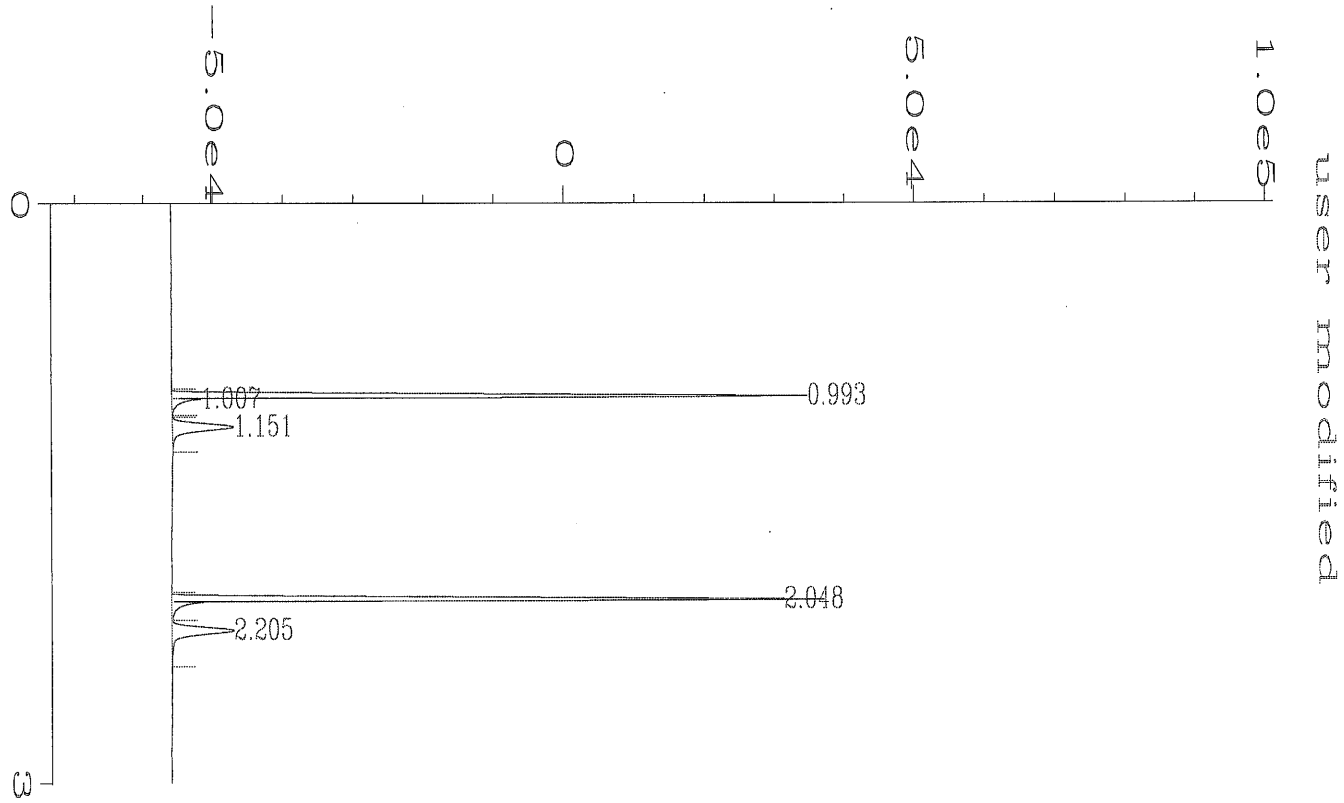
CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

File Name:	2510018A	Detect Flag:	ND	**Laboratory Number: 18**	
QCBatch	032525-GCO	Report Normalized:	No		
Can Factor	1.14	Decimal Places:	3		
Air Volume:	0.5 ml	Temp	25 C		
Base Volume	0.5 ml	Atm P	760 torr		
Dilution Factor	1.14	Gas Constant	24.4		
Gas Constant:	24.4	RL Factor	3		

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	8.907	8.907	89,073	89,073	8.907	200	0.023	0.026	0.078	228	683			=		Y



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510018A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-118
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 12:52 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 10:34 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510018A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.993	106407	91469	MF	0.019	39.4204
2	1.007	4946	4166	FM	0.020	1.8322
3	1.151	23396	8739	FV	0.042	8.6674
4	2.048	111131	90300	PV	0.020	41.1705
5	2.205	24049	8867	VV	0.042	8.9094

Total area = 269928

User Modified

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Laboratory Worksheet

Due:

Expires: 4/18/2025

225100 | 18

Client: C.E. Schmidt
Client ID: T-118
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 553
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/19/2025 Time: 13:25
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	783		
Final:	891		
Factor:	1.14		

LABORATORY **Analytical Test:** Sample Location: Shelfs A-C

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**

Sample Data Packages

SDG Number **225100**

Lab Id Number **19**

Client ID T-201

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ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 19

File Name: 2510019A
Description: T-201
Can/Tube#: 726
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 8:23
Date Analyzed: 03/25/25 **Time:** 12:56

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.029	0.088	2.660	243	728	26,599	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**19**			Cal Update:	**04/15/24**
File Name:	**2510019A**			SF:	3
Description:	**T-201**			Not Detected Flag:	ND
Date Sampled:	**03/20/25**	Time:	**8:23**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**12:56**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**726**				
Can Factor:	**1.21**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**29815**	2.66	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 19

File Name:	2510019A	Detect Flag:	ND		
QCBatch	032525-GCO	Report Normalized:	No		
Can Factor	1.21	Decimal Places:	3		
Air Volume:	0.5 ml	Temp	25	C	
Base Volume	0.5 ml	Atm P	760	torr	
Dilution Factor	1.21	Gas Constant	24.4		
Gas Constant:	24.4	RL Factor	3		

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	2.660	2.660	26,599	26,599	2.660	200	0.024	0.029	0.088	243	728			=		Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 | 19

Client: C.E. Schmidt
Client ID: T-201
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 726
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:23
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	738		
Final:	895		
Factor:	1.21		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

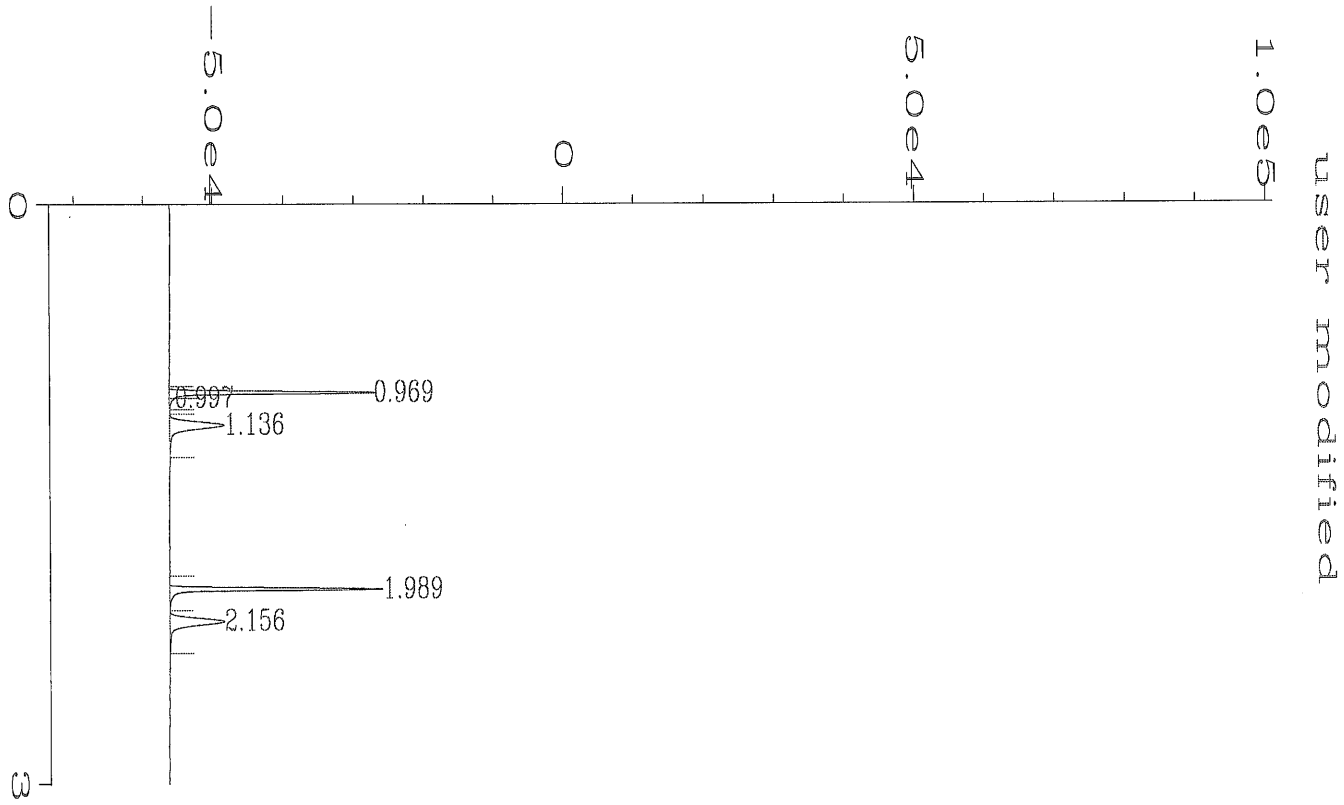
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510019A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-201
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 12:56 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 10:37 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510019A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.969	29815	30718	MF	0.016	28.8233
2	0.997	777	674	FM	0.019	0.7515
3	1.136	21069	7815	FV	0.042	20.3685
4	1.989	30785	30947	BV	0.028	29.7612
5	2.156	20994	7882	VV	0.041	20.2955

Total area = 103441

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **20**

Client ID T-202

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ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945 **Laboratory Number:** 20

File Name: 2510020A
Description: T-202
Can/Tube#: 883
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 8:38
Date Analyzed: 03/25/25 **Time:** 13:00

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.028	0.084	3.053	236	709	30,526	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**20**			Cal Update:	**04/15/24**
File Name:	**2510020A**			SF:	3
Description:	**T-202**			Not Detected Flag:	ND
Date Sampled:	**03/20/25**	Time:	**8:38**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**13:00**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**883**				
Can Factor:	**1.18**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**35127**	3.05	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 20

File Name:	2510020A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.18		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.18		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	3.053	3.053	30,526	30,526	3.053	200	0.024	0.028	0.084	236	709			=		Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 | 20

Client: C.E. Schmidt
Client ID: T-202
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 883
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:38
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	739		
Final:	873		
Factor:	1.18		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

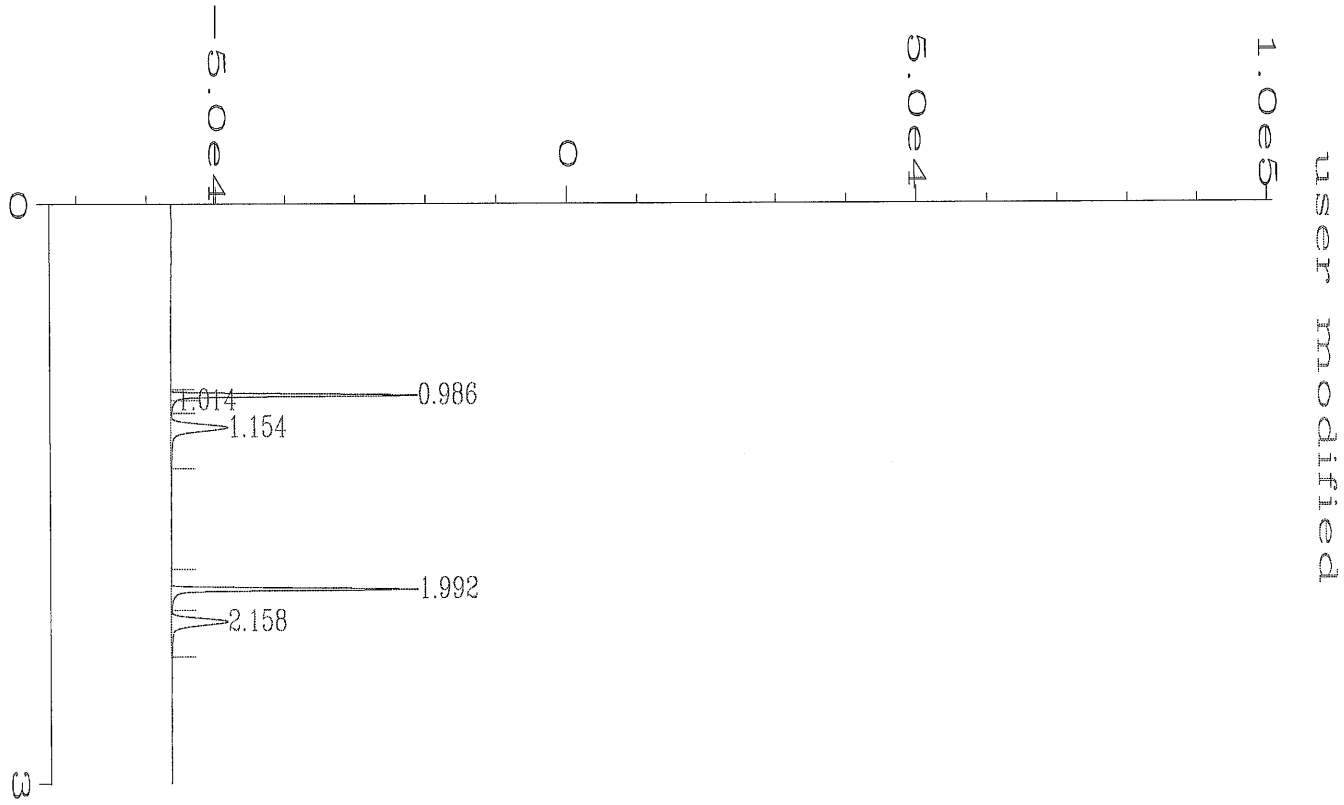
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510020A.D
Operator : DA
Instrument : GCL
Sample Name : T-202
Run Time Bar Code:
Acquired on : 25 Mar 25 01:00 PM
Report Created on: 28 Mar 25 10:38 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510020A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.986	35127	35735	MF	0.016	29.2610
2	1.014	1252	828	FM	0.025	1.0426
3	1.154	23937	8238	FV	0.044	19.9396
4	1.992	36855	36548	VV	0.033	30.7008
5	2.158	22876	8263	VV	0.042	19.0559

Total area = 120046

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **21**

Client ID T-203

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 21

File Name: 2510021A
Description: T-203
Can/Tube#: 858
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 8:33
Date Analyzed: 03/25/25 **Time:** 13:04

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.029	0.086	5.125	239	718	51,254	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**21**			Cal Update:	**04/15/24**
File Name:	**2510021A**			SF:	3
Description:	**T-203**			Not Detected Flag:	ND
Date Sampled:	**03/20/25**	Time:	**8:33**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**13:04**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**858**				
Can Factor:	**1.20**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**58260**	5.13	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 21

File Name:	2510021A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.20		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.20		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	5.125	5.125	51,254	51,254	5.125	200	0.024	0.029	0.086	239	718			=		Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 21

Client: C.E. Schmidt
Client ID: T-203
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 858
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:33
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	735		
Final:	879		
Factor:	1.20		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

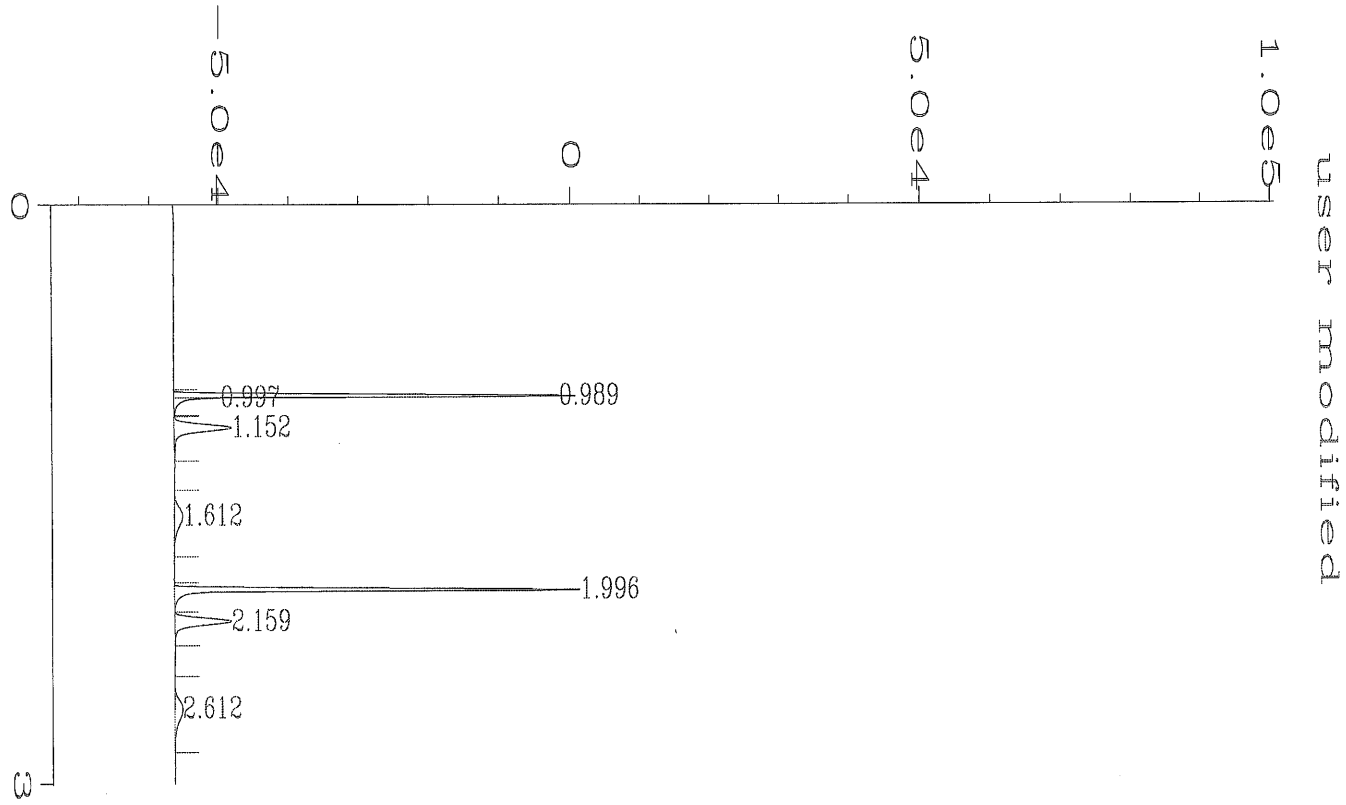
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510021A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-203
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 01:04 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 10:40 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510021A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.989	58260	59042	MF	0.016	30.9843
2	0.997	4638	5991	FM	0.013	2.4667
3	1.152	22580	8279	FV	0.042	12.0083
4	1.612	9409	1244	PV	0.096	5.0037
5	1.996	62798	58914	PV	0.035	33.3975
6	2.159	21529	8256	VV	0.041	11.4497
7	2.612	8818	1178	BV	0.094	4.6897

Total area = 188032

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **22**

Client ID T-204

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 22

File Name: 2510022A
Description: T-204
Can/Tube#: 758
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 8:29
Date Analyzed: 03/25/25 **Time:** 13:08

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.028	0.083	8.402	235	706	84,018	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**22**			Cal Update:	**04/15/24**
File Name:	**2510022A**			SF:	3
Description:	**T-204**			Not Detected Flag:	ND
Date Sampled:	**03/20/25**	Time:	**8:29**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**13:08**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**758**				
Can Factor:	**1.18**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**97094**	8.40	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 22

File Name:	2510022A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.18		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.18		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	8.402	8.402	84,018	84,018	8.402	200	0.024	0.028	0.083	235	706			=		Y

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 22

Client: C.E. Schmidt
Client ID: T-204
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 758
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 8:29
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	743		
Final:	874		
Factor:	1.18		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

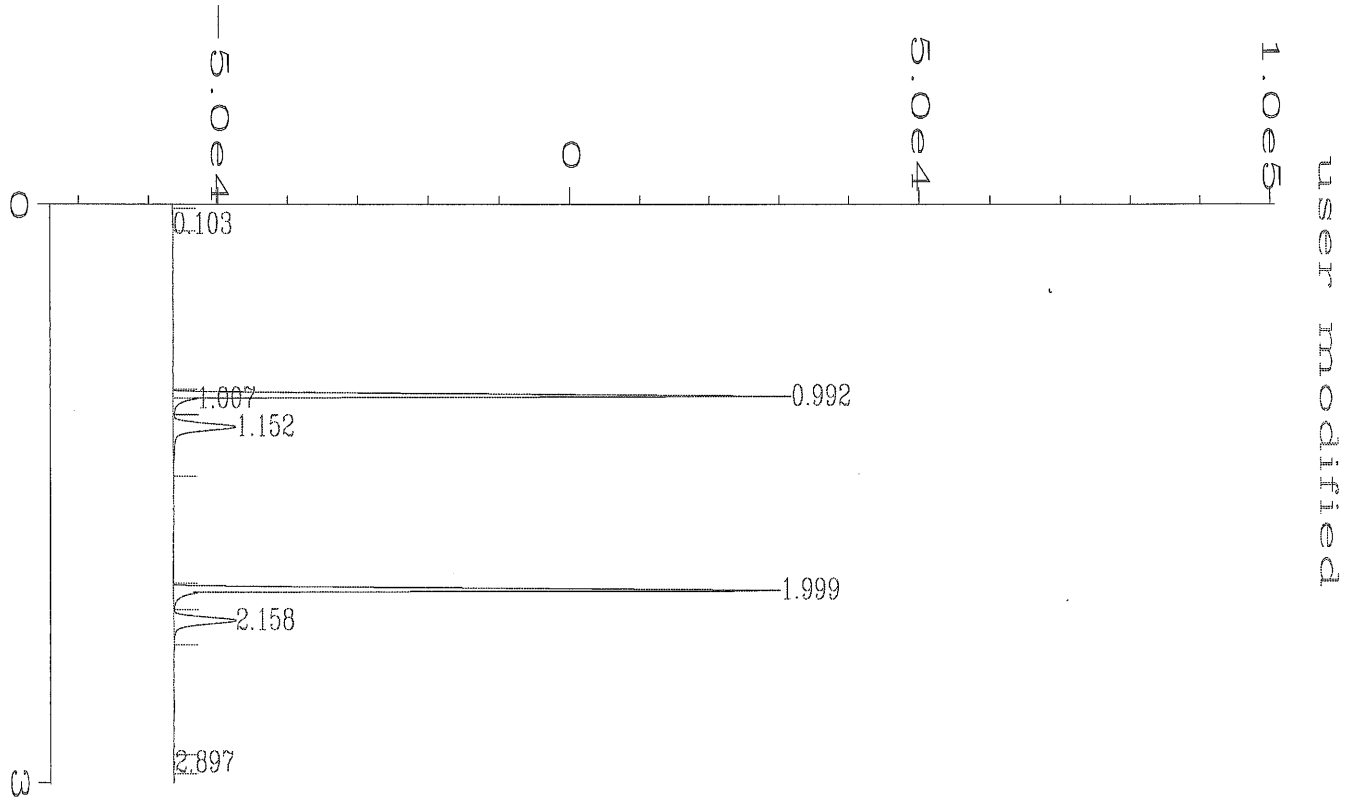
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510022A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-204
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 01:08 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 10:41 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510022A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.103	258	84	BF	0.042	0.1007
2	0.992	97094	92271	MF	0.018	37.9679
3	1.007	4772	3356	FM	0.024	1.8661
4	1.152	25995	9040	FV	0.044	10.1650
5	1.999	103988	88213	BV	0.023	40.6639
6	2.158	23410	8981	VV	0.040	9.1545
7	2.897	209	172	PV	0.019	0.0819

Total area = 255726

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **23**

Client ID T-205

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 23

File Name: 2510023A
Description: T-205
Can/Tube#: 659
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 10:00
Date Analyzed: 03/25/25 **Time:** 13:12

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.032	0.096	2.031	253	760	20,308	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**23**			Cal Update:	**04/15/24**
File Name:	**2510023A**			SF:	3
Description:	**T-205**			Not Detected Flag:	ND
Date Sampled:	**03/20/25**	Time:	**10:00**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**13:12**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**659**				
Can Factor:	**1.27**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**21790**	2.03	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

File Name:	2510023A	Detect Flag:	ND	**Laboratory Number: 23**	
QCBatch	032525-GCO	Report Normalized:	No		
Can Factor	1.27	Decimal Places:	3		
Air Volume:	0.5 ml	Temp	25 C		
Base Volume	0.5 ml	Atm P	760 torr		
Dilution Factor	1.27	Gas Constant	24.4		
Gas Constant:	24.4	RL Factor	3		

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	2.031	2.031	20,308	20,308	2.031	200	0.025	0.032	0.096	253	760			=		Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 23

Client: C.E. Schmidt
Client ID: T-205
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 659
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 10:00
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	708		
Final:	897		
Factor:	1.27		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

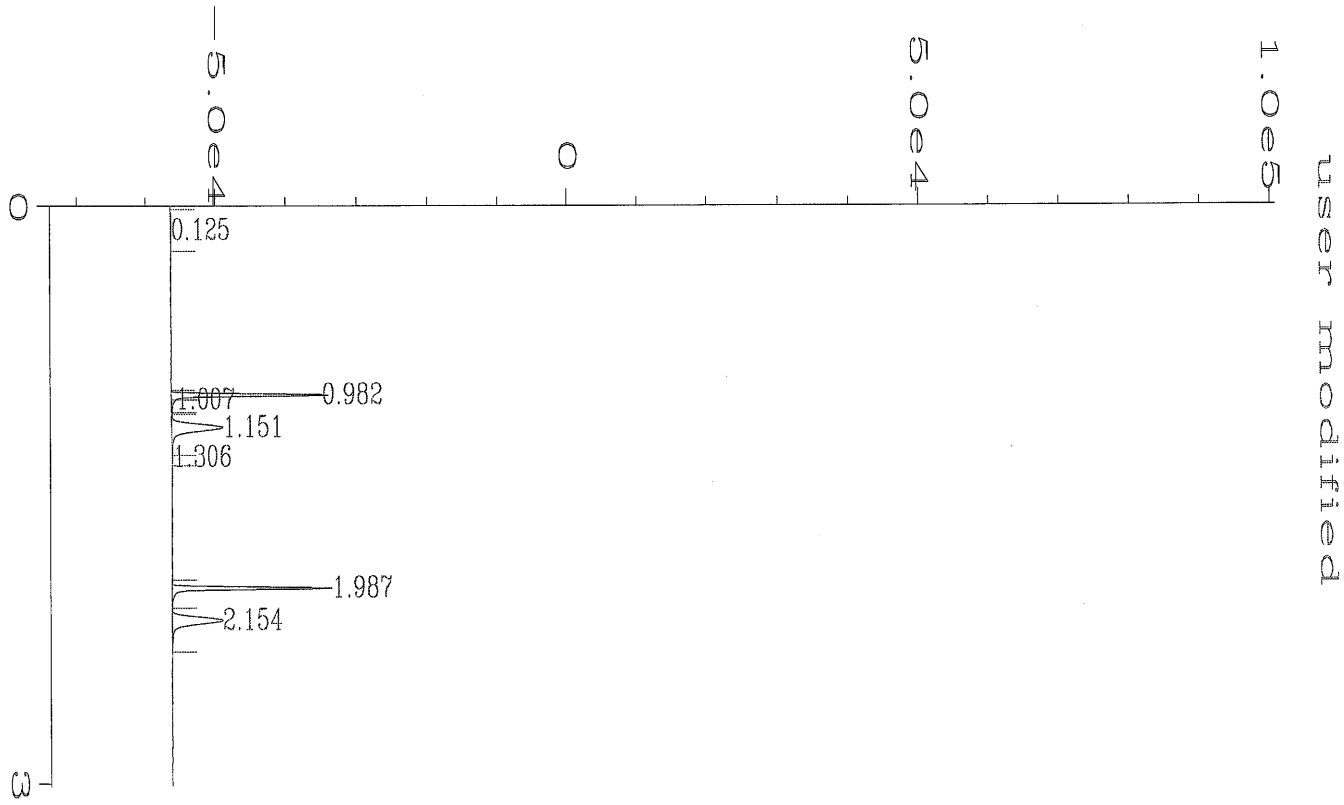
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510023A.D
Operator : DA
Instrument : GCL
Sample Name : T-205
Run Time Bar Code:
Acquired on : 25 Mar 25 01:12 PM
Report Created on: 28 Mar 25 10:43 AM
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510023A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.125	903	113	BB	0.108	1.0475
2	0.982	21790	22995	MF	0.016	25.2654
3	1.007	913	691	FM	0.022	1.0591
4	1.151	20270	7425	FV	0.042	23.5031
5	1.306	162	86	VV	0.031	0.1879
6	1.987	22704	23078	PV	0.025	26.3249
7	2.154	19502	7391	PV	0.041	22.6121

Total area = 86244

User Modified

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 24

File Name: 2510024A
Description: T-206
Can/Tube#: 882
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 9:55
Date Analyzed: 03/25/25 **Time:** 13:16

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.031	0.093	2.761	249	746	27,615	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**24**			Cal Update:	**04/15/24**
File Name:	**2510024A**			SF:	3
Description:	**T-206**			Not Detected Flag:	ND
Date Sampled:	**03/20/25**	Time:	**9:55**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**13:16**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**882**				
Can Factor:	**1.24**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**30184**	2.76	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 24

File Name:	2510024A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.24		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.24		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	2.761	2.761	27,615	27,615	2.761	200	0.025	0.031	0.093	249	746			=		Y

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 24

Client: C.E. Schmidt
Client ID: T-206
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 882
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 9:55
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	710		
Final:	883		
Factor:	1.24		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

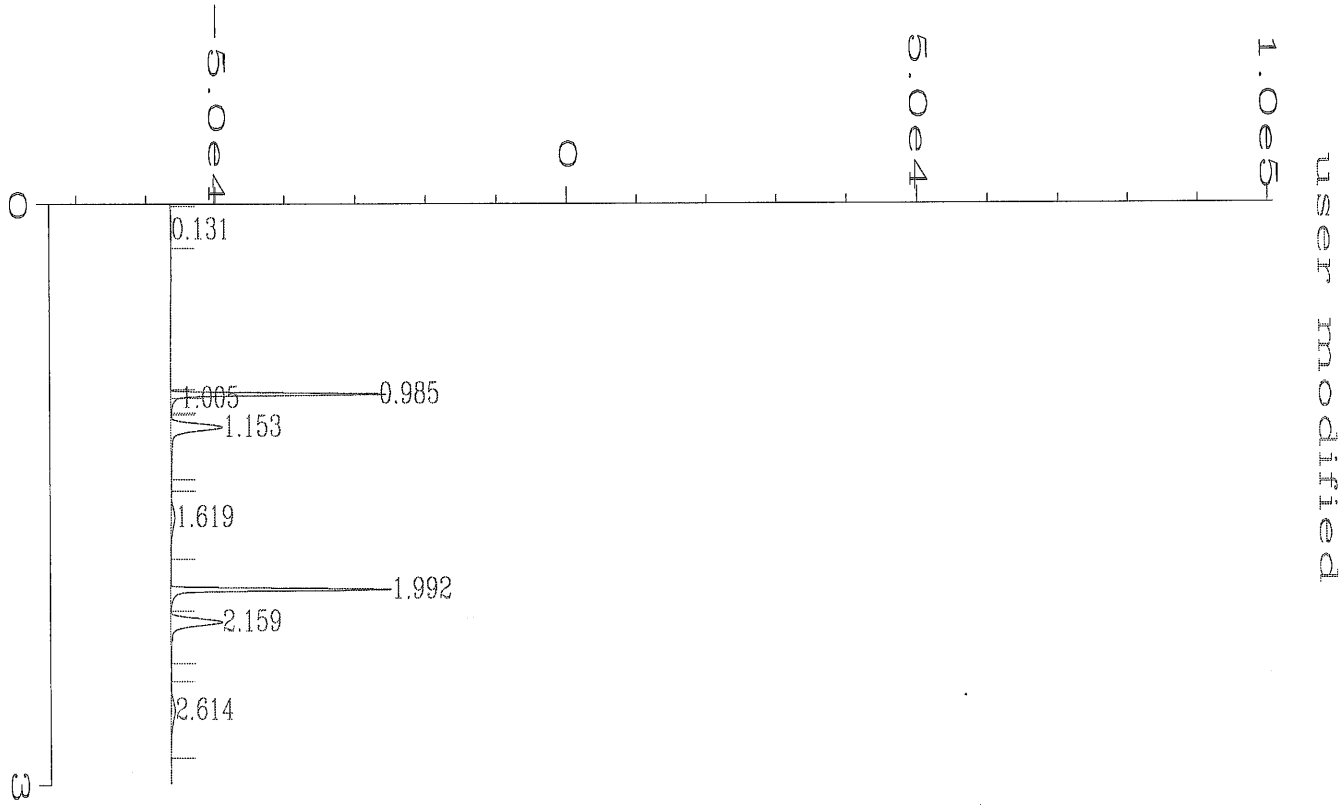
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



Area Percent Report

Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510024A.D
Operator : DA
Instrument : GCL
Sample Name : T-206
Run Time Bar Code:
Acquired on : 25 Mar 25 01:16 PM
Report Created on: 28 Mar 25 10:44 AM
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510024A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.131	820	120	BF	0.120	0.7022
2	0.985	30184	32105	MF	0.016	25.8372
3	1.005	1536	1180	FM	0.022	1.3146
4	1.153	21415	7504	FB	0.044	18.3310
5	1.619	4105	548	BV	0.094	3.5143
6	1.992	32695	30997	PV	0.037	27.9863
7	2.159	20949	7570	VV	0.043	17.9322
8	2.614	5119	605	VV	0.112	4.3822

Total area = 116823

User Modified

Sample Data Packages

SDG Number **225100**

Lab Id Number **24**

Client ID T-206

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SDG Number **225100**

Lab Id Number **25**

Client ID T-207

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 25

File Name: 2510025A
Description: T-207
Can/Tube#: 627
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 10:05
Date Analyzed: 03/25/25 **Time:** 13:20

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.034	0.102	2.070	261	784	20,700	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**25**			Cal Update:	**04/15/24**
File Name:	**2510025A**			SF:	3
Description:	**T-207**			Not Detected Flag:	ND
Date Sampled:	**03/20/25**	Time:	**10:05**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**13:20**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**627**				
Can Factor:	**1.31**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**21540**	2.07	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 25

File Name:	2510025A	Detect Flag:	ND		
QCBatch	032525-GCO	Report Normalized:	No		
Can Factor	1.31	Decimal Places:	3		
Air Volume:	0.5 ml	Temp	25 C		
Base Volume	0.5 ml	Atm P	760 torr		
Dilution Factor	1.31	Gas Constant	24.4		
Gas Constant:	24.4	RL Factor	3		

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	2.070	2.070	20,700	20,700	2.070	200	0.026	0.034	0.102	261	784			=		Y

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 25

Client: C.E. Schmidt
Client ID: T-207
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 627
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 10:05
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	692		
Final:	904		
Factor:	1.31		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

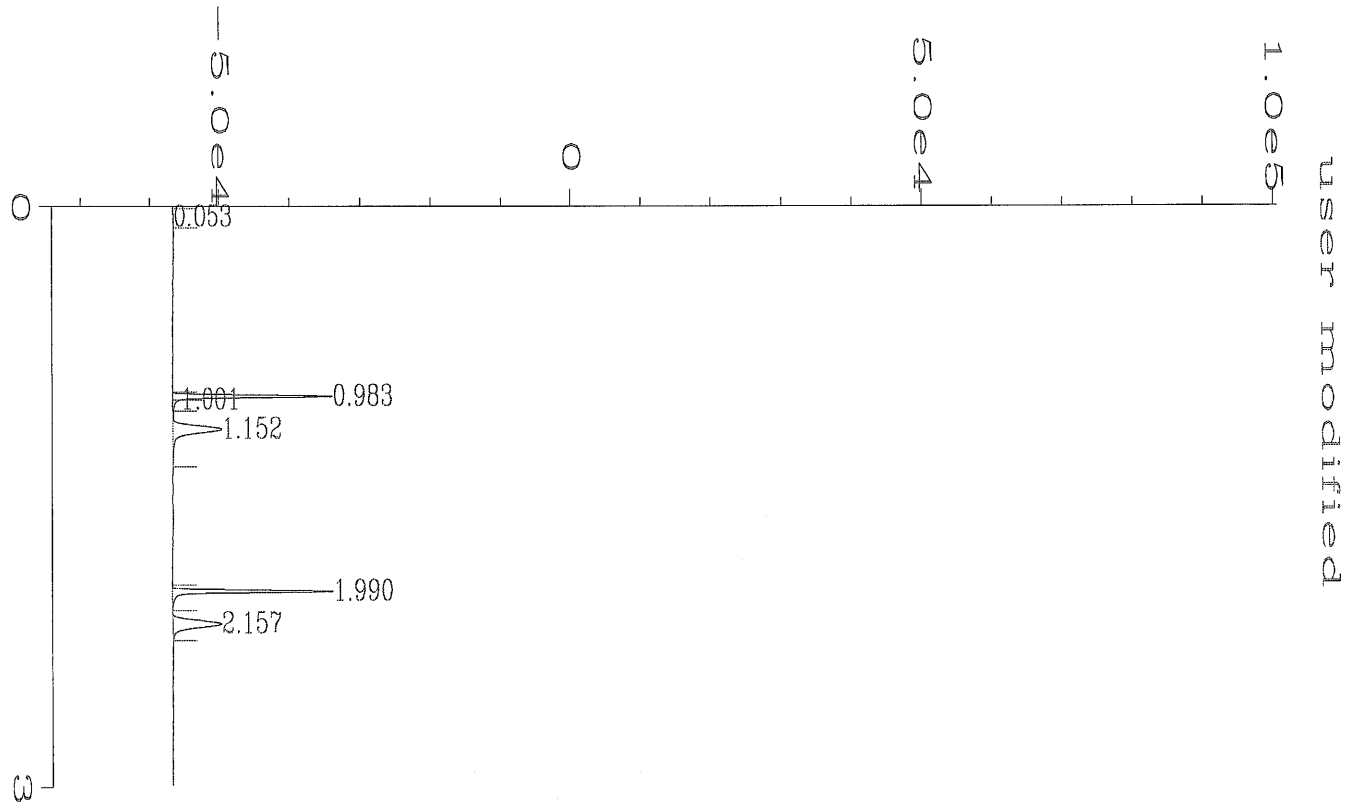
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510025A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-207
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 01:20 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 10:48 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510025A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.053	244	89	BF	0.047	0.2921
2	0.983	21540	23190	MF	0.015	25.8013
3	1.001	1084	1038	FM	0.017	1.2989
4	1.152	19882	7178	FV	0.042	23.8160
5	1.990	22650	23317	BV	0.026	27.1318
6	2.157	18082	7134	PV	0.040	21.6599

Total area = 83483

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **26**

Client ID T-208

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ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 26

File Name: 2510026A
Description: T-208
Can/Tube#: 791
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 10:08
Date Analyzed: 03/25/25 **Time:** 13:24

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.032	0.095	1.671	251	753	16,706	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**26**			Cal Update:	**04/15/24**
File Name:	**2510026A**			SF:	3
Description:	**T-208**			Not Detected Flag:	ND
Date Sampled:	**03/20/25**	Time:	**10:08**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**13:24**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**791**				
Can Factor:	**1.26**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**18091**	1.67	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 26

File Name:	2510026A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.26		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.26		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	1.671	1.671	16,706	16,706	1.671	200	0.025	0.032	0.095	251	753			=		Y

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 26

Client: C.E. Schmidt
Client ID: T-208
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 791
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 10:08
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	709		
Final:	890		
Factor:	1.26		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

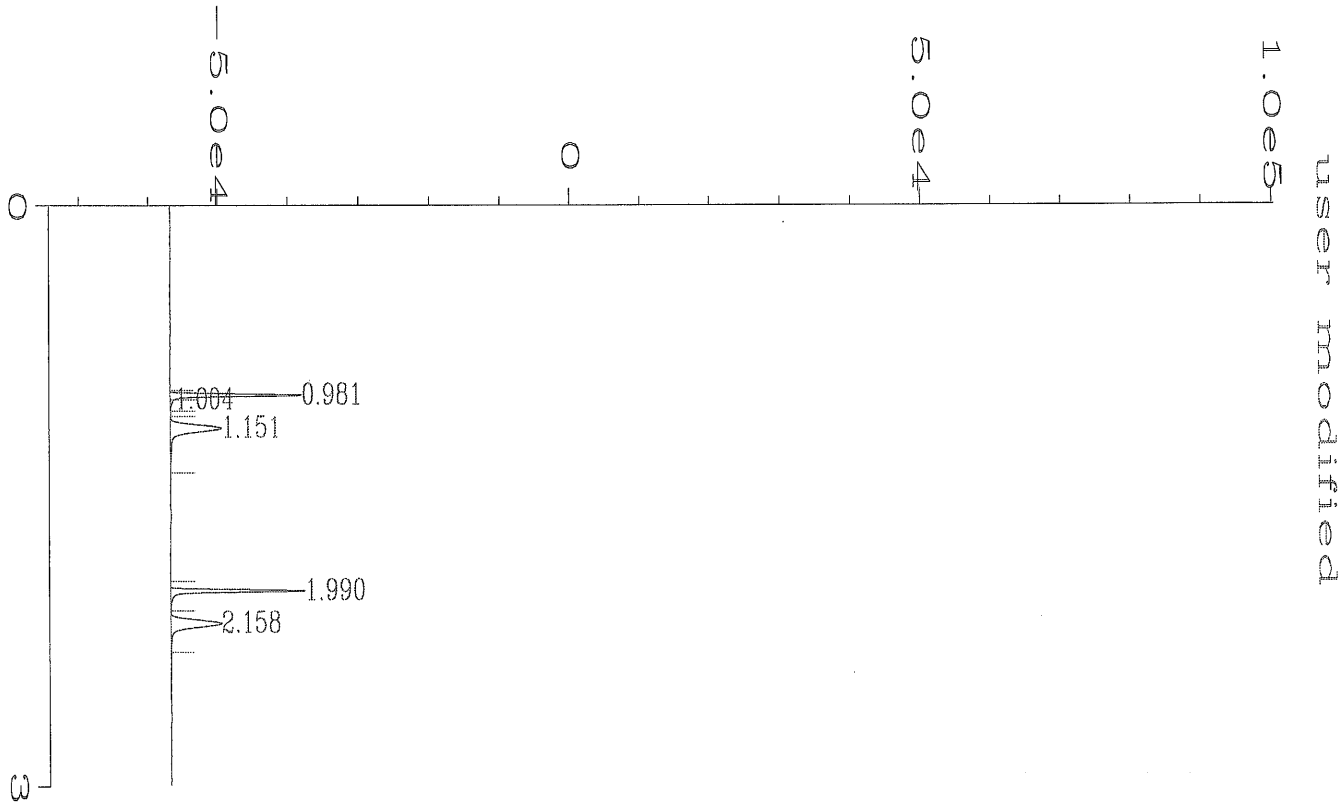
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510026A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-208
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 01:24 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 10:49 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510026A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.981	18091	19297	MF	0.016	23.3294
2	1.004	818	596	FM	0.023	1.0544
3	1.151	20605	7398	FV	0.043	26.5713
4	1.990	18884	19472	PV	0.026	24.3514
5	2.158	19149	7357	VV	0.040	24.6935

Total area = 77547

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **27**

Client ID T-209

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ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 27

File Name: 2510027A
Description: T-209
Can/Tube#: 778
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 11:21
Date Analyzed: 03/25/25 **Time:** 13:28

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.034	0.101	6.790	260	780	67,901	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**27**			Cal Update:	**04/15/24**
File Name:	**2510027A**			SF:	3
Description:	**T-209**			Not Detected Flag:	ND
Date Sampled:	**03/20/25**	Time:	**11:21**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**13:28**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**778**				
Can Factor:	**1.30**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**70971**	6.79	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 27

File Name:	2510027A	Detect Flag:	ND		
QCBatch	032525-GCO	Report Normalized:	No		
Can Factor	1.30	Decimal Places:	3		
Air Volume:	0.5 ml	Temp	25 C		
Base Volume	0.5 ml	Atm P	760 torr		
Dilution Factor	1.30	Gas Constant	24.4		
Gas Constant:	24.4	RL Factor	3		

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	6.790	6.790	67,901	67,901	6.790	200	0.026	0.034	0.101	260	780			=		Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 27

Client: C.E. Schmidt
Client ID: T-209
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 778
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:21
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	682		
Final:	887		
Factor:	1.30		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:	Holding Time:
GCO ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

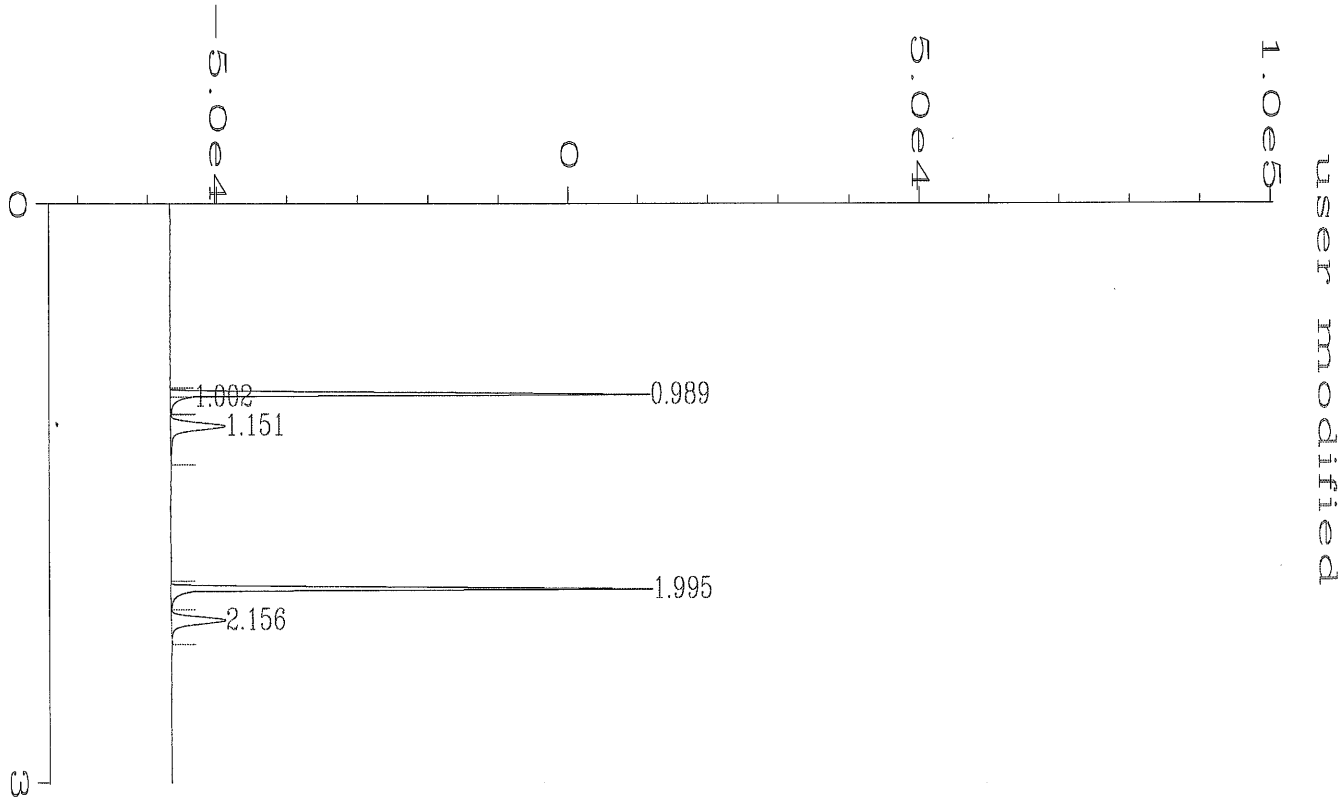
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510027A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-209
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 01:28 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 10:50 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510027A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.989	70971	70421	MF	0.017	36.9950
2	1.002	3671	3117	FM	0.020	1.9136
3	1.151	22242	7958	FV	0.043	11.5940
4	1.995	74295	66060	PV	0.018	38.7280
5	2.156	20660	7903	VV	0.040	10.7693

Total area = 191839

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **28**

Client ID T-210

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 28

File Name: 2510028A
Description: T-210
Can/Tube#: 714
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 11:21
Date Analyzed: 03/25/25 **Time:** 13:33

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.032	0.097	4.155	254	761	41,551	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**28**			Cal Update:	**04/15/24**
File Name:	**2510028A**			SF:	3
Description:	**T-210**			Not Detected Flag:	ND
Date Sampled:	**03/20/25**	Time:	**11:21**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**13:33**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**714**				
Can Factor:	**1.27**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**44508**	4.16	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 28

File Name:	2510028A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.27		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.27		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	4.155	4.155	41,551	41,551	4.155	200	0.025	0.032	0.097	254	761			=		Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 | 28

Client: C.E. Schmidt
Client ID: T-210
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 714
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:21
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	695		
Final:	882		
Factor:	1.27		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

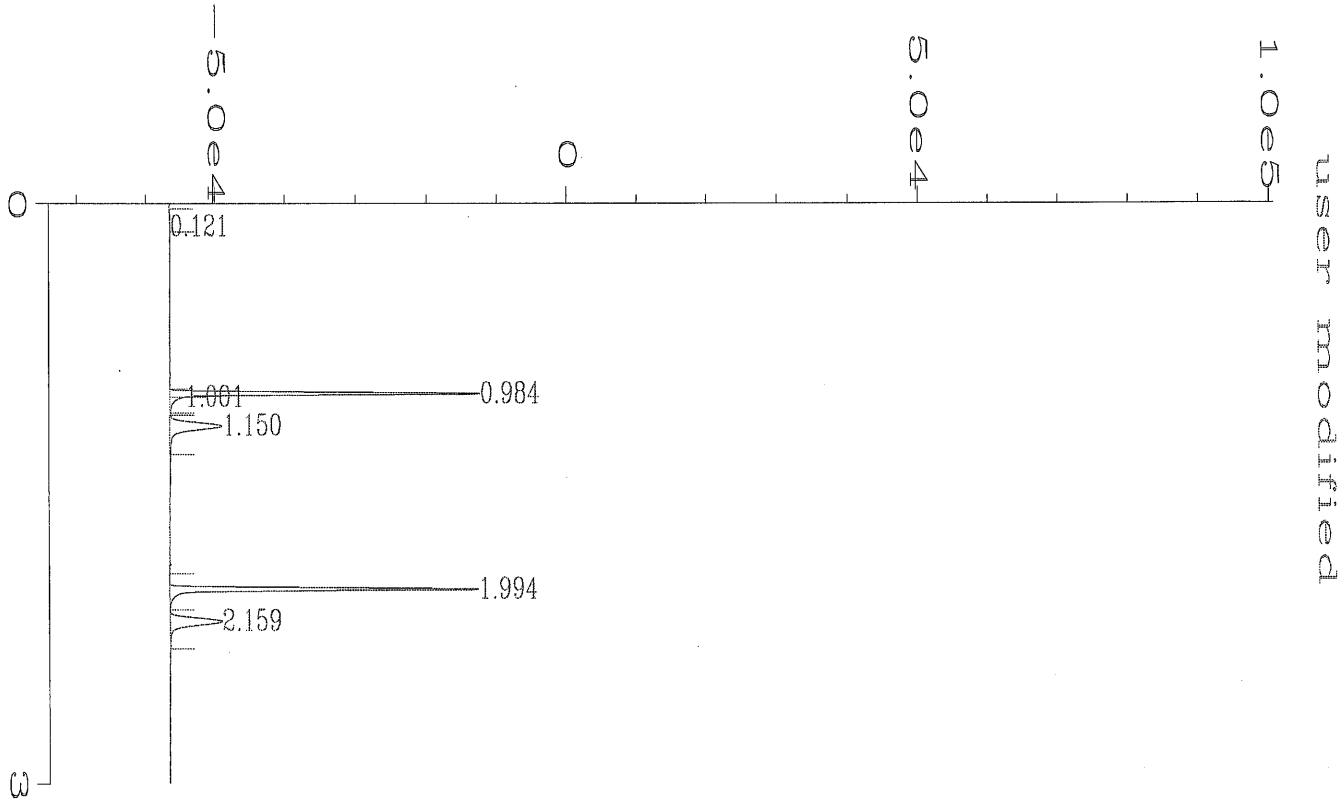
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510028A.D
Operator : DA
Instrument : GCL
Sample Name : T-210
Run Time Bar Code:
Acquired on : 25 Mar 25 01:33 PM
Report Created on: 28 Mar 25 10:53 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510028A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.121	224	56	BF	0.051	0.1654
2	0.984	44508	44914	MF	0.017	32.9188
3	1.001	2347	1925	FM	0.020	1.7357
4	1.150	21442	7672	FV	0.043	15.8584
5	1.994	46938	44982	PV	0.017	34.7161
6	2.159	19748	7622	VV	0.040	14.6056

Total area = 135206

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **29**

Client ID T-211

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 29

File Name: 2510029A
Description: T-211
Can/Tube#: 629
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 11:26
Date Analyzed: 03/25/25 **Time:** 13:37

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.033	0.099	7.766	257	772	77,664	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**29**			Cal Update:	**04/15/24**
File Name:	**2510029A**			SF:	3
Description:	**T-211**			Not Detected Flag:	ND
Date Sampled:	**03/20/25**	Time:	**11:26**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**13:37**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**629**				
Can Factor:	**1.29**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**82087**	7.77	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 29

File Name:	2510029A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.29		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.29		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	7.766	7.766	77,664	77,664	7.766	200	0.026	0.033	0.099	257	772			=		Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 29

Client: C.E. Schmidt
Client ID: T-211
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 629
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:26
Received: 3/21/2025 Time: 14:30

Date:
Initial : 685
Final: 881
Factor: 1.29

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

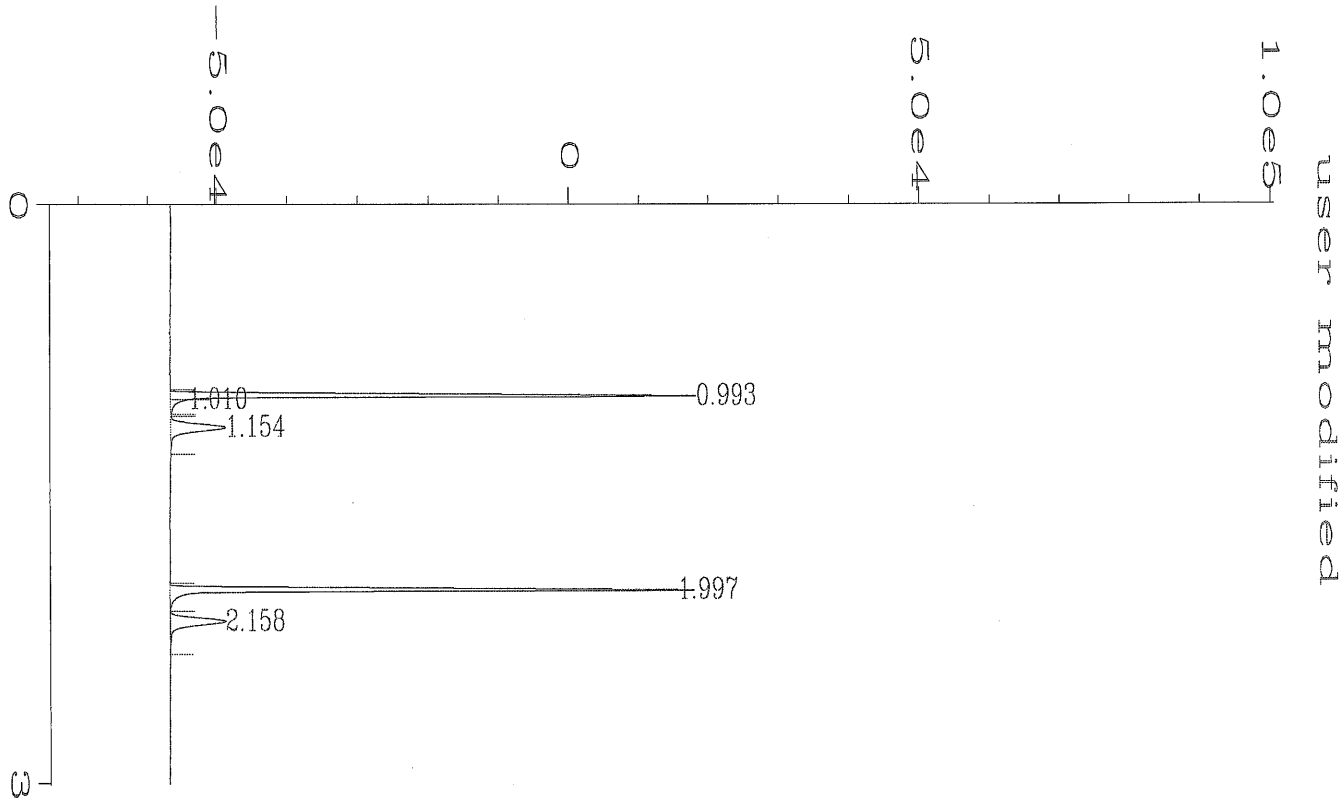
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510029A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-211
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 01:37 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 10:55 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510029A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.993	82087	76387	MF	0.018	38.5555
2	1.010	2966	2618	FM	0.019	1.3930
3	1.154	21730	7978	FV	0.042	10.2064
4	1.997	84543	74199	BV	0.031	39.7093
5	2.158	21580	8145	VV	0.041	10.1358

Total area = 212905

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **30**

Client ID T-212

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 30

File Name: 2510030A
Description: T-212
Can/Tube#: 502
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 11:30
Date Analyzed: 03/25/25 **Time:** 13:41

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.037	0.110	7.545	271	812	75,447	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**30**			Cal Update:	**04/15/24**
File Name:	**2510030A**			SF:	3
Description:	**T-212**			Not Detected Flag:	ND
Date Sampled:	**03/20/25**	Time:	**11:30**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**13:41**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**502**				
Can Factor:	**1.35**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**75763**	7.54	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 30

File Name:	2510030A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.35		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.35		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	7.545	7.545	75,447	75,447	7.545	200	0.027	0.037	0.110	271	812			=		Y

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 30

Client: C.E. Schmidt
Client ID: T-212
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 502
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:30
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	687		
Final:	930		
Factor:	1.35		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

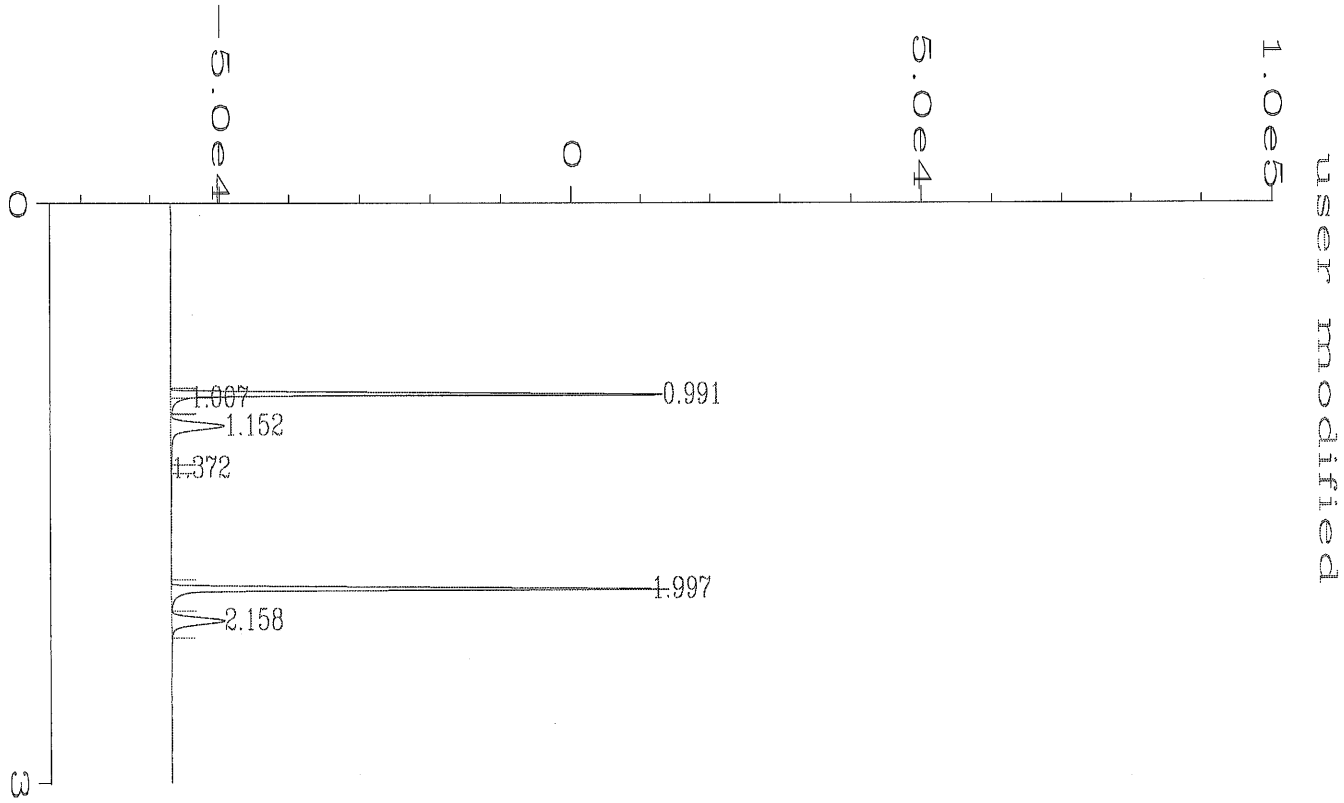
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510030A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-212
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 01:41 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 10:56 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510030A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.991	75763	71335	MF	0.018	37.7530
2	1.007	3268	2642	FM	0.021	1.6284
3	1.152	22643	7802	FV	0.044	11.2830
4	1.372	297	199	VV	0.025	0.1478
5	1.997	78955	70299	PV	0.037	39.3435
6	2.158	19756	7691	VV	0.040	9.8442

Total area = 200681

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **31**

Client ID T-213

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 31

File Name: 2510031A
Description: T-213
Can/Tube#: 712
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 11:30
Date Analyzed: 03/25/25 **Time:** 13:46

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.036	0.107	7.182	267	801	71,825	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**31**			Cal Update:	**04/15/24**
File Name:	**2510031A**			SF:	3
Description:	**T-213**			Not Detected Flag:	ND
Date Sampled:	**03/20/25**	Time:	**11:30**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**13:46**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**712**				
Can Factor:	**1.33**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**73147**	7.18	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 31

File Name:	2510031A	Detect Flag:	ND		
QCBatch	032525-GCO	Report Normalized:	No		
Can Factor	1.33	Decimal Places:	3		
Air Volume:	0.5 ml	Temp	25 C		
Base Volume	0.5 ml	Atm P	760 torr		
Dilution Factor	1.33	Gas Constant	24.4		
Gas Constant:	24.4	RL Factor	3		

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	7.182	7.182	71,825	71,825	7.182	200	0.027	0.036	0.107	267	801			=		Y

Laboratory Worksheet

Due: | Expires: 4/19/2025 | 225100 | 31

Client: C.E. Schmidt
Client ID: T-213
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 712
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 11:30
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	678		
Final:	905		
Factor:	1.33		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

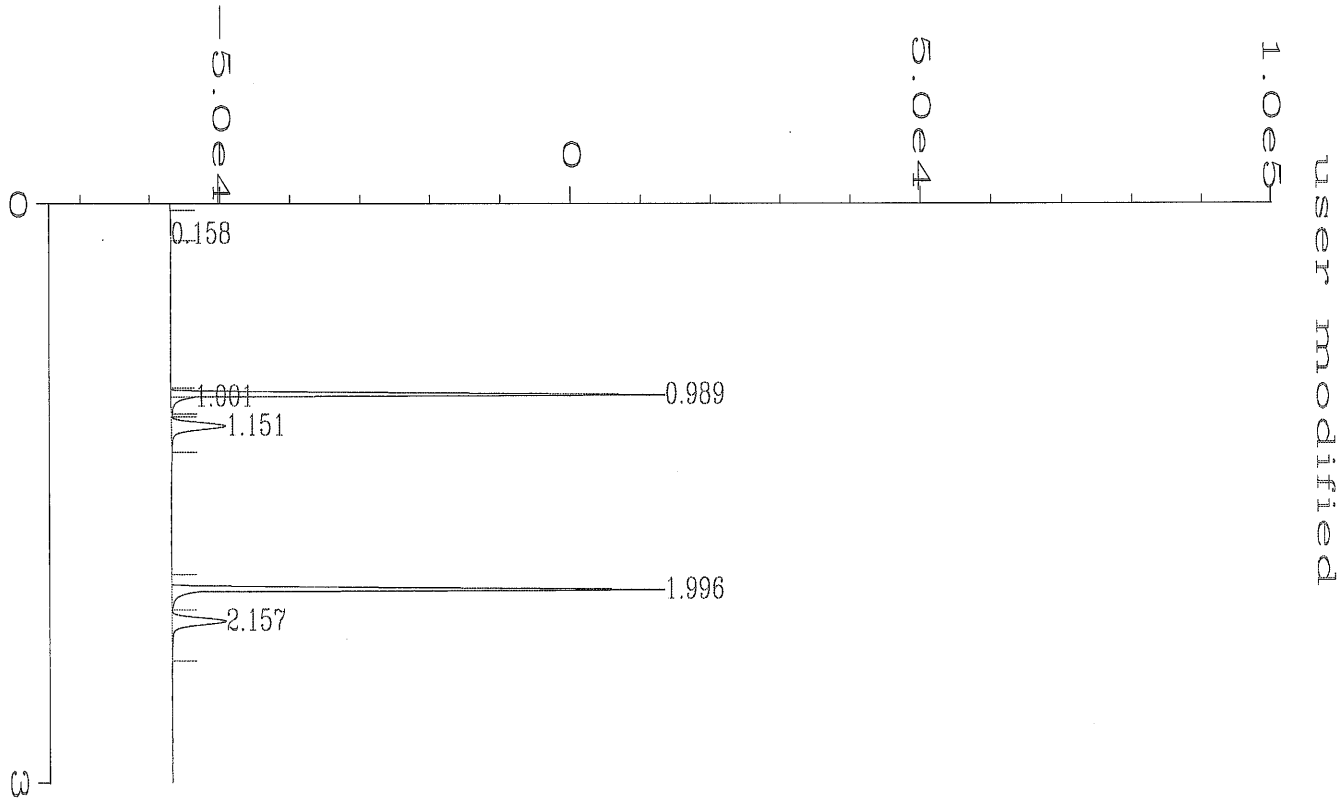
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510031A.D
Operator : DA
Instrument : GCL
Sample Name : T-213
Run Time Bar Code:
Acquired on : 25 Mar 25 01:46 PM
Report Created on: 28 Mar 25 10:57 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510031A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.158	430	61	BF	0.093	0.2192
2	0.989	73147	72819	MF	0.017	37.2864
3	1.001	3751	3282	FM	0.019	1.9123
4	1.151	20380	7684	FV	0.041	10.3887
5	1.996	77731	72861	BV	0.035	39.6233
6	2.157	20736	7718	VV	0.041	10.5700

Total area = 196175

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **32**

Client ID T-214

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 32

File Name: 2510032A
Description: T-214
Can/Tube#: 610
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 12:57
Date Analyzed: 03/25/25 **Time:** 13:50

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.025	0.074	9.403	223	668	94,035	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**32**			Cal Update:	**04/15/24**
File Name:	**2510032A**			SF:	3
Description:	**T-214**			Not Detected Flag:	ND
Date Sampled:	**03/20/25**	Time:	**12:57**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**13:50**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**610**				
Can Factor:	**1.11**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**114827**	9.40	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 32

File Name:	2510032A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.11		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.11		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	9.403	9.403	94,035	94,035	9.403	200	0.022	0.025	0.074	223	668			=		Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 | 32

Client: C.E. Schmidt
Client ID: T-214
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 610
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:57
Received: 3/21/2025 Time: 14:30

Date:
Initial : 786
Final: 875
Factor: 1.11

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

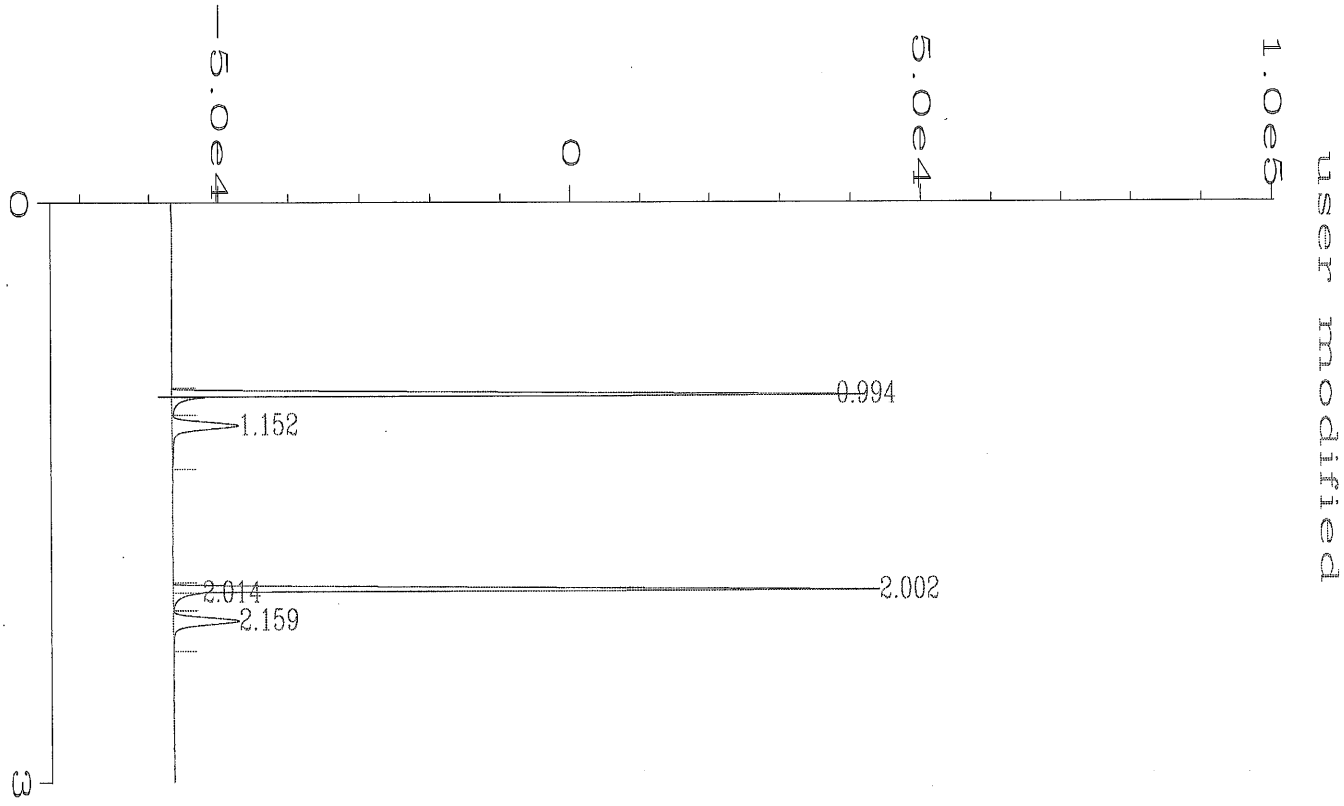
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510032A.D
Operator : DA
Instrument : GCL
Sample Name : T-214
Run Time Bar Code:
Acquired on : 25 Mar 25 01:50 PM
Report Created on: 28 Mar 25 10:58 AM
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510032A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.994	123517	97348	PV	0.021	41.7839
2	1.152	26884	9630	VF	0.043	9.0945
3	2.002	114827	104289	MF	0.018	38.8442
4	2.014	5102	4830	FM	0.018	1.7260
5	2.159	25279	9564	FV	0.041	8.5514

Total area = 295609

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **33**

Client ID T-215

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 33

File Name: 2510033A
Description: T-215
Can/Tube#: 751
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 12:44
Date Analyzed: 03/25/25 **Time:** 13:54

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.033	0.100	2.545	258	775	25,447	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**33**			Cal Update:	**04/15/24**
File Name:	**2510033A**			SF:	3
Description:	**T-215**			Not Detected Flag:	ND
Date Sampled:	**03/20/25**	Time:	**12:44**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**13:54**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**751**				
Can Factor:	**1.29**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**26795**	2.54	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 33

File Name:	2510033A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.29		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.29		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	2.545	2.545	25,447	25,447	2.545	200	0.026	0.033	0.100	258	775			=		Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 33

Client: C.E. Schmidt
Client ID: T-215
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 751
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:44
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	677		
Final:	874		
Factor:	1.29		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

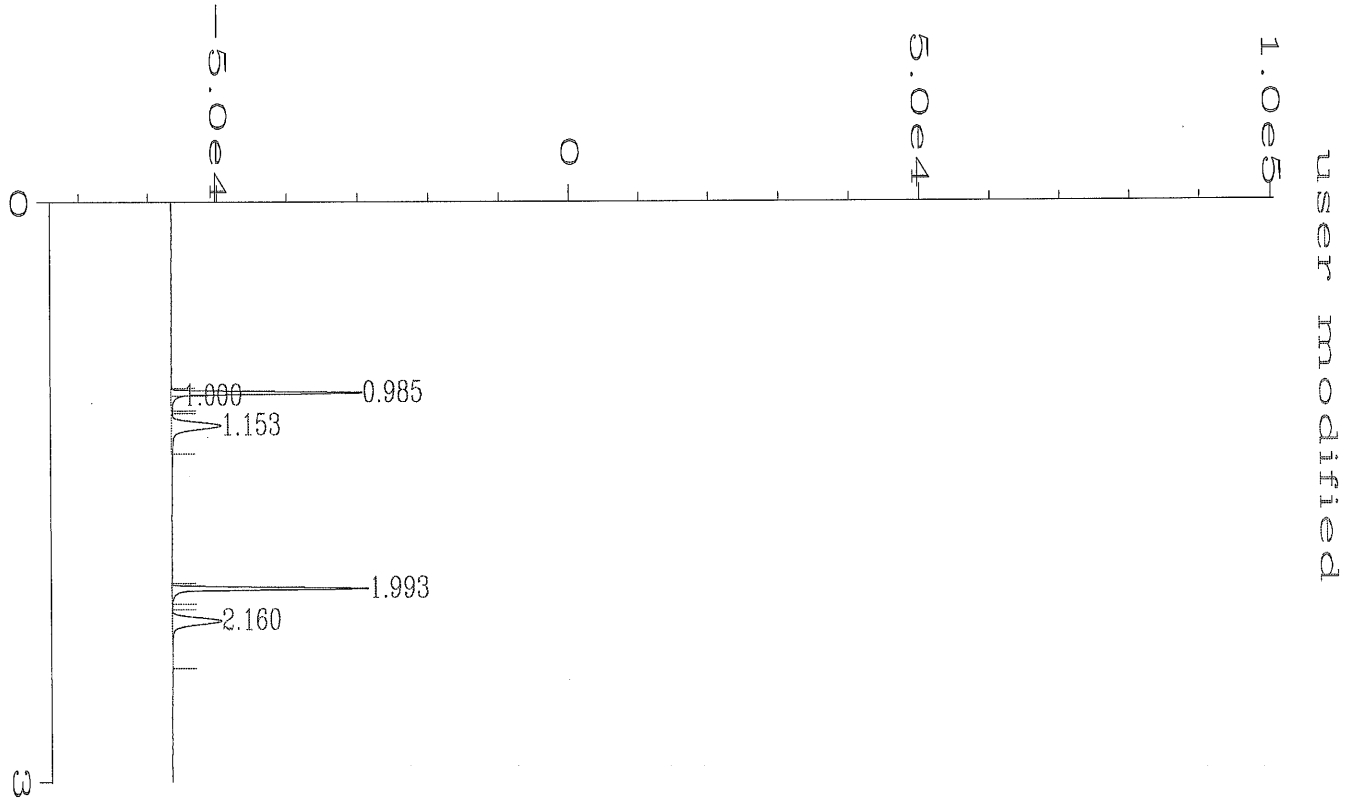
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510033A.D
Operator : DA
Instrument : GCL
Sample Name : T-215
Run Time Bar Code:
Acquired on : 25 Mar 25 01:54 PM
Report Created on: 28 Mar 25 11:00 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510033A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.985	26795	28050	MF	0.016	27.7048
2	1.000	1774	1819	FM	0.016	1.8341
3	1.153	20441	7272	FV	0.043	21.1351
4	1.993	28370	28692	PV	0.034	29.3327
5	2.160	19337	7269	VV	0.041	19.9933

Total area = 96717

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **34**

Client ID T-216

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 34

File Name: 2510034A
Description: T-216
Can/Tube#: 896
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 12:46
Date Analyzed: 03/25/25 **Time:** 13:58

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.038	0.115	7.533	277	830	75,334	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**34**			Cal Update:	**04/15/24**
File Name:	**2510034A**			SF:	3
Description:	**T-216**			Not Detected Flag:	ND
Date Sampled:	**03/20/25**	Time:	**12:46**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**13:58**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**896**				
Can Factor:	**1.38**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**74052**	7.53	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 34

File Name:	2510034A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.38		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.38		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	7.533	7.533	75,334	75,334	7.533	200	0.028	0.038	0.115	277	830			=		Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 | 34

Client: C.E. Schmidt
Client ID: T-216
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 896
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:46
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	632			
Final:	874			
Factor:	1.38			

LABORATORY

Analytical Test:

Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions

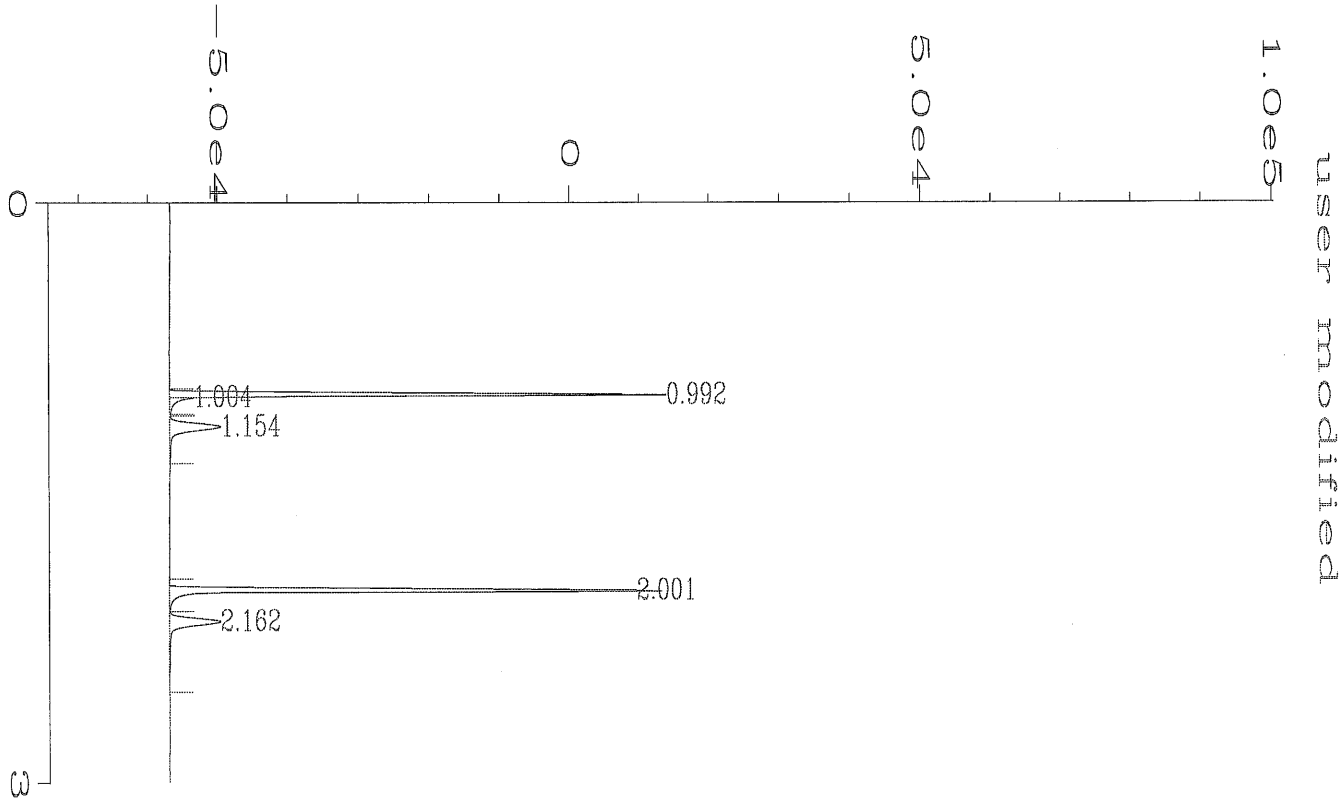
Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions: EAS QC Criteria
Report Types: PDF Only

EDD Instructions EDD Type:



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510034A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-216
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 01:58 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 11:03 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510034A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.992	74052	72831	MF	0.017	37.2535
2	1.004	4114	3932	FM	0.017	2.0697
3	1.154	20692	7424	FV	0.043	10.4097
4	2.001	78857	69098	PV	0.019	39.6709
5	2.162	21063	7468	VV	0.043	10.5963

Total area = 198779

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **35**

Client ID T-217

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ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 35

File Name: 2510035A
Description: T-217
Can/Tube#: 634
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 12:48
Date Analyzed: 03/25/25 **Time:** 14:02

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.032	0.097	5.967	254	763	59,668	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**35**			Cal Update:	**04/15/24**
File Name:	**2510035A**			SF:	3
Description:	**T-217**			Not Detected Flag:	ND
Date Sampled:	**03/20/25**	Time:	**12:48**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**14:02**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**634**				
Can Factor:	**1.27**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**63803**	5.97	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 35

File Name:	2510035A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.27		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.27		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	5.967	5.967	59,668	59,668	5.967	200	0.025	0.032	0.097	254	763			=		Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 | 35

Client: C.E. Schmidt
Client ID: T-217
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 634
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:48
Received: 3/21/2025 Time: 14:30

Date:
Initial : 693
Final: 881
Factor: 1.27

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

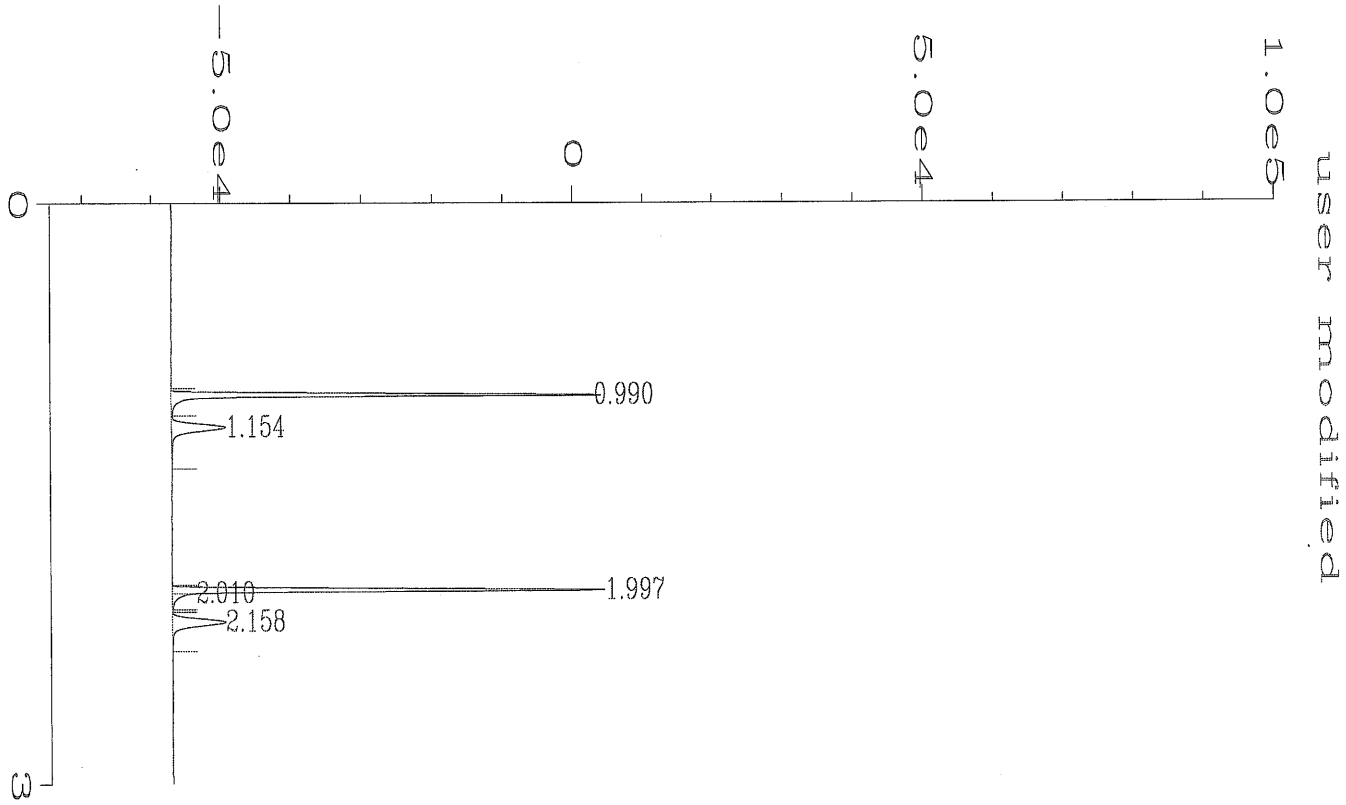
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510035A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-217
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 02:02 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 11:04 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510035A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.990	67533	61744	BV	0.027	38.2320
2	1.154	21478	7837	VF	0.042	12.1592
3	1.997	63803	62300	MF	0.017	36.1202
4	2.010	3420	3426	FM	0.017	1.9359
5	2.158	20407	7802	FV	0.040	11.5528

Total area = 176640

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **36**

Client ID T-218

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ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 36

File Name: 2510036A
Description: T-218
Can/Tube#: 698
QC_Batch: 032525-GCO

Date Sampled: 03/20/25 **Time:** 12:42
Date Analyzed: 03/25/25 **Time:** 14:06

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.032	0.096	4.714	253	760	47,143	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**36**			Cal Update:	**04/15/24**
File Name:	**2510036A**			SF:	3
Description:	**T-218**			Not Detected Flag:	ND
Date Sampled:	**03/20/25**	Time:	**12:42**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**14:06**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**698**				
Can Factor:	**1.27**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**50567**	4.71	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 36

File Name:	2510036A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.27		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.27		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	4.714	4.714	47,143	47,143	4.714	200	0.025	0.032	0.096	253	760			=		Y

Laboratory Worksheet

Due:

Expires: 4/19/2025

225100 | 36

Client: C.E. Schmidt
Client ID: T-218
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 698
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/20/2025 Time: 12:42
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	692		
Final:	877		
Factor:	1.27		

LABORATORY **Analytical Test:** Sample Location: Shelfs C-E

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

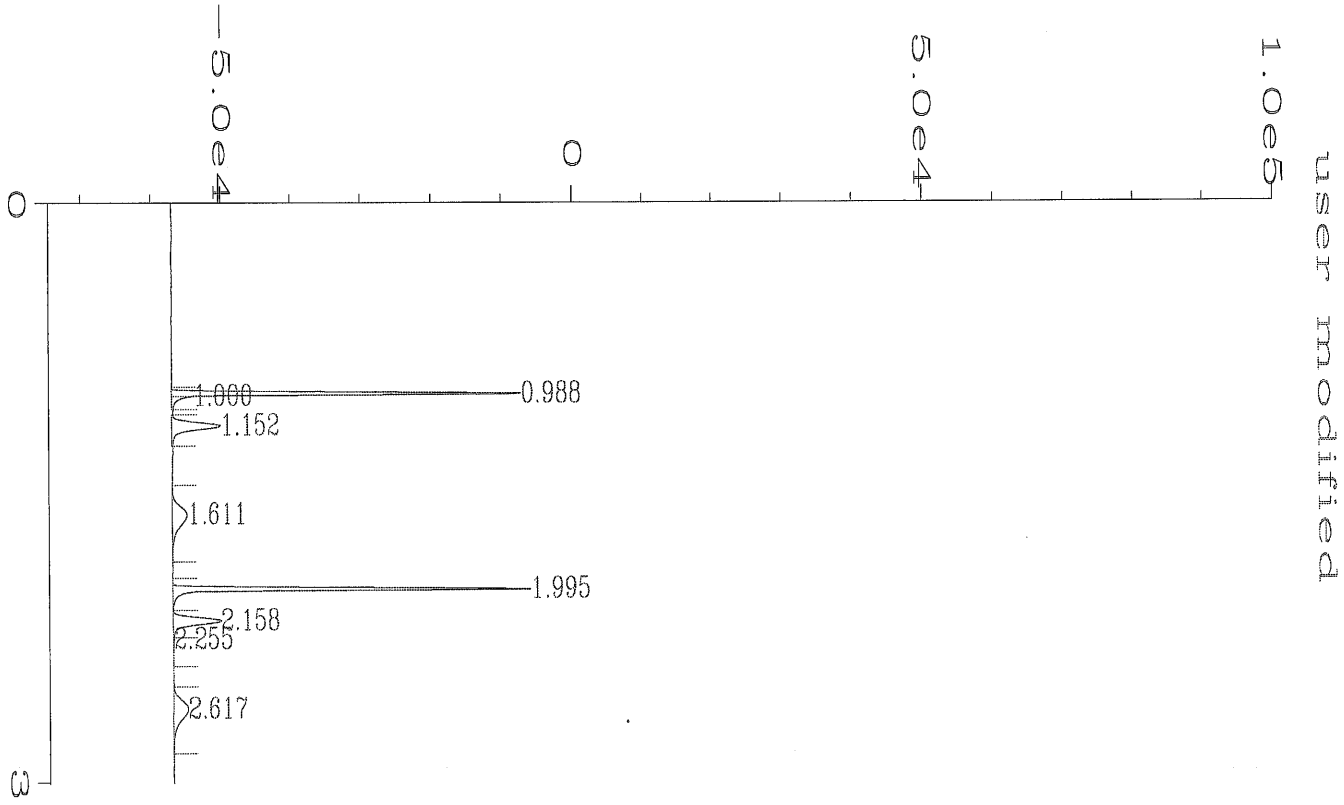
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510036A.D
Operator : DA
Instrument : GCL
Sample Name : T-218
Run Time Bar Code:
Acquired on : 25 Mar 25 02:06 PM
Report Created on: 28 Mar 25 11:05 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510036A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.988	50567	50731	MF	0.017	28.4631
2	1.000	2982	3170	FM	0.016	1.6785
3	1.152	19617	7117	FV	0.042	11.0422
4	1.611	16265	2185	PV	0.098	9.1554
5	1.995	53413	53743	BV	0.031	30.0652
6	2.158	18425	7087	VV	0.040	10.3708
7	2.255	392	137	VB	0.048	0.2206
8	2.617	15997	2175	VV	0.107	9.0042

Total area = 177659

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **37**

Client ID T-301

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 37

File Name: 2510037A
Description: T-301
Can/Tube#: 638
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 7:58
Date Analyzed: 03/25/25 **Time:** 14:15

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.028	0.085	5.531	238	715	55,311	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**37**			Cal Update:	**04/15/24**
File Name:	**2510037A**			SF:	3
Description:	**T-301**			Not Detected Flag:	ND
Date Sampled:	**03/21/25**	Time:	**7:58**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**14:15**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**638**				
Can Factor:	**1.19**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**63128**	5.53	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 37

File Name:	2510037A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.19		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.19		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	5.531	5.531	55,311	55,311	5.531	200	0.024	0.028	0.085	238	715			=		Y

Laboratory Worksheet

Due: | Expires: 4/20/2025 | 225100 | 37

Client: C.E. Schmidt
Client ID: T-301
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 638
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 7:58
Received: 3/21/2025 Time: 14:30

	Date:	$P_0 - P_1$		
Initial :	~~734~~	738		
Final:	872	879		
Factor:	1.19	1.19		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

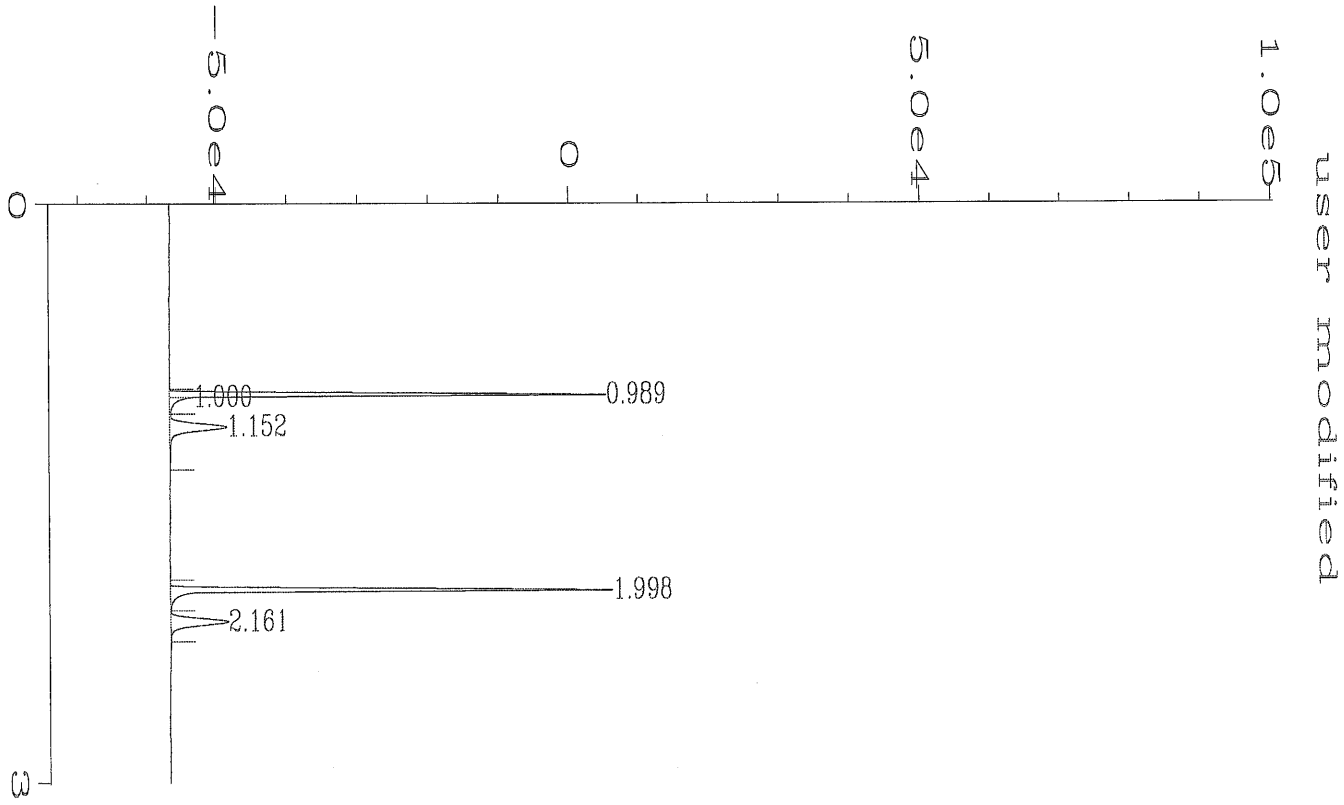
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510037A.D
Operator : DA
Instrument : GCL
Sample Name : T-301
Run Time Bar Code:
Acquired on : 25 Mar 25 02:15 PM
Report Created on: 28 Mar 25 11:06 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510037A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.989	63128	64713	MF	0.016	35.1908
2	1.000	3777	3465	FM	0.018	2.1055
3	1.152	22702	8297	FV	0.042	12.6550
4	1.998	68186	60972	PV	0.018	38.0104
5	2.161	21595	8425	VV	0.040	12.0383

Total area = 179388

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **38**

Client ID T-302

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 38

File Name: 2510038A
Description: T-302
Can/Tube#: 857
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 8:04
Date Analyzed: 03/25/25 **Time:** 14:20

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.028	0.085	4.133	238	713	41,327	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**38**			Cal Update:	**04/15/24**
File Name:	**2510038A**			SF:	3
Description:	**T-302**			Not Detected Flag:	ND
Date Sampled:	**03/21/25**	Time:	**8:04**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**14:20**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**857**				
Can Factor:	**1.19**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**47288**	4.13	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 38

File Name:	2510038A	Detect Flag:	ND		
QCBatch	032525-GCO	Report Normalized:	No		
Can Factor	1.19	Decimal Places:	3		
Air Volume:	0.5 ml	Temp	25 C		
Base Volume	0.5 ml	Atm P	760 torr		
Dilution Factor	1.19	Gas Constant	24.4		
Gas Constant:	24.4	RL Factor	3		

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	4.133	4.133	41,327	41,327	4.133	200	0.024	0.028	0.085	238	713			=		Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 38

Client: C.E. Schmidt
Client ID: T-302
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 857
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 8:04
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	~~738~~	734		
Final:	~~879~~	872		
Factor:	1.19			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

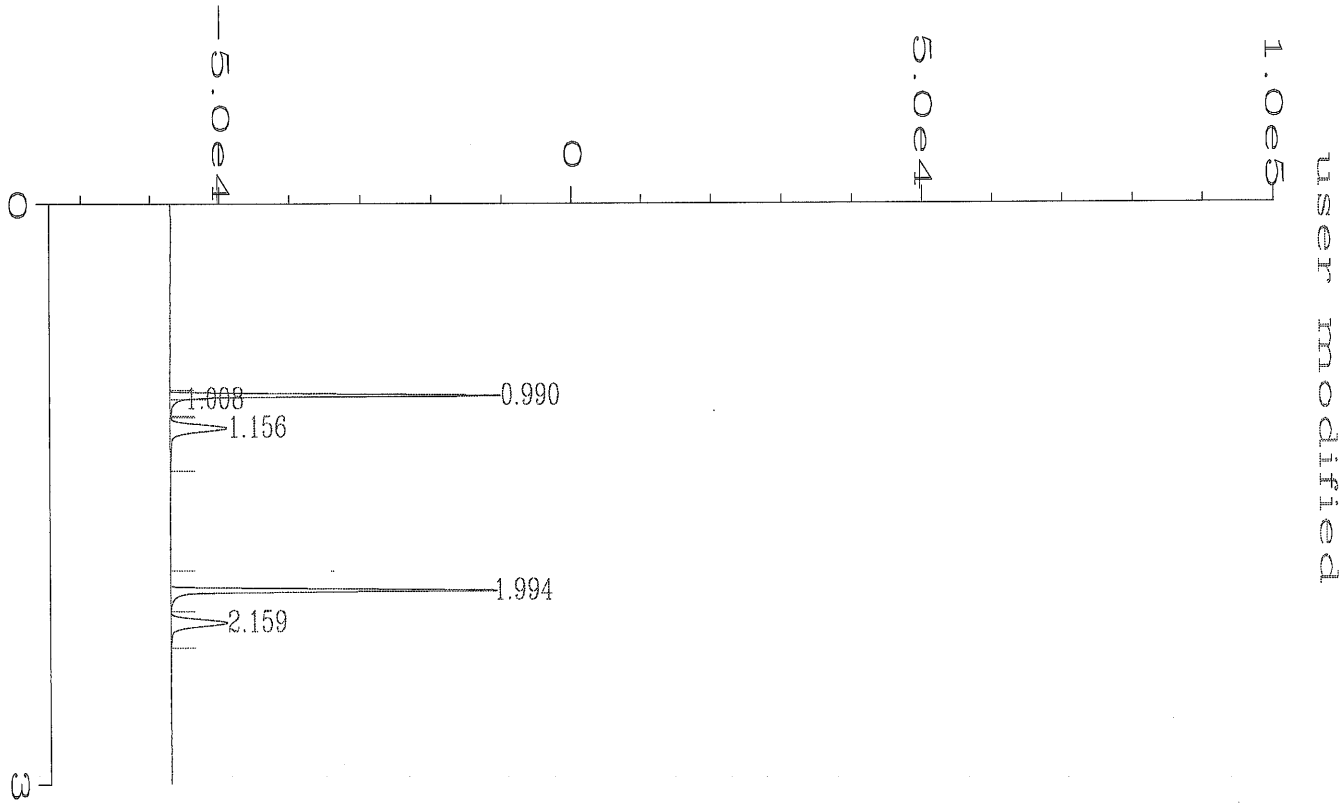
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510038A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-302
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 02:20 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 11:13 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510038A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.990	47288	47461	MF	0.017	32.9267
2	1.008	2351	1898	FM	0.021	1.6367
3	1.156	22906	8284	FV	0.043	15.9497
4	1.994	49614	47103	BV	0.017	34.5466
5	2.159	21457	8232	VV	0.040	14.9403

Total area = 143615

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **39**

Client ID T-303

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945 **Laboratory Number:** 39

File Name: 2510039A
Description: T-303
Can/Tube#: 552
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 8:05
Date Analyzed: 03/25/25 **Time:** 14:23

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.029	0.087	3.833	241	724	38,331	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**39**			Cal Update:	**04/15/24**
File Name:	**2510039A**			SF:	3
Description:	**T-303**			Not Detected Flag:	ND
Date Sampled:	**03/21/25**	Time:	**8:05**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**14:23**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**552**				
Can Factor:	**1.21**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**43194**	3.83	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 39

File Name:	2510039A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.21		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.21		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	3.833	3.833	38,331	38,331	3.833	200	0.024	0.029	0.087	241	724			=		Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 39

Client: C.E. Schmidt
Client ID: T-303
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 552
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 8:05
Received: 3/21/2025 Time: 14:30

	Date:		
Initial : ~~738~~	$P_0 - P_f$		
Final: ~~878~~	777		
Factor: 1.19	677		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

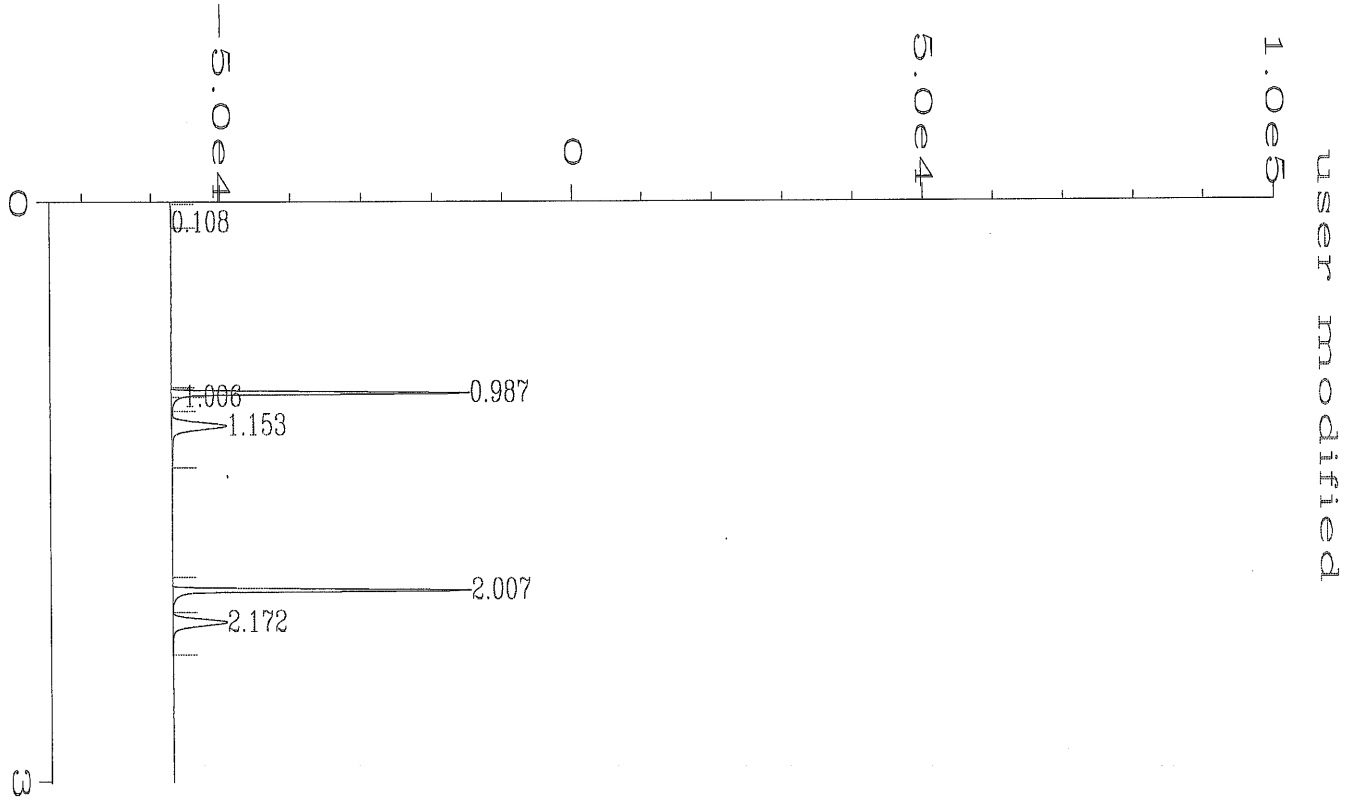
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510039A.D
Operator : DA
Instrument : GCL
Sample Name : T-303
Run Time Bar Code:
Acquired on : 25 Mar 25 02:23 PM
Report Created on: 28 Mar 25 11:14 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510039A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.108	241	39	BF	0.087	0.1809
2	0.987	43194	42993	MF	0.017	32.4571
3	1.006	2068	1798	FM	0.019	1.5537
4	1.153	22354	8027	FV	0.043	16.7974
5	2.007	44679	43204	BV	0.017	33.5733
6	2.172	20544	7961	VV	0.040	15.4374

Total area = 133080

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **40**

Client ID T-304

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 40

File Name: 2510040A
Description: T-304
Can/Tube#: 529
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 7:58
Date Analyzed: 03/25/25 **Time:** 14:27

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.029	0.087	4.724	240	721	47,238	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**40**			Cal Update:	**04/15/24**
File Name:	**2510040A**			SF:	3
Description:	**T-304**			Not Detected Flag:	ND
Date Sampled:	**03/21/25**	Time:	**7:58**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**14:27**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**529**				
Can Factor:	**1.20**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**53463**	4.72	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 40

File Name:	2510040A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.20		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.20		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	4.724	4.724	47,238	47,238	4.724	200	0.024	0.029	0.087	240	721			=		Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 40

Client: C.E. Schmidt
Client ID: T-304
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 529
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Initial : ~~727~~
Final: ~~877~~
Factor: 1.21

Sampled: 3/21/2025 Time: 7:58
Received: 3/21/2025 Time: 14:30

Date:	$P_6 - P_1$		
	731		
	878		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

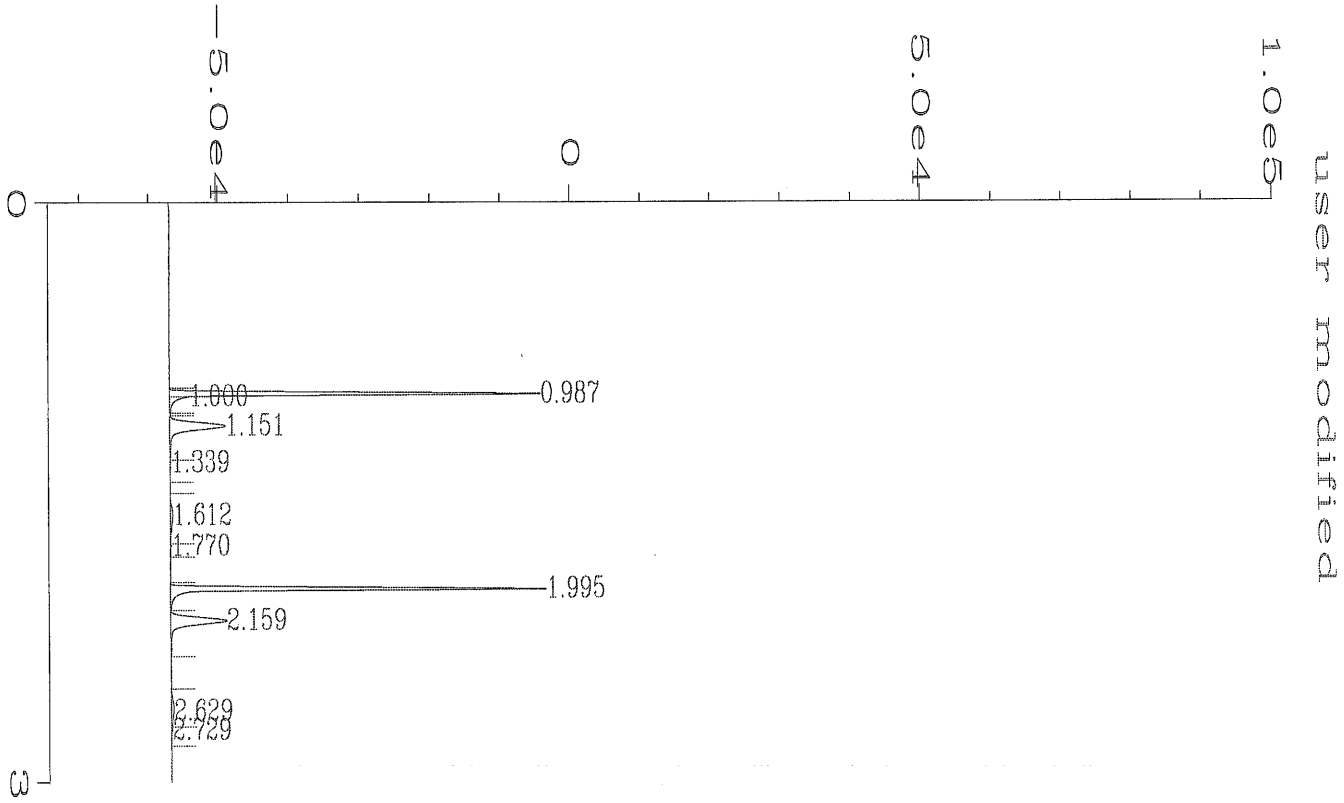
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510040A.D
Operator : DA
Instrument : GCL
Sample Name : T-304
Run Time Bar Code:
Acquired on : 25 Mar 25 02:27 PM
Report Created on: 28 Mar 25 11:15 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510040A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.987	53463	53382	MF	0.017	32.5683
2	1.000	3049	2829	FM	0.018	1.8574
3	1.151	22365	8127	FV	0.042	13.6244
4	1.339	306	156	VB	0.033	0.1863
5	1.612	2844	380	PV	0.091	1.7325
6	1.770	193	152	VV	0.021	0.1176
7	1.995	56803	56407	PV	0.035	34.6025
8	2.159	21847	8161	VV	0.041	13.3083
9	2.629	2883	410	VV	0.091	1.7560
10	2.729	405	208	VV	0.032	0.2466

Total area = 164158

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **41**

Client ID T-305

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945 **Laboratory Number:** 41

File Name: 2510041A
Description: T-305
Can/Tube#: 660
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 9:22
Date Analyzed: 03/25/25 **Time:** 14:31

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.030	0.091	2.894	246	737	28,938	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**41**			Cal Update:	**04/15/24**
File Name:	**2510041A**			SF:	3
Description:	**T-305**			Not Detected Flag:	ND
Date Sampled:	**03/21/25**	Time:	**9:22**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**14:31**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**660**				
Can Factor:	**1.23**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**32021**	2.89	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 41

File Name:	2510041A	Detect Flag:	ND		
QCBatch	032525-GCO	Report Normalized:	No		
Can Factor	1.23	Decimal Places:	3		
Air Volume:	0.5 ml	Temp	25 C		
Base Volume	0.5 ml	Atm P	760 torr		
Dilution Factor	1.23	Gas Constant	24.4		
Gas Constant:	24.4	RL Factor	3		

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	2.894	2.894	28,938	28,938	2.894	200	0.025	0.030	0.091	246	737			=		Y

Laboratory Worksheet

Due: | Expires: 4/20/2025 | 225100 | 41

Client: C.E. Schmidt
Client ID: T-305
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 660
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:22
Received: 3/21/2025 Time: 14:30

Date:
Initial : 709
Final: 871
Factor: 1.23

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

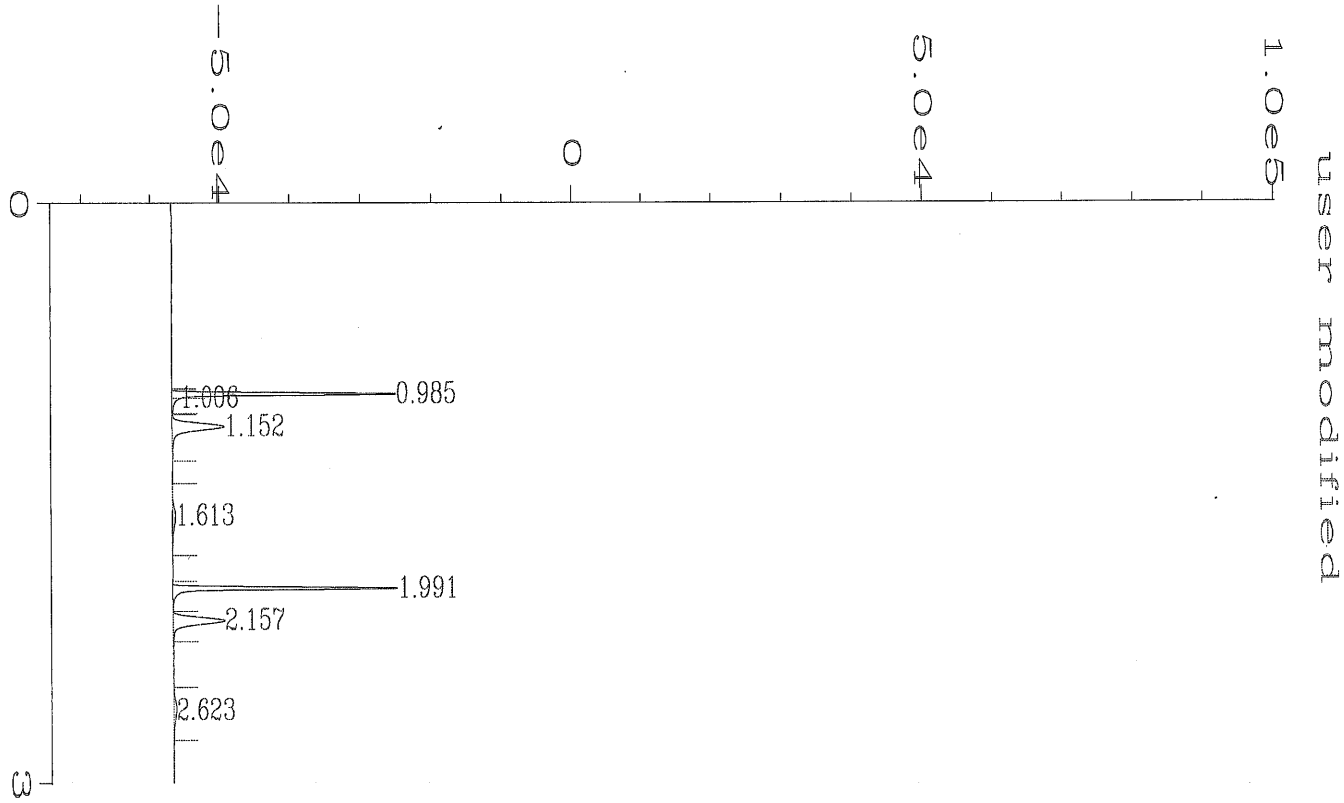
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510041A.D
Operator : DA
Instrument : GCL
Sample Name : T-305
Run Time Bar Code:
Acquired on : 25 Mar 25 02:31 PM
Report Created on: 28 Mar 25 11:15 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510041A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.985	32021	32811	MF	0.016	28.2399
2	1.006	1577	1210	FM	0.022	1.3905
3	1.152	20645	7599	FV	0.042	18.2072
4	1.613	3064	420	BV	0.093	2.7021
5	1.991	33560	32891	PV	0.016	29.5973
6	2.157	19496	7562	VV	0.040	17.1945
7	2.623	3026	434	VV	0.085	2.6685

Total area = 113388

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **42**

Client ID T-306

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945 **Laboratory Number:** 42

File Name: 2510042A
Description: T-306
Can/Tube#: 859
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 9:13
Date Analyzed: 03/25/25 **Time:** 14:34

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.029	0.088	3.871	242	726	38,706	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**42**			Cal Update:	**04/15/24**
File Name:	**2510042A**			SF:	3
Description:	**T-306**			Not Detected Flag:	ND
Date Sampled:	**03/21/25**	Time:	**9:13**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**14:34**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**859**				
Can Factor:	**1.21**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**43465**	3.87	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 42

File Name:	2510042A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.21		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.21		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	3.871	3.871	38,706	38,706	3.871	200	0.024	0.029	0.088	242	726			=		Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 | 42

Client: C.E. Schmidt
Client ID: T-306
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 859
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:13
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	722		
Final:	874		
Factor:	1.21		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

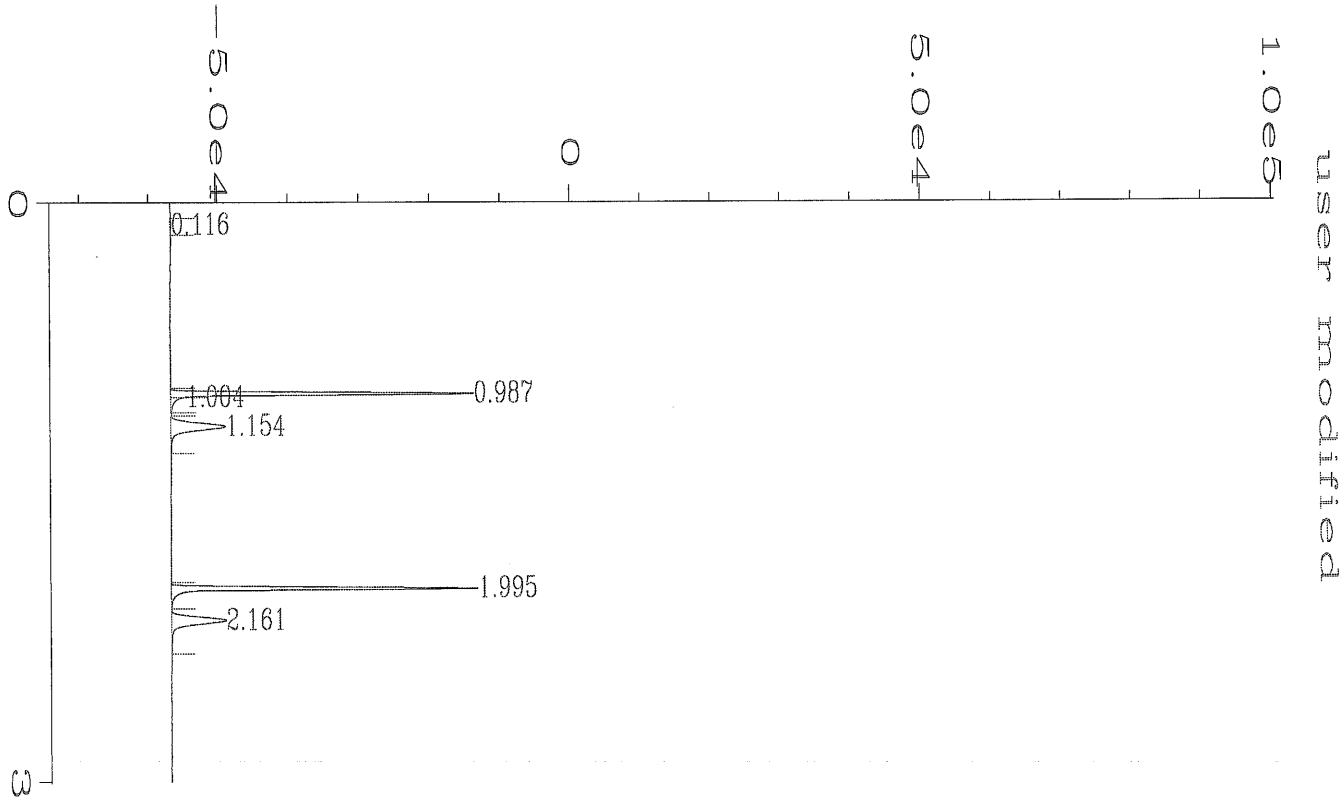
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510042A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-306
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 02:34 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 11:16 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510042A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.116	332	99	VF	0.046	0.2472
2	0.987	43465	43530	MF	0.017	32.4056
3	1.004	2333	1957	FM	0.020	1.7391
4	1.154	21229	7939	FV	0.041	15.8273
5	1.995	45829	45437	PV	0.034	34.1679
6	2.161	20941	7983	VV	0.041	15.6129

Total area = 134129

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **43**

Client ID T-307

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945 **Laboratory Number:** 43

File Name: 2510043A
Description: T-307
Can/Tube#: 636
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 9:10
Date Analyzed: 03/25/25 **Time:** 14:38

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.030	0.089	3.802	244	732	38,023	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**43**			Cal Update:	**04/15/24**
File Name:	**2510043A**			SF:	3
Description:	**T-307**			Not Detected Flag:	ND
Date Sampled:	**03/21/25**	Time:	**9:10**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**14:38**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**636**				
Can Factor:	**1.22**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**42386**	3.80	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 43

File Name:	2510043A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.22		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.22		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	3.802	3.802	38,023	38,023	3.802	200	0.024	0.030	0.089	244	732			=		Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 | 43

Client: C.E. Schmidt
Client ID: T-307
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 636
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:10
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	720		
Final:	878		
Factor:	1.22		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

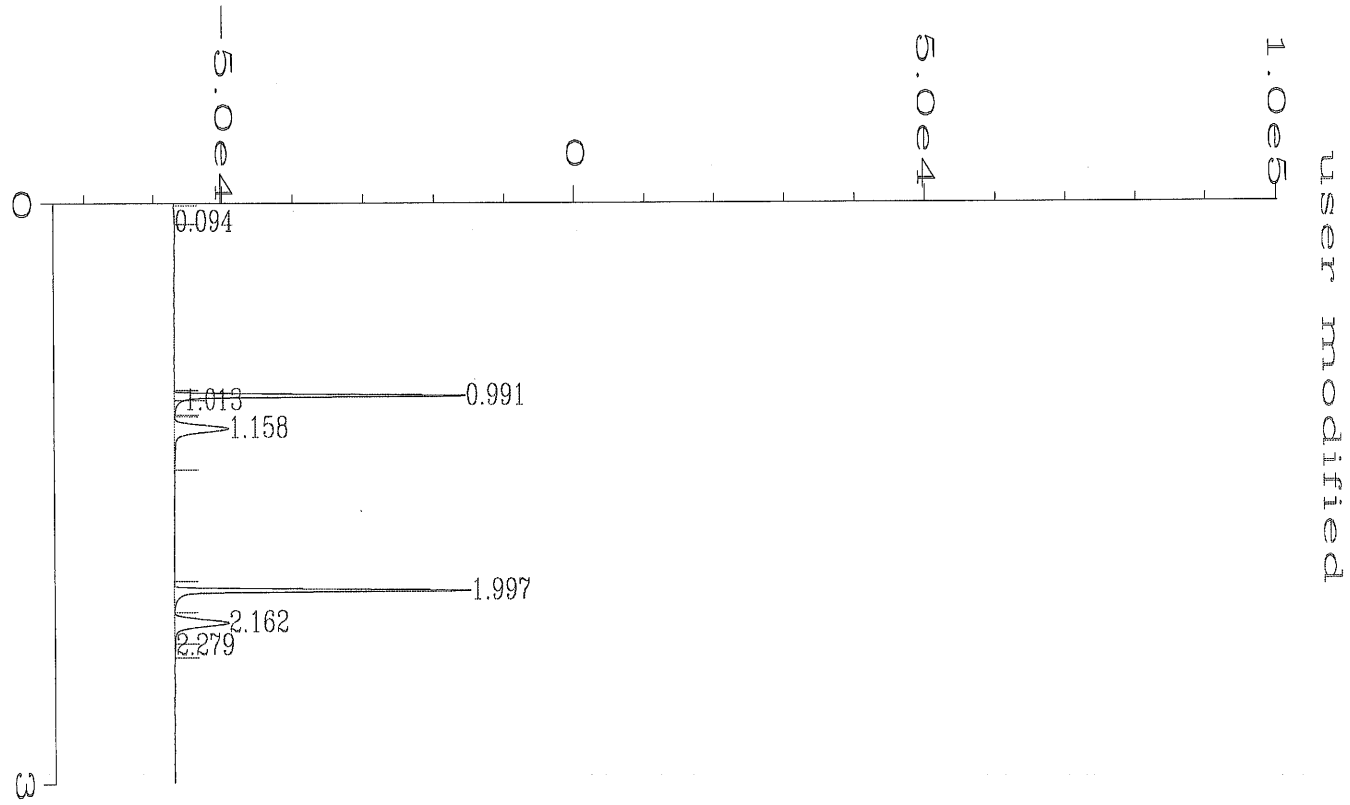
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510043A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-307
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 02:38 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 11:17 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510043A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.094	185	57	BF	0.053	0.1410
2	0.991	42386	42322	MF	0.017	32.2467
3	1.013	1620	1376	FM	0.020	1.2328
4	1.158	21533	7885	FV	0.042	16.3822
5	1.997	44861	43025	PV	0.029	34.1302
6	2.162	20651	7947	VV	0.040	15.7112
7	2.279	205	140	VB	0.024	0.1559

Total area = 131441

User Modified

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Sample Data Packages

SDG Number 225100

Lab Id Number 44

Client ID T-308

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945 **Laboratory Number:** 44

File Name: 2510044A
Description: T-308
Can/Tube#: 661
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 9:18
Date Analyzed: 03/25/25 **Time:** 14:42

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.030	0.089	3.365	244	732	33,653	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**44**			Cal Update:	**04/15/24**
File Name:	**2510044A**			SF:	3
Description:	**T-308**			Not Detected Flag:	ND
Date Sampled:	**03/21/25**	Time:	**9:18**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**14:42**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**661**				
Can Factor:	**1.22**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**37487**	3.37	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 44

File Name:	2510044A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.22		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.22		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	3.365	3.365	33,653	33,653	3.365	200	0.024	0.030	0.089	244	732			=		Y

Laboratory Worksheet

Due: | Expires: 4/20/2025 | 225100 | 44

Client: C.E. Schmidt
Client ID: T-308
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 661
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 9:18
Received: 3/21/2025 Time: 14:30

	Date:			
Initial :	717			
Final:	875			
Factor:	1.22			

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

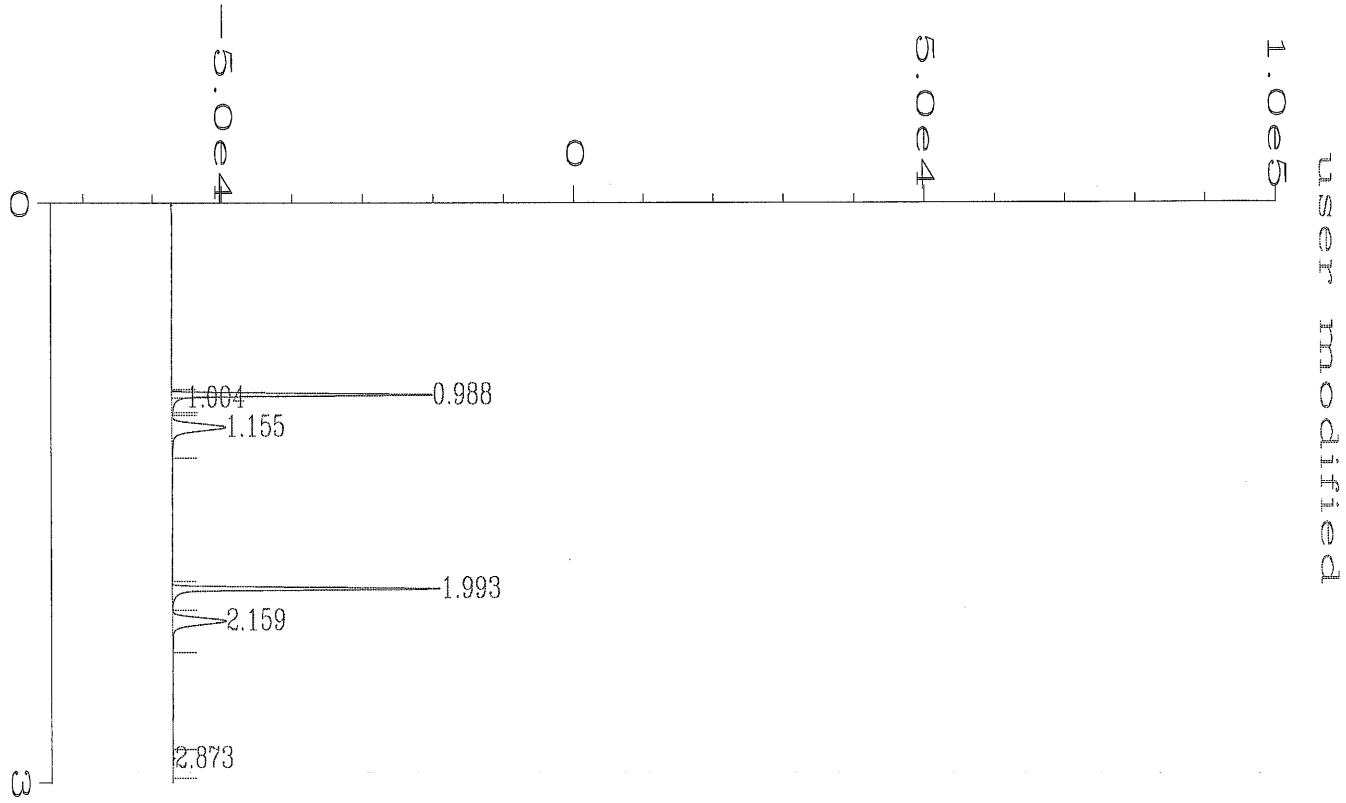
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510044A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-308
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 02:42 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 11:18 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510044A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.988	37487	38136	MF	0.016	30.9769
2	1.004	2133	1857	FM	0.019	1.7622
3	1.155	21178	7810	FV	0.042	17.5002
4	1.993	39748	38854	BV	0.033	32.8456
5	2.159	20218	7782	VV	0.040	16.7071
6	2.873	252	303	VV	0.036	0.2079

Total area = 121015

User Modified

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 45

File Name: 2510045A
Description: T-309
Can/Tube#: 579
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 9:24
Date Analyzed: 03/25/25 **Time:** 14:46

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.029	0.088	3.184	242	725	31,835	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**45**			Cal Update:	**04/15/24**
File Name:	**2510045A**			SF:	3
Description:	**T-309**			Not Detected Flag:	ND
Date Sampled:	**03/21/25**	Time:	**9:24**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**14:46**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**579**				
Can Factor:	**1.21**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**35825**	3.18	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 45

File Name:	2510045A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.21		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.21		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	3.184	3.184	31,835	31,835	3.184	200	0.024	0.029	0.088	242	725			=		Y

Laboratory Worksheet

Due:	Expires:		
	4/20/2025	225100	45

Client:	C.E. Schmidt	MS Load Vol:	300
Client ID:	T-309	MS SIM Vol:	
Description:		GCK Load Vol:	200
Project Name:	Chiquita Canyon	GCP Load Vol:	
EAS Project:	17807	EAS PM: David Atkinson	Sample Volume:

Media:	CAN	Can Pressurization:	Sampled:	3/21/2025	Time: 9:24
Can Number:	~~579~~ 539X		Received:	3/21/2025	Time: 14:30
FC Number:	0				
TAT Working:		Date:			
Sampling Time:		Initial :	726		
Flow:		Final:	877		
		Factor:	1.21		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:		Item Description:	Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Recorded as 579 on COC

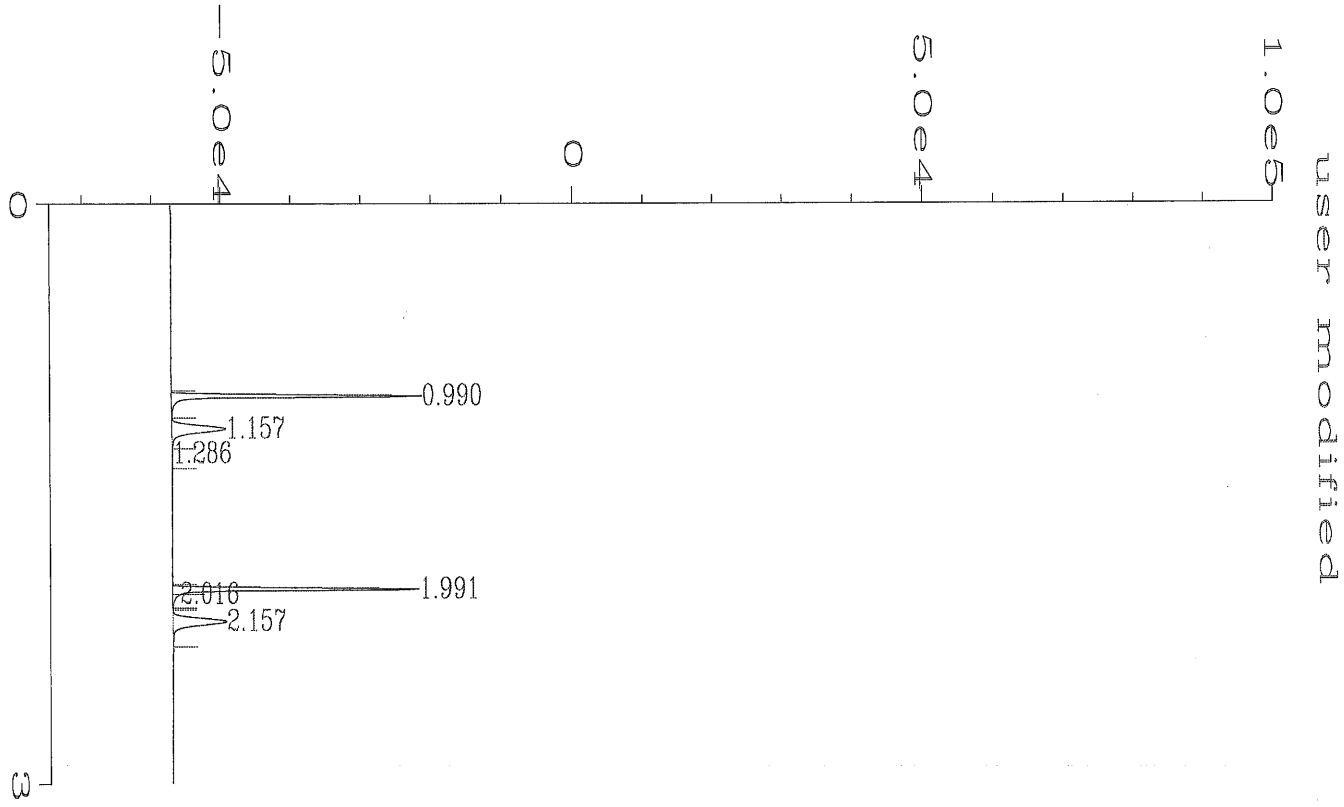
CK -RS

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



Area Percent Report

Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510045A.D
Operator : DA
Instrument : GCL
Sample Name : T-309
Run Time Bar Code:
Acquired on : 25 Mar 25 02:46 PM
Report Created on: 28 Mar 25 11:19 AM
Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510045A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.990	37072	36469	PV	0.031	32.1784
2	1.157	20774	7820	VV	0.041	18.0315
3	1.286	275	99	VB	0.046	0.2383
4	1.991	35825	35924	MF	0.017	31.0958
5	2.016	1285	1118	FM	0.019	1.1155
6	2.157	19978	7805	FV	0.040	17.3404

Total area = 115209

User Modified

Sample Data Packages

SDG Number **225100**

Lab Id Number **45**

Client ID T-309

Analytical Method ASTM D1945

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SDG Number **225100**

Lab Id Number **46**

Client ID T-310

Analytical Method ASTM D1945

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Laboratory Worksheet

Due: | Expires: 4/20/2025 | 225100 | 46

Client: C.E. Schmidt
Client ID: T-310
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 771
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:48
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	679		
Final:	874		
Factor:	1.29		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

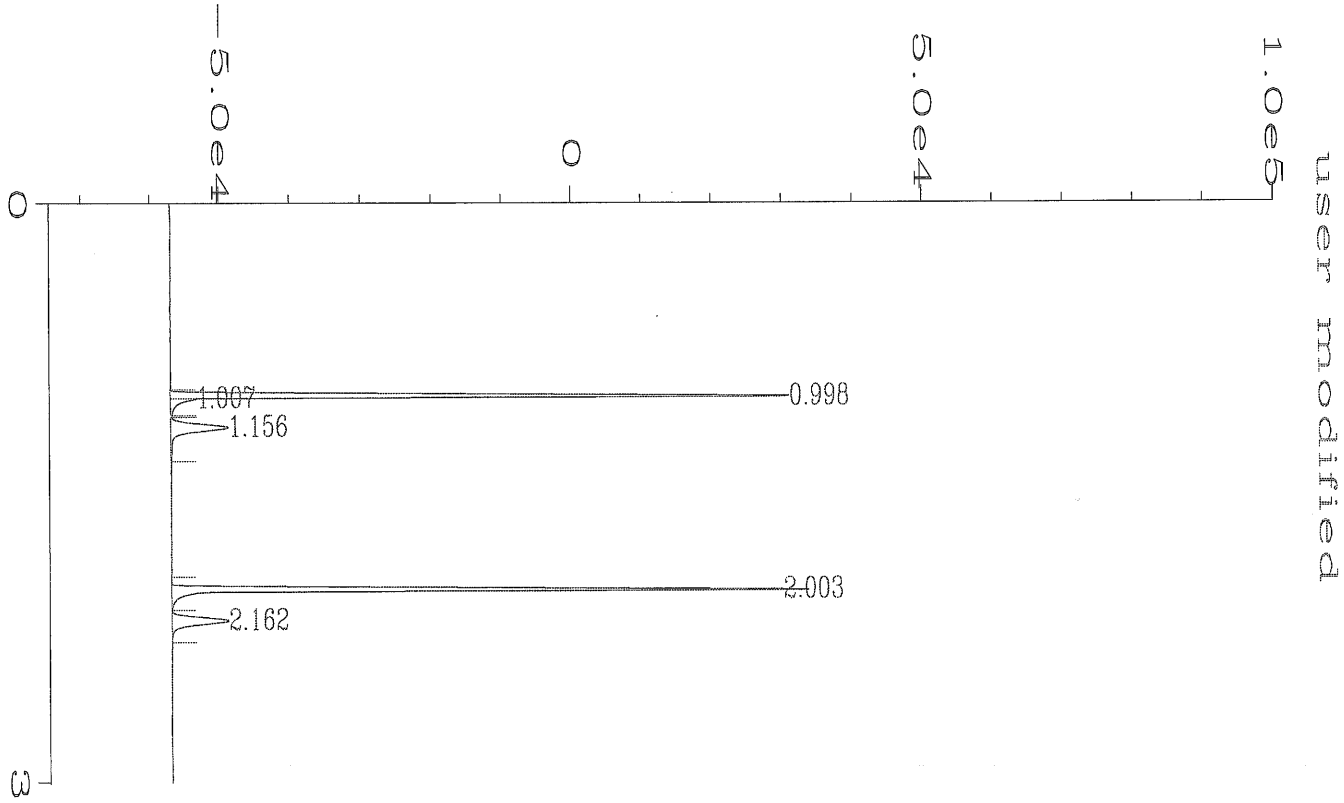
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510046A.D
Operator : DA
Instrument : GCL
Sample Name : T-310
Run Time Bar Code:
Acquired on : 25 Mar 25 02:49 PM
Report Created on: 28 Mar 25 11:20 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510046A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.998	102629	89508	MF	0.019	39.5518
2	1.007	5474	3941	FM	0.023	2.1098
3	1.156	23586	8324	FV	0.043	9.0899
4	2.003	106346	89078	PV	0.024	40.9842
5	2.162	21444	8280	VV	0.040	8.2643

Total area = 259480

User Modified

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945 **Laboratory Number:** 46

File Name: 2510046A
Description: T-310
Can/Tube#: 771
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 10:48
Date Analyzed: 03/25/25 **Time:** 14:49

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.033	0.099	9.718	257	772	97,179	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**46**			Cal Update:	**04/15/24**
File Name:	**2510046A**			SF:	3
Description:	**T-310**			Not Detected Flag:	ND
Date Sampled:	**03/21/25**	Time:	**10:48**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**14:49**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**771**				
Can Factor:	**1.29**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**102629**	9.72	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 46

File Name:	2510046A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.29		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.29		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	9.718	9.718	97,179	97,179	9.718	200	0.026	0.033	0.099	257	772			=		Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **47**

Client ID T-311

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945
Laboratory Number: 47

File Name: 2510047A
Description: T-311
Can/Tube#: 605
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 10:35
Date Analyzed: 03/25/25 **Time:** 14:53

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.033	0.099	1.461	257	770	14,610	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**47**			Cal Update:	**04/15/24**
File Name:	**2510047A**			SF:	3
Description:	**T-311**			Not Detected Flag:	ND
Date Sampled:	**03/21/25**	Time:	**10:35**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**14:53**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**605**				
Can Factor:	**1.28**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**15470**	1.46	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 47

File Name:	2510047A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.28		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.28		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	1.461	1.461	14,610	14,610	1.461	200	0.026	0.033	0.099	257	770			=		Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 47

Client: C.E. Schmidt
Client ID: T-311
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 605
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:35
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	680		
Final:	873		
Factor:	1.28		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

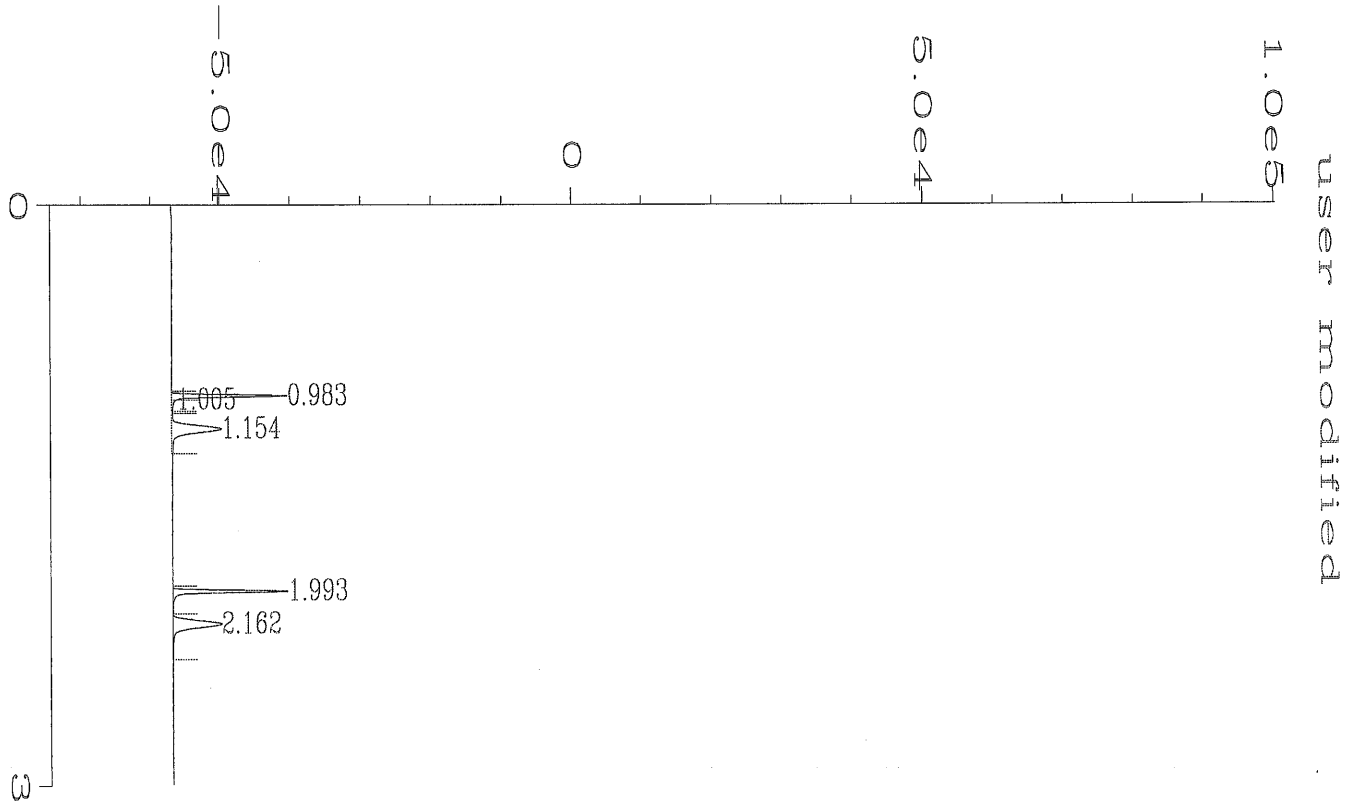
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510047A.D
Operator : DA
Instrument : GCL
Sample Name : T-311
Run Time Bar Code:
Acquired on : 25 Mar 25 02:53 PM
Report Created on: 28 Mar 25 11:21 AM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510047A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.983	15470	16792	MF	0.015	21.6926
2	1.005	861	658	FM	0.022	1.2068
3	1.154	20127	7168	FV	0.043	28.2231
4	1.993	16246	16822	PV	0.029	22.7813
5	2.162	18610	7095	VB	0.041	26.0962

Total area = 71313

User Modified

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Sample Data Packages

SDG Number **225100**

Lab Id Number **48**

Client ID T-312

Analytical Method ASTM D1945

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Analytical Report
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Laboratory Worksheet

Due: | Expires: 4/20/2025 | 225100 | 48

Client: C.E. Schmidt
Client ID: T-312
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 990
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:30
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	689		
Final:	913		
Factor:	1.33		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

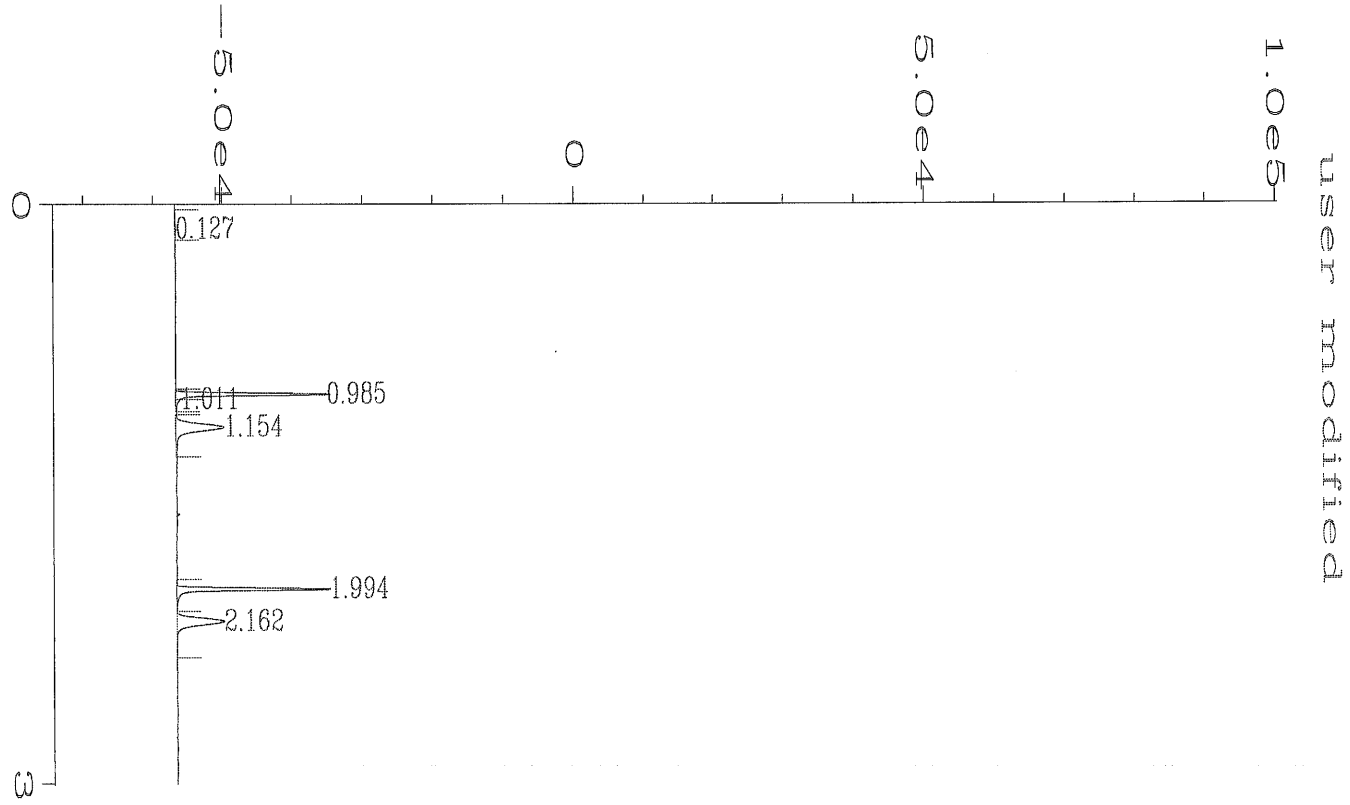
InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria
Report Types: PDF Only
EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510048A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-312
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 02:57 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 11:23 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510048A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.127	528	121	BF	0.056	0.6281
2	0.985	21822	23055	MF	0.016	25.9358
3	1.011	949	694	FM	0.023	1.1277
4	1.154	19825	7025	FF	0.043	23.5615
5	1.994	22941	22791	FV	0.016	27.2656
6	2.162	18074	6952	VV	0.040	21.4812

Total area = 84140

User Modified

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945 **Laboratory Number:** 48

File Name: 2510048A
Description: T-312
Can/Tube#: 990
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 10:30
Date Analyzed: 03/25/25 **Time:** 14:57

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.035	0.105	2.127	265	795	21,272	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**48**			Cal Update:	**04/15/24**
File Name:	**2510048A**			SF:	3
Description:	**T-312**			Not Detected Flag:	ND
Date Sampled:	**03/21/25**	Time:	**10:30**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**14:57**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**990**				
Can Factor:	**1.33**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**21822**	2.13	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 48

File Name:	2510048A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.33		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.33		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	2.127	2.127	21,272	21,272	2.127	200	0.027	0.035	0.105	265	795			=		Y

Sample Data Packages

SDG Number **225100**

Lab Id Number **49**

Client ID T-313

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

SDG: 225100
Analytical Method: D1945 **Laboratory Number:** 49

File Name: 2510049A
Description: T-313
Can/Tube#: 549
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 10:31
Date Analyzed: 03/25/25 **Time:** 15:00

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.031	0.094	1.766	251	753	17,657	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**49**			Cal Update:	**04/15/24**
File Name:	**2510049A**			SF:	3
Description:	**T-313**			Not Detected Flag:	ND
Date Sampled:	**03/21/25**	Time:	**10:31**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**15:00**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**549**				
Can Factor:	**1.25**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**19131**	1.77	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 49

File Name:	2510049A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.25		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.25		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	1.766	1.766	17,657	17,657	1.766	200	0.025	0.031	0.094	251	753			=		Y

Laboratory Worksheet

Due:

Expires: 4/20/2025

225100 | 49

Client: C.E. Schmidt
Client ID: T-313
Description:
Project Name: Chiquita Canyon
EAS Project: 17807 EAS PM: David Atkinson

MS Load Vol: 300
MS SIM Vol:
GCK Load Vol: 200
GCP Load Vol:
Sample Volume:

Media: CAN
Can Number: 549
FC Number: 0
TAT Working:
Sampling Time:
Flow:

Can Pressurization:

Sampled: 3/21/2025 Time: 10:31
Received: 3/21/2025 Time: 14:30

	Date:		
Initial :	695		
Final:	872		
Factor:	1.25		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

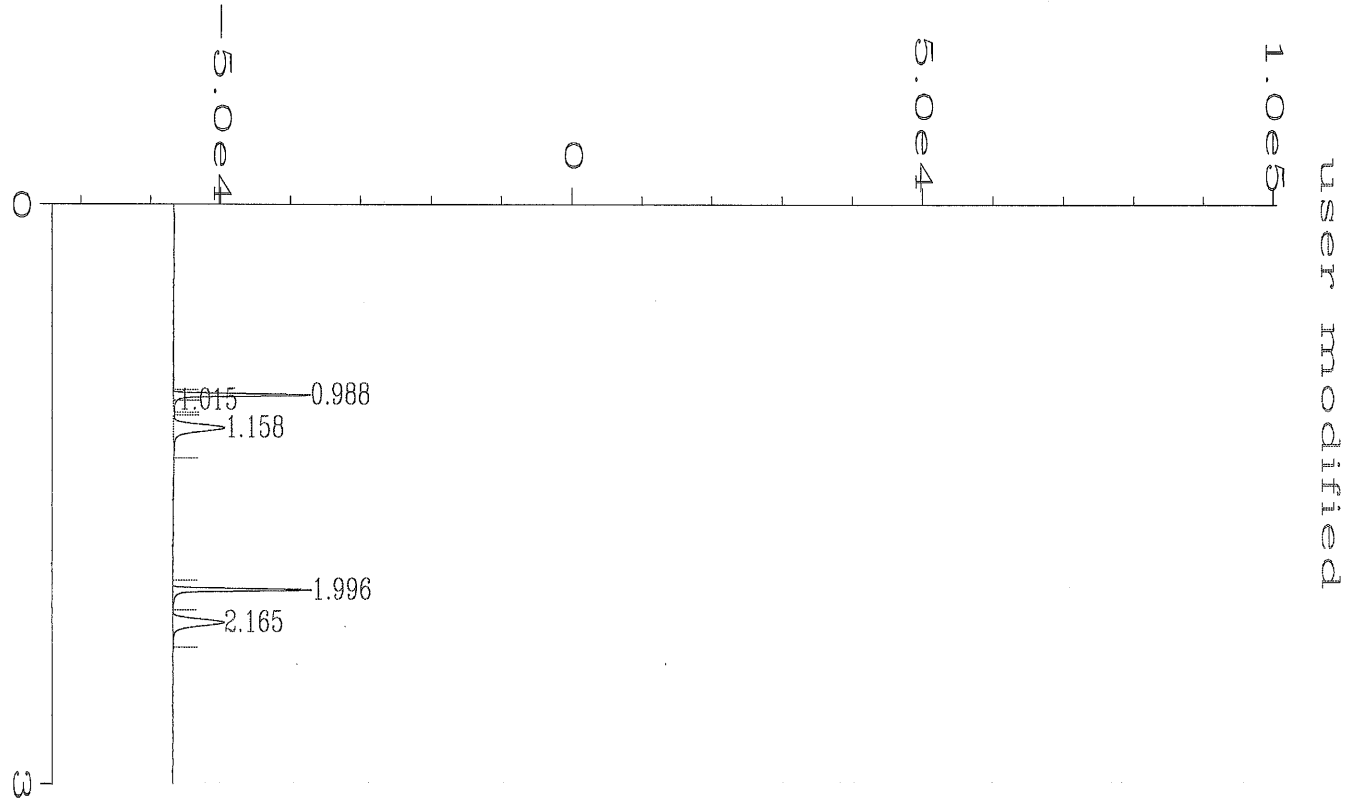
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510049A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-313
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 03:00 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 11:25 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510049A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.988	19131	20023	MF	0.016	24.4424
2	1.015	720	553	FM	0.022	0.9194
3	1.158	19595	7349	FV	0.041	25.0355
4	1.996	19875	20312	BV	0.031	25.3937
5	2.165	18948	7354	VV	0.040	24.2091

Total area = 78268

User Modified

==========

Sample Data Packages

SDG Number **225100**

Lab Id Number **50**

Client ID T-314

Analytical Method ASTM D1945

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ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: 225100
Laboratory Number: 50

File Name: 2510050A
Description: T-314
Can/Tube#: 784
QC_Batch: 032525-GCO

Date Sampled: 03/21/25 **Time:** 10:38
Date Analyzed: 03/25/25 **Time:** 15:06

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.031	0.094	1.748	250	750	17,483	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**225100**			Method:	**D1945**
Lab Id:	**50**			Cal Update:	**04/15/24**
File Name:	**2510050A**			SF:	3
Description:	**T-314**			Not Detected Flag:	ND
Date Sampled:	**03/21/25**	Time:	**10:38**	Matrix:	AA
Date Received:	**03/21/25**	Time:	**14:30**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**15:06**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**784**				
Can Factor:	**1.25**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**SA**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.98	**10.00**	**135938**	**19018**	1.75	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

F6 Data Package Print: Report, Quant, Calc,

CALCULATIONS

ASTM D 1945 GC/TCD

SDG: ####

Laboratory Number: 50

File Name:	2510050A		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.25		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.25		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	1.748	1.748	17,483	17,483	1.748	200	0.025	0.031	0.094	250	750			=		Y

Laboratory Worksheet

Due:	Expires:		
	4/20/2025	225100	50

Client:	C.E. Schmidt	MS Load Vol:	300
Client ID:	T-314	MS SIM Vol:	
Description:		GCK Load Vol:	200
Project Name:	Chiquita Canyon	GCP Load Vol:	
EAS Project:	17807	EAS PM: David Atkinson	Sample Volume:

Media:	CAN	Can Pressurization:	Sampled:	3/21/2025	Time: 10:38
Can Number:	784		Received:	3/21/2025	Time: 14:30
FC Number:	0				
TAT Working:		Date:			
Sampling Time:		Initial :	701		
Flow:		Final:	876		
		Factor:	1.25		

LABORATORY **Analytical Test:** Sample Location: Shelfs E,I-J

InstrumentMethod:	Item Description:		Holding Time:
GCO	ASTM D1945	ASTM D1945 He Low and Hydrogen Confirmation	30

Analysis Instructions Sample Type:

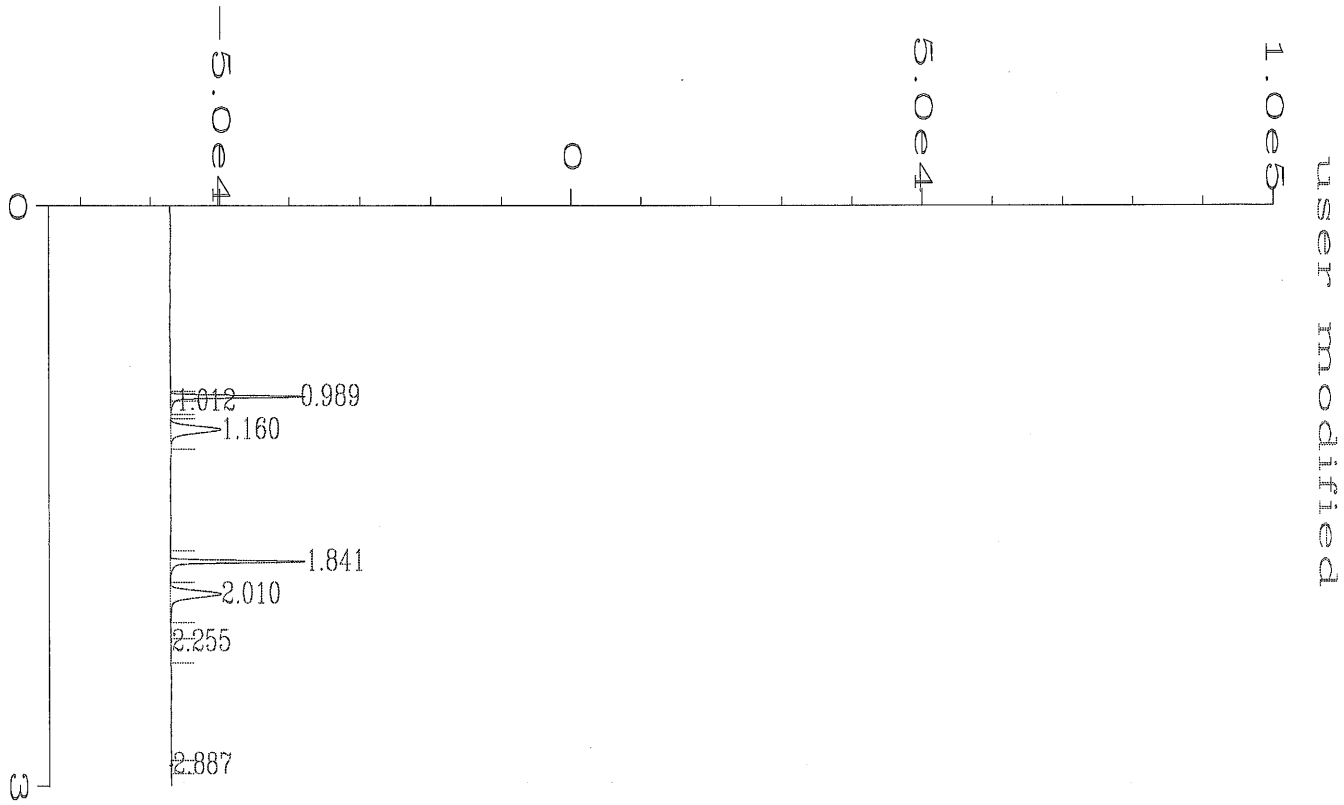
WE WILL NEED A DATA PACKAGE:
TO-15 Full List - Process with BAQMD 95 Excel Template + Acrolein (some projects)
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

TO-15 Full List - Process with BAQMD 95 Excel Template
TO-12 TNMHC Process with Detailed Hydrocarbon Analysis Template - Report TNMHC C2-C12
ASTM D1945 Helium Carrier Gas - Run Permanent Gas List including H2. Normaliaze for N2 result
ASTM D1945 Helium and Hydrogen Confirmation - Check to see if there is a singnificant H2 peak if so process and add to Helium template

Report Instructions EAS QC Criteria

Report Types: PDF Only

EDD Instructions **EDD Type:**



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\2510050A.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : T-314
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 03:06 PM
Instrument Method: AST1946H.MTH
Report Created on: 28 Mar 25 11:26 AM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\2510050A.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.989	19018	19856	MF	0.016	24.4100
2	1.012	802	733	FM	0.018	1.0289
3	1.160	18420	7229	FV	0.040	23.6429
4	1.841	19896	19888	PV	0.016	25.5373
5	2.010	19216	7333	VV	0.041	24.6648
6	2.255	336	162	VV	0.042	0.4308
7	2.887	222	170	VV	0.028	0.2853

Total area = 77910

User Modified

==========

Method Blank Data Packages

Samples are analyzed in a Daily Analytical Batch (DAB) on an instrument. The DAB identifier is on each analytial report in the field called QC Batch. There will be one Method Blank QC Batch report for each DAB in this SDG.

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METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

ASTM D 1945 GC/TCD

Analytical Method: D1945

SDG: LABQC
Laboratory Number: B03255

File Name: B03255MA
Description: METHOD BLANK
Can/Tube#:
QC_Batch: 032525-GCO

Date Sampled:
Time:
Date Analyzed: 03/25/25
Time: 11:24

CAS#	Compound	MDL %	RL %	Result %	MDL ppmv	RL ppmv	Result ppmV	Flag
7440-59-7	Helium	0.020	0.060	ND	200	600	ND	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

SDG:	**LABQC**			Method:	**D1945**
Lab Id:	**B03255**			Cal Update:	**04/15/24**
File Name:	**B03255MA**			SF:	3
Description:	**METHOD BLANK**			Not Detected Flag:	ND
Date Sampled:	**NA**	Time:	**NA**	Matrix:	AA
Date Received:	**NA**	Time:	**NA**	Type:	TRG
Date Analyzed:	**03/25/25**	Time:	**11:24**	Instrument:	GCO
QC_Batch:	**032525-GCO**				
Can Number:	**NA**				
Can Factor:	**1.00**				
Volume:	**0.5**	Match Blank with LCS and LCD			
Type:	**MB**	**LB9**		ST63427	C12064A2

CAS#	Compound	Num	STD RT	STD % Conc.	Standard Area	Sample Area	Conc. %	Blank Flag
7440-59-7	Helium	01	0.80	**10.00**	**135938**	**0**	0.00	NA

Blank Flag: If the Daily Blank has a detect above the RL place a B in the Blank Flag Field

For Data Package Print: Report, Quant, Calc,

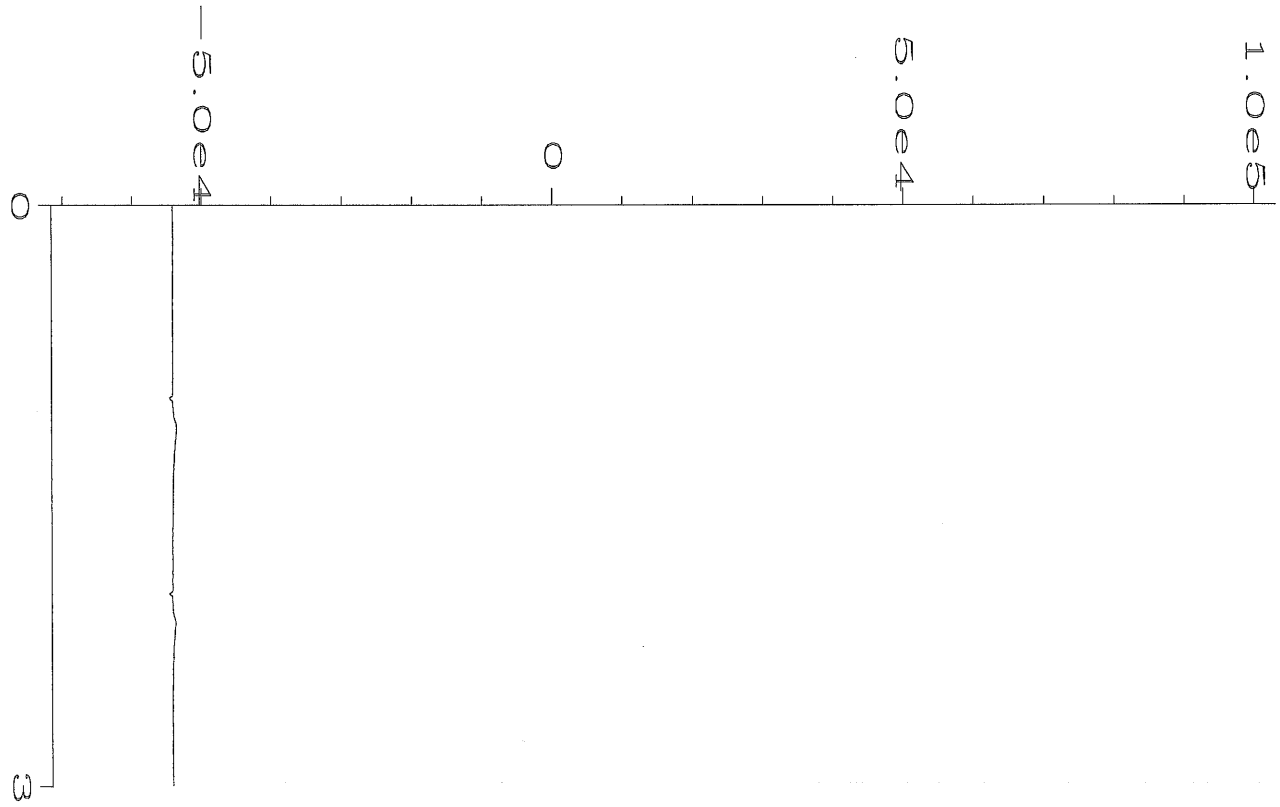
CALCULATIONS

ASTM D 1945 GC/TCD

SDG: LABQC
Laboratory Number: B03255

File Name:	B03255MA		Detect Flag:	ND	
QCBatch	032525-GCO		Report Normalized:	No	
Can Factor	1.00		Decimal Places:	3	
Air Volume:	0.5	ml	Temp	25	C
Base Volume	0.5	ml	Atm P	760	torr
Dilution Factor	1.00		Gas Constant	24.4	
Gas Constant:	24.4		RL Factor	3	

Compound	MW	Con Cal Calc Result %	Fixed Result PERCENT	Fixed ResultV PPMV	Fixed ResultQ % Norm	Fixed ResultG %	MDL ppmv	MDL %	Calc Fixed MDL %	Fixed RL %	Fixed MDL ppmv	Fixed RL ppmv	Lab Qual	EPA Qual	Det Qual	Blank Flag	Rpt
Helium	4.0	0.000	ND	ND	0		200	0.020	0.020	0.060	200	600	U		ND		Y



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\B03255MA.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : METHOD BLANK
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 11:24 AM
Instrument Method: AST1946H.MTH
Report Created on: 26 Mar 25 02:05 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\B03255MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %

No results to report

==========

LCS/LCD Data Packages

Samples are analyzed in a Daily Analytical Batch (DAB) on an instrument.
The DAB identifier is on each analytial report in the field called QC Batch.
There will be one LCS/LCD report for each QC Batch (DAB) in this SDG.

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QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Laboratory Control Duplicate

ASTM D 1945 GC/TCD
Analytical Method: **D1945**

Date: 03/25/25
QC_Batch: 03255-GCO

CAS#	Compound	LCS Recovery %	Flag	LCD Recovery %	Flag	Spike Limit LCL %	Spike Limit UCL %	Duplicate Duplicate %	Duplicate Limit %	Flag
7440-59-7	Helium	104		100		70	130	4	25	

QUANTITATION REPORT

ASTM D 1945 GC/TCD

	LCS		LCD			
File Name:	**C03255MB**		**C03255MB**		Method:	**D1945**
SDG:	**LABQC**		**LABQC**			
Lab Id:	**C03255MB**		**C03255MB**			D1945
Description:	**ST63404**		**ST63404**			D1946
Time:	**14:00**		**14:00**			3C
Date Analyzed:	**03/25/25**				DAB	0325
QCBatch	**03255-GCO**				DAB.FIX	03255
SF:	**2**					
Not Detected Fla	**ND**					
Matrix	**AA**					
Type	**TRG**	CS				
Instrument	**GCO**					

CAS#	Compound	Num	STD MIX	Column	STD RT	STD Conc.	Standard Area	1 MB LCS Area	2 MB LCD Area	Conc. %
7440-59-7	Helium	01	ST63402	MS	0.80	10.00	**135938**	139498	133515	

CALCULATIONS

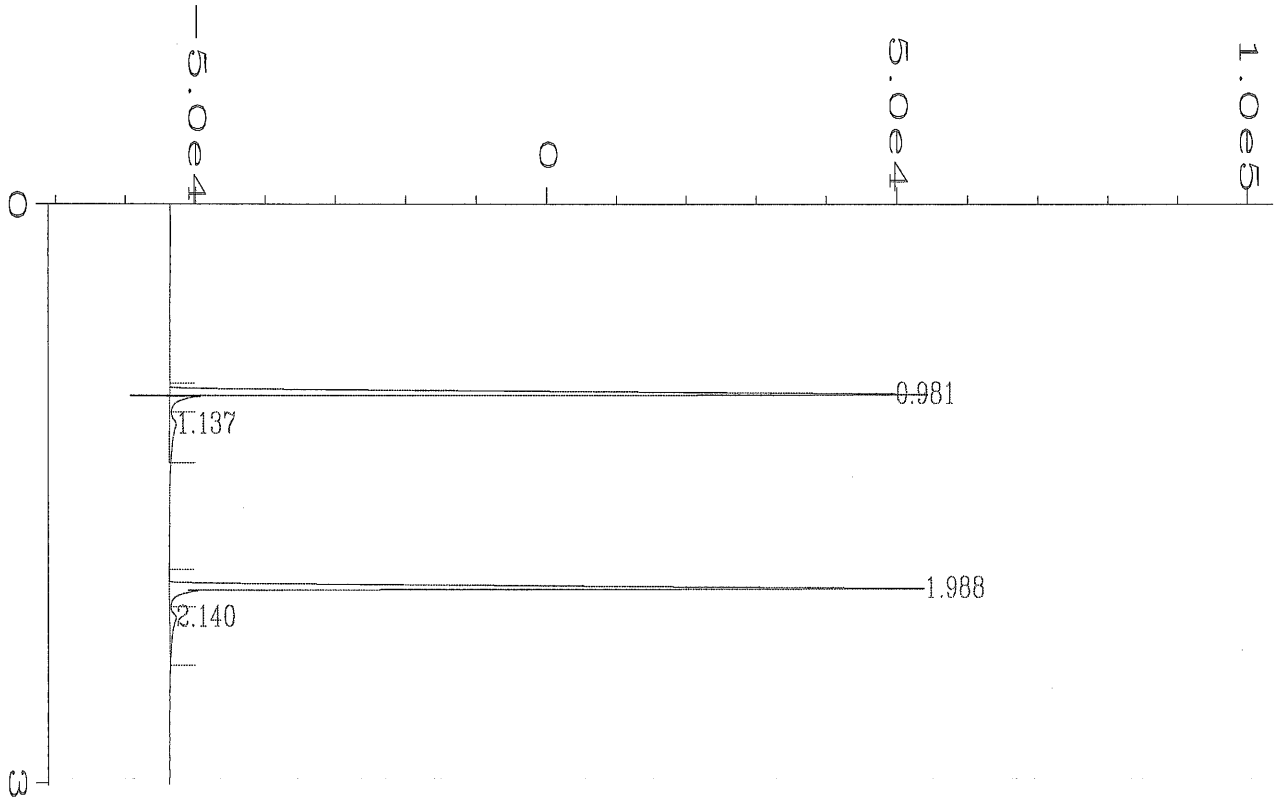
ASTM D 1945 GC/TCD

SDG: **LABQC**
Laboratory Number: **C03255MB**

File Name:	C03255MB			
QCBatch	03255-GCO			
Can Factor	1.00			
Volume:	0.5			
Air Volume:	0.5		LCS	
Base Volume	0.5			
Dilution Factor	1.00	RL Factor	3	
Gas Constant:	24.4			
Decimal Places:	0	1		

Compound	ResultV %	Spike %	LCS %	LCS % Rec	LCL %	UCL %	FLAG	RPD %	RPD UCL	FLAG
Helium	10.26	9.82	10.26	104	70	130		4.4	25	

Compound	ResultV %	Spike %	LCS %	LCS % Rec	LCL %	UCL %	FLAG
Helium	9.82	9.82	9.82	100	70	130	



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\C03255MB.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : ST63429
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 10:52 AM
Instrument Method: AST1946H.MTH
Report Created on: 26 Mar 25 02:02 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\C03255MB.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.981	139498	106370	BV	0.022	48.5073
2	1.137	7984	962	VV	0.109	2.7763
3	1.988	133515	115155	PV	0.023	46.4267
4	2.140	6585	961	VV	0.090	2.2897

Total area = 287581

==========

CONTINUING CALIBRATION REPORT

SDG:	LABQC	
QC_Batch:	**032525-GCO**	
Sample Analysis Date:	03/25/25	
Initial Calibration Date:	4/15/2024	

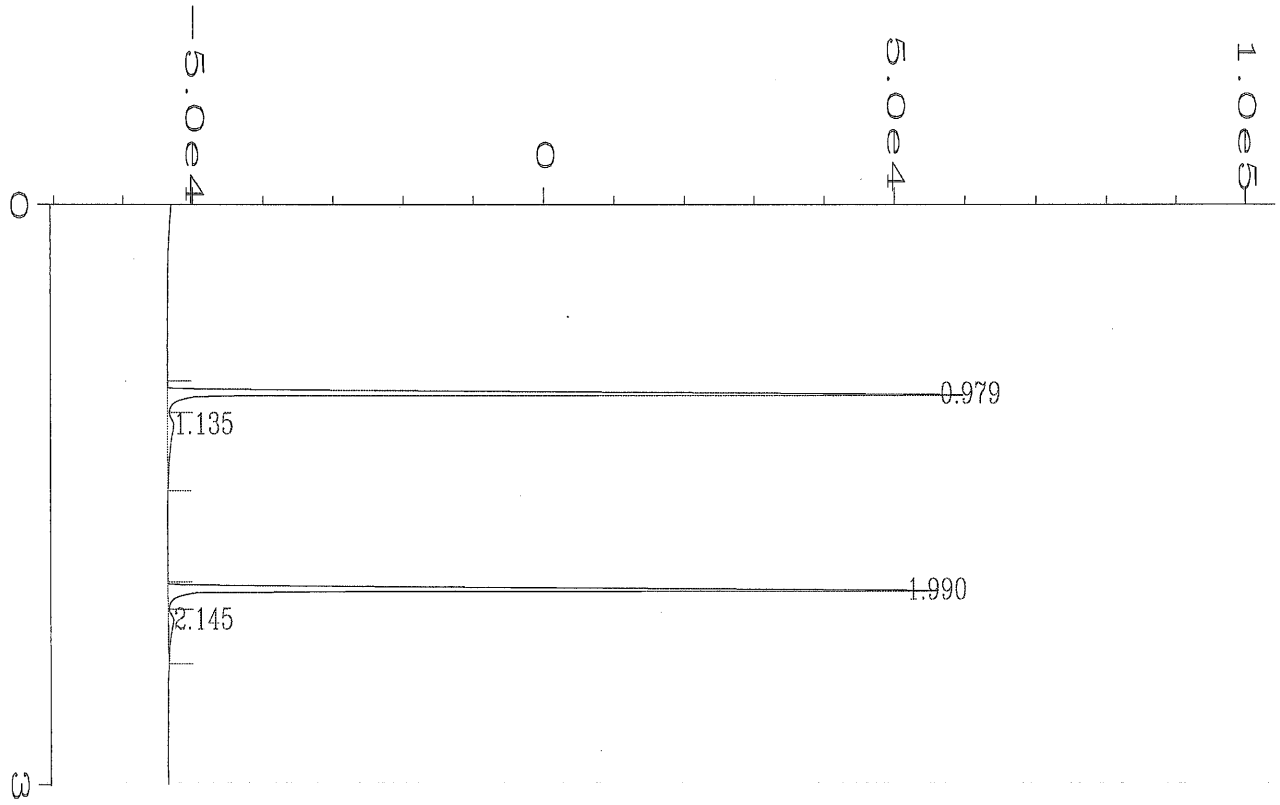
Sample Calculation:

1) CCRRF = (Astdni) / (Cstdni)

2) Avg RFn = Sum (Astdni) / (Cstdni)

Calibration Level Level 3 10.00

Compound	Area Astdi	Cal Level Cstdi %	CCRRF	RFn	%Dev	%Dev Limit	%Dev Flag
Helium	135938	10.0	13594	13549	0	20	IN



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Area Percent Report

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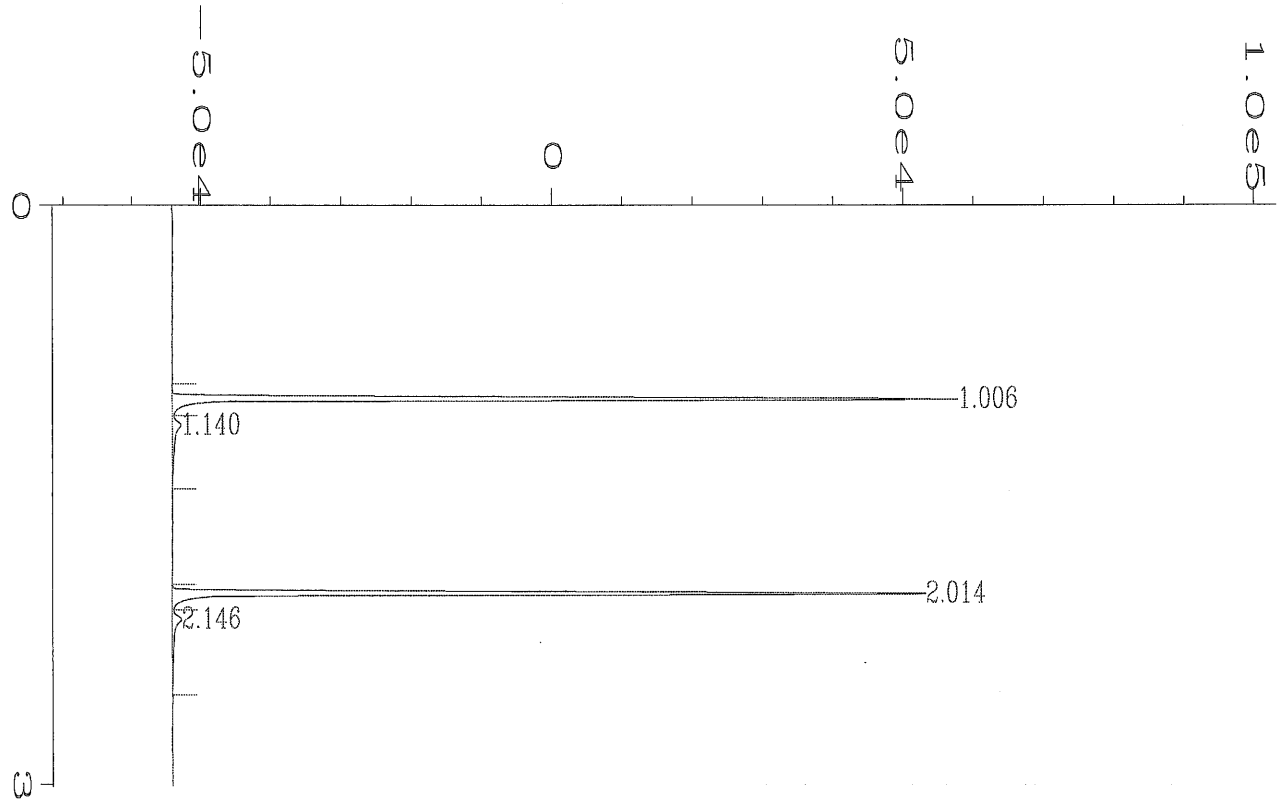
Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\C03255MA.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : ST63429
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 10:45 AM
Instrument Method: AST1946H.MTH
Report Created on: 26 Mar 25 02:02 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\C03255MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.979	142897	111781	BV	0.045	48.7095
2	1.135	8965	887	VV	0.125	3.0560
3	1.990	135938	107299	PV	0.021	46.3371
4	2.145	5566	785	VV	0.093	1.8974

Total area = 293367

==========



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Area Percent Report

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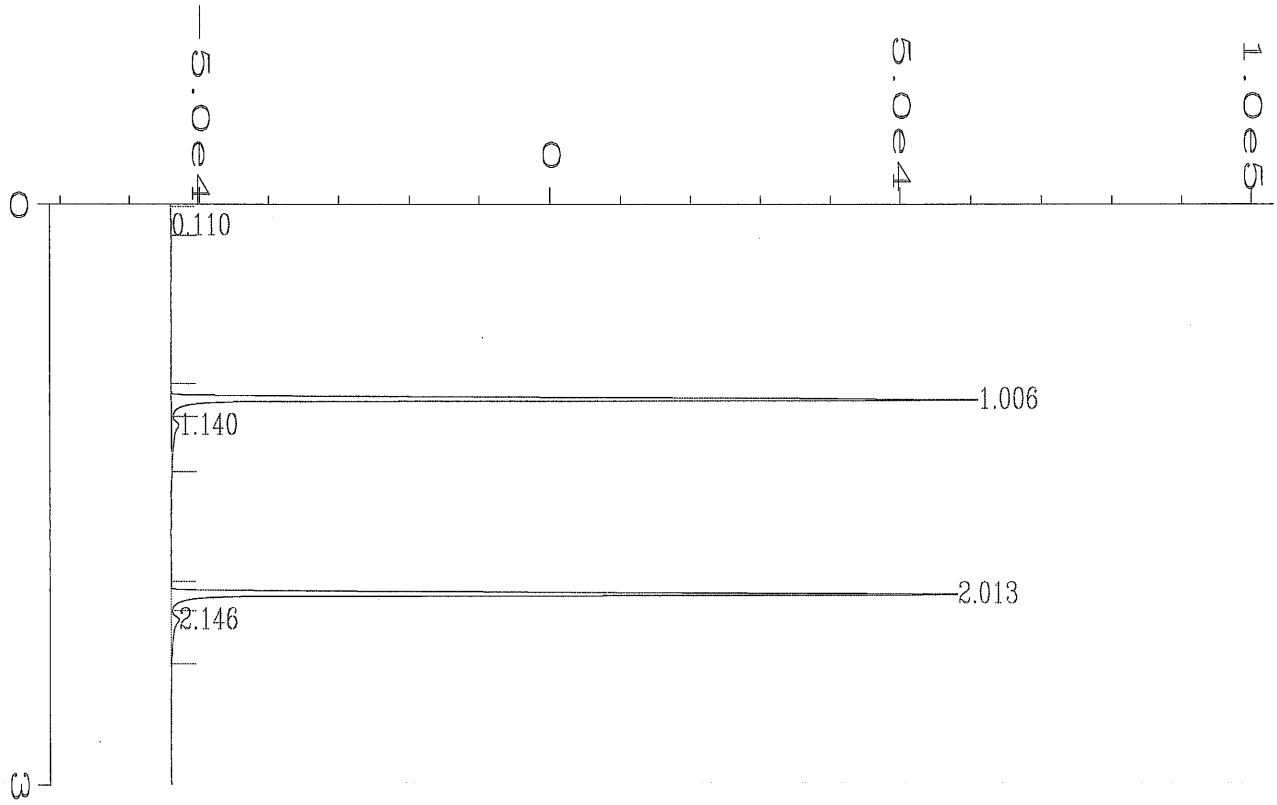
Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\C03255MG.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : ST63430
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 11:20 AM
Instrument Method: AST1946H.MTH
Report Created on: 26 Mar 25 02:03 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\C03255MG.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	1.006	130052	114095	PV	0.019	47.6685
2	1.140	7690	1235	VV	0.084	2.8188
3	2.014	127504	109390	PV	0.019	46.7346
4	2.146	7579	1353	VV	0.076	2.7781

Total area = 272826

==========



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\C03255MF.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : ST63430
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 11:15 AM
Instrument Method: AST1946H.MTH
Report Created on: 26 Mar 25 02:03 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\C03255MF.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.110	429	81	BV	0.068	0.1548
2	1.006	133276	117745	BV	0.038	48.1034
3	1.140	5897	1030	VV	0.076	2.1284
4	2.013	131535	113866	VV	0.019	47.4751
5	2.146	5924	1112	VV	0.073	2.1383

Total area = 277062

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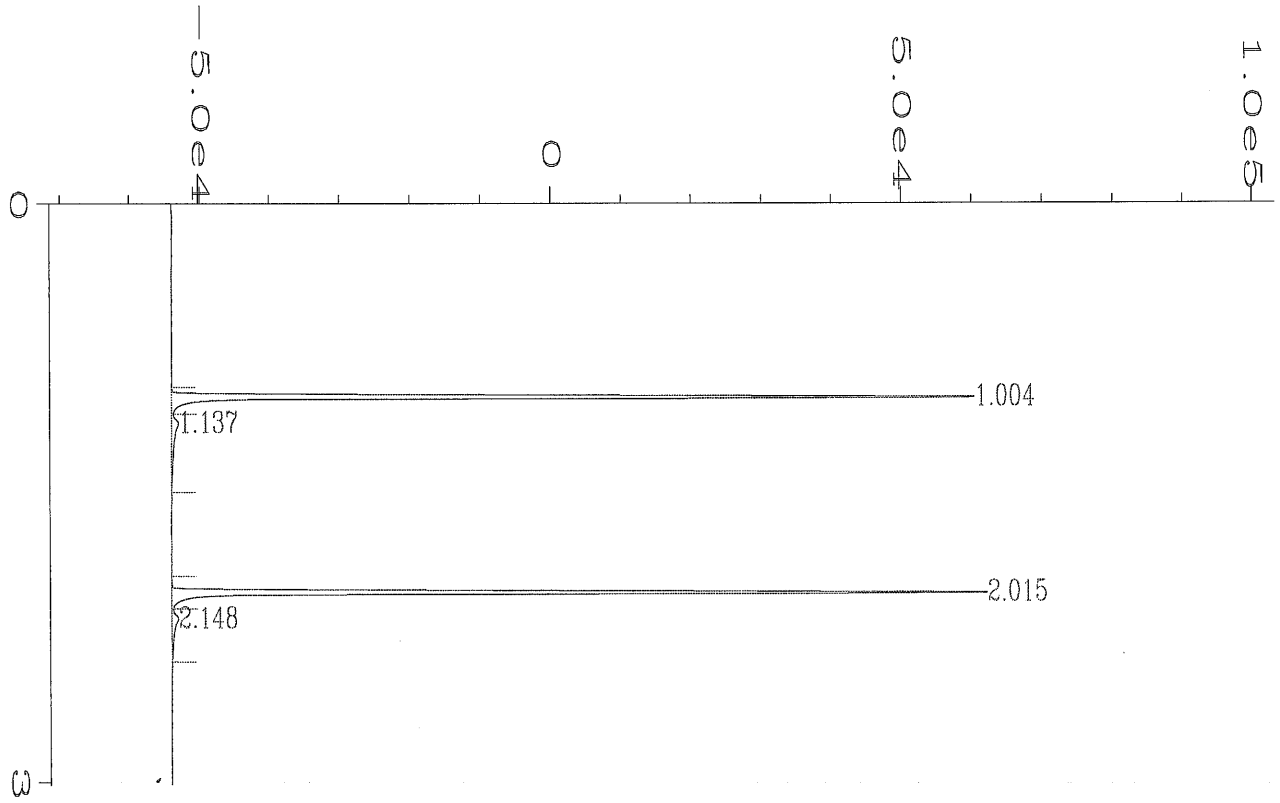

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Area Percent Report

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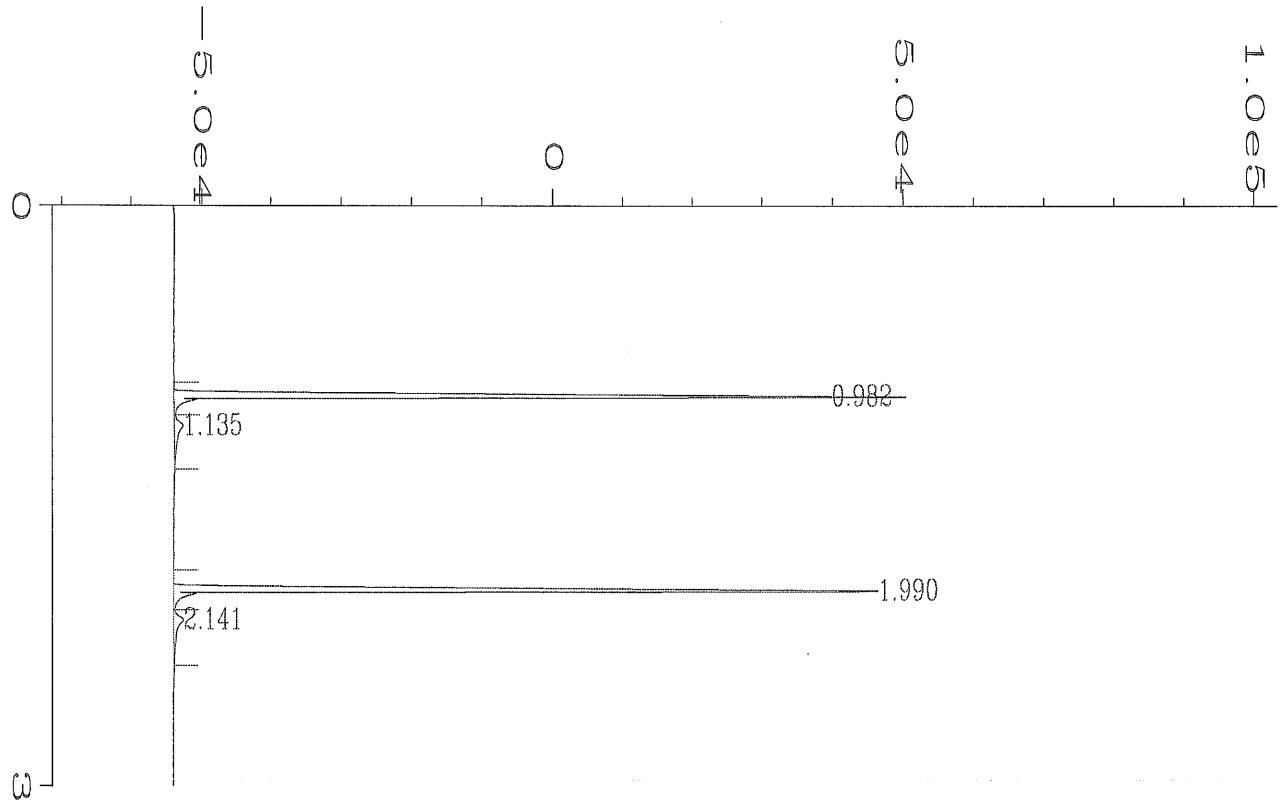
Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\C03255ME.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : ST63430
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 11:11 AM
Instrument Method: AST1946H.MTH
Report Created on: 26 Mar 25 02:02 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\C03255ME.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	1.004	136906	116577	PV	0.019	48.1009
2	1.137	7664	973	VV	0.102	2.6928
3	2.015	134801	119731	PV	0.019	47.3613
4	2.148	5251	931	VV	0.075	1.8450

Total area = 284622

==========



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Area Percent Report

==========

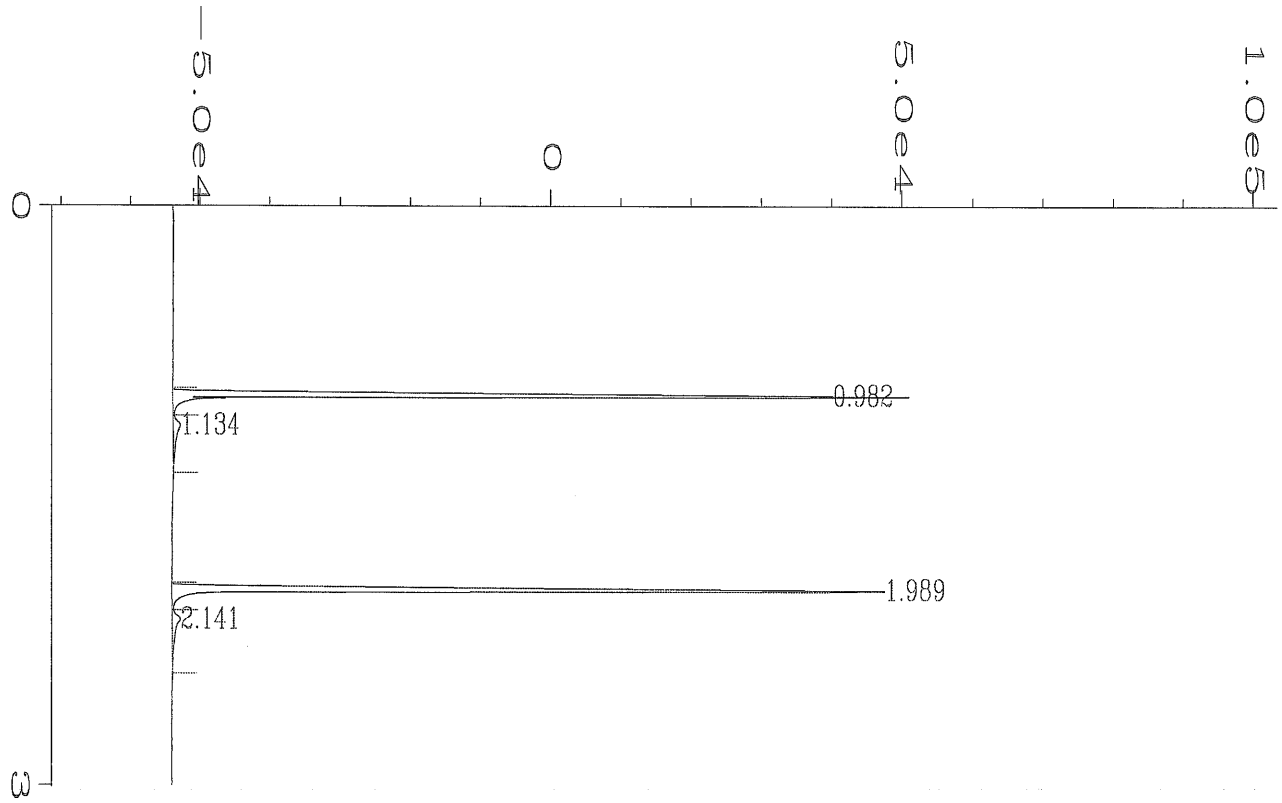
Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\C03255MD.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : ST63429
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 11:03 AM
Instrument Method: AST1946H.MTH
Report Created on: 26 Mar 25 02:03 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\C03255MD.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.982	130341	110894	PV	0.023	47.8057
2	1.135	6838	1247	VV	0.074	2.5080
3	1.990	128594	102063	BV	0.024	47.1650
4	2.141	6874	1405	VV	0.067	2.5213

Total area = 272647

==========



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Area Percent Report

==========

Data File Name : C:\GCCHEM\1\DATA\GCO\03255GCO\C03255MC.D
Operator : DA
Page Number : 1
Instrument : GCL
Vial Number :
Sample Name : ST63429
Injection Number :
Run Time Bar Code:
Sequence Line :
Acquired on : 25 Mar 25 10:59 AM
Instrument Method: AST1946H.MTH
Report Created on: 26 Mar 25 02:02 PM
Analysis Method : DEFAULT.MTH

Sig. 1 in C:\GCCHEM\1\DATA\GCO\03255GCO\C03255MC.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.982	128605	107857	BV	0.022	47.1568
2	1.134	6480	1030	VV	0.082	2.3760
3	1.989	130665	103398	PV	0.042	47.9120
4	2.141	6968	1175	VV	0.079	2.5552

Total area = 272719

==========

Initial Calibration Data Packages

Samples were analyzed using the methods listed in Section 3. For each of the methods there is an Initial Calibration Curve that meets the criteria defined in Section 2 on Quality Control for the modified method.

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Response Factors
Instrument Quant Report
Chromatogram

INITIAL CALIBRATION REPORT: Response Factors

Curve Date: 04/15/24
Analysis Date: 03/25/25

Sample Calculation:

$$1)\ \text{Avg RFn} = \text{Sum} \left| \frac{(\text{Astdni})}{(\text{Cstdni})} \right|_i$$

Response Factors

Compound	RF1	RF2	RF3	AvgRFn	%RSD
Helium	14249	14144	12255	13549	8.28

INITIAL CALIBRATION REPORT

ASTM D 1945 GC/TCD

Curve Date: 04/15/24
Analysis Date: 03/25/25

	Calibration Amount CA, %						Calibration Response, Area					
	Level 1	Level 2	Level 3	Level 4	Level 5	Level6	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
SYRINGE %	5.0%	10%	20%				C004154A	C004154C	C004154E			
Compound							ST63401	ST63402	ST63403			
Helium	5.00	10.00	20.00				71247	141438	245094			

Daily Analytical Batch

DAB: 041524-GCO

GCO

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit:	Proc:
041524-GCO	01	GCO	STD			C04154A		ST63401	5% HELIUM	0.5	DA		AST1946H	ALL DBL INJE		
041524-GCO	02	GCO	STD			C04154B		ST63402	10% HELIUM	0.5	DA		AST1946H			
041524-GCO	03	GCO	STD			C04154C		ST63402	10% HELIUM	0.5	DA		AST1946H			
041524-GCO	04	GCO	STD			C04154D		ST63402	10% HELIUM	0.5	DA		AST1946H			
041524-GCO	05	GCO	STD			C04154E		ST63403	20% HELIUM	0.5	DA		AST1946H			
041524-GCO	06	GCO	STD			C04154F		ST63404	10% HELIUM LC	0.5	DA		AST1946H			
041524-GCO	07	GCO	STD			C04154G		ST63404	10% HELIUM LC	0.5	DA		AST1946H			
041524-GCO	08	GCO	BLK			B04154A	307	METHOD BLANK		0.5	DA		AST1946H			
041524-GCO	09	GCO	SA	224109	01	2410901A	688	T-101	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	10	GCO	SA	224109	02	2410902A	695	T-102	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	11	GCO	SA	224109	03	2410903A	644	T-103	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	12	GCO	SA	224109	04	2410904A	634	T-104	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	13	GCO	SA	224109	05	2410905A	182	T-105	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	14	GCO	SA	224109	06	2410906A	529	T-106	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	15	GCO	SA	224109	07	2410907A	690	T-107	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	16	GCO	SA	224109	08	2410908A	526	T-108	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	17	GCO	SA	224109	09	2410909A	737	T-109	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	18	GCO	SA	224109	10	2410910A	659	T-110	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	19	GCO	SA	224109	11	2410911A	710	T-111	SCHMIDT	0.5	DA		AST1946H			

REVIEWED

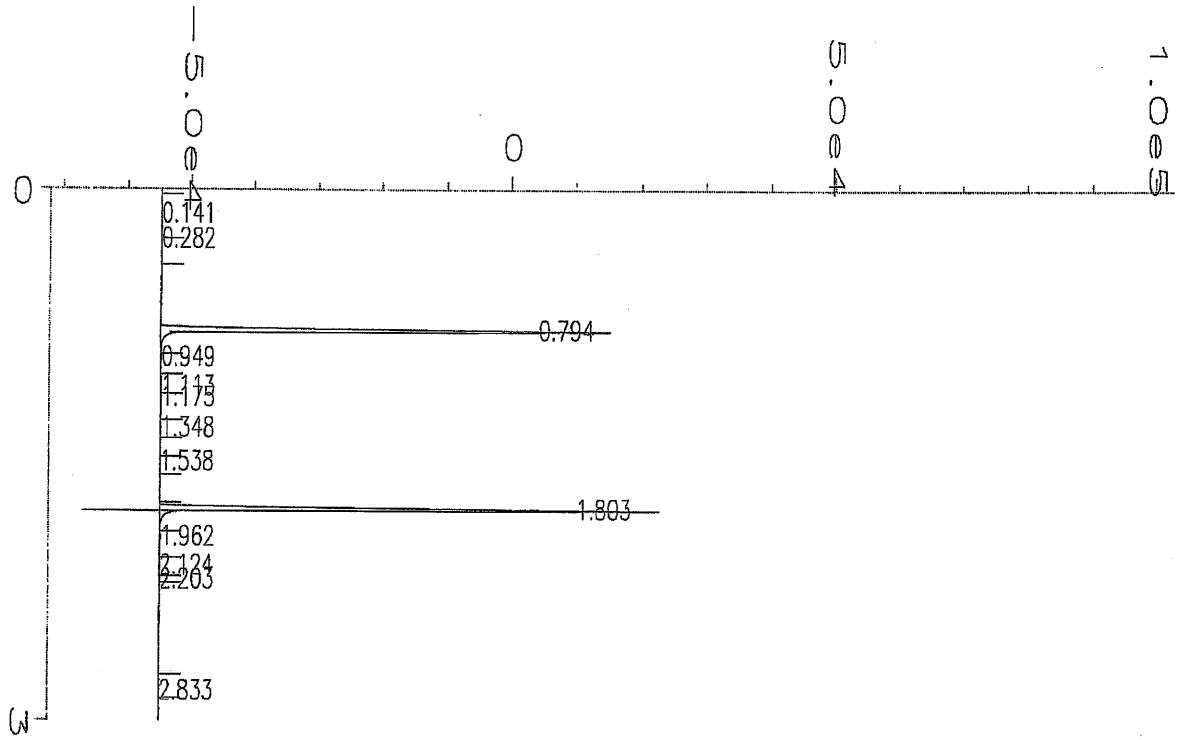
Daily Analytical Batch

DAB: 041524-GCO

GCO

DAB	RUN	INST:	TYPE	SDG	ID	File ID	Can	Description	Client	Vol	Tech	Qual	Method	Comments	Qedit:	Proc:
041524-GCO	20	GCO	SA	224109	12	2410912A	725	T-112	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	21	GCO	SA	224109	13	2410913A	714	T-113	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	22	GCO	SA	224109	14	2410914A	655	T-114	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	23	GCO	SA	224109	15	2410915A	667	T-115	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	24	GCO	SA	224109	16	2410916A	701	T-116	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	25	GCO	SA	224109	17	2410917A	679	T-117	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	26	GCO	SA	224109	18	2410918A	779	T-118	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	27	GCO	SA	224109	19	2410919A	712	T-201	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	28	GCO	SA	224109	20	2410920A	753	T-202	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	29	GCO	SA	224109	21	2410921A	842	T-203	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	30	GCO	SA	224109	22	2410922A	916	T-204	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	31	GCO	SA	224109	23	2410923A	709	T-205	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	32	GCO	SA	224109	24	2410924A	759	T-206	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	33	GCO	SA	224109	25	2410925A	735	T-207	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	34	GCO	SA	224109	26	2410926A	892	T-208	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	35	GCO	SA	224109	27	2410927A	643	T-209	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	36	GCO	SA	224109	28	2410928A	699	T-210	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	37	GCO	SA	224109	29	2410929A	546	T-211	SCHMIDT	0.5	DA		AST1946H			
041524-GCO	38	GCO	SA	224109	30	2410930A	664	T-212	SCHMIDT	0.5	DA		AST1946H			

REVIEWED



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Area Percent Report

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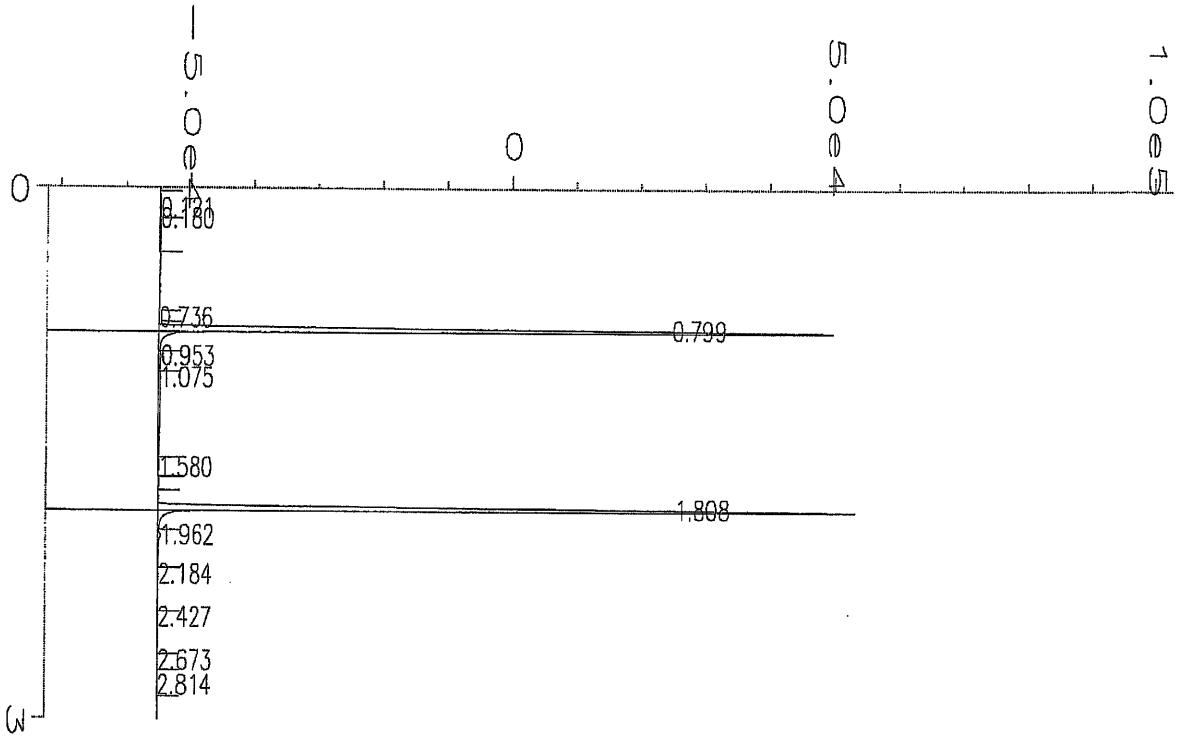
Data File Name : C:\GCCHEM\1\DATA\04154GCO\C04154MA.D
Operator : DA
Instrument : GCL
Sample Name : ST63401
Run Time Bar Code:
Acquired on : 15 Apr 24 01:14 PM
Report Created on: 15 Apr 24 01:17 PM
Sample Info : 5% HELIUM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : AST1946H.MTH

Sig. 1 in C:\GCCHEM\1\DATA\04154GCO\C04154MA.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.141	1375	152	BV	0.120	0.9198
2	0.282	737	126	VV	0.098	0.4934
3	0.794	71266	67284	PV	0.041	47.6856
4	0.949	634	191	VV	0.051	0.4245
5	1.113	1001	210	VV	0.067	0.6695
6	1.175	1166	190	VV	0.102	0.7800
7	1.348	631	148	VV	0.071	0.4220
8	1.538	273	87	VV	0.043	0.1825
9	1.803	71247	63999	PV	0.023	47.6733
10	1.962	771	257	VV	0.050	0.5161
11	2.124	185	55	PV	0.052	0.1239
12	2.203	41	41	PV	0.017	0.0272
13	2.833	123	49	PV	0.062	0.0824



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Area Percent Report

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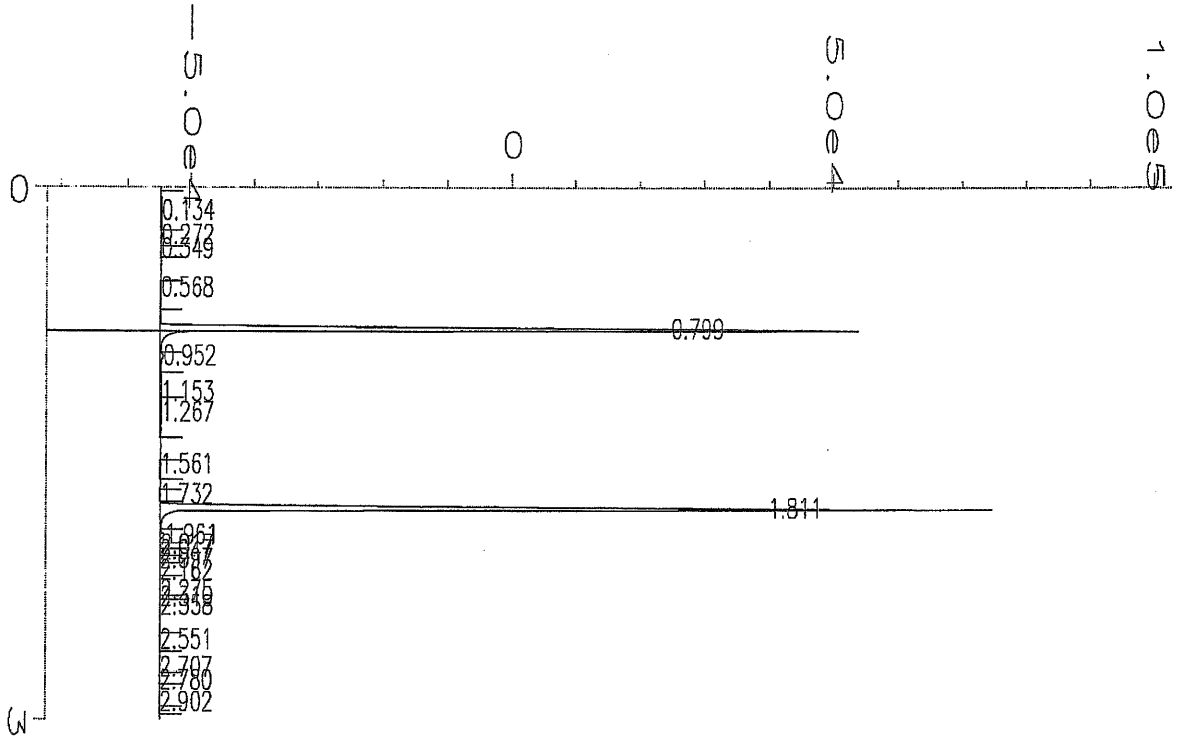
Data File Name : C:\GCCHEM\1\DATA\04154GCO\C04154MB.D
Operator : DA
Instrument : GCL
Sample Name : ST63402
Run Time Bar Code:
Acquired on : 15 Apr 24 01:22 PM
Report Created on: 15 Apr 24 01:25 PM
Sample Info : 10% HELIUM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : AST1946H.MTH

Sig. 1 in C:\GCCHEM\1\DATA\04154GCO\C04154MB.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.121	980	172	BV	0.080	0.3763
2	0.180	1575	156	VV	0.168	0.6050
3	0.736	245	110	PV	0.037	0.0942
4	0.799	121768	108346	VV	0.019	46.7671
5	0.953	1629	446	VV	0.060	0.6256
6	1.075	5968	283	VV	0.298	2.2919
7	1.580	797	157	VV	0.069	0.3060
8	1.808	122271	90899	PV	0.062	46.9603
9	1.962	2281	506	VV	0.075	0.8760
10	2.184	1296	163	VV	0.115	0.4978
11	2.427	984	121	VV	0.115	0.3779
12	2.673	244	99	PV	0.045	0.0937
13	2.814	334	60	VV	0.090	0.1282



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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\04154GCO\C04154MC.D
Operator : DA
Instrument : GCL
Sample Name : ST63402
Run Time Bar Code:
Acquired on : 15 Apr 24 01:27 PM
Report Created on: 15 Apr 24 01:30 PM
Sample Info : 10% HELIUM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : AST1946H.MTH

Sig. 1 in C:\GCCHEM\1\DATA\04154GCO\C04154MC.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.134	1775	183	BV	0.120	0.6386
2	0.272	774	192	VV	0.058	0.2785
3	0.349	440	135	VV	0.054	0.1584
4	0.568	1064	179	VV	0.079	0.3829
5	0.799	122171	107702	PV	0.049	43.9545
6	0.952	1737	585	VV	0.053	0.6248
7	1.153	1911	280	VV	0.093	0.6876
8	1.267	2576	242	VV	0.138	0.9268
9	1.561	935	183	VV	0.069	0.3364
10	1.732	312	107	VV	0.048	0.1122
11	1.811	141438	99683	HBAS	0.024	50.8863
12	1.961	973	663	BV T	0.024	0.3500
13	2.017	41	70	PV T	0.010	0.0146

14	2.047	51	18	VV T	0.042	0.0184
15	2.097	33	21	PV T	0.026	0.0117
16	2.162	165	58	PV T	0.043	0.0594
17	2.275	306	73	VV T	0.070	0.1100
18	2.310	66	62	VV T	0.018	0.0237
19	2.358	443	78	VV T	0.095	0.1595
20	2.551	195	50	PV T	0.073	0.0701
21	2.707	248	63	VV T	0.066	0.0893
22	2.780	59	26	PV T	0.037	0.0214
23	2.902	236	51	VV T	0.077	0.0849

Total area = 277948

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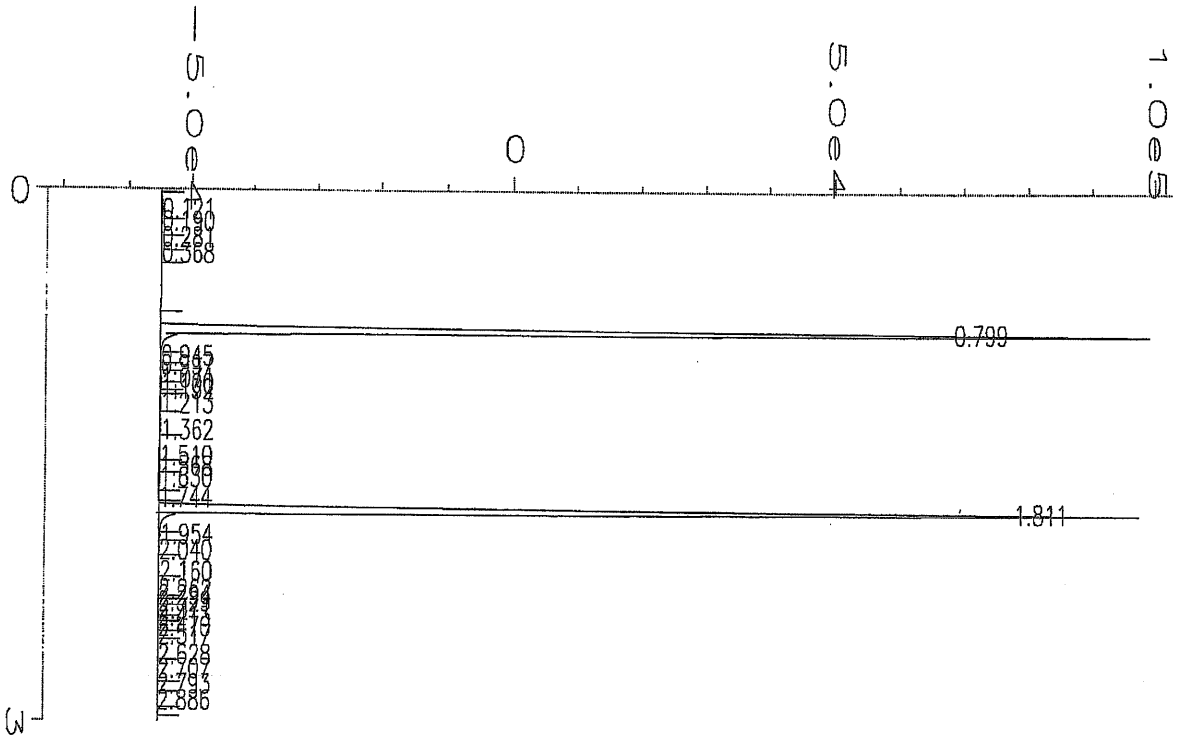

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Area Percent Report

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Data File Name : C:\GCCHEM\1\DATA\04154GCO\C04154ME.D
Operator : DA
Instrument : GCL
Sample Name : ST63403
Run Time Bar Code:
Acquired on : 15 Apr 24 01:50 PM
Report Created on: 15 Apr 24 01:53 PM
Sample Info : 20% HELIUM

Page Number : 1
Vial Number :
Injection Number :
Sequence Line :
Instrument Method: AST1946H.MTH
Analysis Method : AST1946H.MTH

Sig. 1 in C:\GCCHEM\1\DATA\04154GCO\C04154ME.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	0.121	1115	187	BV	0.097	0.2280
2	0.190	682	162	VV	0.070	0.1395
3	0.281	537	116	VV	0.063	0.1097
4	0.368	422	136	VV	0.052	0.0864
5	0.799	231910	151326	HH S	0.053	47.4120
6	0.945	149	75	BV T	0.033	0.0304
7	0.997	52	24	PV T	0.032	0.0106
8	1.071	353	141	VV T	0.042	0.0721
9	1.100	353	153	VV T	0.038	0.0721
10	1.132	184	141	VV T	0.022	0.0376
11	1.213	875	168	VV T	0.072	0.1788
12	1.362	1298	206	VV T	0.105	0.2654
13	1.510	1335	113	VV T	0.146	0.2730

14	1.568	741	171	VV T	0.072	0.1515
15	1.630	1092	238	VV T	0.077	0.2232
16	1.744	156	57	PV T	0.046	0.0320
17	1.811	245094	137158	HBAS	0.030	50.1073
18	1.954	167	130	BV T	0.021	0.0342
19	2.040	187	42	PV T	0.073	0.0381
20	2.160	341	153	PV T	0.037	0.0696
21	2.262	381	99	VV T	0.052	0.0779
22	2.294	49	48	VV T	0.017	0.0100
23	2.329	47	58	VV T	0.014	0.0097
24	2.371	205	84	VV T	0.037	0.0419
25	2.413	104	69	VV T	0.024	0.0212
26	2.470	147	71	VV T	0.035	0.0301
27	2.517	147	73	VV T	0.034	0.0300
28	2.628	469	98	VV T	0.080	0.0960
29	2.707	301	62	PV T	0.078	0.0616
30	2.793	127	69	VV T	0.033	0.0260
31	2.886	118	56	PV T	0.034	0.0242

Total area = 489138

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Section 5 Standard Calibration Certificates

This section contains the Standard Calibration Certificates for the Standards and Internal Standards.

Section Contents

Standard Calibration Certificates

5

ST63400 4/8/24

Permanent Gas Standard.
Scotty Mini-Mix Air gas

ST63401 5% He Helium 4/15/24
1:20 syringe dilution ISP He : ISP N2

ST63402 10% Helium 4/15/24
1:10 Syringe dilution ISP He : ISP N2

ST63403 20% Helium 4/16/24
1:5 Syringe dilution ISP He : ISP N2

ST63404 10% Helium LCS/LCD 4/15/24
1:10 Syringe dilution ISP He : ISP N2

ST63405 5% Hydrogen 4/16/24
1:20 syringe dilution UHP H2 : ISP N2

ST63406 10% Hydrogen UHP 4/16/24
1:10 syringe dilution ~~ISP~~ UHP H2 : ISP N2

ST63407 20% Hydrogen 4/16/24
1:20 syringe dilution UHP H2 : ISP N2

Atmospheric Analysis & Consulting, Inc.

CLIENT : Environmental Management Consulting
PROJECT NAME : SCS Chiquita Canyon Landfill
AAC PROJECT NO. : 250692
REPORT DATE : 03/31/2025

On March 19, 2025, Atmospheric Analysis & Consulting, Inc. received thirty-six (36) Tedlar Bags for Total Reduced Sulfur analysis by SCAQMD 307.91. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

Client ID	Lab No.	Client ID	Lab No.	Client ID	Lab No.
S-101a	250692-72901	S-107a	250692-72913	S-113a	250692-72925
S-101b	250692-72902	S-107b	250692-72914	S-113b	250692-72926
S-102a	250692-72903	S-108a	250692-72915	S-114a	250692-72927
S-102b	250692-72904	S-108b	250692-72916	S-114b	250692-72928
S-103a	250692-72905	S-109a	250692-72917	S-115a	250692-72929
S-103b	250692-72906	S-109b	250692-72918	S-115b	250692-72930
S-104a	250692-72907	S-110a	250692-72919	S-116a	250692-72931
S-104b	250692-72908	S-110b	250692-72920	S-116b	250692-72932
S-105a	250692-72909	S-111a	250692-72921	S-117a	250692-72933
S-105b	250692-72910	S-111b	250692-72922	S-117b	250692-72934
S-106a	250692-72911	S-112a	250692-72923	S-118a	250692-72935
S-106b	250692-72912	S-112b	250692-72924	S-118b	250692-72936

This analysis is performed in accordance with AAC's Quality Manual. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. Per client request, samples "S-1xx-b" were held as backup and therefore not analyzed. No problems were encountered during receiving, preparation, and/or analysis of these samples. The Technical Director or his/her designee, as verified by the following signature, has authorized release of the data.

If you have any questions or require further explanation of data results, please contact the undersigned.

Sucha Parmar, Ph.D.
Technical Director

This report consists of 9 pages.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : Environmental Management Consulting
PROJECT NO. : 250692
MATRIX : AIR
UNITS : ppmv

SAMPLING DATE : 03/19/2025
RECEIVING DATE : 03/19/2025
ANALYSIS DATE : 03/19/2025
REPORT DATE : 03/31/2025

Total Reduced Sulfur Compounds by SCAQMD 307.91

Client ID	S-101a	S-102a	S-103a	S-104a	S-105a	S-106a
AAC ID	250692-72901	250692-72903	250692-72905	250692-72907	250692-72909	250692-72911
Analyte	Result	Result	Result	Result	Result	Result
Hydrogen Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
COS / SO2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Methyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethyl Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isopropyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
tert-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
n-Propyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Methylethylsulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
sec-Butyl Mercaptan / Thiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
iso-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
n-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethyl Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylthiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3-Methylthiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tetrahydrothiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bromothiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thiophenol	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Unidentified Sulfur	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Reduced Sulfurs	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

All unidentified compound's concentrations expressed in terms of H_2S
Sample Reporting Limit (SRL) is equal to Reporting Limit x Analysis Dil. Fac.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : Environmental Management Consulting
PROJECT NO. : 250692
MATRIX : AIR
UNITS : ppmv

SAMPLING DATE : 03/19/2025
RECEIVING DATE : 03/19/2025
ANALYSIS DATE : 03/20/2025
REPORT DATE : 03/31/2025

Total Reduced Sulfur Compounds by SCAQMD 307.91

Client ID	S-107a	S-108a	S-109a	S-110a	S-111a	S-112a
AAC ID	250692-72913	250692-72915	250692-72917	250692-72919	250692-72921	250692-72923
Analyte	Result	Result	Result	Result	Result	Result
Hydrogen Sulfide	< 0.005	**0.097**	< 0.005	**0.008**	< 0.005	< 0.005
COS / SO2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Methyl Mercaptan	< 0.005	**0.042**	< 0.005	< 0.005	< 0.005	< 0.005
Ethyl Mercaptan	< 0.005	**0.055**	< 0.005	< 0.005	< 0.005	< 0.005
Dimethyl Sulfide	< 0.005	**18.5**	**0.037**	**0.016**	**0.009**	**0.009**
Carbon Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isopropyl Mercaptan	< 0.005	**1.46**	< 0.005	< 0.005	< 0.005	< 0.005
tert-Butyl Mercaptan	< 0.005	**0.054**	< 0.005	< 0.005	< 0.005	< 0.005
n-Propyl Mercaptan	< 0.005	**0.025**	< 0.005	< 0.005	< 0.005	< 0.005
Methylethylsulfide	< 0.005	**0.278**	< 0.005	< 0.005	< 0.005	< 0.005
sec-Butyl Mercaptan / Thiophene	< 0.005	**3.52**	**0.011**	**0.008**	< 0.005	< 0.005
iso-Butyl Mercaptan	< 0.005	**0.646**	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
n-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethyl Disulfide	< 0.005	**0.474**	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylthiophene	< 0.005	< 0.005	**0.005**	< 0.005	< 0.005	< 0.005
3-Methylthiophene	< 0.005	**0.730**	< 0.005	< 0.005	< 0.005	< 0.005
Tetrahydrothiophene	< 0.005	**0.197**	< 0.005	< 0.005	< 0.005	< 0.005
Bromothiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thiophenol	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl Disulfide	< 0.005	**0.007**	< 0.005	< 0.005	< 0.005	< 0.005
Total Unidentified Sulfur	< 0.005	**1.72**	**0.005**	< 0.005	**0.020**	**0.005**
Total Reduced Sulfurs	< 0.005	**27.8**	**0.058**	**0.032**	**0.030**	**0.014**

All unidentified compound's concentrations expressed in terms of H_2S
Sample Reporting Limit (SRL) is equal to Reporting Limit x Analysis Dil. Fac.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : Environmental Management Consulting
PROJECT NO. : 250692
MATRIX : AIR
UNITS : ppmv

SAMPLING DATE : 03/19/2025
RECEIVING DATE : 03/19/2025
ANALYSIS DATE : 03/20/2025
REPORT DATE : 03/31/2025

Total Reduced Sulfur Compounds by SCAQMD 307.91

Client ID	S-113a	S-114a	S-115a	S-116a	S-117a	S-118a
AAC ID	250692-72925	250692-72927	250692-72929	250692-72931	250692-72933	250692-72935
Analyte	Result	Result	Result	Result	Result	Result
Hydrogen Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
COS / SO2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Methyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethyl Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isopropyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
tert-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
n-Propyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Methylethylsulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
sec-Butyl Mercaptan / Thiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
iso-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
n-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethyl Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylthiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3-Methylthiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tetrahydrothiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bromothiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thiophenol	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Unidentified Sulfur	**0.008**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Reduced Sulfurs	**0.008**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

All unidentified compound's concentrations expressed in terms of H_2S
Sample Reporting Limit (SRL) is equal to Reporting Limit x Analysis Dil. Fac.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc

Quality Control/Quality Assurance Report
SCAQMD 307.91

Date Analyzed: 3/19/2025
Analyst: NR
Units: ppbV

Instrument ID : SCD#10
Calb. Date: : 02/10/25

Opening Calibration Verification Standard

494.0 ppbV H2S (GC-091924-01)

H_2S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	20985	472	95.5	0.3
Duplicate	21094	474	96.0	0.3
Triplicate	21041	473	95.7	0.0

507.5 ppbV MeSH (GC-091924-01)

MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	19322	503	99.1	0.5
Duplicate	19316	503	99.1	0.5
Triplicate	19591	510	100.5	0.9

480.5 ppbV DMS (GC-091924-01)

DMS	Resp. (area)	Result	% Rec *	% RPD ****
Initial	21164	469	97.6	3.6
Duplicate	22008	487	101.5	0.3
Triplicate	22667	502	104.5	3.3

Method Blank

Analyte	Result
H_2S	<PQL
MeSH	<PQL
DMS	<PQL

Duplicate Analysis **Sample ID 250583-72416**

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H_2S	<PQL	<PQL	0.0	0.0
MeSH	<PQL	<PQL	0.0	0.0
DMS	<PQL	<PQL	0.0	0.0

Matrix Spike & Duplicate **Sample ID 250583-72416 x2**

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec.**	MSD % Rec **	% RPD ***
H_2S	<PQL	247.0	240.7	238.6	97.4	96.6	0.9
MeSH	<PQL	253.8	253.1	244.6	99.8	96.4	3.4
DMS	<PQL	240.3	250.1	241.2	104.1	100.4	3.6

Closing Calibration Verification Standard

Analyte	Std. Conc.	Result	% Rec **
H_2S	494.0	500.0	101.2
MeSH	507.5	553.1	109.0
DMS	480.5	524.8	109.2

** Must be 95-105%, ** Must be 90-110%, *** Must be < 10%, **** Must be < 5% RPD from Mean result.*

PQL = 50.0 ppbV

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc

Quality Control/Quality Assurance Report
SCAQMD 307.91

Date Analyzed: 3/19/2025
Analyst: NR
Units: ppmV

Instrument ID : SCD-BTU
Calb. Date: : 02/01/2025

Opening Calibration Verification Standard

0.494 ppmV H2S (GC-091924-01)

H_2S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	7447	0.473	95.7	4.2
Duplicate	7840	0.498	100.8	0.8
Triplicate	8042	0.511	103.4	3.4

0.508 ppmV MeSH (GC-091924-01)

MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	7070	0.484	95.4	3.1
Duplicate	7376	0.505	99.6	1.1
Triplicate	7438	0.509	100.4	2.0

0.481 ppmV DMS (GC-091924-01)

DMS	Resp. (area)	Result	% Rec *	% RPD ****
Initial	7614	0.463	96.4	4.9
Duplicate	8172	0.497	103.4	2.1
Triplicate	8221	0.500	104.1	2.7

Method Blank

Analyte	Result
H_2S	<PQL
MeSH	<PQL
DMS	<PQL

Duplicate Analysis **Sample ID . 250583-72416**

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H_2S	<PQL	<PQL	0.000	0.0
MeSH	<PQL	<PQL	0.000	0.0
DMS	<PQL	<PQL	0.000	0.0

Matrix Spike & Duplicate **Sample ID 250583-72416 x2**

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H_2S	<PQL	0.247	0.243	0.226	98.4	91.5	7.2
MeSH	<PQL	0.254	0.243	0.229	95.8	90.2	5.9
DMS	<PQL	0.240	0.248	0.230	103.2	95.7	7.5

Closing Calibration Verification Standard

Analyte	Std. Conc.	Result	% Rec **
H_2S	0.494	0.463	93.7
MeSH	0.508	0.494	97.3
DMS	0.481	0.514	107.0

** Must be 95-105%, ** Must be 90-110%, *** Must be < 10%, **** Must be < 5% RPD from Mean result.*
PQL = 0.05 ppmV

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report
SCAQMD 307.91

Date Analyzed: 3/20/2025
Analyst: NR
Units: ppbV

Instrument ID : SCD#10
Calb. Date: : 02/10/2025

Opening Calibration Verification Standard

494.0 ppbV H2S (GC-091924-01)

H_2S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	21049	473	95.7	1.1
Duplicate	21458	482	97.6	0.8
Triplicate	21362	480	97.2	0.3

507.5 ppbV MeSH (GC-091924-01)

MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	19293	502	98.9	1.9
Duplicate	19907	518	102.1	1.2
Triplicate	19821	516	101.7	0.7

480.5 ppbV DMS (GC-091924-01)

DMS	Resp. (area)	Result	% Rec *	% RPD ****
Initial	21505	476	99.1	2.3
Duplicate	21987	487	101.4	0.1
Triplicate	22563	500	104.0	2.5

Method Blank

Analyte	Result
H_2S	<PQL
MeSH	<PQL
DMS	<PQL

Duplicate Analysis **Sample ID 250692-72933**

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H_2S	<PQL	<PQL	0.0	0.0
MeSH	<PQL	<PQL	0.0	0.0
DMS	<PQL	<PQL	0.0	0.0

Matrix Spike & Duplicate **Sample ID 250692-72933 x2**

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H_2S	<PQL	247.0	234.8	238.5	95.0	96.6	1.6
MeSH	<PQL	253.8	245.5	267.7	96.7	105.5	8.6
DMS	<PQL	240.3	244.4	261.4	101.7	108.8	6.7

Closing Calibration Verification Standard

Analyte	Std. Conc.	Result	% Rec **
H_2S	494.0	454.8	92.1
MeSH	507.5	524.2	103.3
DMS	480.5	510.7	106.3

** Must be 95-105%, ** Must be 90-110%, *** Must be < 10%, **** Must be < 5% RPD from Mean result.*
PQL = 50.0 ppbV

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc

Quality Control/Quality Assurance Report
SCAQMD 307.91

Date Analyzed: 3/20/2025
Analyst: NR
Units: ppmV

Instrument ID : SCD-BTU
Calb. Date: : 02/01/2025

Opening Calibration Verification Standard

0.494 ppmV H2S (GC-091924-01)

H_2S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	7933	0.504	102.0	0.6
Duplicate	7559	0.480	97.2	4.1
Triplicate	8163	0.518	104.9	3.5

0.508 ppmV MeSH (GC-091924-01)

MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	7321	0.501	98.8	0.8
Duplicate	7202	0.493	97.2	2.4
Triplicate	7619	0.522	102.8	3.2

0.481 ppmV DMS (GC-091924-01)

DMS	Resp. (area)	Result	% Rec *	% RPD ****
Initial	8134	0.495	103.0	1.5
Duplicate	7643	0.465	96.7	4.7
Triplicate	8271	0.503	104.7	3.2

Method Blank

Analyte	Result
H_2S	<PQL
MeSH	<PQL
DMS	<PQL

Duplicate Analysis **Sample ID 250692-72935**

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H_2S	<PQL	<PQL	0.000	0.0
MeSH	<PQL	<PQL	0.000	0.0
DMS	<PQL	<PQL	0.000	0.0

Matrix Spike & Duplicate **Sample ID 250692-72935 x2**

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H_2S	<PQL	0.247	0.245	0.265	99.2	107.3	7.8
MeSH	<PQL	0.254	0.241	0.264	95.0	104.0	9.1
DMS	<PQL	0.240	0.262	0.264	109.1	109.9	0.8

Closing Calibration Verification Standard

Analyte	Std. Conc.	Result	% Rec **
H_2S	0.494	0.448	90.7
MeSH	0.508	0.508	100.1
DMS	0.481	0.527	109.7

** Must be 95-105%, ** Must be 90-110%, *** Must be < 10%, **** Must be < 5% RPD from Mean result.*
PQL = 0.05 ppmV

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

250692

CE Schmidt, PhD, Environmental Consultant
Chain of Custody Record

Sulfur D1

| | | |

Atmospheric Analysis & Consulting, Inc

CLIENT : Environmental Management Consulting
PROJECT NAME : SCS Chiquita Canyon Landfill
AAC PROJECT NO. : 250702
REPORT DATE : 04/01/2025

On March 20, 2025, Atmospheric Analysis & Consulting, Inc. received thirty-six (36) Tedlar Bags for Total Reduced Sulfur analysis by SCAQMD 307.91. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

Client ID	Lab No.	Client ID	Lab No.	Client ID	Lab No.
S-201a	250702-72966	S-207a	250702-72978	S-213a	250702-72990
S-201b	250702-72967	S-207b	250702-72979	S-213b	250702-72991
S-202a	250702-72968	S-208a	250702-72980	S-214a	250702-72992
S-202b	250702-72969	S-208b	250702-72981	S-214b	250702-72993
S-203a	250702-72970	S-209a	250702-72982	S-215a	250702-72994
S-203b	250702-72971	S-209b	250702-72983	S-215b	250702-72995
S-204a	250702-72972	S-210a	250702-72984	S-216a	250702-72996
S-204b	250702-72973	S-210b	250702-72985	S-216b	250702-72997
S-205a	250702-72974	S-211a	250702-72986	S-217a	250702-72998
S-205b	250702-72975	S-211b	250702-72987	S-217b	250702-72999
S-206a	250702-72976	S-212a	250702-72988	S-218a	250702-73000
S-206b	250702-72977	S-212b	250702-72989	S-218b	250702-73001

This analysis is performed in accordance with AAC's Quality Manual. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. Per client request, samples "S-1xx-b" were held as backup and therefore not analyzed. No problems were encountered during receiving, preparation, and/or analysis of these samples. The Technical Director or his/her designee, as verified by the following signature, has authorized release of the data.

If you have any questions or require further explanation of data results, please contact the undersigned.

Sucha Parmar, Ph.D.
Technical Director

This report consists of 9 pages.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc

LABORATORY ANALYSIS REPORT

CLIENT : Environmental Management Consulting
PROJECT NO. : 250702
MATRIX : AIR
UNITS : ppmv

SAMPLING DATE : 03/20/2025
RECEIVING DATE : 03/20/2025
ANALYSIS DATE : 03/20-21/2025
REPORT DATE : 04/01/2025

Total Reduced Sulfur Compounds by SCAQMD 307.91

Client ID	S-201a	S-202a	S-203a	S-204a	S-205a	S-206a
AAC ID	250702-72966	250702-72968	250702-72970	250702-72972	250702-72974	250702-72976
Analyte	Result	Result	Result	Result	Result	Result
Hydrogen Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
COS / SO2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Methyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethyl Sulfide	**0.006**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isopropyl Mercaptan	< 0.005	< 0.005	**0.007**	< 0.005	< 0.005	< 0.005
tert-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
n-Propyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Methylethylsulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
sec-Butyl Mercaptan / Thiophene	**0.005**	< 0.005	**0.010**	< 0.005	< 0.005	< 0.005
iso-Butyl Mercaptan	< 0.005	< 0.005	**0.005**	< 0.005	< 0.005	< 0.005
Diethyl Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
n-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethyl Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylthiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3-Methylthiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tetrahydrothiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bromothiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thiophenol	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Unidentified Sulfur	**0.006**	< 0.005	**0.026**	< 0.005	< 0.005	**0.007**
Total Reduced Sulfurs	**0.017**	< 0.005	**0.048**	< 0.005	< 0.005	**0.007**

All unidentified compound's concentrations expressed in terms of H_2S
Sample Reporting Limit (SRL) is equal to Reporting Limit x Analysis Dil. Fac.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc

LABORATORY ANALYSIS REPORT

CLIENT : Environmental Management Consulting
PROJECT NO. : 250702
MATRIX : AIR
UNITS : ppmv

SAMPLING DATE : 03/20/2025
RECEIVING DATE : 03/20/2025
ANALYSIS DATE : 03/21/2025
REPORT DATE : 04/01/2025

Total Reduced Sulfur Compounds by SCAQMD 307.91

Client ID	S-207a	S-208a	S-209a	S-210a	S-211a	S-212a
AAC ID	250702-72978	250702-72980	250702-72982	250702-72984	250702-72986	250702-72988
Analyte	Result	Result	Result	Result	Result	Result
Hydrogen Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
COS / SO2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Methyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethyl Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isopropyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
tert-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
n-Propyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Methylethylsulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
sec-Butyl Mercaptan / Thiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
iso-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl Sulfide	**0.007**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
n-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethyl Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylthiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3-Methylthiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tetrahydrothiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bromothiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thiophenol	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Unidentified Sulfur	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Reduced Sulfurs	**0.007**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

All unidentified compound's concentrations expressed in terms of H_2S
Sample Reporting Limit (SRL) is equal to Reporting Limit x Analysis Dil. Fac.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : Environmental Management Consulting
PROJECT NO. : 250702
MATRIX : AIR
UNITS : ppmv

SAMPLING DATE : 03/20/2025
RECEIVING DATE : 03/20/2025
ANALYSIS DATE : 03/21/2025
REPORT DATE : 04/01/2025

Total Reduced Sulfur Compounds by SCAQMD 307.91

Client ID	S-213a	S-214a	S-215a	S-216a	S-217a	S-218a
AAC ID	250702-72990	250702-72992	250702-72994	250702-72996	250702-72998	250702-73000
Analyte	Result	Result	Result	Result	Result	Result
Hydrogen Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
COS / SO2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Methyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethyl Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isopropyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
tert-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
n-Propyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Methylethylsulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
sec-Butyl Mercaptan / Thiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
iso-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
n-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethyl Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylthiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3-Methylthiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tetrahydrothiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bromothiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thiophenol	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Unidentified Sulfur	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Reduced Sulfurs	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

All unidentified compound's concentrations expressed in terms of H_2S
Sample Reporting Limit (SRL) is equal to Reporting Limit x Analysis Dil. Fac.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc

Quality Control/Quality Assurance Report
SCAQMD 307.91

Date Analyzed: 3/20/2025
Analyst: NR
Units: ppbV

Instrument ID : SCD#10
Calb. Date: : 02/10/2025

Opening Calibration Verification Standard

494.0 ppbV H2S (GC-091924-01)

H_2S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	21049	473	95.7	1.1
Duplicate	21458	482	97.6	0.8
Triplicate	21362	480	97.2	0.3

507.5 ppbV MeSH (GC-091924-01)

MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	19293	502	98.9	1.9
Duplicate	19907	518	102.1	1.2
Triplicate	19821	516	101.7	0.7

480.5 ppbV DMS (GC-091924-01)

DMS	Resp. (area)	Result	% Rec *	% RPD ****
Initial	21505	476	99.1	2.3
Duplicate	21987	487	101.4	0.1
Triplicate	22563	500	104.0	2.5

Method Blank

Analyte	Result
H_2S	<PQL
MeSH	<PQL
DMS	<PQL

Duplicate Analysis **Sample ID 250692-72933**

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H_2S	<PQL	<PQL	0.0	0.0
MeSH	<PQL	<PQL	0.0	0.0
DMS	<PQL	<PQL	0.0	0.0

Matrix Spike & Duplicate **Sample ID 250692-72933 x2**

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H_2S	<PQL	247.0	234.8	238.5	95.0	96.6	1.6
MeSH	<PQL	253.8	245.5	267.7	96.7	105.5	8.6
DMS	<PQL	240.3	244.4	261.4	101.7	108.8	6.7

Closing Calibration Verification Standard

Analyte	Std. Conc.	Result	% Rec **
H_2S	494.0	454.8	92.1
MeSH	507.5	524.2	103.3
DMS	480.5	510.7	106.3

** Must be 95-105%, ** Must be 90-110%, *** Must be < 10%, **** Must be < 5% RPD from Mean result.*

PQL = 50.0 ppbV

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc

Quality Control/Quality Assurance Report
SCAQMD 307.91

Date Analyzed: 3/20/2025
Analyst: NR
Units: ppmV

Instrument ID : SCD-BTU
Calb. Date: : 02/01/2025

Opening Calibration Verification Standard

0.494 ppmV H2S (GC-091924-01)

H_2S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	7933	0.504	102.0	0.6
Duplicate	7559	0.480	97.2	4.1
Triplicate	8163	0.518	104.9	3.5

0.508 ppmV MeSH (GC-091924-01)

MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	7321	0.501	98.8	0.8
Duplicate	7202	0.493	97.2	2.4
Triplicate	7619	0.522	102.8	3.2

0.481 ppmV DMS (GC-091924-01)

DMS	Resp. (area)	Result	% Rec *	% RPD ****
Initial	8134	0.495	103.0	1.5
Duplicate	7643	0.465	96.7	4.7
Triplicate	8271	0.503	104.7	3.2

Method Blank

Analyte	Result
H_2S	<PQL
MeSH	<PQL
DMS	<PQL

Duplicate Analysis **Sample ID 250692-72935**

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H_2S	<PQL	<PQL	0.000	0.0
MeSH	<PQL	<PQL	0.000	0.0
DMS	<PQL	<PQL	0.000	0.0

Matrix Spike & Duplicate **Sample ID 250692-72935 x2**

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H_2S	<PQL	0.247	0.245	0.265	99.2	107.3	7.8
MeSH	<PQL	0.254	0.241	0.264	95.0	104.0	9.1
DMS	<PQL	0.240	0.262	0.264	109.1	109.9	0.8

Closing Calibration Verification Standard

Analyte	Std. Conc.	Result	% Rec **
H_2S	0.494	0.448	90.7
MeSH	0.508	0.508	100.1
DMS	0.481	0.527	109.7

** Must be 95-105%, ** Must be 90-110%, *** Must be < 10%, **** Must be < 5% RPD from Mean result.*

PQL = 0.05 ppmV

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc

Quality Control/Quality Assurance Report
SCAQMD 307.91

Date Analyzed: 3/21/2025
Analyst: NR
Units: ppbV

Instrument ID : SCD#10
Calb. Date: : 02/10/2025

Opening Calibration Verification Standard

494.0 ppbV H2S (GC-091924-01)

H_2S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	22570	507	102.7	1.8
Duplicate	22271	500	101.3	0.4
Triplicate	21678	487	98.6	2.2

507.5 ppbV MeSH (GC-091924-01)

MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	19429	506	99.6	0.9
Duplicate	20373	530	104.5	3.9
Triplicate	19013	495	97.5	3.0

480.5 ppbV DMS (GC-091924-01)

DMS	Resp. (area)	Result	% Rec *	% RPD ****
Initial	22170	491	102.2	0.3
Duplicate	22669	502	104.5	1.9
Triplicate	21877	485	100.9	1.6

Method Blank

Analyte	Result
H_2S	<PQL
MeSH	<PQL
DMS	<PQL

Duplicate Analysis **Sample ID 250692-72933**

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H_2S	<PQL	<PQL	0.0	0.0
MeSH	<PQL	<PQL	0.0	0.0
DMS	<PQL	<PQL	0.0	0.0

Matrix Spike & Duplicate **Sample ID 250692-72933 x2**

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H_2S	<PQL	247.0	253.6	253.9	102.7	102.8	0.1
MeSH	<PQL	253.8	265.3	268.5	104.6	105.8	1.2
DMS	<PQL	240.3	261.8	263.1	109.0	109.5	0.5

Closing Calibration Verification Standard

Analyte	Std. Conc.	Result	% Rec **
H_2S	494.0	468.7	94.9
MeSH	507.5	540.2	106.4
DMS	480.5	515.4	107.3

** Must be 95-105%, ** Must be 90-110%, *** Must be < 10%, **** Must be < 5% RPD from Mean result.*
PQL = 50.0 ppbV

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc

Quality Control/Quality Assurance Report
SCAQMD 307.91

Date Analyzed: 3/21/2025
Analyst: NR
Units: ppmV

Instrument ID : SCD-BTU
Calb. Date: : 02/01/2025

Opening Calibration Verification Standard

0.494 ppmV H2S (GC-091924-01)

H_2S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	7905	0.502	101.6	1.1
Duplicate	8044	0.511	103.4	2.9
Triplicate	7498	0.476	96.4	4.1

0.508 ppmV MeSH (GC-091924-01)

MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	7380	0.505	99.6	1.1
Duplicate	7387	0.506	99.7	1.2
Triplicate	7135	0.489	96.3	2.3

0.481 ppmV DMS (GC-091924-01)

DMS	Resp. (area)	Result	% Rec *	% RPD ****
Initial	8152	0.496	103.2	2.1
Duplicate	8011	0.487	101.4	0.4
Triplicate	7781	0.473	98.5	2.5

Method Blank

Analyte	Result
H_2S	<PQL
MeSH	<PQL
DMS	<PQL

Duplicate Analysis **Sample ID 250702-72998**

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H_2S	<PQL	<PQL	0.000	0.0
MeSH	<PQL	<PQL	0.000	0.0
DMS	<PQL	<PQL	0.000	0.0

Matrix Spike & Duplicate **Sample ID 250702-72998 x2**

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H_2S	<PQL	0.247	0.262	0.241	106.1	97.6	8.3
MeSH	<PQL	0.254	0.269	0.250	106.0	98.5	7.3
DMS	<PQL	0.240	0.256	0.251	106.6	104.5	2.0

Closing Calibration Verification Standard

Analyte	Std. Conc.	Result	% Rec **
H_2S	0.494	0.501	101.4
MeSH	0.508	0.504	99.3
DMS	0.481	0.485	100.9

** Must be 95-105%, ** Must be 90-110%, *** Must be < 10%, **** Must be < 5% RPD from Mean result.*

PQL = 0.05 ppmV

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

004913 of 004929

250702

CE Schmidt, PhD, Environmental Consultant
Chain of Custody Record

Sulfur D2

Form Serial Number **CES F1-02106**	For Information Regarding These Samples Please Contact: **Dr. Charles E. Schmidt** 19200 Live Oak Road, Red Bluff, CA 96080 530-529-4256 Cell: 530-200-2473 SCHMIDTCE@aol.com	Client Address and Phone Number ***3900 Kilroy Airport Way, Suite 100*** ***Long Beach, CA 90806 562-743-7895***
Client Name ***SCS*** ***Chiquita Canyon Landfill***		Laboratory Name ***Atmospheric Analysis and Consulting***
Project Manager ***Pat Sullivan***		Laboratory Address ***2225 Sperry Avenue*** ***Ventura, CA 93003***
Requested Completion Date		Laboratory Phone ***805-650-1642***
		Laboratory Contact ***John Yokoyama*** jyokoyama@aaclab.com

Station Number	Date	Time	COMP	GRAB	Sample ID Number	# OF CONTAINERS	Sample Container: Bag	Can	Tube	SCAQMD Method 307-91	Analysis Requested	Field H2S (ppmv)	Remarks
	3/20/2025	821		x	S- 201 a/b 72989 72990	2	X			X		72989 72990	720 72967
	3/20/2025	837		x	S- 202 a/b 72991 72992	2	X			X		72968	72969
	3/20/2025	850		x	S- 203 a/b 72993 72994	2	X			X		72970	72971
	3/20/2025	921		x	S- 204 a/b 72995 72996	2	X			X		72972	72973
	3/20/2025	959		x	S- 205 a/b 72997 72998	2	X			X		72974	72975
	3/20/2025	953		x	S- 206 a/b 72999 73000	2	X			X		72976	72977
	3/20/2025	1000		x	S- 207 a/b 73001 73002	2	X			X		72978	72979
	3/20/2025	1005		x	S- 208 a/b	2	X			X		72980	72981
	3/20/2025	1120		x	S- 209 a/b	2	X			X		72982	72983
	3/20/2025	1120		x	S- 210 a/b	2	X			X		72984	72985
	3/20/2025	1125		x	S- 211 a/b	2	X			X		72986	72987
	3/20/2025	1128		x	S- 212 a/b	2	X			X		72988	72989
	3/20/2025	1123		x	S- 213 a/b	2	X			X		72990	72991
	3/20/2025	1300		x	S- 214 a/b	2	X			X		72992	72993
	"	1241		x	S 215 "	x	x			x		72994	72995
	"	1247		x	S 216 "	x	x			x		72996	72997
	"	1247		x	S 217 "	x	x			x		72998	72999
	"	1241		x	S 218 "	x	x			x		73000	73001

Sampler CE Schmidt	Date/Time 3/20/25 1320	Relinquished by CE Schmidt	Date/Time 3/20/25 1320	HAZWRAP/NEESA Y N QC Level 1 2 3	
Recieved by AAC	Date/Time 3/20/25 1425	Relinquished by	Date/Time	COC	Ice
Recieved by	Date/Time	Relinquished by SOB 1425	Date/Time 3/20/25 1535	Ana Req	Temp ***AMB***
Recieved by Laboratory	Date/Time 3/20/25 1538	Sample Shipped Via UPS FEDEX BUS Hand Other	Air Bill No.	Cust Seal	pH
Remarks				Sample Condition	

File: Sulfur Forms.xlsb Form: Sulfur COC D2

Atmospheric Analysis & Consulting, Inc

CLIENT	:	Environmental Management Consulting
PROJECT NAME	:	SCS Chiquita Canyon Landfill
PROJECT NUMBER	:	CES F1-02106
AAC PROJECT NO.	:	250721
REPORT DATE	:	04/02/2025

On March 21st 2025, Atmospheric Analysis & Consulting, Inc. received twenty-eight (28) Tedlar Bags for Total Reduced Sulfur analysis by SCAQMD 307.91. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

Client ID	Lab No.	Client ID	Lab No.
S- 301 a	250721-73070	S- 308 a	250721-73084
S- 301 b	250721-73071	S- 308 b	250721-73085
S- 302 a	250721-73072	S- 309 a	250721-73086
S- 302 b	250721-73073	S- 309 b	250721-73087
S- 303 a	250721-73074	S- 310 a	250721-73088
S- 303 b	250721-73075	S- 310 b	250721-73089
S- 304 a	250721-73076	S- 311 a	250721-73090
S- 304 b	250721-73077	S- 311 b	250721-73091
S- 305 a	250721-73078	S- 312 a	250721-73092
S- 305 b	250721-73079	S- 312 b	250721-73093
S- 306 a	250721-73080	S- 313 a	250721-73094
S- 306 b	250721-73081	S- 313 b	250721-73095
S- 307 a	250721-73082	S- 314 a	250721-73096
S- 307 b	250721-73083	S- 314 b	250721-73097

This analysis is performed in accordance with AAC's Quality Manual. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. All "b" samples were placed on hold and therefore not analyzed. No problems were encountered during receiving, preparation, and/or analysis of these samples. The Technical Director or his/her designee, as verified by the following signature, has authorized release of the data.

If you have any questions or require further explanation of data results, please contact the undersigned.

Sucha Parmar, Ph.D.
Technical Director

This report consists of 7 pages.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : Environmental Management Consulting
PROJECT NO. : 250721
MATRIX : AIR
UNITS : ppmv

SAMPLING DATE : 03/21/2025
RECEIVING DATE : 03/21/2025
ANALYSIS DATE : 03/21/2025
REPORT DATE : 04/02/2025

Total Reduced Sulfur Compounds by SCAQMD 307.91

Client ID	S- 301 a	S- 302 a	S- 303 a	S- 304 a	S- 305 a
AAC ID	250721-73070	250721-73072	250721-73074	250721-73076	250721-73078
Analyte	Result	Result	Result	Result	Result
Hydrogen Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
COS / SO2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Methyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethyl Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isopropyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
tert-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
n-Propyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Methylethylsulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
sec-Butyl Mercaptan / Thiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
iso-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
n-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethyl Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylthiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3-Methylthiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tetrahydrothiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bromothiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thiophenol	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Unidentified Sulfur	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Reduced Sulfurs	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

All unidentified compound's concentrations expressed in terms of H_2S
Sample Reporting Limit (SRL) is equal to Reporting Limit x Analysis Dil. Fac.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : Environmental Management Consulting
PROJECT NO. : 250721
MATRIX : AIR
UNITS : ppmv

SAMPLING DATE : 03/21/2025
RECEIVING DATE : 03/21/2025
ANALYSIS DATE : 03/21/2025
REPORT DATE : 04/02/2025

Total Reduced Sulfur Compounds by SCAQMD 307.91

Client ID	S- 306 a	S- 307 a	S- 308 a	S- 309 a	S- 310 a
AAC ID	250721-73080	250721-73082	250721-73084	250721-73086	250721-73088
Analyte	Result	Result	Result	Result	Result
Hydrogen Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
COS / SO2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Methyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethyl Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isopropyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
tert-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
n-Propyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Methylethylsulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
sec-Butyl Mercaptan / Thiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
iso-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl Sulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
n-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dimethyl Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylthiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
3-Methylthiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tetrahydrothiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bromothiophene	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thiophenol	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl Disulfide	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Unidentified Sulfur	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Reduced Sulfurs	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

All unidentified compound's concentrations expressed in terms of H_2S
Sample Reporting Limit (SRL) is equal to Reporting Limit x Analysis Dil. Fac.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : Environmental Management Consulting
PROJECT NO. : 250721
MATRIX : AIR
UNITS : ppmv

SAMPLING DATE : 03/21/2025
RECEIVING DATE : 03/21/2025
ANALYSIS DATE : 03/21/2025
REPORT DATE : 04/02/2025

Total Reduced Sulfur Compounds by SCAQMD 307.91

Client ID	S- 311 a	S- 312 a	S- 313 a	S- 314 a
AAC ID	250721-73090	250721-73092	250721-73094	250721-73096
Analyte	Result	Result	Result	Result
Hydrogen Sulfide	< 0.005	< 0.005	< 0.005	< 0.005
COS / SO2	< 0.005	< 0.005	< 0.005	< 0.005
Methyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005
Ethyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005
Dimethyl Sulfide	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Disulfide	< 0.005	< 0.005	< 0.005	< 0.005
Isopropyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005
tert-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005
n-Propyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005
Methylethylsulfide	< 0.005	< 0.005	< 0.005	< 0.005
sec-Butyl Mercaptan / Thiophene	< 0.005	< 0.005	< 0.005	< 0.005
iso-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl Sulfide	< 0.005	< 0.005	< 0.005	< 0.005
n-Butyl Mercaptan	< 0.005	< 0.005	< 0.005	< 0.005
Dimethyl Disulfide	< 0.005	< 0.005	< 0.005	< 0.005
2-Methylthiophene	< 0.005	< 0.005	< 0.005	< 0.005
3-Methylthiophene	< 0.005	< 0.005	< 0.005	< 0.005
Tetrahydrothiophene	< 0.005	< 0.005	< 0.005	< 0.005
Bromothiophene	< 0.005	< 0.005	< 0.005	< 0.005
Thiophenol	< 0.005	< 0.005	< 0.005	< 0.005
Diethyl Disulfide	< 0.005	< 0.005	< 0.005	< 0.005
Total Unidentified Sulfur	< 0.005	< 0.005	< 0.005	< 0.005
Total Reduced Sulfurs	< 0.005	< 0.005	< 0.005	< 0.005

All unidentified compound's concentrations expressed in terms of H_2S
Sample Reporting Limit (SRL) is equal to Reporting Limit x Analysis Dil. Fac.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc

Quality Control/Quality Assurance Report
SCAQMD 307.91

Date Analyzed: 3/21/2025
Analyst: NR
Units: ppbV

Instrument ID : SCD#10
Calb. Date: : 02/10/2025

Opening Calibration Verification Standard

494.0 ppbV H2S (GC-091924-01)

H_2S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	22570	507	102.7	1.8
Duplicate	22271	500	101.3	0.4
Triplicate	21678	487	98.6	2.2

507.5 ppbV MeSH (GC-091924-01)

MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	19429	506	99.6	0.9
Duplicate	20373	530	104.5	3.9
Triplicate	19013	495	97.5	3.0

480.5 ppbV DMS (GC-091924-01)

DMS	Resp. (area)	Result	% Rec *	% RPD ****
Initial	22170	491	102.2	0.3
Duplicate	22669	502	104.5	1.9
Triplicate	21877	485	100.9	1.6

Method Blank

Analyte	Result
H_2S	<PQL
MeSH	<PQL
DMS	<PQL

Duplicate Analysis **Sample ID 250692-72933**

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H_2S	<PQL	<PQL	0.0	0.0
MeSH	<PQL	<PQL	0.0	0.0
DMS	<PQL	<PQL	0.0	0.0

Matrix Spike & Duplicate **Sample ID 250692-72933 x2**

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H_2S	<PQL	247.0	253.6	253.9	102.7	102.8	0.1
MeSH	<PQL	253.8	265.3	268.5	104.6	105.8	1.2
DMS	<PQL	240.3	261.8	263.1	109.0	109.5	0.5

Closing Calibration Verification Standard

Analyte	Std. Conc.	Result	% Rec **
H_2S	494.0	468.7	94.9
MeSH	507.5	540.2	106.4
DMS	480.5	515.4	107.3

** Must be 95-105%, ** Must be 90-110%, *** Must be < 10%, **** Must be < 5% RPD from Mean result.*

PQL = 50.0 ppbV

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc

Quality Control/Quality Assurance Report
SCAQMD 307.91

Date Analyzed: 3/21/2025
Analyst: NR
Units: ppmV

Instrument ID : SCD-BTU
Calb. Date: : 02/01/2025

Opening Calibration Verification Standard

0.494 ppmV H2S (GC-091924-01)

H_2S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	7905	0.502	101.6	1.1
Duplicate	8044	0.511	103.4	2.9
Triplicate	7498	0.476	96.4	4.1

0.508 ppmV MeSH (GC-091924-01)

MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	7380	0.505	99.6	1.1
Duplicate	7387	0.506	99.7	1.2
Triplicate	7135	0.489	96.3	2.3

0.481 ppmV DMS (GC-091924-01)

DMS	Resp. (area)	Result	% Rec *	% RPD ****
Initial	8152	0.496	103.2	2.1
Duplicate	8011	0.487	101.4	0.4
Triplicate	7781	0.473	98.5	2.5

Method Blank

Analyte	Result
H_2S	<PQL
MeSH	<PQL
DMS	<PQL

Duplicate Analysis **Sample ID 250702-72998**

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H_2S	<PQL	<PQL	0.000	0.0
MeSH	<PQL	<PQL	0.000	0.0
DMS	<PQL	<PQL	0.000	0.0

Matrix Spike & Duplicate **Sample ID 250702-72998 x2**

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H_2S	<PQL	0.247	0.262	0.241	106.1	97.6	8.3
MeSH	<PQL	0.254	0.269	0.250	106.0	98.5	7.3
DMS	<PQL	0.240	0.256	0.251	106.6	104.5	2.0

Closing Calibration Verification Standard

Analyte	Std. Conc.	Result	% Rec **
H_2S	0.494	0.501	101.4
MeSH	0.508	0.504	99.3
DMS	0.481	0.485	100.9

** Must be 95-105%, ** Must be 90-110%, *** Must be < 10%, **** Must be < 5% RPD from Mean result.*

PQL = 0.05 ppmV

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

250721

CE Schmidt, PhD, Environmental Consultant — **Sulfur D3**

Chain of Custody Record

| | | |

CE Schmidt, Ph.D.
Environmental Consultant
Confidential Attorney Client Privileged Communication and Attorney Work Product

ATTACHMENT D

CALIBRATION DATA

19200 Live Oak Road Red Bluff, CA 96080 (530) 529-4256 Fax- 4878

CCLF
T #4

REAL TIME INSTRUMENT CALIBRATION FORM

DATE 3/19/25 SAMPLERS OES/TRC/IDA/RW

LOCATION CCLF

INSTRUMENT TYPE TVA I.D. NO. 4250 TYPE _____ ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BLANK DETERMINATION ☐ PRE-USE SPAN CHECK ☐ POST-USE SPAN CHECK ☐
AMBIENT CONCENTRATIONS _____

0700

PRE-USE CALIBRATION; ZERO AIR RESPONSE AND SPAN GAS RESPONSE

AA 24-35 ppmv

INPUT ZERO AIR RESPONSE 5.1 PPMV

SPAN GAS TYPE CH4 INPUT CONCENTRATION 500 ppmv RESPONSE 560 ppmv

RECALIBRATION: YES _____ NO X

ACCEPANCE ✓ OK <110%

INPUT- ZERO AIR RESPONSE _____

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE _____

COMMENT _____

POST-USE CALIBRATION; ZERO AIR RESPONSE AND SPAN GAS RESPONSE

1328

INPUT ZERO AIR RESPONSE ~~1631 0.00 2033 0.001 PPMV~~ PPMV

60 ppmv TVA
Zero

SPAN GAS TYPE METHANE INPUT CONCENTRATION 500 PPMV RESPONSE 536 PPMV

ACCEPTANCE A- OK

RECALIBRATION: YES _____ NO ~~NA~~

INPUT- ZERO AIR RESPONSE _____

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE _____

RECALIBRATION: YES _____ NO _____

INPUT- ZERO AIR RESPONSE _____

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE _____

RECALIBRATION: YES _____ NO _____

COMMENT _____

CCLF 1 of 4

REAL TIME INSTRUMENT CALIBRATION FORM

DATE 3/19/25 SAMPLERS CES/TRC/TDA/RW

LOCATION CCLF

INSTRUMENT TYPE 631X I.D. NO. 1631/2033 TYPE _____ ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BLANK DETERMINATION ☐ PRE-USE SPAN CHECK ☐ POST-USE SPAN CHECK ☐
AMBIENT CONCENTRATIONS _____

PRE-USE CALIBRATION; ZERO AIR RESPONSE AND SPAN GAS RESPONSE

0700

INPUT ZERO AIR RESPONSE 1631 0.014 ppmV 2033 -0.000 ppmV

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

RECALIBRATION: YES X NO _____ H/L

ACCEPANCE _____

INPUT- ZERO AIR RESPONSE _____

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE _____

COMMENT _____

1328

POST-USE CALIBRATION; ZERO AIR RESPONSE AND SPAN GAS RESPONSE

INPUT ZERO AIR RESPONSE 1631 0.010 ppmV 2030.001 ppmV

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE OK

RECALIBRATION: YES _____ NO H/L

INPUT- ZERO AIR RESPONSE _____

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE _____

RECALIBRATION: YES _____ NO _____

INPUT- ZERO AIR RESPONSE _____

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE _____

RECALIBRATION: YES _____ NO _____

COMMENT _____

CCF
T4

REAL TIME INSTRUMENT CALIBRATION FORM

DATE 3/20/25 SAMPLERS CES/TRC/DDA/RW

LOCATION CCLF

INSTRUMENT TYPE TA I.D. NO. 4250 TYPE _____ ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BLANK DETERMINATION ☐ PRE-USE SPAN CHECK ☐ POST-USE SPAN CHECK ☐
AMBIENT CONCENTRATIONS _____

PRE-USE CALIBRATION; ZERO AIR RESPONSE AND SPAN GAS RESPONSE

0700

INPUT ZERO AIR RESPONSE 16 ppmv (cald!)

SPAN GAS TYPE CH4 INPUT CONCENTRATION 500 RESPONSE 567 ppm

RECALIBRATION: YES _____ NO X

ACCEPANCE _____

INPUT- ZERO AIR RESPONSE _____

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE _____

COMMENT _____

POST-USE CALIBRATION; ZERO AIR RESPONSE AND SPAN GAS RESPONSE

1133

INPUT ZERO AIR RESPONSE 0.16 ppmv

SPAN GAS TYPE CH4 INPUT CONCENTRATION _____ RESPONSE ~~8~~ 570 ppmv

ACCEPTANCE √ A-OK

RECALIBRATION: YES _____ NO X

INPUT- ZERO AIR RESPONSE _____

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE _____

RECALIBRATION: YES _____ NO _____

INPUT- ZERO AIR RESPONSE _____

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE _____

RECALIBRATION: YES _____ NO _____

COMMENT _____

OCIF 94

REAL TIME INSTRUMENT CALIBRATION FORM

DATE 3/20/25 SAMPLERS CES/TEC/JDA/RW

LOCATION _____

INSTRUMENT TYPE 1631X I.D. NO. 2033 / 1631 TYPE _____ ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BLANK DETERMINATION ☐ PRE-USE SPAN CHECK ☐ POST-USE SPAN CHECK ☐
AMBIENT CONCENTRATIONS _____

0700

PRE-USE CALIBRATION; ZERO AIR RESPONSE AND SPAN GAS RESPONSE

INPUT ZERO AIR RESPONSE 2033 0.043 ppmv 1631 0.016 ppmv

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

RECALIBRATION: YES X NO _____ H/L

ACCEPANCE _____

INPUT- ZERO AIR RESPONSE _____

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE _____

COMMENT _____

1311

POST-USE CALIBRATION; ZERO AIR RESPONSE AND SPAN GAS RESPONSE

INPUT ZERO AIR RESPONSE 2033 0.000 ppmv 1631 0.000 ppmv ✓

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE _____

RECALIBRATION: YES X NO _____ H/L

INPUT- ZERO AIR RESPONSE _____

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE _____

RECALIBRATION: YES _____ NO _____

INPUT- ZERO AIR RESPONSE _____

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE _____

RECALIBRATION: YES _____ NO _____

COMMENT _____

REAL TIME INSTRUMENT CALIBRATION FORM

DATE 3/20/25 3/21/25 SAMPLERS CLS/JDA/TRC/RW

LOCATION CCLF

INSTRUMENT TYPE TVA I.D. NO. 4250 TYPE _____ ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BLANK DETERMINATION ☐ PRE-USE SPAN CHECK ☐ POST-USE SPAN CHECK ☐
AMBIENT CONCENTRATIONS _____

PRE-USE CALIBRATION; ZERO AIR RESPONSE AND SPAN GAS RESPONSE

0700 INPUT ZERO AIR RESPONSE 15 ppmv COLD

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

RECALIBRATION: YES _____ NO X

ACCEPANCE OK

INPUT- ZERO AIR RESPONSE _____

SPAN GAS TYPE CH_4 INPUT CONCENTRATION 500 ppmv RESPONSE 550 ppmv

ACCEPTANCE _____

COMMENT _____

1706 POST-USE CALIBRATION; ZERO AIR RESPONSE AND SPAN GAS RESPONSE

INPUT ZERO AIR RESPONSE 0 - 4 ppmv

SPAN GAS TYPE CH_4 INPUT CONCENTRATION 500 ppmv RESPONSE 526 ppmv

ACCEPTANCE _____

RECALIBRATION: YES _____ NO _____

INPUT- ZERO AIR RESPONSE _____

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE _____

RECALIBRATION: YES _____ NO _____

INPUT- ZERO AIR RESPONSE _____

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE _____

RECALIBRATION: YES _____ NO _____

COMMENT _____

CCLF T4

REAL TIME INSTRUMENT CALIBRATION FORM

DATE 3/21/25 SAMPLERS CES/RC/JDA/RW

LOCATION CCLF T4

INSTRUMENT TYPE 1631 I.D. NO. 2033 TYPE 1631 ID NO. _____

INSTRUMENT BASELINE X

PROJECT QC: BLANK DETERMINATION ☐ PRE-USE SPAN CHECK ☐ POST-USE SPAN CHECK ☐
AMBIENT CONCENTRATIONS _____

700

PRE-USE CALIBRATION; ZERO AIR RESPONSE AND SPAN GAS RESPONSE

INPUT ZERO AIR RESPONSE 2033 0.000ppmv 1631 0.000

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

RECALIBRATION: YES X NO H/L

ACCEPANCE OK

INPUT- ZERO AIR RESPONSE _____

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE _____

COMMENT _____

1104

POST-USE CALIBRATION; ZERO AIR RESPONSE AND SPAN GAS RESPONSE

INPUT ZERO AIR RESPONSE 2033 0.000ppmv 1631 0.012 ppmv

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE OK

RECALIBRATION: YES _____ NO _____

INPUT- ZERO AIR RESPONSE _____

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE _____

RECALIBRATION: YES _____ NO _____

INPUT- ZERO AIR RESPONSE _____

SPAN GAS TYPE _____ INPUT CONCENTRATION _____ RESPONSE _____

ACCEPTANCE _____

RECALIBRATION: YES _____ NO _____

COMMENT _____

MARCH 25

CERTIFICATE OF ANALYSIS

Lot Number 4-130-330
Part Number SPG 5P104610VM2
Cylinder Size ALS
Pressure 2000 psig @ 70°F

Date Analyzed 6/24/2024
Expires 6-2027
Analytical Accuracy 0.02% Absolute

Cylinder Number(s)

EB0171140	EB0171178	EB0171252	EB0171249
EB0171268	EB0137048		

Component	Reported Concentration	Requested Concentration	Analytical Method
Oxygen	21.00 %	21 %	GC-TCD
Helium	10.04 %	10 %	GC-TCD
Nitrogen	Balance	Balance	Gravimetric
THC as Methane	<0.1ppm	<0.1ppm	FTIR

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

Approved: _____ Date Signed: June 25, 2024
Aaron Schwenken
Lab Manager

The cylinders in this lot were prepared gravimetricaly and are traceable to the NIST by certified weights used to calibrate the scales.
The cylinders were then analyzed against standards traceable to the NIST by weights or SRM's.
NIST Traceability Numbers are available upon request.

CERTIFICATE OF ANALYSIS

Lot Number 4-136-331
Part Number SPG 5P104610VM2
Cylinder Size ALS
Pressure 2000 psig @ 70°F

Date Analyzed 6/24/2024
Expires 6-2027
Analytical Accuracy 0.02% Absolute

Cylinder Number(s)

EB0170914	EB0149547	EB0171179	EB0171264
EB0149561	CC28096		

Component	Reported Concentration	Requested Concentration	Analytical Method
Helium	9.978 %	10 %	GC-TCD
Oxygen	20.99 %	21 %	GC-TCD
Nitrogen	Balance	Balance	Gravimetric
THC as Methane	<0.1ppm	<0.1ppm	FTIR

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

Approved: _____ Date Signed: June 25, 2024
Aaron Schwenken
Lab Manager

The cylinders in this lot were prepared gravimetricaly and are traceable to the NIST by certified weights used to calibrate the scales.
The cylinders were then analyzed against standards traceable to the NIST by weights or SRM's.
NIST Traceability Numbers are available upon request.