

August 5, 2022

Mr. George Momberger
NYSDEC Division of Environmental Remediation
625 Broadway
Albany, NY 12233

Subject: **SVE System O&M Status Report No. 3**
NYSDEC DER Site #704050
Former Canada Dry Plant
2 & 7 Badger Ave, Endicott, Broome County, New York

Dear Mr. Momberger:

Parsons has prepared the enclosed Soil Vapor Extraction (SVE) System Operation and Maintenance (O&M) Status Report to detail activities completed at the site including routine system operation and maintenance, system monitoring, effluent air sampling, and discharge of extracted water through July 15, 2022. This report is a running report and includes all the information presented in Report No. 1 plus any new data/information generated since Report No. 1 was completed. Edits made since submittal of the previous report (Report No. 2) are shown in green in both the report text and tables.

Site visits for Month 4 of system startup were conducted on July 12 and July 15, 2022. The visit on July 12 (conducted by Parsons) was to restart Blower 1 and empty its VLS tank following a High Level alarm, and the visit on July 15 (conducted by GES) was a routine system O&M visit. Site visits will continue on a monthly basis for up to six months. An air sample was collected on July 15 from the combined system effluent. The next planned O&M visit is scheduled for August 8, 2022, during month five of system operation.

If you have any questions or require additional information, please contact me at (315) 857-8375. Sincerely,

Heather Budzich, P.E.
Project Manager

cc: Matt Crance (Parsons)
Rob Sickler and Jessica Thomas (GES)

FORMER CANADA DRY PLANT – DER SITE #704050

SVE SYSTEM O&M STATUS REPORT No. 3

6/17/22 – 7/15/22

The enclosed report details soil vapor extraction (SVE) system operation and maintenance (O&M) activities and air monitoring results collected from the above referenced Site No. 704050 located at 2 and 7 Badger Avenue, Endicott, NY. This site is a Class 2 inactive hazardous waste disposal site within the New York State Inactive Hazardous Waste Disposal Site Remedial Program (also known as the State Superfund Program). A site location map is included on Figure 1.

SYSTEM DETAILS

An SVE system was installed at the site to remove volatile organic compounds (VOCs), primarily trichloroethene (TCE) in the vadose zone beneath the building at 2 Badger Ave and the area immediately north and east of the building. The SVE system was designed to mitigate soil vapor intrusion into the building at 2 Badger Avenue by applying a vacuum to the horizontal soil vapor extraction (HSVE) wells HSVE-09, HSVE-10, HSVE-11 and SVE-05. These individual wells were plumbed to a stub-up manifold connected to a pre-fabricated, all enclosed SVE system as shown on the attached DRAFT as-built drawing, Figure 2.

The prefabricated SVE system consists of three regenerative blowers equipped with variable frequency drives (VFD) and three condensate vapor liquid separator (VLS) tanks, mounted within a steel intermodal container. The container is located within a fenced enclosure at the northern portion of the 2 Badger Ave property and the northwestern spur of the 7 Badger Ave property. Following delivery of the container to the site, the blowers were connected to the three HSVE wells (HSVE-09, HSVE-10, and HSVE-11) and one vertical SVE well (SVE-05), with HSVE-11 and SVE-05 connected together at the stub-up. PVC discharge piping is attached to a utility pole to serve as a discharge stack (35 feet above ground surface). Additionally, an electric meter, disconnect, circuit breaker panel, and security lighting were added to the prefabricated system. The blower numbers correspond to the wells listed below.

- Blower 1 (SVE-1): HSVE-09
- Blower 2 (SVE-2): HSVE-10
- Blower 3 (SVE-3): HSVE-11/SVE-05

OPERATION AND MAINTENANCE ACTIVITIES

Routine O&M activities have included monitoring and maintenance of equipment, troubleshooting startup issues, recording system operational data, and checking equipment/system performance. System O&M events are being completed by Groundwater Environmental Services (GES). The dates of each site visit, blower run time, influent and effluent blower data (i.e., vacuum, temperature, change in filter pressure across blower, airflow, PID readings, and effluent sample data) and cumulative mass removal estimated from PID readings and laboratory data are presented in Table 1. Measurements taken at individual well heads throughout the remedial action area are presented in Table 2. A brief summary of the events completed to date are presented below.

System Startup Week 1

Week 1 system startup activities were completed daily between March 21, 2022 and March 25, 2022. Activities conducted during initial startup on March 21, 2022 included updating the Process and Instrumentation Diagram (P&ID) and system layout drawing, completing Critical Equipment (CE) checks, completing system inspection forms, reviewing system set-points and VFD settings, and adding emails and cell phone numbers to the alarm list. Additionally, vacuum in observation wells was gauged to evaluate the radius of influence (ROI). In general, a good vacuum response was observed at HRP-MW-5 and HRP-MW-2 with readings just below 0.1 inches of water column (in W.C.). These wells are located at the northeast and southeast edges of the remedial action zone, respectively. Higher levels were observed inside the remediation area at SVE-08 (0.47 in W.C.) located east of the 2 Badger Avenue building and SVE-03 (0.25 in W.C.), located in the southwestern portion of the building.

Blowers SVE-1 (1) and SVE-3 (3) were left off at the end of the workday on March 21, 2022 due to issues with the system programmable logic controller (PLC) coding and telemetry precluding alarms from operating as intended. Specific issues are listed below.

- The VLS tank high-level switch for Blowers 1 and 3, when activated, showed the alarm on the interface but did not shut down the SVE blowers.
- The high vacuum shutoff worked for all three blowers but showed the low vacuum alarm light on the interface for Blowers 1 and 3.
- The building high temperature alarm was not activating at the set high temperature.
- Remote login information had not yet been provided; the IP address, time, and date needed to be updated.

The SVE system manufacturer, Specialty Systems Integrator, Inc. (SSI) was contacted to remedy these issues, though they were not available for consult that day. Tests for VLS low vacuum, vacuum relief valves, blower low vacuum, high temperature shutoff, VOC meter, emergency stop, and low flow showed systems and alarms working as expected.

The blowers were restarted the morning of March 22, 2022, operated in auto mode throughout the day and turned off prior to departure that evening. This sequence continued until March 24, 2022 due to the high vacuum and high water level alarms and shutoffs not working as expected. On March 24, 2022, GES and SSI conducted a conference call from the field to address the server and PLC issues and to set up remote connection login capabilities. Critical equipment was retested with SSI including VLS tank high-level switches and high vacuum shutoffs for Blowers 1 and 3 and are now performing as designed. All three blowers were left on overnight. Other activities conducted during initial system startup and operation (week 1) included:

- Installing sample ports and drain ports,
- Diagnosing telemetry issues with SSI,
- SSI updating system time and date,

- Inspecting equipment, and
- Performing routine O&M measurements and other activities.

Activities regularly conducted during these initial O&M events include:

- Gauging vacuum in monitoring wells to measure the system's ROI
- Collecting measurements and readings from system meters, SVE wells, sample ports, and monitoring wellheads;
- Pumping extracted liquid out of VLS tanks and into 55-gallon drums; and
- Adjusting system set points.

Data collected during O&M activities are summarized in Tables 1 and 2.

System Operation Weeks 2, 3, and 4

System operation activities for weeks 2 through 4 were completed on the following scheduled dates:

- Week 2: March 28 and March 31, 2022
- Week 3: April 4, 2022
- Week 4: April 15, 2022

During this operational time period, the VLS tank for Blower 1, which is connected to HSVE-09, frequently shut down due to high water levels, necessitating the contents of the VLS tank be transferred into 55-gallon drums (as temporary storage) before turning the blower back on. After discussing options with NYSDEC and the Village of Endicott, extracted water will be run through carbon and discharged to a sewer manhole located in Badger Avenue south of the 2 Badger Avenue building. In total, approximately 245 gallons extracted by Blower 1 and 10 gallons extracted by Blower 3 have been discharged to the Village of Endicott sewer manhole as of April 21, 2022.

On April 1 and April 18, 2022, additional troubleshooting visits (outside of normally scheduled visits) were completed by GES to return Blower 1 on-line following each shut-down. Troubleshooting techniques included evaluating the ROI by collecting vacuum readings throughout the remediation area while SVE-2 and SVE-3 were operational, but SVE-1 blower was down. This data was used to evaluate if the system was able to achieve the desired influence under the entire building with only two wells operational. The results indicated the desired influence could not be achieved without at least some air flow being drawn from SVE-1 (HSVE-09). The flow rate at SVE-1 was thusly reduced to the point of limiting water intake with a reduced air flow capacity.

On April 21, 2022, GES performed an unscheduled site visit in response to a system alarm related to a VFD overload which shut down Blowers 1 and 3, presumed to be associated with a power outage from the April 19, 2022 storm. Following a system restart, a full O&M site inspection was completed.

Month 2

The system ran without any shutdowns. Routine O&M was performed on May 11, 2022.

Month 3

Following a High Level alarm for Blower 1, a site visit was performed on May 27, 2022 to empty approximately 25 gallons from the VLS tank and restart Blower 1. Routine O&M was performed on June 13, 2022. Blower 1 was offline upon arrival due to high water level in the VLS tank. The alarm had not been received via the telemetry system. During the O&M event GES drained approximately 30 gallons from the Blower 1 VLS tank. On June 16, 2022 GES installed a SIM card in the onsite cellular modem and remotely logged into the system to confirm the remote login is accessible. The email server error preventing alarms from being received via the telemetry system was fixed by SSI, the SVE System fabricator June 21, 2022. Blowers 2 and 3 remained operating throughout the entire Month 3 operational period.

Month 4

Parsons noted on July 5, 2022 that Blower 1 had shut down to a High Level alarm on July 2, 2022. No email was received for this alarm due to an email server error. A site visit was performed by Parsons on July 12, 2022 to empty approximately 34 gallons from the VLS tank into the on-site drum for temporary storage and restart Blower 1. Parsons staff also set the dilution air for Blower 1 to 50% in order to reduce the flow rate and frequency that the Blower 1 VLS tank fills up with condensate. The flow rate for Blower 1 was set to 28 standard cubic feet per minute (scfm) and the vacuum was at 4 inches of water column.

Routine O&M was performed on July 15, 2022. During the O&M event GES drained approximately 100 gallons of drummed condensate from the onsite storage drums to the Village of Endicott sewer. Blowers 2 and 3 remained operating throughout the entire Month 4 operational period. GES also completed the critical equipment check and noted missing locks on wells and that the telemetry system was not calling out as designed. The telemetry issue has since been resolved and the email server settings have been updated.

SYSTEM OPERATION RESULTS

Operational data collected between March 21 and July 15, 2022 show Blower 2 (SVE-2) operating 98.1 percent of the time with Blower 3 (SVE-3) slightly less at 96.2 percent, and Blower 1 (SVE-1) at 62.1 percent. Average flow rates for each blower were 59.7 cubic feet per minute (cfm) in Blower 1, 158.8 cfm in Blower 2 and 162.4 cfm in Blower 3, with a combined average flow rate of 380.9 cfm. The system is operating somewhat lower than the design flow rate of 520 cfm. This is largely due to Blower 1 having to operate at a lower flow rate due to water infiltration issues. Vacuum measurements taken throughout the remediation area show good vacuum response based on readings greater than 0.1 in W.C. at all locations except HRP-MW-02 and HRP-MW-05 where readings are typically less than 0.1 in W.C but are located on the fringe of the expected remediation area.

AIR SAMPLING RESULTS

Effluent air samples were collected by Parsons from the discharge stack sample port on March 24, 2022 and April 15, 2022 and by GES on May 11, 2022, June 13, 2022, and July 15, 2022 using batch certified 1L or 6L Summa canisters regulated for a 1-hour sample duration. Air samples were

also collected by GES from the HSVE-09, HSVE-10, and HSVE-11 sample ports on June 13, 2022. The first two samples were submitted to Eurofins Test America, Knoxville, TN and the samples collected by GES were submitted to Con-test, East Longmeadow Massachusetts for analysis of VOCs by method TO-15 (low level). Effluent air sampling results are shown in Table 3 and laboratory reports are provided in Appendix A.

Data from the effluent sampling events show that the site specific compounds of concern are chlorinated VOCs including tetrachloroethylene (PCE), trichloroethylene (TCE), cis-1,2-dichloroethylene (cis-1,2-DCE), trans-1,2-dichloroethylene (trans-1,2-DCE), and vinyl chloride (VC). The total CVOC detections (sum of the concentrations of each compound) from the March 24, 2022 effluent sample were 1,420 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) with 98.6 percent related to TCE. Total CVOC concentrations in the April 15, 2022 samples were lower at $342 \mu\text{g}/\text{m}^3$ with 84.8 percent related to TCE and 15.2 percent related to PCE. The total CVOC concentration in the May 11, 2022 sample was $730.7 \mu\text{g}/\text{m}^3$ and was 97.2 percent TCE. The total CVOC concentration in the June 13, 2022 sample was $190.2 \mu\text{g}/\text{m}^3$ and was 94.7 percent TCE. The samples collected on June 13, 2022 from the well sample ports equaled $1,319.5 \mu\text{g}/\text{m}^3$ (98.5% TCE) at HSVE-09, $1,433.8 \mu\text{g}/\text{m}^3$ (97.6% TCE) at HSVE-10, and $291 \mu\text{g}/\text{m}^3$ (89.4% TCE) at HSVE-11. The total CVOC concentration in the July 15, 2022 sample was $31.9 \mu\text{g}/\text{m}^3$ and was 94.0 percent TCE.

DISCHARGE EMISSIONS

The SVE system is exempt from air permits under Part 201-3.3(29) as the discharge stack is considered a soil vent and is being operated at a State Superfund site. However, based on the AERSCREEN modeling results presented in Parsons August 2019 100% Design Report an emission rate of 0.00896 pounds per hour, (lb/hr) for TCE yielded a maximum short-term impact of $2.2 \mu\text{g}/\text{m}^3$, well below the short-term guideline concentration of $20 \mu\text{g}/\text{m}^3$. This threshold is being used in Table 1 as a screening tool to evaluate if the system is operating satisfactorily to protect the public from the discharge vapors. System operations data from Table 1 was used to calculate a TCE discharge rate using both the PID measurements (converted to the fraction of TCE) and the laboratory analytical results (using detected CVOCs). Due to their greater level of accuracy, the laboratory analytical results are used to compare to the maximum allowable discharge rate when available, and the PID measurements are only used if they are the only measurement available. To date, the modeled discharge rate was only exceeded on March 22, 2022, one day after system startup and has dropped steadily since.

CUMULATIVE TCE MASS REMOVAL

Cumulative TCE removed was calculated using system operation data in Table 1 with an estimated 15.3 pounds removed based on PID readings and 3.22 pounds removed using laboratory analytical data. A graph showing the cumulative mass removed by both methods is included as Figure 3.

SCHEDULE FOR FUTURE O&M ACTIVITIES

GES will continue operating the SVE system and completing O&M activities at the subject site. The current schedule for continuing work over the initial six-month O&M period is shown below.

Date	Month	Conduct O&M Activities	Collect System Effluent Sample	Collect Samples at Well Heads (HSVE-09, HSVE-10 and HSVE-11)
August 8, 2022	5	Yes	Yes	No
September 13, 2022	6	Yes	Yes	Yes

ATTACHMENTS

Figures:

Figure 1	Site Location Map
Figure 2	Draft As-Built
Figure 3	Cumulative Total CVOC Mass Removal

Tables:

Table 1	Blower Influent and Effluent Data
Table 2	Well Head Data
Table 3	SVE Effluent Analytical Data

Appendices:

Appendix A	Laboratory Analytical Results Report
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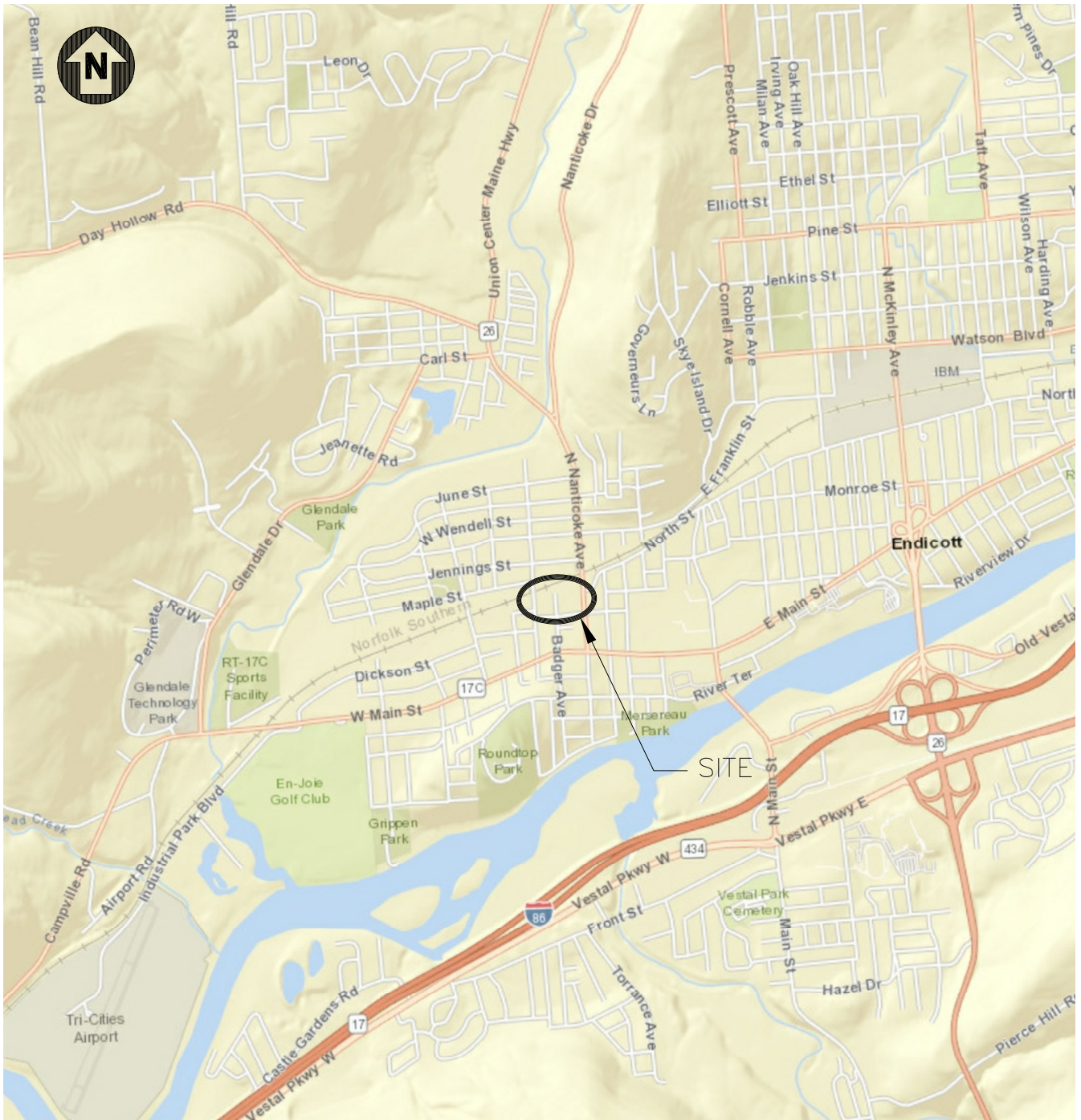


FIGURE 1



Former Canada Dry
2 & 7 Badger Ave
Endicott, NY

SITE LOCATION MAP

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

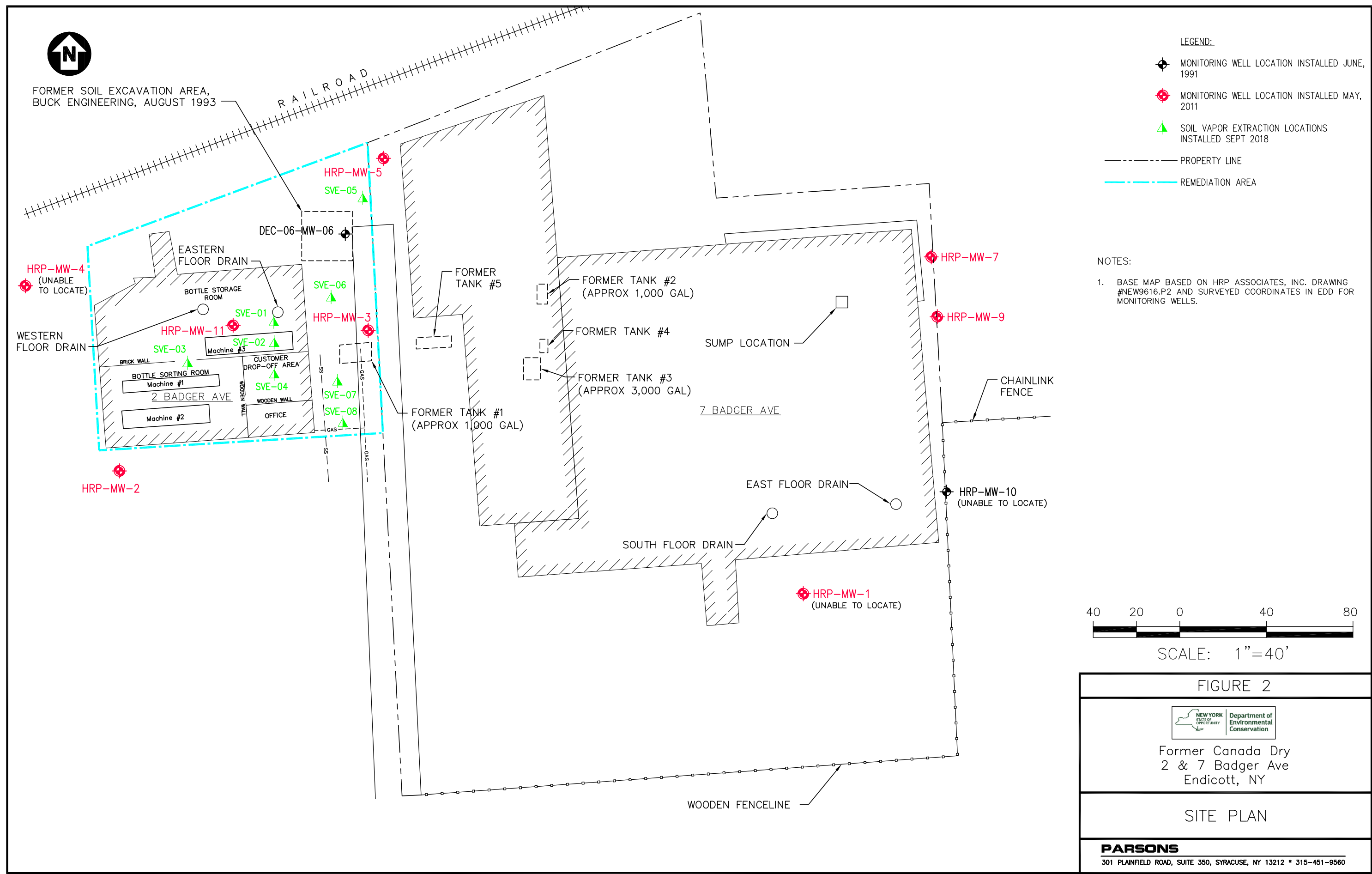


Figure 3: Cumulative Total CVOC Mass Removal

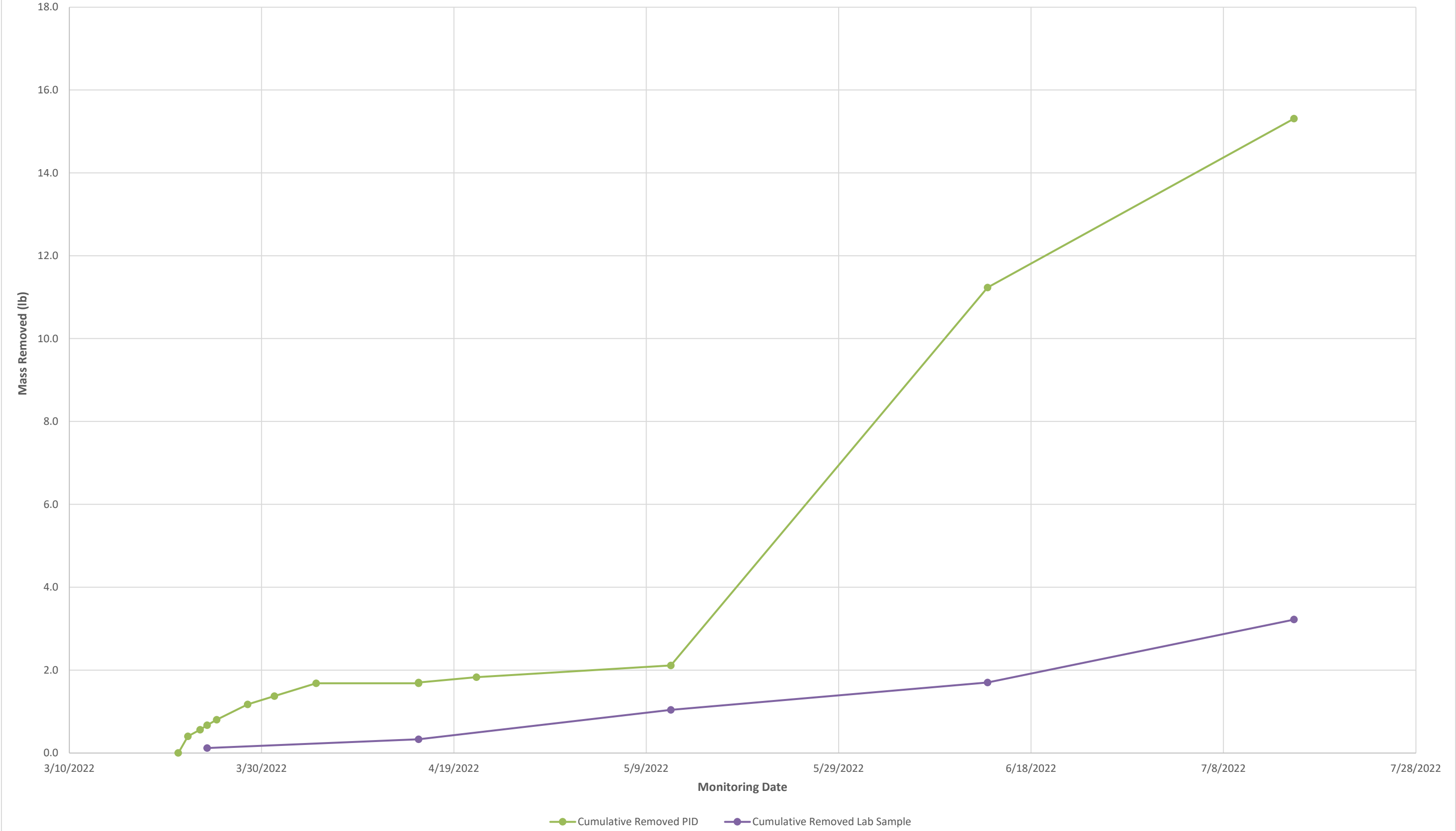


TABLE 1 - BLOWER INFLUENT AND EFFLUENT DATA
Canada Dry Site #704050 - 2 and 7 Badger Ave, Endicott, New York

Monitor Date	Potential Hours between Montrg. Dates	Blower 1				Blower 2				Blower 3				Influent - Blower 1 (HSVE-09) ¹								Influent - Blower 2 (HSVE-10) ¹								Influent - Blower 3 (HSVE-11) ¹								Influent - Blower 3 (SVE-05) ¹			
		Hour Meter Reading	RunTime b/w Dates	System Operation Time (%)	Cumulative Operational Time (hours)	Hour Meter Reading	RunTime b/w Dates	System Operation Time (%)	Cumulative Operational Time (hours)	Hour Meter Reading	RunTime b/w Dates	System Operation Time (%)	Cumulative Operational Time (hours)	Vacuum	Temp	Filter Diff Pressure	Magnehelic	Air Flow (fpm)	Flow ⁶	PID	Vacuum	Temp	Filter Diff Pressure	Magnehelic	Air Flow	Flow ⁶	PID	Vacuum	Temp	Filter Diff Pressure	Magnehelic	Air Flow	Flow ⁶	PID	Vacuum	Temp	Air Flow	PID			
	(hr)		(hr)	(%)	(hr)		(hr)	(%)	(hr)		(hr)	(%)	(hr)	in H2O	(deg F)	in H2O	in H2O		cfm	ppm	in H2O	(deg F)	in H2O	in H2O	fpm	cfm	ppm	in H2O	(deg F)	in H2O	in H2O	fpm	cfm	ppm	in H2O	(deg F)	fpm	ppm			
3/21/22 8:00 AM	0.0	0.00	0.00	0	0	0.00	0.00	0	0	0.00	0.00	0	0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM			
3/22/22 8:00 AM	24.0	13.23	13.23	55	13.23	29.47	29.47	123	29.47	13.45	13.45	56	13.45	43	NM	2	1.30	NM	132	1.520	18	NM	5	2.05	NM	169	2.120	20	NM	3	1.82	NM	161	1.215	NM	NM	NM	NM			
3/23/22 2:30 PM	30.5	18.48	5.25	17	18.48	52.10	22.63	74	52.10	18.68	5.23	17	18.68	42	47.7	3	1.33	4,500	Off	1.186	18	51.6	6	2.00	3,900	167	1.159	20	49.3	3	1.85	4,200	160	0.573	combined w/ HSVE-11	55.3	665	0.465			
3/24/22 8:00 AM	17.5	23.72	5.24	30	23.72	74.83	22.73	130	74.83	23.90	5.22	30	23.90	43	58.1	2	1.25	>10000		1.173	18	58.3	6	1.98	4,870	130	0.990	19	58.6	3	1.83	3,960	167	0.324	combined w/ HSVE-11	63.1	770	0.321			
3/25/22 8:00 AM	24.0	38.22	14.50	60	38.22	97.03	22.20	93	97.03	46.10	22.20	93	46.10	28	56.8	2	0.33	1,900	70	0.693	18	54.8	6	2.03	4,000	168	0.568	20	52.4	2	1.81	4,200	158	0.240	combined w/ HSVE-11	53.1	645	0.187			
3/28/22 1:00 PM	77.0	55.95	17.73	23	55.95	171.77	74.74	97	171.77	120.83	74.73	97	120.83	18	FROZEN	1	0.36	FROZEN	72	0.112	18	51.1	5	2.04	4,400	170	0.579	20	45.9	3	1.90	4,000	162	0.315	combined w/ HSVE-11	49.5	620	0.145			
3/31/22 8:00 AM	67.0	121.88	65.93	98	121.88	237.68	65.91	98	237.68	186.75	65.92	98	186.75	20	57.0	2	0.30	1,900	70	0.636	18	55.0	6	2.03	4,280	169	0.335	20	55.1	2	1.93	4,000	164	0.053	combined w/ HSVE-11	57.7	750	0.120			
4/4/22 4:00 PM	104.0	195.38	73.50	71	195.38	340.03	102.35	98	340.03	289.12	102.37	98	289.12	8	72.0	0	0.35	NM	72	0.628	11	86.0	5	2.06	NM	168	0.668	11	82.0	3	1.88	NM	163	0.362	combined w/ HSVE-11						
4/15/22 7:30 AM	255.5	265.13	69.75	27	265.13	599.38	259.35	102	599.38	548.45	259.33	101	548.45	Off	65.0	0	0.02	NM	13	NM	10	90.0	5	2.14	NM	173	1.459	9	86.0	1	2.02	NM	166	1.053	combined w/ HSVE-11						
4/15/22 7:30 AM	0.0	267.73	2.60	27	267.73	601.93	2.55	102	601.93	551.00	2.55	101	551.00	8	86.0	1	0.37	NM	74	0.726	11	94.0	6	2.06	NM	73	1.456	12	90.0	2	1.97	NM	164	1.043	combined w/ HSVE-11						
4/21/22 8:00 AM	144.5	311.57	43.84	30	311.57	690.58	88.65	61	690.58	639.50	88.50	61	639.50	6	76.0	0	0.06	NM	27	0.438	10	88.0	6	2.15	NM	173	0.498	10	87.0	2	2.00	NM	167	0.165	combined w/ HSVE-11						
5/11/22 1:00 PM	485.0	794.47	482.90	100	794.47	1173.48	482.90	100	1173.48	1122.40	482.90	100	1122.40	0.2	95.0	0.0	0.164	NM	48	0.030	0.1	102.0	4	2.075	NM	170	0.026	0.1	106.0	3	1.82	NM	159	0.027	combined w/ HSVE-11						
6/13/22 11:30 AM	790.5	1184.12	389.65	49	1184.12	1964.77	791.29	100	1964.77	1913.68	791.28	100	1913.68	6.0	88.0	0.0	0.161	NM	47	1.996	8.0	104.0	6	2.020	NM	168	2.211	8.0	108.0	3	1.81	NM	160	1.919	combined w/ HSVE-11						
7/15/22 8:00 AM	764.5	1729.73	545.61	71	1729.73	2729.85	765.08	100	2729.85	2678.77	765.09	100	2678.77	6.0	82.0	0.0	0.070	NM	32	2.100	31.0	104.0	6	2.020	NM	167	1.107	36.0	110.0	2	1.80	NM	160	0.545	combined w/ HSVE-11						
Total	2784.0		Percent Operating		62.1%		Percent Operating		98.1%		Percent Operating		96.2%					Average	59.7					Average	158.8					Average	162.4										

Notes:

1: Data from SVE Sample Port Readings identified as influent (stub-up) through 3/31/22. Then data is from sample port readings identified as pre-blower

2: Data from SVE Sample Port Readings

3: Data from SVE Sample Port Readings

4: Data from Well Head 3/21/22 through 3/31/22. Data from Stub-up 4/4/22 and after.

5: Data from Wellhead Readings

6: Transducer readings

7. Effluent sample concentration shown here is limited to the sum of the total CVOCs detected in the air sample (*cis*-1,2-DCE, *trans*-1,2-DCE, TCE, and PCE).

2. BID measures total VOCs. VOC meter specifications use a VOC molecular weight (MW) of 78.0516 g/mol. (Note: between VOCs MW and TCE MW (121.4 g/mol) = 0.6008. Use this to convert between BID VOC (ppm) to concentration of TCE

0. Max. Data is based on the AERSCREEN modeling input conditions used in the 100% Design (520 ug/m³ and a max. TCE detection at the site of 1,600 ug/m³).

9. Max Rate is based on the following:

Abbreviations & Notes:

hr - hour PID - Photoionization Detector PID - Photoionization Detector

deg F - degrees lb - pounds lb - pounds

in H2O - inch; NM - Not Measured NM - Not Measured

scfm - standard acfm - a

 $\frac{1}{2} \log 2$ and $\frac{1}{2} \log 3$ respectively.

cis-1,2-DCE = cis-1,2-dichloroethylene

Trans-1,2-DCE - trans-1

TCE - trichloroethylene

TABLE 1 - BLOWER INFLUENT AND EFFLUENT DATA
Canada Dry Site #704050 - 2 and 7 Badger Ave, Endicott, New York

Monitor Date	Effluent - Blower 1 (HSVE-09) ²			Effluent - Blower 2 (HSVE-10) ²			Effluent - Blower 3 (HSVE-11 and SVE-05) ²			Total Effluent ³														Total CVOC Removal (PID Data)			Total CVOC Removal (LAB Data)			COMMENTS	
	Vacuum	Temp	PID	Vacuum	Temp	PID	Vacuum	Temp	PID	VOC's PID	VOC Conversion PID to TCE ⁸	Effluent Sample sent to Lab ⁷	Magnehelic	Temp	Field Measured Airflow	Calculated Flow	Calculated Flow	Transducer Flow Check (Sum of Influent Blower Flow)	% Differ. b/w Calc. Flow (scfm) and Transducer Flow	Hours Run Time (Max of 3 blowers)	Conc. w/ PID Data	Conc. w/ Lab Data	Maximum Allowable Discharge Rate	Meets Compliance	Rate	Mass	Cumulative	Rate	Mass		Cumulative
in H2O	(deg F)	ppm	in H2O	(deg F)	ppm	in H2O	(deg F)	ppm	ppm	µg/m3	µg/m3	in H2O	(deg F)	fpm	acfm	scfm	scfm	scfm	%	hrs	lb/scf	lbs/scf	lbs/hr ⁹	Y/N	(lb/hr)	(lb)	(lb)	(lb/hr)	(lb)	(lb)	
3/21/22 8:00 AM	NM	NM	NM	NM	NM	NM	NM	NM	NM				NM	NM	NM	NM	NM	NM	NM	0.00			0.00896		0.00000	0.000	0.000			0.00	System Turned on. Blowers 1 and 3 left off at end of day. Alarms not functioning as designed. PLC code upgrades need to be completed. Access to telemetry/ remote connection needs to be provided.
3/22/22 8:00 AM	13.0	104	2.335	14.0	94	1.977	14.0	90	1.335	2.418	7807.33		7.0	95.4	2,200	191.99	183.0	462.0	60.4	29.47	4.84E-07		0.00896	N	0.01342	0.400	0.400				Blowers 1 and 3 turned on at start of day, but shut-off prior to departure due to PLC code issues and telemetry.
3/23/22 2:30 PM	13.0	102	2.545	15.0	91	2.295	15.0	89	1.496	1.752	5656.93		7.1	93.7	7,200	628.32	600.7	327.0	-83.7	52.10	3.51E-07		0.00896	Y	0.00688	0.160	0.560				Blowers 1 and 3 turned on at start of day, but shut-off prior to departure due to PLC code issues and telemetry.
3/24/22 8:00 AM	12.0	104	1.793	14.0	94	1.658	14.0	90	0.943	1.412	4559.12	1420.02	7.1	95.0	6,000	523.60	499.4	297.0	-68.2	74.83	2.83E-07	8.80E-08	0.00896	Y	0.00504	0.110	0.670	0.00157	0.12	0.12	Blowers 1 and 3 turned on at start of day. Fixed PLC issue and obtained remote entry log-in. Critical equipment checked. Collected effluent sample. All blowers on at end of day.
3/25/22 8:00 AM	8.0	NM	1.320	12.0	NM	1.250	11.0	NM	0.920	1.190	3842.32		5.5	89.9	4,500	392.70	378.0	396.0	4.5	97.03	2.38E-07		0.00896	Y	0.00566	0.130	0.800				Blower 1 (SVE-1) off upon arrival. SVE-1 system recovering high volumes of water and the VLS high level alarm shut system down overnight.
3/28/22 1:00 PM	8.0	NM	0.932	12.0	NM	1.345	11.0	NM	0.637	1.026	3312.79		5.5	86.1	5,550	484.33	469.5	404.0	-16.2	171.77	2.05E-07		0.00896	Y	0.00498	0.370	1.170				Blower 1 off upon arrival due to VLS Tank High Level Alarm (sent out Saturday 3/26/22). Restart Blower 1. Adjust VFD for blower 1 to 27 amps and Low Vacuum Alarm setpoint to 15 inch water column. Annrox. 90 gal of liquid in 55-gal drums from VLS tank.
3/31/22 8:00 AM	8.0	NM	0.968	11.0	NM	0.773	12.0	NM	0.433	0.618	1995.42		5.2	86.2	5,300	462.51	448.3	403.0	-11.2	237.68	1.24E-07		0.00896	Y	0.00299	0.200	1.370				Blower 1 was off upon arrival due to VLS Tank High Level Alarm received on 4/3/2022. Restart blower 1.
4/4/22 4:00 PM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0.625	2018.02		5.4	83.5	5,400	471.24	459.0	403.0	-13.9	340.03	1.25E-07		0.00896	Y	0.00303	0.310	1.680				
4/15/22 7:30 AM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1.255	4052.19		4.0	87.5	4400	383.97	371.3	352.0	-5.5	599.38	2.51E-07		0.00896	Y			1.680				Blower 1 off upon arrival due to SVE#1 VLS Tank High Level Alarm received April 7, 2022. Collected measurements while blower 1 was off.
4/15/22 7:30 AM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1.604	5179.06	342.0	5.6	90.8	5660	493.93	474.7	311.0	-52.6	601.93	3.21E-07	2.12E-08	0.00896	Y	0.00599	0.020	1.700	0.00040	0.21	0.33	Collected measurements after blower 1 turned back on.
4/21/22 8:00 AM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0.326	1052.60		4.8	84.5	5100	445.06	432.7	367.0	-17.9		690.58	6.53E-08		0.00896	Y	0.00144	0.130	1.830			
5/11/22 1:00 PM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0.130	419.75	730.7	0.6	108.0	8640	753.98	702.7	377.0	-86.4	1173.48	2.60E-08	4.53E-08	0.00896	Y	0.00059	0.280	2.110	0.00102	0.59	1.04	Collected effluent sample.
6/13/22 11:30 AM	NM	NM	NM	NM	NM	NM	NM	NM	NM	2.558	8259.37	190.2	4.8	104.1	3930	342.96	321.8	375.0	14.2	1964.77	5.12E-07	1.18E-08	0.00896	Y	0.01152	9.120	11.230	0.00027	0.21	1.70	Collected effluent sample and samples from the HSVE-09, HSVE-10, and HSVE-11 sample ports.
7/15/22 8:00 AM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1.238	3997.30	31.9	5.1	103.0	5000	436.33	410.3	359.0	-14.3	2729.85	2.48E-07	1.98E-09	0.00896	Y	0.00534	4.080	15.310	0.00004	0.03	3.22	Collected effluent sample.
Total																															

TABLE 2 - WELL HEAD DATA
Canada Dry Site #704050 - 2 and 7 Badger Ave, Endicott, New York

TABLE 1

Well ID Well Diameter Well Depth Screened Interval	HSVE-09 ⁴				HSVE-10 ⁴				HSVE-11 ⁴				SVE-05 ¹				SVE-01 ⁵			SVE-02 ⁵			SVE-03 ⁵			SVE-04 ⁵			SVE-07 ⁵			SVE-08 ⁵			HRP-MW-02 ⁵			HRP-MW-05 ⁵									
	3 inches 115 feet length 35 to 105 feet				3 inches 165 feet length 30 to 100 feet				3 inches 145 feet length 20 to 110 feet				4 inches 11 feet 5 to 10.5 feet				2 inches 15 feet 5 to 15 feet			2 inches 15 feet 5 to 15 feet			2 inches 5 feet 2.5 to 5 feet			2 inches 15 feet 5 to 15 feet			4 inches 15 feet 5 to 15 feet			4 inches 15 feet 5 to 15 feet			2 inches			2 inches									
Monitor Date	Vacuum	Temp	Airflow	PID	Vacuum	Temp	Airflow	PID	Vacuum	Temp	Airflow	PID	Vacuum	Temp	Airflow	PID	Vacuum	DTW	PID	Vacuum	DTW	PID	Vacuum	DTW	PID	Vacuum	DTW	PID	Vacuum	DTW	PID	Vacuum	DTW	PID	Vacuum	DTW	PID	Vacuum	DTW	PID	Vacuum	DTW	PID				
	in H2O	(deg F)	fpm	ppm	in H2O	(deg F)	fpm	ppm	in H2O	(deg F)	fpm	ppm	in H2O	(deg F)	fpm	ppm	in H2O	ft bgs	ppm	in H2O	ft bgs	ppm	in H2O	ft bgs	ppm	in H2O	ft bgs	ppm	in H2O	ft bgs	ppm	in H2O	ft bgs	ppm	in H2O	ft bgs	ppm	in H2O	ft bgs	ppm	in H2O	ft bgs	ppm				
3/21/22 8:00 AM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0.25	NM	NM	NM	NM	NM	NM	NM	NM	0.47	NM	NM	0.09	NM	NM	0.08	NM	NM	NM	NM					
3/22/22 8:00 AM	NM	NM	NM	1.171	NM	NM	NM	1.220	NM	NM	NM	0.530	NM	NM	NM	0.418	NM	13.44	0.000	NM	13.34	0.027	0.28	Dry	0.477	NM	12.94	0.566	NM	13.18	0.730	0.37	13.55	0.577	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM			
3/23/22 2:30 PM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	13.44	0.863	NM	13.33	0.846	NM	Dry	0.937	NM	12.95	0.847	NM	13.43	0.352	NM	13.55	0.339	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM			
3/24/22 8:00 AM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	13.42	0.706	NM	13.33	0.599	NM	Dry	0.543	NM	12.9	0.859	NM	13.4	0.968	NM	13.5	1.077	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM			
3/25/22 8:00 AM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	13.39	1.030	NM	13.31	0.779	NM	Dry	0.761	NM	12.9	0.774	NM	13.4	0.725	NM	13.5	0.685	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM			
3/28/22 1:00 PM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	13.40	0.080	NM	13.29	0.096	NM	Dry	0.114	NM	12.89	0.137	NM	13.38	0.140	NM	13.48	0.051	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM			
3/31/22 8:00 AM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0.80	13.39	0.748	0.70	13.29	1.213	0.30	Dry	0.804	0.60	12.90	0.664	0.80	13.39	1.008	0.40	13.48	0.742	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM			
4/4/22 4:00 PM	20	57.1	1,810	0.458	18	54.3	4,400	0.360	20	52.6	3,930	0.141	20	55.20	1,640	0.121	0.75	13.41	0.431	0.75	13.31	0.322	0.20	Dry	0.364	0.55	12.91	0.410	0.70	13.38	0.415	0.40	13.47	0.420	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM			
4/15/22 7:30 AM	Off	65.4	74	1.730	18	61.9	4,400	0.841	21	61.0	4,100	0.487	Combined w/HSVE-1	65.50	775	0.528	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4/15/22 7:30 AM	18	68.6	2,480	1.135	18	64.5	4,490	1.302	21	64.5	4,260	0.563	Combined w/HSVE-1	68.90	850	0.553	0.90	13.06	0.725	0.85	12.95	0.556	0.25	Dry	0.523	0.65	12.56	0.491	0.90	13.01	0.721	0.50	13.09	0.822	0.05	NM	NM	0.05	NM	NM	0.05	NM	NM	NM	NM	NM	
4/21/22 8:00 AM	18	59.1	900	0.105	19	58.0	4,530	0.097	21	58.5	4,200	0.090	Combined w/HSVE-1	65.30	970	0.065	0.95	12.77	0.124	1.00	12.66	0.089	0.25	Dry	0.091	0.70	12.26	0.097	0.95	12.73	0.143	0.55	12.90	0.152	0.05	NM	NM	0.05	NM	NM	0.05	NM	NM	NM	NM	NM	
5/11/22 1:00 PM	19	84.0	1,840	0.712	NM	83.0	8,640	0.527	NM	84.6	7,490	0.430	NM	86.20	1,260	0.392	0.80	13.01	0.390	0.85	12.89	0.290	0.15	Dry	0.258	0.55	12.48	0.278	0.75	12.93	0.353	0.45	13.02	0.400	0.05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		
6/13/22 11:30 AM	12	82.9	1,310	1.076	18	82.7	4,250	1.006	20	81.6	3,800	0.106	Combined w/HSVE-1	85.50	880	0.391	0.85	13.40	0.027	0.80	13.29	0.006	0.20	Dry	0.013	0.65	12.92	0.011	Not Sampled - Concrete barrier on top of well			0.50	13.43	0.005	0.05	NM	NM	0.10	NM	NM	NM	NM	NM	NM			
7/15/22 8:00 AM	6	78.7	840	2.142	18	78.1	4,300	1.295	20	78.6	3,750	0.296	Combined w/HSVE-1	84.40	820	0.656	0.70	13.98	0.000	Not Sampled - Bottles and cans on top			0.15	Dry	0.000	0.60	13.53	0.000	Not Sampled - Concrete barrier on top of well			0.35	14.08	0.000	0.05	NM	NM	0.05	NM	NM	NM	NM	NM	NM			

Notes:
1: Data from SVE Sample Port Readings identified as influent (stub-up) through 3/31/22. Then data is from sample port readings identified as pre-blow
2: Data from SVE Sample Port Readings
3: Data from SVE Sample Port Readings
4: Data from Well Head 3/21/22 through 3/31/22. Data from Stub-up 4/4/22 and after.
5: Data from Wellhead Readings
6: Transducer reading
7. Effluent sample concentration shown here is limited to the sum of the total CVOCs detected in the air sample (cis-1,2-DCE, trans-1,2-DCE, TCE, and PCE).
8. PID measures total VOCs. VOC meter specifications use a VOC molecular weight (MW) of 78.9516 g/mol. Ratio between VOCs MW and TCE MW (131.4 g/mol) = 0.6008. Use this to convert between PID VOC (ppm) to concentration of TCE.
9. Max Rate is based on the AERSCREEN modeling input conditions used in the 100% Design (520 scfm and a max TCE detection at the site of 4,600 ug/m3).
Abbreviations & Notes:
hr - hour
deg F - degrees Fahrenheit
in H2O - inches of water
scfm - standard cubic feet per minute
ppm - part per million

TABLE 3
EFFLUENT ANALYTICAL SAMPLES
Canada Dry Site #704050 - 2 and 7 Badger Ave, Endicott, New York

Sample ID	SVESYSTEMOUT LET-032422	SVESYSTEMOUT LET-041522	SVE SYSTEM OUTLET 05022022	SVE SYSTEM OUTLET 06132022	HSVE-09 SAMPLE PORT 06132022	HSVE-10 SAMPLE PORT 06132023	HSVE-11 SAMPLE PORT 06132024	SVE SYSTEM OUTLET 07152022	
Lab Sample Number	410-77646-1	410-80448-1	22E0860-01	22F0926-01	22E0860-01	22E0860-01	22E0860-01	22G0930-01	
Sampling Date	03/24/2022	04/15/2022	5/11/2022	6/13/2022	5/11/2022	5/11/2022	5/11/2022	7/15/2022	
Matrix	Air	Air	Air	Air	Air	Air	Air	Air	
Units	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	
Air - GC/MS VOA - TO-15	CAS#	Result	Result	Result	Result	Result	Result	Result	
1,1,1-Trichloroethane	71-55-6	2.2	J ND	10	1.6	1.1	2.4	4.4	ND
1,2,4-Trimethylbenzene	95-63-6	2.5	J ND	ND	0.97	3	3.1	3	ND
1,3,5-Trimethylbenzene	108-67-8	ND	ND	1.3	ND	0.67	0.74	0.76	ND
1,4-Dichlorobenzene	106-46-7	ND	ND	ND	0.7	ND	ND	ND	ND
2-Butanone	78-93-3	610	460	110	110	ND	ND	26	ND
4-Ethyltoluene	622-96-8	ND	ND	ND	ND	ND	0.51	ND	ND
4-Methyl-2-pentanone	108-10-1	1.4	J ND	ND	ND	ND	ND	ND	ND
Acetone	67-64-1	1200	580	76	73	31	ND	25	20
Benzene	71-43-2	0.68	J ND	ND	0.43	ND	0.42	1.1	ND
Chlorodifluoromethane	75-45-6	0.70	J ND	ND	not analyzed	not analyzed	not analyzed	not analyzed	not analyzed
Chloroform	67-66-3	1.4	J ND	5.4	0.9	1.5	2	1.3	ND
Chloromethane	74-87-3	0.59	J ND	ND	0.47	ND	0.97	ND	ND
cis-1,2-Dichloroethene	156-59-2	10	ND	7.8	7.9	5.7	15	23	ND
Cumene	98-82-8	1.7	J ND	ND	not analyzed	not analyzed	not analyzed	not analyzed	not analyzed
Dichlorodifluoromethane	75-71-8	2.2	J ND	2.6	3.6	3.6	3.7	3.9	1.6
Ethanol	64-17-5	ND	ND	48	290	24	11	33	30
Ethylbenzene	100-41-4	2.8	J ND	3.3	0.89	0.63	0.91	1.7	ND
Heptane	142-82-5	ND	ND	ND	ND	ND	ND	1.9	ND
m&p-Xylene	179001-23-1	13	24	J 12	3	2.4	3.1	6.8	ND
o-Xylene	95-47-6	7.5	17	J 8.9	1.6	1.6	2.4	4.3	ND
Naphthalene	91-20-3	ND	ND	1.3	0.79	0.57	ND	ND	ND
Pentane	109-66-0	3.6	32	J ND	not analyzed	not analyzed	not analyzed	not analyzed	not analyzed
Styrene	100-42-5	1.0	J ND	ND	ND	ND	0.49	ND	ND
Tetrachloroethene (PCE)	127-18-4	9.2	J 52	J 12	1.2	13	17	6.3	1.9
Tetrahydrofuran	109-99-9	ND	ND	430	320	32	33	93	28
Toluene	108-88-3	2.3	J ND	3.4	1.6	0.62	0.9	2	ND
trans-1,2-Dichloroethene	156-60-5	0.82	J ND	0.94	0.63	0.79	1.8	0.55	ND
Trichloroethene (TCE)	79-01-6	1400	290	710	180	1300	1400	260	30
Trichlorofluoromethane	75-69-4	1.7	J ND	ND	2.3	ND	ND	3.5	ND
Vinyl Chloride	75-01-4	ND	ND	ND	0.44	ND	ND	1.1	ND
Total CVOC detections		1,420.02	342.00	730.74	190.17	1,319.49	1,433.80	290.95	31.90
Percentage by Dominant Compound									
Percent PCE		0.7	15.2	1.6	0.6	1.0	1.2	2.2	6.0
Percent TCE		98.6	84.8	97.2	94.7	98.5	97.6	89.4	94.0
Percent VC		0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.0
Percent cis-1,2-DCE		0.7	0.0	1.1	4.2	0.4	1.1	7.9	0.0
Percent trans-1,2-DCE		0.1	0.0	0.1	0.3	0.1	0.1	0.2	0.0
Total		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Notes:

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

µg/m³: microgram per cubic meter

Data is not validated

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-77646-1

Client Project/Site: NYSDEC FORMER CANADA DRY PLANT

For:

Parsons Corporation
301 Plainfield Road
Suite 350
Syracuse, New York 13212

Attn: Ms. Heather Budzich



Authorized for release by:
4/4/2022 10:46:07 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
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- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

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Megan Moeller
Client Services Manager
4/4/2022 10:46:07 PM

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Definitions/Glossary

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-77646-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-77646-1

Job ID: 410-77646-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-77646-1

Receipt

The sample was received on 3/25/2022 10:36 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

The laboratory received summa can ID 958 and flow controller ID 339163, which were not listed on the COC.

Sample container received unlabeled.

SVESYSTEMOUTLET-032422 (410-77646-1)

Air - GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-77646-1

Client Sample ID: SVESYSTEMOUTLET-032422

Lab Sample ID: 410-77646-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.2	J	5.5	0.65	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.5	J	9.8	1.4	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone	1.4	J	4.1	0.61	ug/m3	1		TO-15	Total/NA
Benzene	0.68	J	3.2	0.35	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	0.70	J	3.5	0.53	ug/m3	1		TO-15	Total/NA
Chloroform	1.4	J	4.9	0.45	ug/m3	1		TO-15	Total/NA
Chloromethane	0.59	J	2.1	0.50	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	10		4.0	0.79	ug/m3	1		TO-15	Total/NA
Cumene	1.7	J	4.9	1.2	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2	J	4.9	0.64	ug/m3	1		TO-15	Total/NA
Ethylbenzene	2.8	J	4.3	0.83	ug/m3	1		TO-15	Total/NA
m&p-Xylene	13		4.3	1.1	ug/m3	1		TO-15	Total/NA
o-Xylene	7.5		4.3	0.83	ug/m3	1		TO-15	Total/NA
Pentane	3.6		3.0	0.59	ug/m3	1		TO-15	Total/NA
Styrene	1.0	J	4.3	0.85	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	9.2	J	14	1.7	ug/m3	1		TO-15	Total/NA
Toluene	2.3	J	3.8	0.45	ug/m3	1		TO-15	Total/NA
trans-1,2-Dichloroethene	0.82	J	4.0	0.79	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.7	J	5.6	0.84	ug/m3	1		TO-15	Total/NA
2-Butanone - DL	610		59	12	ug/m3	20		TO-15	Total/NA
Acetone - DL	1200		240	25	ug/m3	20		TO-15	Total/NA
Trichloroethene - DL	1400		110	19	ug/m3	20		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-77646-1

Client Sample ID: SVESYSTEMOUTLET-032422

Lab Sample ID: 410-77646-1

Date Collected: 03/24/22 15:00

Matrix: Air

Date Received: 03/25/22 10:36

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		6.9	1.0	ug/m3			03/31/22 05:07	1
1,1,1-Trichloroethane	2.2	J	5.5	0.65	ug/m3			03/31/22 05:07	1
1,1,2,2-Tetrachloroethane	ND		6.9	1.0	ug/m3			03/31/22 05:07	1
1,1,2-Trichloroethane	ND		5.5	0.65	ug/m3			03/31/22 05:07	1
1,1-Dichloroethane	ND		4.0	0.36	ug/m3			03/31/22 05:07	1
1,1-Dichloroethene	ND		4.0	0.56	ug/m3			03/31/22 05:07	1
1,2,3-Trichloropropane	ND		6.0	0.84	ug/m3			03/31/22 05:07	1
1,2,4-Trimethylbenzene	2.5	J	9.8	1.4	ug/m3			03/31/22 05:07	1
1,2-Dibromoethane	ND		7.7	1.0	ug/m3			03/31/22 05:07	1
1,2-Dichlorobenzene	ND		6.0	1.2	ug/m3			03/31/22 05:07	1
1,2-Dichloroethane	ND		4.0	0.32	ug/m3			03/31/22 05:07	1
1,2-Dichloropropane	ND		4.6	0.60	ug/m3			03/31/22 05:07	1
1,3,5-Trimethylbenzene	ND		9.8	1.6	ug/m3			03/31/22 05:07	1
1,3-Butadiene	ND		2.2	0.38	ug/m3			03/31/22 05:07	1
1,3-Dichlorobenzene	ND		6.0	1.8	ug/m3			03/31/22 05:07	1
1,4-Dichlorobenzene	ND		6.0	1.8	ug/m3			03/31/22 05:07	1
2-Hexanone	ND		4.1	0.74	ug/m3			03/31/22 05:07	1
3-Chloroprene	ND		3.1	0.63	ug/m3			03/31/22 05:07	1
4-Ethyltoluene	ND		4.9	0.88	ug/m3			03/31/22 05:07	1
4-Methyl-2-pentanone	1.4	J	4.1	0.61	ug/m3			03/31/22 05:07	1
Benzene	0.68	J	3.2	0.35	ug/m3			03/31/22 05:07	1
Bromobenzene	ND		6.4	1.3	ug/m3			03/31/22 05:07	1
Bromodichloromethane	ND		6.7	0.80	ug/m3			03/31/22 05:07	1
Bromoform	ND		10	1.8	ug/m3			03/31/22 05:07	1
Bromomethane	ND		3.9	0.78	ug/m3			03/31/22 05:07	1
Carbon disulfide	ND		3.1	0.40	ug/m3			03/31/22 05:07	1
Carbon tetrachloride	ND		6.3	0.88	ug/m3			03/31/22 05:07	1
Chlorobenzene	ND		4.6	0.60	ug/m3			03/31/22 05:07	1
Chlorodifluoromethane	0.70	J	3.5	0.53	ug/m3			03/31/22 05:07	1
Chloroethane	ND		2.6	0.79	ug/m3			03/31/22 05:07	1
Chloroform	1.4	J	4.9	0.45	ug/m3			03/31/22 05:07	1
Chloromethane	0.59	J	2.1	0.50	ug/m3			03/31/22 05:07	1
cis-1,2-Dichloroethene	10		4.0	0.79	ug/m3			03/31/22 05:07	1
cis-1,3-Dichloropropene	ND		4.5	0.45	ug/m3			03/31/22 05:07	1
Cumene	1.7	J	4.9	1.2	ug/m3			03/31/22 05:07	1
Dibromochloromethane	ND		8.5	1.1	ug/m3			03/31/22 05:07	1
Dibromomethane	ND		7.1	1.0	ug/m3			03/31/22 05:07	1
Dichlorodifluoromethane	2.2	J	4.9	0.64	ug/m3			03/31/22 05:07	1
Dichlorofluoromethane	ND		4.2	0.46	ug/m3			03/31/22 05:07	1
Ethylbenzene	2.8	J	4.3	0.83	ug/m3			03/31/22 05:07	1
Freon 113	ND		7.7	1.5	ug/m3			03/31/22 05:07	1
Freon-114	ND		7.0	0.84	ug/m3			03/31/22 05:07	1
Heptane	ND		4.1	0.94	ug/m3			03/31/22 05:07	1
Hexachloroethane	ND		19	2.6	ug/m3			03/31/22 05:07	1
Hexane	ND		3.5	1.1	ug/m3			03/31/22 05:07	1
Isooctane	ND		4.7	0.93	ug/m3			03/31/22 05:07	1
m&p-Xylene	13		4.3	1.1	ug/m3			03/31/22 05:07	1
Methyl t-butyl ether	ND		3.6	0.54	ug/m3			03/31/22 05:07	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-77646-1

Client Sample ID: SVESYSTEMOUTLET-032422

Lab Sample ID: 410-77646-1

Date Collected: 03/24/22 15:00

Matrix: Air

Date Received: 03/25/22 10:36

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		6.9	0.87	ug/m3			03/31/22 05:07	1
o-Xylene	7.5		4.3	0.83	ug/m3			03/31/22 05:07	1
Octane	ND		9.3	1.9	ug/m3			03/31/22 05:07	1
Pentane	3.6		3.0	0.59	ug/m3			03/31/22 05:07	1
Styrene	1.0	J	4.3	0.85	ug/m3			03/31/22 05:07	1
Tetrachloroethene	9.2	J	14	1.7	ug/m3			03/31/22 05:07	1
Toluene	2.3	J	3.8	0.45	ug/m3			03/31/22 05:07	1
trans-1,2-Dichloroethene	0.82	J	4.0	0.79	ug/m3			03/31/22 05:07	1
trans-1,3-Dichloropropene	ND		4.5	0.54	ug/m3			03/31/22 05:07	1
Trichlorofluoromethane	1.7	J	5.6	0.84	ug/m3			03/31/22 05:07	1
Vinyl chloride	ND		2.6	0.31	ug/m3			03/31/22 05:07	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	610		59	12	ug/m3			03/31/22 11:59	20
Acetone	1200		240	25	ug/m3			03/31/22 11:59	20
Trichloroethene	1400		110	19	ug/m3			03/31/22 11:59	20

QC Sample Results

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-77646-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 410-239316/7

Matrix: Air

Analysis Batch: 239316

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		6.9	1.0	ug/m3			03/30/22 20:56	1
1,1,1-Trichloroethane	ND		5.5	0.65	ug/m3			03/30/22 20:56	1
1,1,2,2-Tetrachloroethane	ND		6.9	1.0	ug/m3			03/30/22 20:56	1
1,1,2-Trichloroethane	ND		5.5	0.65	ug/m3			03/30/22 20:56	1
1,1-Dichloroethane	ND		4.0	0.36	ug/m3			03/30/22 20:56	1
1,1-Dichloroethene	ND		4.0	0.56	ug/m3			03/30/22 20:56	1
1,2,3-Trichloropropane	ND		6.0	0.84	ug/m3			03/30/22 20:56	1
1,2,4-Trimethylbenzene	ND		9.8	1.4	ug/m3			03/30/22 20:56	1
1,2-Dibromoethane	ND		7.7	1.0	ug/m3			03/30/22 20:56	1
1,2-Dichlorobenzene	ND		6.0	1.2	ug/m3			03/30/22 20:56	1
1,2-Dichloroethane	ND		4.0	0.32	ug/m3			03/30/22 20:56	1
1,2-Dichloropropane	ND		4.6	0.60	ug/m3			03/30/22 20:56	1
1,3,5-Trimethylbenzene	ND		9.8	1.6	ug/m3			03/30/22 20:56	1
1,3-Butadiene	ND		2.2	0.38	ug/m3			03/30/22 20:56	1
1,3-Dichlorobenzene	ND		6.0	1.8	ug/m3			03/30/22 20:56	1
1,4-Dichlorobenzene	ND		6.0	1.8	ug/m3			03/30/22 20:56	1
2-Butanone	ND		2.9	0.62	ug/m3			03/30/22 20:56	1
2-Hexanone	ND		4.1	0.74	ug/m3			03/30/22 20:56	1
3-Chloroprene	ND		3.1	0.63	ug/m3			03/30/22 20:56	1
4-Ethyltoluene	ND		4.9	0.88	ug/m3			03/30/22 20:56	1
4-Methyl-2-pentanone	ND		4.1	0.61	ug/m3			03/30/22 20:56	1
Acetone	ND		12	1.3	ug/m3			03/30/22 20:56	1
Benzene	ND		3.2	0.35	ug/m3			03/30/22 20:56	1
Bromobenzene	ND		6.4	1.3	ug/m3			03/30/22 20:56	1
Bromodichloromethane	ND		6.7	0.80	ug/m3			03/30/22 20:56	1
Bromoform	ND		10	1.8	ug/m3			03/30/22 20:56	1
Bromomethane	ND		3.9	0.78	ug/m3			03/30/22 20:56	1
Carbon disulfide	ND		3.1	0.40	ug/m3			03/30/22 20:56	1
Carbon tetrachloride	ND		6.3	0.88	ug/m3			03/30/22 20:56	1
Chlorobenzene	ND		4.6	0.60	ug/m3			03/30/22 20:56	1
Chlorodifluoromethane	ND		3.5	0.53	ug/m3			03/30/22 20:56	1
Chloroethane	ND		2.6	0.79	ug/m3			03/30/22 20:56	1
Chloroform	ND		4.9	0.45	ug/m3			03/30/22 20:56	1
Chloromethane	ND		2.1	0.50	ug/m3			03/30/22 20:56	1
cis-1,2-Dichloroethene	ND		4.0	0.79	ug/m3			03/30/22 20:56	1
cis-1,3-Dichloropropene	ND		4.5	0.45	ug/m3			03/30/22 20:56	1
Cumene	ND		4.9	1.2	ug/m3			03/30/22 20:56	1
Dibromochloromethane	ND		8.5	1.1	ug/m3			03/30/22 20:56	1
Dibromomethane	ND		7.1	1.0	ug/m3			03/30/22 20:56	1
Dichlorodifluoromethane	ND		4.9	0.64	ug/m3			03/30/22 20:56	1
Dichlorofluoromethane	ND		4.2	0.46	ug/m3			03/30/22 20:56	1
Ethylbenzene	ND		4.3	0.83	ug/m3			03/30/22 20:56	1
Freon 113	ND		7.7	1.5	ug/m3			03/30/22 20:56	1
Freon-114	ND		7.0	0.84	ug/m3			03/30/22 20:56	1
Heptane	ND		4.1	0.94	ug/m3			03/30/22 20:56	1
Hexachloroethane	ND		19	2.6	ug/m3			03/30/22 20:56	1
Hexane	ND		3.5	1.1	ug/m3			03/30/22 20:56	1
Isooctane	ND		4.7	0.93	ug/m3			03/30/22 20:56	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-77646-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 410-239316/7

Matrix: Air

Analysis Batch: 239316

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m&p-Xylene	ND		4.3	1.1	ug/m3			03/30/22 20:56	1
Methyl t-butyl ether	ND		3.6	0.54	ug/m3			03/30/22 20:56	1
Methylene Chloride	ND		6.9	0.87	ug/m3			03/30/22 20:56	1
o-Xylene	ND		4.3	0.83	ug/m3			03/30/22 20:56	1
Octane	ND		9.3	1.9	ug/m3			03/30/22 20:56	1
Pentane	ND		3.0	0.59	ug/m3			03/30/22 20:56	1
Styrene	ND		4.3	0.85	ug/m3			03/30/22 20:56	1
Tetrachloroethene	ND		14	1.7	ug/m3			03/30/22 20:56	1
Toluene	ND		3.8	0.45	ug/m3			03/30/22 20:56	1
trans-1,2-Dichloroethene	ND		4.0	0.79	ug/m3			03/30/22 20:56	1
trans-1,3-Dichloropropene	ND		4.5	0.54	ug/m3			03/30/22 20:56	1
Trichloroethene	ND		5.4	0.97	ug/m3			03/30/22 20:56	1
Trichlorofluoromethane	ND		5.6	0.84	ug/m3			03/30/22 20:56	1
Vinyl chloride	ND		2.6	0.31	ug/m3			03/30/22 20:56	1

Lab Sample ID: LCS 410-239316/4

Matrix: Air

Analysis Batch: 239316

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	68.6	69.5		ug/m3		101	73 - 124
1,1,1-Trichloroethane	54.6	48.3		ug/m3		89	70 - 130
1,1,2,2-Tetrachloroethane	68.7	64.6		ug/m3		94	68 - 138
1,1,2-Trichloroethane	54.6	51.1		ug/m3		94	76 - 127
1,1-Dichloroethane	40.5	33.8		ug/m3		83	70 - 130
1,1-Dichloroethene	39.6	34.6		ug/m3		87	70 - 131
1,2,3-Trichloropropane	60.3	60.3		ug/m3		100	70 - 136
1,2,4-Trimethylbenzene	49.2	55.3		ug/m3		112	65 - 146
1,2-Dibromoethane	76.8	74.5		ug/m3		97	70 - 130
1,2-Dichlorobenzene	60.1	64.7		ug/m3		108	61 - 139
1,2-Dichloroethane	40.5	35.8		ug/m3		88	70 - 142
1,2-Dichloropropane	46.2	40.2		ug/m3		87	70 - 130
1,3,5-Trimethylbenzene	49.2	54.2		ug/m3		110	69 - 141
1,3-Butadiene	22.1	18.1		ug/m3		82	70 - 131
1,3-Dichlorobenzene	60.1	66.4		ug/m3		110	64 - 140
1,4-Dichlorobenzene	60.1	64.1		ug/m3		107	64 - 137
2-Butanone	29.5	24.7		ug/m3		84	70 - 130
2-Hexanone	41.0	35.9		ug/m3		88	63 - 144
3-Chloroprene	31.3	25.7		ug/m3		82	70 - 156
4-Ethyltoluene	49.2	53.8		ug/m3		109	69 - 139
4-Methyl-2-pentanone	41.0	35.4		ug/m3		86	68 - 133
Acetone	23.8	17.4		ug/m3		73	70 - 137
Benzene	31.9	28.1		ug/m3		88	70 - 130
Bromobenzene	64.2	66.9		ug/m3		104	70 - 130
Bromodichloromethane	67.0	60.9		ug/m3		91	75 - 134
Bromoform	103	110		ug/m3		107	60 - 139
Bromomethane	38.8	34.7		ug/m3		89	70 - 134
Carbon disulfide	31.1	26.4		ug/m3		85	70 - 130
Carbon tetrachloride	62.9	58.0		ug/m3		92	70 - 130

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-77646-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 410-239316/4

Matrix: Air

Analysis Batch: 239316

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	46.0	43.6		ug/m3		95	76 - 117
Chlorodifluoromethane	35.4	30.5		ug/m3		86	70 - 141
Chloroethane	26.4	20.2		ug/m3		77	70 - 131
Chloroform	48.8	41.9		ug/m3		86	70 - 130
Chloromethane	20.7	15.1		ug/m3		73	70 - 138
cis-1,2-Dichloroethene	39.6	33.6		ug/m3		85	70 - 130
cis-1,3-Dichloropropene	45.4	41.7		ug/m3		92	70 - 130
Cumene	49.2	53.2		ug/m3		108	70 - 131
Dibromochloromethane	85.2	86.0		ug/m3		101	74 - 131
Dibromomethane	71.1	72.2		ug/m3		102	70 - 130
Dichlorodifluoromethane	49.5	43.5		ug/m3		88	70 - 131
Dichlorofluoromethane	42.1	37.0		ug/m3		88	70 - 136
Ethylbenzene	43.4	42.6		ug/m3		98	70 - 130
Freon 113	76.6	67.4		ug/m3		88	70 - 130
Freon-114	69.9	60.2		ug/m3		86	70 - 130
Heptane	41.0	36.7		ug/m3		89	70 - 130
Hexachloroethane	96.8	119		ug/m3		123	38 - 163
Hexane	35.2	26.9		ug/m3		76	70 - 130
Isooctane	46.7	41.3		ug/m3		88	70 - 130
m&p-Xylene	43.4	43.1		ug/m3		99	78 - 119
Methyl t-butyl ether	36.1	31.3		ug/m3		87	70 - 130
Methylene Chloride	34.7	30.0		ug/m3		86	70 - 139
o-Xylene	43.4	43.5		ug/m3		100	70 - 130
Octane	46.7	40.0		ug/m3		86	70 - 130
Pentane	29.5	22.0		ug/m3		74	70 - 130
Styrene	42.6	45.4		ug/m3		107	70 - 133
Tetrachloroethene	67.8	64.7		ug/m3		95	70 - 130
Toluene	37.7	35.0		ug/m3		93	70 - 130
trans-1,2-Dichloroethene	39.6	34.1		ug/m3		86	70 - 130
trans-1,3-Dichloropropene	45.4	42.3		ug/m3		93	70 - 130
Trichloroethene	53.7	52.9		ug/m3		99	70 - 130
Trichlorofluoromethane	56.2	49.7		ug/m3		89	70 - 130
Vinyl chloride	25.6	22.2		ug/m3		87	70 - 135

Lab Sample ID: LCSD 410-239316/5

Matrix: Air

Analysis Batch: 239316

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	68.6	72.4		ug/m3		105	73 - 124	4	25
1,1,1-Trichloroethane	54.6	52.2		ug/m3		96	70 - 130	8	25
1,1,2,2-Tetrachloroethane	68.7	67.9		ug/m3		99	68 - 138	5	25
1,1,2-Trichloroethane	54.6	53.3		ug/m3		98	76 - 127	4	25
1,1-Dichloroethane	40.5	36.5		ug/m3		90	70 - 130	8	25
1,1-Dichloroethene	39.6	37.5		ug/m3		94	70 - 131	8	25
1,2,3-Trichloropropane	60.3	64.1		ug/m3		106	70 - 136	6	25
1,2,4-Trimethylbenzene	49.2	57.1		ug/m3		116	65 - 146	3	25
1,2-Dibromoethane	76.8	78.5		ug/m3		102	70 - 130	5	25
1,2-Dichlorobenzene	60.1	68.1		ug/m3		113	61 - 139	5	25

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-77646-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 410-239316/5

Matrix: Air

Analysis Batch: 239316

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	40.5	37.9		ug/m3		94	70 - 142	6	25
1,2-Dichloropropane	46.2	42.5		ug/m3		92	70 - 130	5	25
1,3,5-Trimethylbenzene	49.2	57.1		ug/m3		116	69 - 141	5	25
1,3-Butadiene	22.1	19.2		ug/m3		87	70 - 131	6	25
1,3-Dichlorobenzene	60.1	71.5		ug/m3		119	64 - 140	7	25
1,4-Dichlorobenzene	60.1	68.5		ug/m3		114	64 - 137	7	25
2-Butanone	29.5	26.6		ug/m3		90	70 - 130	8	25
2-Hexanone	41.0	38.0		ug/m3		93	63 - 144	6	25
3-Chloroprene	31.3	27.4		ug/m3		88	70 - 156	6	25
4-Ethyltoluene	49.2	55.7		ug/m3		113	69 - 139	3	25
4-Methyl-2-pentanone	41.0	37.9		ug/m3		93	68 - 133	7	25
Acetone	23.8	18.7		ug/m3		79	70 - 137	8	25
Benzene	31.9	29.6		ug/m3		93	70 - 130	5	25
Bromobenzene	64.2	71.6		ug/m3		111	70 - 130	7	25
Bromodichloromethane	67.0	64.5		ug/m3		96	75 - 134	6	25
Bromoform	103	116		ug/m3		112	60 - 139	5	25
Bromomethane	38.8	36.1		ug/m3		93	70 - 134	4	25
Carbon disulfide	31.1	28.4		ug/m3		91	70 - 130	7	25
Carbon tetrachloride	62.9	62.3		ug/m3		99	70 - 130	7	25
Chlorobenzene	46.0	46.2		ug/m3		100	76 - 117	6	25
Chlorodifluoromethane	35.4	31.9		ug/m3		90	70 - 141	4	25
Chloroethane	26.4	21.3		ug/m3		81	70 - 131	5	25
Chloroform	48.8	44.9		ug/m3		92	70 - 130	7	25
Chloromethane	20.7	15.8		ug/m3		77	70 - 138	5	25
cis-1,2-Dichloroethene	39.6	36.2		ug/m3		91	70 - 130	7	25
cis-1,3-Dichloropropene	45.4	44.4		ug/m3		98	70 - 130	6	25
Cumene	49.2	56.1		ug/m3		114	70 - 131	5	25
Dibromochloromethane	85.2	90.9		ug/m3		107	74 - 131	6	25
Dibromomethane	71.1	75.7		ug/m3		106	70 - 130	5	25
Dichlorodifluoromethane	49.5	46.2		ug/m3		93	70 - 131	6	25
Dichlorofluoromethane	42.1	39.6		ug/m3		94	70 - 136	7	25
Ethylbenzene	43.4	45.1		ug/m3		104	70 - 130	6	25
Freon 113	76.6	71.6		ug/m3		93	70 - 130	6	25
Freon-114	69.9	65.0		ug/m3		93	70 - 130	8	25
Heptane	41.0	38.5		ug/m3		94	70 - 130	5	25
Hexachloroethane	96.8	126		ug/m3		130	38 - 163	6	25
Hexane	35.2	28.8		ug/m3		82	70 - 130	7	25
Isooctane	46.7	42.5		ug/m3		91	70 - 130	3	25
m&p-Xylene	43.4	45.7		ug/m3		105	78 - 119	6	25
Methyl t-butyl ether	36.1	33.7		ug/m3		93	70 - 130	7	25
Methylene Chloride	34.7	32.3		ug/m3		93	70 - 139	7	25
o-Xylene	43.4	45.7		ug/m3		105	70 - 130	5	25
Octane	46.7	42.1		ug/m3		90	70 - 130	5	25
Pentane	29.5	23.6		ug/m3		80	70 - 130	7	25
Styrene	42.6	48.1		ug/m3		113	70 - 133	6	25
Tetrachloroethene	67.8	67.9		ug/m3		100	70 - 130	5	25
Toluene	37.7	37.0		ug/m3		98	70 - 130	5	25
trans-1,2-Dichloroethene	39.6	36.7		ug/m3		93	70 - 130	7	25
trans-1,3-Dichloropropene	45.4	45.1		ug/m3		99	70 - 130	6	25

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-77646-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 410-239316/5

Matrix: Air

Analysis Batch: 239316

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloroethene	53.7	55.7		ug/m3		104	70 - 130	5	25
Trichlorofluoromethane	56.2	53.4		ug/m3		95	70 - 130	7	25
Vinyl chloride	25.6	23.6		ug/m3		92	70 - 135	6	25

QC Association Summary

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-77646-1

Air - GC/MS VOA

Analysis Batch: 239316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-77646-1	SVESYSTEMOUTLET-032422	Total/NA	Air	TO-15	
410-77646-1 - DL	SVESYSTEMOUTLET-032422	Total/NA	Air	TO-15	
MB 410-239316/7	Method Blank	Total/NA	Air	TO-15	
LCS 410-239316/4	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 410-239316/5	Lab Control Sample Dup	Total/NA	Air	TO-15	

Lab Chronicle

Client: Parsons Corporation

Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-77646-1

Client Sample ID: SVESYSTEMOUTLET-032422

Lab Sample ID: 410-77646-1

Date Collected: 03/24/22 15:00

Date Received: 03/25/22 10:36

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	239316	03/31/22 05:07	URR2	ELLE
Total/NA	Analysis	TO-15	DL	20	239316	03/31/22 11:59	URR2	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-77646-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	02055	06-30-22

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Method Summary

Client: Parsons Corporation

Job ID: 410-77646-1

Project/Site: NYSDEC FORMER CANADA DRY PLANT

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Parsons Corporation

Job ID: 410-77646-1

Project/Site: NYSDEC FORMER CANADA DRY PLANT

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-77646-1	SVESYSTEMOUTLET-032422	Air	03/24/22 15:00	03/25/22 10:36	Air Canister (1-Liter) #992

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 410-77646-1

Login Number: 77646

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Phillips, Ann-Marie E

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
Cooler Temperature is recorded.	N/A	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	False	Refer to Job Narrative for details.
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
Sample custody seals are intact.	N/A	

Summa Canister Dilution Worksheet

Client: Parsons Corporation

Job No.: 410-77646-1

Project/Site: NYSDEC FORMER CANADA DRY PLANT

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Pressure Gauge ID	Date	Analyst Initials
410-77646-1	1	-3.0	0.90	0.90	11.7	1.80	1.80		2.00	2.00		03/30/22 0:01	H9JD

Formulae:

Preadjusted Volume (L) = $((\text{Preadjusted Pressure ("Hg)} + 29.92 \text{ "Hg}) * \text{Vol L}) / 29.92 \text{ "Hg}$

Adjusted Volume (L) = $((\text{Adjusted Pressure (psig)} + 14.7 \text{ psig}) * \text{Vol L}) / 14.7 \text{ psig}$

Dilution Factor = $\text{Adjusted Volume (L)} / \text{Preadjusted Volume (L)}$

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury ("Hg)

14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-75663-1
 SDG No.: _____
 Client Sample ID: 958 Lab Sample ID: 410-75663-1
 Matrix: Air Lab File ID: 6M10S05.D
 Analysis Method: TO-15 Date Collected: 03/10/2022 17:41
 Sample wt/vol: 200 (mL) Date Analyzed: 03/11/2022 00:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-VMS 60m ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 232322 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.15
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.12
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.12
75-34-3	1,1-Dichloroethane	ND		1.0	0.089
75-35-4	1,1-Dichloroethene	ND		1.0	0.14
96-18-4	1,2,3-Trichloropropane	ND		1.0	0.14
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.50
95-63-6	1,2,4-Trimethylbenzene	ND		2.0	0.28
106-93-4	1,2-Dibromoethane	ND		1.0	0.13
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.28
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.080
78-87-5	1,2-Dichloropropane	ND		1.0	0.13
108-67-8	1,3,5-Trimethylbenzene	ND		2.0	0.32
540-59-0	1,2-Dichloroethene (total)	ND		1.0	0.20
106-99-0	1,3-Butadiene	ND		1.0	0.17
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.30
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.30
78-93-3	2-Butanone	ND		1.0	0.21
591-78-6	2-Hexanone	ND		1.0	0.18
542-75-6	1,3-Dichloropropene, Total	ND		1.0	0.10
107-05-1	3-Chloroprene	ND		1.0	0.20
622-96-8	4-Ethyltoluene	ND		1.0	0.18
108-10-1	4-Methyl-2-pentanone	ND		1.0	0.15
67-64-1	Acetone	ND		5.0	0.53
71-43-2	Benzene	ND		1.0	0.11
108-86-1	Bromobenzene	ND		1.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.12
75-25-2	Bromoform	ND		1.0	0.17
74-83-9	Bromomethane	ND		1.0	0.20
75-15-0	Carbon disulfide	0.17	J	1.0	0.13
56-23-5	Carbon tetrachloride	ND		1.0	0.14
108-90-7	Chlorobenzene	ND		1.0	0.13
75-45-6	Chlorodifluoromethane	ND		1.0	0.15
75-00-3	Chloroethane	ND		1.0	0.30

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-75663-1
 SDG No.: _____
 Client Sample ID: 958 Lab Sample ID: 410-75663-1
 Matrix: Air Lab File ID: 6M10S05.D
 Analysis Method: TO-15 Date Collected: 03/10/2022 17:41
 Sample wt/vol: 200 (mL) Date Analyzed: 03/11/2022 00:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-VMS 60m ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 232322 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	ND		1.0	0.092
74-87-3	Chloromethane	ND		1.0	0.24
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.10
593-60-2	Bromoethene	ND		1.0	0.18
98-82-8	Cumene	ND		1.0	0.24
124-48-1	Dibromochloromethane	ND		1.0	0.13
74-95-3	Dibromomethane	ND		1.0	0.14
75-71-8	Dichlorodifluoromethane	ND		1.0	0.13
75-43-4	Dichlorofluoromethane	ND		1.0	0.11
100-41-4	Ethylbenzene	ND		1.0	0.19
76-13-1	Freon 113	ND		1.0	0.20
76-14-2	Freon-114	ND		1.0	0.12
142-82-5	Heptane	ND		1.0	0.23
67-72-1	Hexachloroethane	ND		2.0	0.27
110-54-3	Hexane	ND		1.0	0.30
540-84-1	Isooctane	ND		1.0	0.20
179601-23-1	m&p-Xylene	ND		1.0	0.26
1634-04-4	Methyl t-butyl ether	ND		1.0	0.15
75-09-2	Methylene Chloride	ND		2.0	0.25
95-47-6	o-Xylene	ND		1.0	0.19
111-65-9	Octane	ND		2.0	0.40
109-66-0	Pentane	ND		1.0	0.20
100-42-5	Styrene	ND		1.0	0.20
127-18-4	Tetrachloroethene	ND		2.0	0.25
108-88-3	Toluene	ND		1.0	0.12
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.12
79-01-6	Trichloroethene	ND		1.0	0.18
75-69-4	Trichlorofluoromethane	ND		1.0	0.15
75-01-4	Vinyl chloride	ND		1.0	0.12
67-63-0	Isopropanol	ND		1.0	0.40
91-20-3	Naphthalene	ND		2.0	1.0
1330-20-7	Xylenes, Total	ND		2.0	0.19
96-33-3	Methyl acrylate	ND		1.0	0.20
109-99-9	Tetrahydrofuran	ND		1.0	0.24

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-75663-1
 SDG No.: _____
 Client Sample ID: 958 Lab Sample ID: 410-75663-1
 Matrix: Air Lab File ID: 6M10S05.D
 Analysis Method: TO-15 Date Collected: 03/10/2022 17:41
 Sample wt/vol: 200 (mL) Date Analyzed: 03/11/2022 00:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-VMS 60m ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 232322 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
141-78-6	Ethyl acetate	ND		2.0	0.25
80-62-6	Methyl methacrylate	ND		1.0	0.15
75-65-0	tert-Butyl alcohol	ND		1.0	0.21
100-44-7	Benzyl chloride	ND		2.0	0.30
87-68-3	Hexachlorobutadiene	ND		2.0	0.47
104-51-8	n-Butylbenzene	ND		2.0	0.26
95-49-8	2-Chlorotoluene	ND		1.0	0.22
75-05-8	Acetonitrile	ND		5.0	0.83
115-07-1	Propene	ND		1.0	0.30
123-91-1	1,4-Dioxane	ND		1.0	0.17
74-88-4	Iodomethane	ND		1.0	0.20
107-13-1	Acrylonitrile	ND		1.0	0.20
98-83-9	Alpha Methyl Styrene	ND		1.0	0.20
97-63-2	Ethyl methacrylate	ND		1.0	0.19
135-98-8	sec-Butylbenzene	ND		2.0	0.39
103-65-1	N-Propylbenzene	ND		1.0	0.21
637-92-3	Ethyl tert-butyl ether	ND		1.0	0.15
108-20-3	di-Isopropyl ether	ND		1.0	0.15
110-82-7	Cyclohexane	ND		1.0	0.20
107-02-8	Acrolein	ND		5.0	0.62
64-17-5	Ethanol	ND		5.0	2.0
99-87-6	p-Isopropyltoluene	ND		2.0	0.28
140-88-5	Ethyl acrylate	ND		1.0	0.16
994-05-8	Tert-amyl methyl ether	ND		1.0	0.11
108-05-4	Vinyl acetate	ND		1.0	0.16
98-06-6	tert-Butylbenzene	ND		5.0	0.76

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP26379\20220310-52201.b\6M10S05.D
 Lims ID: 410-75663-A-1
 Client ID: 958
 Sample Type: Client
 Inject. Date: 11-Mar-2022 00:14:36 ALS Bottle#: 0 Worklist Smp#: 13
 Purge Vol: 200.000 mL Dil. Factor: 1.0000
 Sample Info: 75663-1
 Misc. Info.: 410-0052201-013
 Operator ID: etp33087 Instrument ID: HP26379
 Method: \\chromfs\Lancaster\ChromData\HP26379\20220310-52201.b\AirMS_HP26379.m
 Limit Group: MSV - TO15
 Last Update: 11-Mar-2022 17:11:45 Calib Date: 25-Feb-2022 05:10:23
 Integrator: Falcon ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\HP26379\20220224-51158.b\6F24X10.D
 Column 1 : Rtx-VMS 60m 0.25mmID (0.25 mm) Det: MS Quad
 Process Host: CTX1634

First Level Reviewer: proctore

Date: 11-Mar-2022 16:58:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
17 Carbon disulfide	76	6.973	6.944	0.022	94	5981	0.1743	
* 35 Chlorobromomethane (IS)	130	11.089	11.078	0.011	81	187509	10.0	
* 50 1,4-Difluorobenzene	114	13.354	13.346	0.008	92	702061	10.0	
* 68 Chlorobenzene-d5 (IS)	117	18.174	18.174	0.000	84	775127	10.0	

QC Flag Legend

Processing Flags

Reagents:

AIRIS200 ppb_00114

Amount Added: 10.00

Units: mL

Run Reagent

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP26379\20220310-52201.b\6M10S05.D

Injection Date: 11-Mar-2022 00:14:36

Instrument ID: HP26379

Lims ID: 410-75663-A-1

Lab Sample ID: 410-75663-1

Client ID: 958

Operator ID: etp33087

ALS Bottle#: 0 Worklist Smp#: 13

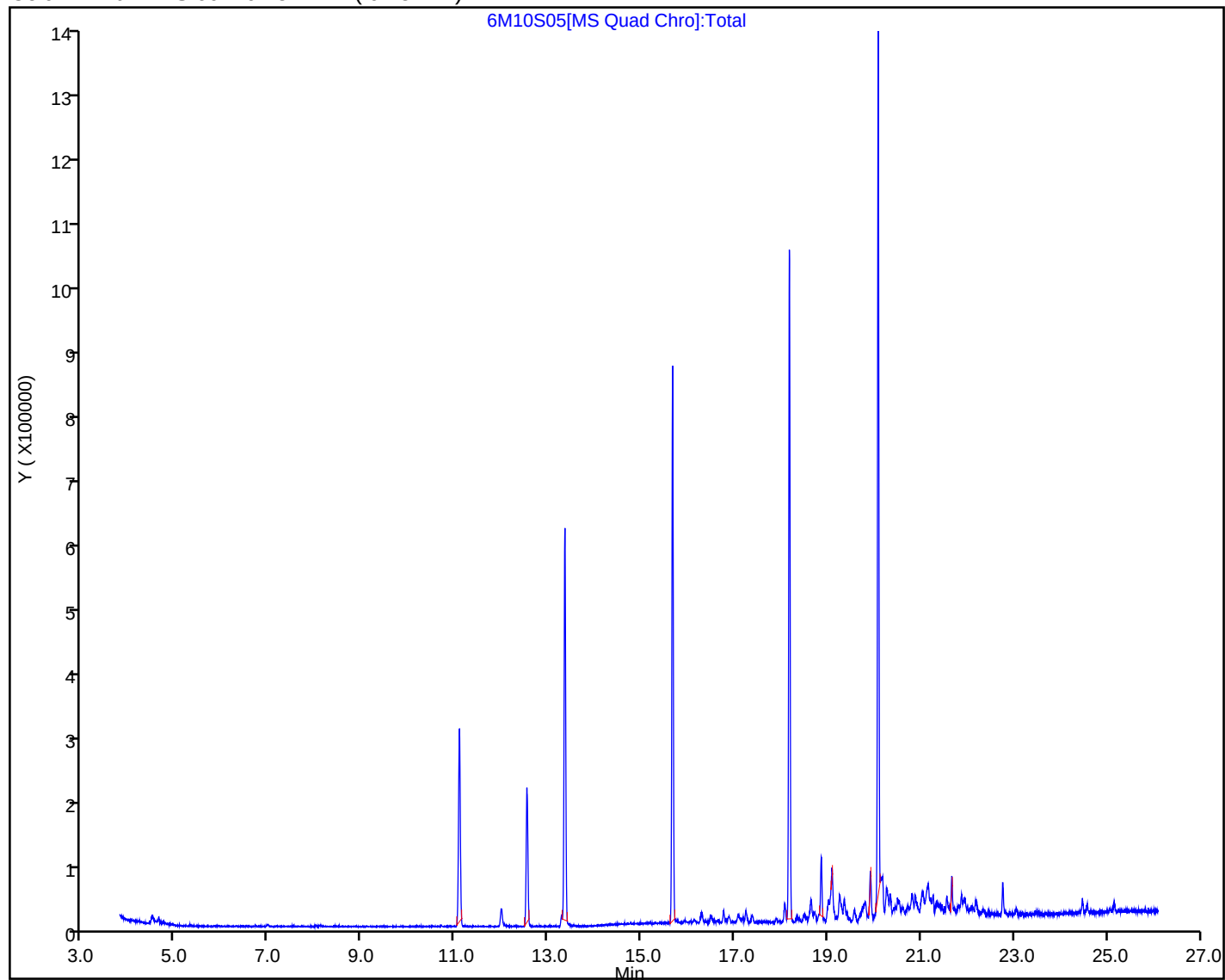
Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: AirMS_HP26379

Limit Group: MSV - TO15

Column: Rtx-VMS 60m 0.25mmID (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP26379\20220310-52201.b\6M10S05.D

Injection Date: 11-Mar-2022 00:14:36

Instrument ID: HP26379

Lims ID: 410-75663-A-1

Lab Sample ID: 410-75663-1

Client ID: 958

Operator ID: etp33087

ALS Bottle#: 0

Worklist Smp#: 13

Purge Vol: 200.000 mL

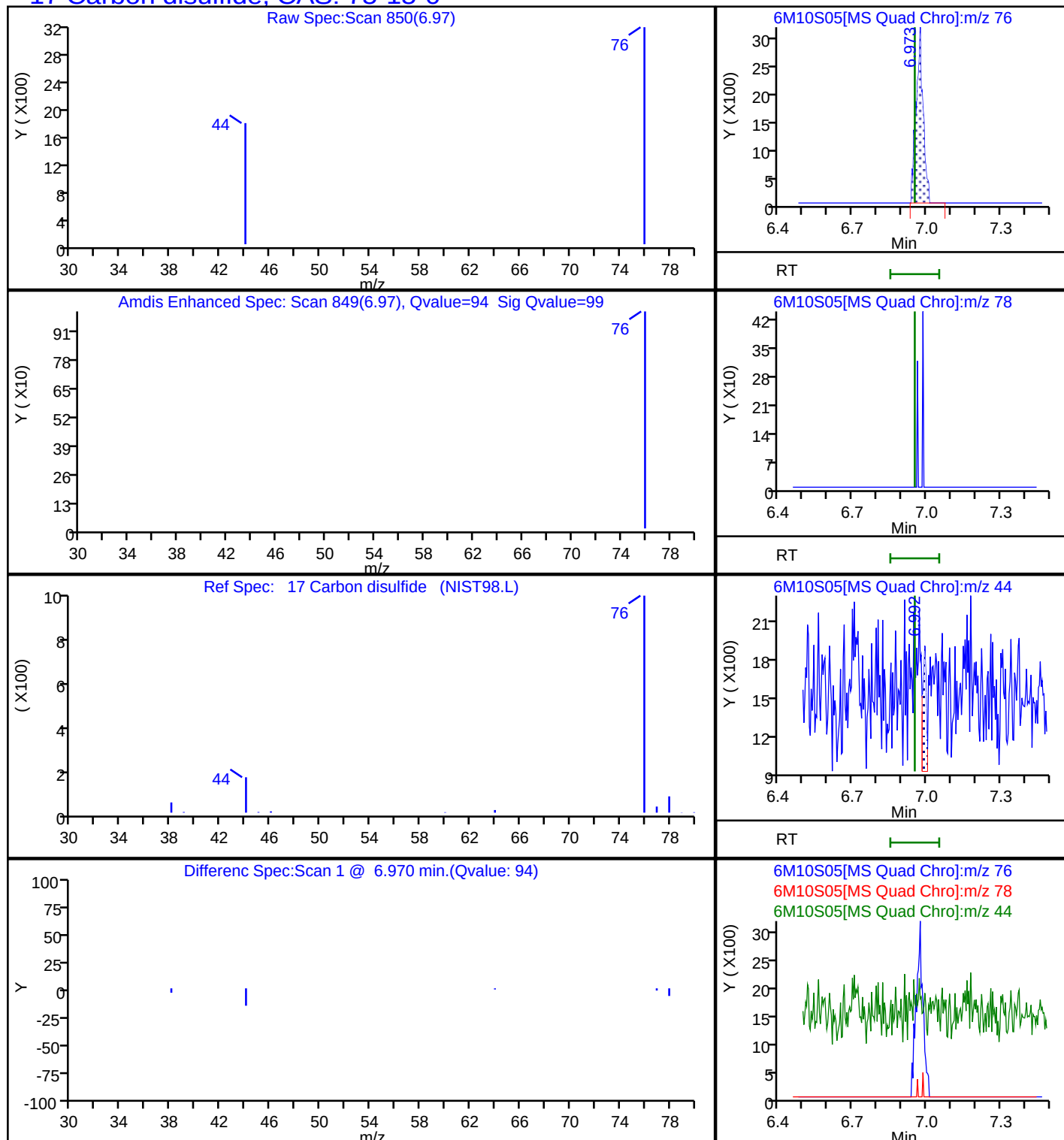
Dil. Factor: 1.0000

Method: AirMS_HP26379

Limit Group: MSV - TO15

Column: Rtx-VMS 60m 0.25mmID (0.25 mm) Detector

MS Quad

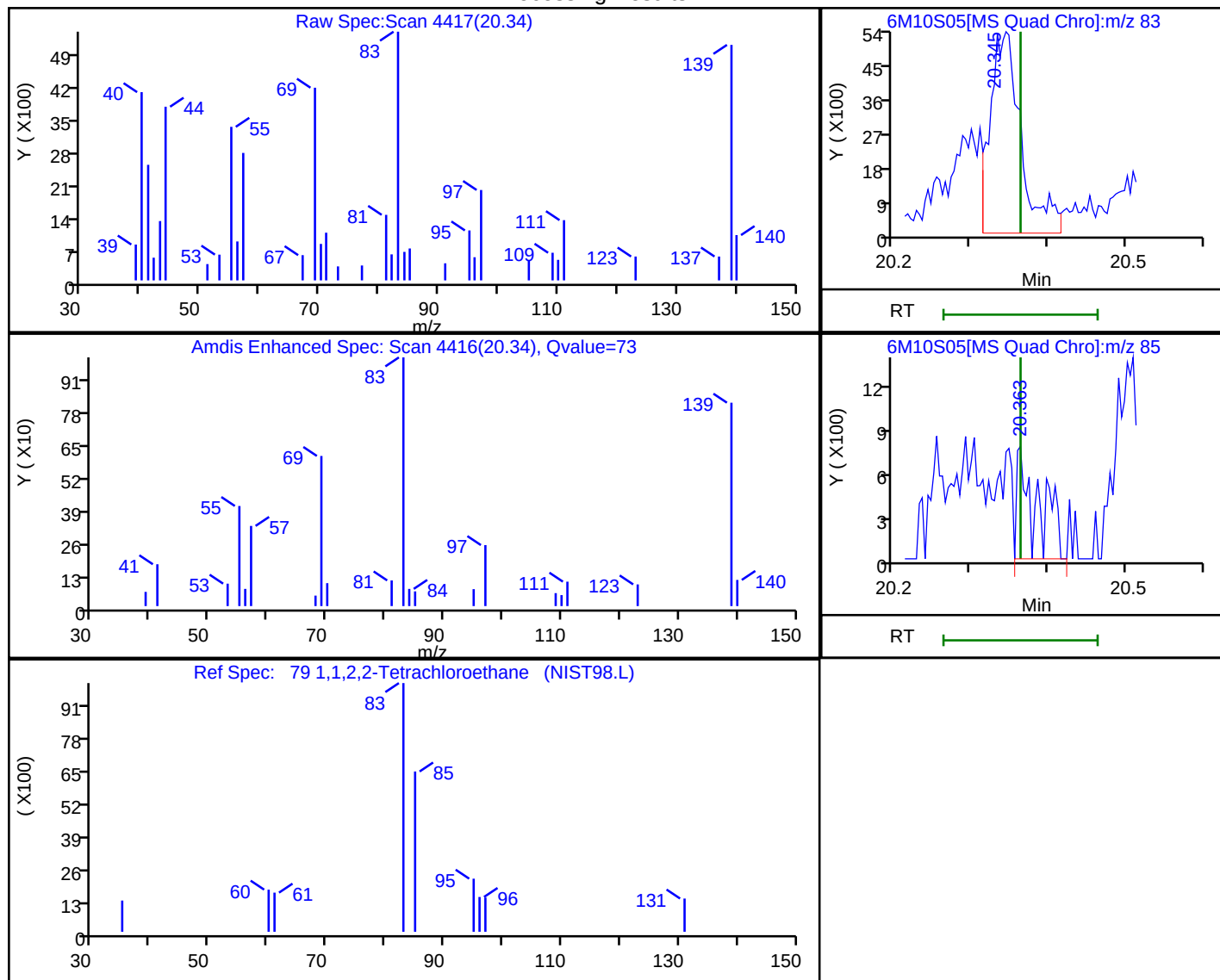
17 Carbon disulfide, CAS: 75-15-0

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP26379\20220310-52201.b\6M10S05.D
Injection Date: 11-Mar-2022 00:14:36 Instrument ID: HP26379
Lims ID: 410-75663-A-1 Lab Sample ID: 410-75663-1
Client ID: 958
Operator ID: etp33087 ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: AirMS_HP26379 Limit Group: MSV - TO15
Column: Rtx-VMS 60m 0.25mmID (0.25 mm) Detector MS Quad

79 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
20.34	83.00	14626	0.334368
20.36	85.00	1365	

Reviewer: proctore, 11-Mar-2022 16:59:39

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP26379\20220310-52201.b\6M10S05.D

Injection Date: 11-Mar-2022 00:14:36

Instrument ID: HP26379

Lims ID: 410-75663-A-1

Lab Sample ID: 410-75663-1

Client ID: 958

Operator ID: etp33087

ALS Bottle#: 0

Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: AirMS_HP26379

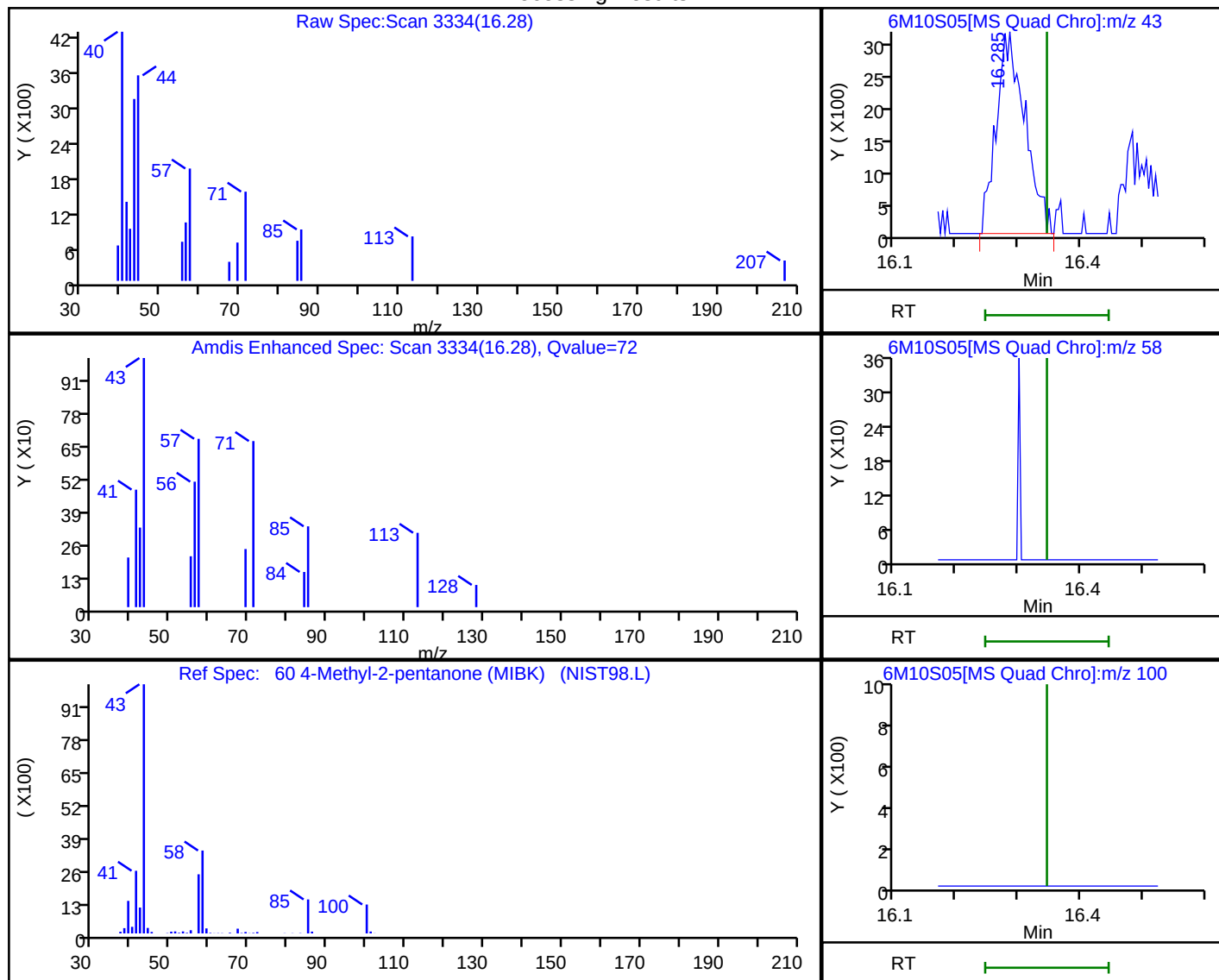
Limit Group: MSV - TO15

Column: Rtx-VMS 60m 0.25mmID (0.25 mm) Detector

MS Quad

60 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
16.28	43.00	10042	0.413060
16.35	58.00	0	
16.35	100.00	0	

Reviewer: proctore, 11-Mar-2022 16:59:13

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-80448-1

Client Project/Site: NYSDEC FORMER CANADA DRY PLANT

For:

Parsons Corporation
301 Plainfield Road
Suite 350
Syracuse, New York 13212

Attn: Ms. Heather Budzich



Authorized for release by:
4/27/2022 6:32:03 PM

Megan Moeller, Client Services Manager
(717)556-7261

Megan.Moeller@et.eurofinsus.com

LINKS

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results through

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Megan Moeller
Client Services Manager
4/27/2022 6:32:03 PM

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Definitions/Glossary

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-80448-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-80448-1

Job ID: 410-80448-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-80448-1

Receipt

The sample was received on 4/16/2022 9:08 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Air - GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Detection Summary

Client: Parsons Corporation

Job ID: 410-80448-1

Project/Site: NYSDEC FORMER CANADA DRY PLANT

Client Sample ID: SVESYSTEMOUTLET-041522

Lab Sample ID: 410-80448-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	460		59	12	ug/m3	20		TO-15	Total/NA
Acetone	580		240	25	ug/m3	20		TO-15	Total/NA
m&p-Xylene	24	J	87	23	ug/m3	20		TO-15	Total/NA
o-Xylene	17	J	87	17	ug/m3	20		TO-15	Total/NA
Pentane	32	J	59	12	ug/m3	20		TO-15	Total/NA
Tetrachloroethene	52	J	270	34	ug/m3	20		TO-15	Total/NA
Trichloroethene	290		110	19	ug/m3	20		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-80448-1

Client Sample ID: SVESYSTEMOUTLET-041522

Lab Sample ID: 410-80448-1

Date Collected: 04/15/22 12:12

Matrix: Air

Date Received: 04/16/22 09:08

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		140	21	ug/m3			04/26/22 00:46	20
1,1,1-Trichloroethane	ND		110	13	ug/m3			04/26/22 00:46	20
1,1,2,2-Tetrachloroethane	ND		140	21	ug/m3			04/26/22 00:46	20
1,1,2-Trichloroethane	ND		110	13	ug/m3			04/26/22 00:46	20
1,1-Dichloroethane	ND		81	7.2	ug/m3			04/26/22 00:46	20
1,1-Dichloroethene	ND		79	11	ug/m3			04/26/22 00:46	20
1,2,3-Trichloropropane	ND		120	17	ug/m3			04/26/22 00:46	20
1,2,4-Trimethylbenzene	ND		200	28	ug/m3			04/26/22 00:46	20
1,2-Dibromoethane	ND		150	20	ug/m3			04/26/22 00:46	20
1,2-Dichlorobenzene	ND		120	24	ug/m3			04/26/22 00:46	20
1,2-Dichloroethane	ND		81	6.5	ug/m3			04/26/22 00:46	20
1,2-Dichloropropane	ND		92	12	ug/m3			04/26/22 00:46	20
1,3,5-Trimethylbenzene	ND		200	31	ug/m3			04/26/22 00:46	20
1,3-Butadiene	ND		44	7.5	ug/m3			04/26/22 00:46	20
1,3-Dichlorobenzene	ND		120	36	ug/m3			04/26/22 00:46	20
1,4-Dichlorobenzene	ND		120	36	ug/m3			04/26/22 00:46	20
2-Butanone	460		59	12	ug/m3			04/26/22 00:46	20
2-Hexanone	ND		82	15	ug/m3			04/26/22 00:46	20
3-Chloroprene	ND		63	13	ug/m3			04/26/22 00:46	20
4-Ethyltoluene	ND		98	18	ug/m3			04/26/22 00:46	20
4-Methyl-2-pentanone	ND		82	12	ug/m3			04/26/22 00:46	20
Acetone	580		240	25	ug/m3			04/26/22 00:46	20
Benzene	ND		64	7.0	ug/m3			04/26/22 00:46	20
Bromobenzene	ND		130	26	ug/m3			04/26/22 00:46	20
Bromodichloromethane	ND		130	16	ug/m3			04/26/22 00:46	20
Bromoform	ND		210	35	ug/m3			04/26/22 00:46	20
Bromomethane	ND		78	16	ug/m3			04/26/22 00:46	20
Carbon disulfide	ND		62	8.1	ug/m3			04/26/22 00:46	20
Carbon tetrachloride	ND		130	18	ug/m3			04/26/22 00:46	20
Chlorobenzene	ND		92	12	ug/m3			04/26/22 00:46	20
Chlorodifluoromethane	ND		71	11	ug/m3			04/26/22 00:46	20
Chloroethane	ND		53	16	ug/m3			04/26/22 00:46	20
Chloroform	ND		98	9.0	ug/m3			04/26/22 00:46	20
Chloromethane	ND		41	9.9	ug/m3			04/26/22 00:46	20
cis-1,2-Dichloroethene	ND		79	16	ug/m3			04/26/22 00:46	20
cis-1,3-Dichloropropene	ND		91	9.1	ug/m3			04/26/22 00:46	20
Cumene	ND		98	24	ug/m3			04/26/22 00:46	20
Dibromochloromethane	ND		170	22	ug/m3			04/26/22 00:46	20
Dibromomethane	ND		140	20	ug/m3			04/26/22 00:46	20
Dichlorodifluoromethane	ND		99	13	ug/m3			04/26/22 00:46	20
Dichlorofluoromethane	ND		84	9.3	ug/m3			04/26/22 00:46	20
Ethylbenzene	ND		87	17	ug/m3			04/26/22 00:46	20
Freon 113	ND		150	31	ug/m3			04/26/22 00:46	20
Freon-114	ND		140	17	ug/m3			04/26/22 00:46	20
Heptane	ND		82	19	ug/m3			04/26/22 00:46	20
Hexachloroethane	ND		390	52	ug/m3			04/26/22 00:46	20
Hexane	ND		70	21	ug/m3			04/26/22 00:46	20
Isooctane	ND		93	19	ug/m3			04/26/22 00:46	20

Eurolins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-80448-1

Client Sample ID: SVESYSTEMOUTLET-041522

Lab Sample ID: 410-80448-1

Date Collected: 04/15/22 12:12

Matrix: Air

Date Received: 04/16/22 09:08

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m&p-Xylene	24	J	87	23	ug/m3			04/26/22 00:46	20
Methyl t-butyl ether	ND		72	11	ug/m3			04/26/22 00:46	20
Methylene Chloride	ND		140	17	ug/m3			04/26/22 00:46	20
o-Xylene	17	J	87	17	ug/m3			04/26/22 00:46	20
Octane	ND		190	37	ug/m3			04/26/22 00:46	20
Pentane	32	J	59	12	ug/m3			04/26/22 00:46	20
Styrene	ND		85	17	ug/m3			04/26/22 00:46	20
Tetrachloroethene	52	J	270	34	ug/m3			04/26/22 00:46	20
Toluene	ND		75	9.0	ug/m3			04/26/22 00:46	20
trans-1,2-Dichloroethene	ND		79	16	ug/m3			04/26/22 00:46	20
trans-1,3-Dichloropropene	ND		91	11	ug/m3			04/26/22 00:46	20
Trichloroethene	290		110	19	ug/m3			04/26/22 00:46	20
Trichlorofluoromethane	ND		110	17	ug/m3			04/26/22 00:46	20
Vinyl chloride	ND		51	6.1	ug/m3			04/26/22 00:46	20

QC Sample Results

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-80448-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 410-247978/7

Matrix: Air

Analysis Batch: 247978

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		6.9	1.0	ug/m3			04/25/22 14:42	1
1,1,1-Trichloroethane	ND		5.5	0.65	ug/m3			04/25/22 14:42	1
1,1,2,2-Tetrachloroethane	ND		6.9	1.0	ug/m3			04/25/22 14:42	1
1,1,2-Trichloroethane	ND		5.5	0.65	ug/m3			04/25/22 14:42	1
1,1-Dichloroethane	ND		4.0	0.36	ug/m3			04/25/22 14:42	1
1,1-Dichloroethene	ND		4.0	0.56	ug/m3			04/25/22 14:42	1
1,2,3-Trichloropropane	ND		6.0	0.84	ug/m3			04/25/22 14:42	1
1,2,4-Trimethylbenzene	ND		9.8	1.4	ug/m3			04/25/22 14:42	1
1,2-Dibromoethane	ND		7.7	1.0	ug/m3			04/25/22 14:42	1
1,2-Dichlorobenzene	ND		6.0	1.2	ug/m3			04/25/22 14:42	1
1,2-Dichloroethane	ND		4.0	0.32	ug/m3			04/25/22 14:42	1
1,2-Dichloropropane	ND		4.6	0.60	ug/m3			04/25/22 14:42	1
1,3,5-Trimethylbenzene	ND		9.8	1.6	ug/m3			04/25/22 14:42	1
1,3-Butadiene	ND		2.2	0.38	ug/m3			04/25/22 14:42	1
1,3-Dichlorobenzene	ND		6.0	1.8	ug/m3			04/25/22 14:42	1
1,4-Dichlorobenzene	ND		6.0	1.8	ug/m3			04/25/22 14:42	1
2-Butanone	ND		2.9	0.62	ug/m3			04/25/22 14:42	1
2-Hexanone	ND		4.1	0.74	ug/m3			04/25/22 14:42	1
3-Chloroprene	ND		3.1	0.63	ug/m3			04/25/22 14:42	1
4-Ethyltoluene	ND		4.9	0.88	ug/m3			04/25/22 14:42	1
4-Methyl-2-pentanone	ND		4.1	0.61	ug/m3			04/25/22 14:42	1
Acetone	ND		12	1.3	ug/m3			04/25/22 14:42	1
Benzene	ND		3.2	0.35	ug/m3			04/25/22 14:42	1
Bromobenzene	ND		6.4	1.3	ug/m3			04/25/22 14:42	1
Bromodichloromethane	ND		6.7	0.80	ug/m3			04/25/22 14:42	1
Bromoform	ND		10	1.8	ug/m3			04/25/22 14:42	1
Bromomethane	ND		3.9	0.78	ug/m3			04/25/22 14:42	1
Carbon disulfide	ND		3.1	0.40	ug/m3			04/25/22 14:42	1
Carbon tetrachloride	ND		6.3	0.88	ug/m3			04/25/22 14:42	1
Chlorobenzene	ND		4.6	0.60	ug/m3			04/25/22 14:42	1
Chlorodifluoromethane	ND		3.5	0.53	ug/m3			04/25/22 14:42	1
Chloroethane	ND		2.6	0.79	ug/m3			04/25/22 14:42	1
Chloroform	ND		4.9	0.45	ug/m3			04/25/22 14:42	1
Chloromethane	ND		2.1	0.50	ug/m3			04/25/22 14:42	1
cis-1,2-Dichloroethene	ND		4.0	0.79	ug/m3			04/25/22 14:42	1
cis-1,3-Dichloropropene	ND		4.5	0.45	ug/m3			04/25/22 14:42	1
Cumene	ND		4.9	1.2	ug/m3			04/25/22 14:42	1
Dibromochloromethane	ND		8.5	1.1	ug/m3			04/25/22 14:42	1
Dibromomethane	ND		7.1	1.0	ug/m3			04/25/22 14:42	1
Dichlorodifluoromethane	ND		4.9	0.64	ug/m3			04/25/22 14:42	1
Dichlorofluoromethane	ND		4.2	0.46	ug/m3			04/25/22 14:42	1
Ethylbenzene	ND		4.3	0.83	ug/m3			04/25/22 14:42	1
Freon 113	ND		7.7	1.5	ug/m3			04/25/22 14:42	1
Freon-114	ND		7.0	0.84	ug/m3			04/25/22 14:42	1
Heptane	ND		4.1	0.94	ug/m3			04/25/22 14:42	1
Hexachloroethane	ND		19	2.6	ug/m3			04/25/22 14:42	1
Hexane	ND		3.5	1.1	ug/m3			04/25/22 14:42	1
Isooctane	ND		4.7	0.93	ug/m3			04/25/22 14:42	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-80448-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 410-247978/7

Matrix: Air

Analysis Batch: 247978

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m&p-Xylene	ND		4.3	1.1	ug/m3			04/25/22 14:42	1
Methyl t-butyl ether	ND		3.6	0.54	ug/m3			04/25/22 14:42	1
Methylene Chloride	ND		6.9	0.87	ug/m3			04/25/22 14:42	1
o-Xylene	ND		4.3	0.83	ug/m3			04/25/22 14:42	1
Octane	ND		9.3	1.9	ug/m3			04/25/22 14:42	1
Pentane	ND		3.0	0.59	ug/m3			04/25/22 14:42	1
Styrene	ND		4.3	0.85	ug/m3			04/25/22 14:42	1
Tetrachloroethene	ND		14	1.7	ug/m3			04/25/22 14:42	1
Toluene	ND		3.8	0.45	ug/m3			04/25/22 14:42	1
trans-1,2-Dichloroethene	ND		4.0	0.79	ug/m3			04/25/22 14:42	1
trans-1,3-Dichloropropene	ND		4.5	0.54	ug/m3			04/25/22 14:42	1
Trichloroethene	ND		5.4	0.97	ug/m3			04/25/22 14:42	1
Trichlorofluoromethane	ND		5.6	0.84	ug/m3			04/25/22 14:42	1
Vinyl chloride	ND		2.6	0.31	ug/m3			04/25/22 14:42	1

Lab Sample ID: LCS 410-247978/4

Matrix: Air

Analysis Batch: 247978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	68.6	76.5		ug/m3		112	73 - 124
1,1,1-Trichloroethane	54.6	57.4		ug/m3		105	70 - 130
1,1,2,2-Tetrachloroethane	68.7	78.2		ug/m3		114	68 - 138
1,1,2-Trichloroethane	54.6	58.2		ug/m3		107	76 - 127
1,1-Dichloroethane	40.5	41.2		ug/m3		102	70 - 130
1,1-Dichloroethene	39.6	41.3		ug/m3		104	70 - 131
1,2,3-Trichloropropane	60.3	69.8		ug/m3		116	70 - 136
1,2,4-Trimethylbenzene	49.2	55.1		ug/m3		112	65 - 146
1,2-Dibromoethane	76.8	86.3		ug/m3		112	70 - 130
1,2-Dichlorobenzene	60.1	72.5		ug/m3		121	61 - 139
1,2-Dichloroethane	40.5	40.2		ug/m3		99	70 - 142
1,2-Dichloropropane	46.2	46.7		ug/m3		101	70 - 130
1,3,5-Trimethylbenzene	49.2	60.8		ug/m3		124	69 - 141
1,3-Butadiene	22.1	21.7		ug/m3		98	70 - 131
1,3-Dichlorobenzene	60.1	71.6		ug/m3		119	64 - 140
1,4-Dichlorobenzene	60.1	70.3		ug/m3		117	64 - 137
2-Butanone	29.5	33.4		ug/m3		113	70 - 130
2-Hexanone	41.0	49.8		ug/m3		122	63 - 144
3-Chloroprene	31.3	35.8		ug/m3		114	70 - 156
4-Ethyltoluene	49.2	61.8		ug/m3		126	69 - 139
4-Methyl-2-pentanone	41.0	46.9		ug/m3		114	68 - 133
Acetone	23.8	24.1		ug/m3		101	70 - 137
Benzene	31.9	31.1		ug/m3		97	70 - 130
Bromobenzene	64.2	73.1		ug/m3		114	70 - 130
Bromodichloromethane	67.0	67.2		ug/m3		100	75 - 134
Bromoform	103	119		ug/m3		115	60 - 139
Bromomethane	38.8	38.8		ug/m3		100	70 - 134
Carbon disulfide	31.1	30.8		ug/m3		99	70 - 130
Carbon tetrachloride	62.9	64.5		ug/m3		102	70 - 130

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-80448-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 410-247978/4

Matrix: Air

Analysis Batch: 247978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	46.0	48.4		ug/m3		105	76 - 117
Chlorodifluoromethane	35.4	36.1		ug/m3		102	70 - 141
Chloroethane	26.4	21.9		ug/m3		83	70 - 131
Chloroform	48.8	48.6		ug/m3		100	70 - 130
Chloromethane	20.7	17.1		ug/m3		83	70 - 138
cis-1,2-Dichloroethene	39.6	39.8		ug/m3		100	70 - 130
cis-1,3-Dichloropropene	45.4	52.3		ug/m3		115	70 - 130
Cumene	49.2	61.4		ug/m3		125	70 - 131
Dibromochloromethane	85.2	94.6		ug/m3		111	74 - 131
Dibromomethane	71.1	71.8		ug/m3		101	70 - 130
Dichlorodifluoromethane	49.5	48.8		ug/m3		99	70 - 131
Dichlorofluoromethane	42.1	43.5		ug/m3		103	70 - 136
Ethylbenzene	43.4	49.2		ug/m3		113	70 - 130
Freon 113	76.6	75.1		ug/m3		98	70 - 130
Freon-114	69.9	68.4		ug/m3		98	70 - 130
Heptane	41.0	42.7		ug/m3		104	70 - 130
Hexachloroethane	96.8	132		ug/m3		136	38 - 163
Hexane	35.2	35.2		ug/m3		100	70 - 130
Isooctane	46.7	48.3		ug/m3		103	70 - 130
m&p-Xylene	43.4	50.6		ug/m3		117	78 - 119
Methyl t-butyl ether	36.1	39.2		ug/m3		109	70 - 130
Methylene Chloride	34.7	35.0		ug/m3		101	70 - 139
o-Xylene	43.4	52.0		ug/m3		120	70 - 130
Octane	46.7	49.9		ug/m3		107	70 - 130
Pentane	29.5	27.6		ug/m3		94	70 - 130
Styrene	42.6	54.2		ug/m3		127	70 - 133
Tetrachloroethene	67.8	66.3		ug/m3		98	70 - 130
Toluene	37.7	39.4		ug/m3		105	70 - 130
trans-1,2-Dichloroethene	39.6	41.0		ug/m3		104	70 - 130
trans-1,3-Dichloropropene	45.4	56.9		ug/m3		125	70 - 130
Trichloroethene	53.7	53.9		ug/m3		100	70 - 130
Trichlorofluoromethane	56.2	54.3		ug/m3		97	70 - 130
Vinyl chloride	25.6	26.0		ug/m3		102	70 - 135

Lab Sample ID: LCSD 410-247978/5

Matrix: Air

Analysis Batch: 247978

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	68.6	73.9		ug/m3		108	73 - 124	4	25
1,1,1-Trichloroethane	54.6	56.6		ug/m3		104	70 - 130	2	25
1,1,2,2-Tetrachloroethane	68.7	77.7		ug/m3		113	68 - 138	1	25
1,1,2-Trichloroethane	54.6	57.0		ug/m3		105	76 - 127	2	25
1,1-Dichloroethane	40.5	40.5		ug/m3		100	70 - 130	2	25
1,1-Dichloroethene	39.6	40.2		ug/m3		101	70 - 131	3	25
1,2,3-Trichloropropane	60.3	68.2		ug/m3		113	70 - 136	2	25
1,2,4-Trimethylbenzene	49.2	62.7		ug/m3		128	65 - 146	13	25
1,2-Dibromoethane	76.8	85.1		ug/m3		111	70 - 130	1	25
1,2-Dichlorobenzene	60.1	70.4		ug/m3		117	61 - 139	3	25

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-80448-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 410-247978/5

Matrix: Air

Analysis Batch: 247978

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane	40.5	39.5		ug/m3		98	70 - 142	2	25
1,2-Dichloropropane	46.2	45.9		ug/m3		99	70 - 130	2	25
1,3,5-Trimethylbenzene	49.2	59.9		ug/m3		122	69 - 141	2	25
1,3-Butadiene	22.1	21.4		ug/m3		97	70 - 131	1	25
1,3-Dichlorobenzene	60.1	67.8		ug/m3		113	64 - 140	5	25
1,4-Dichlorobenzene	60.1	67.7		ug/m3		113	64 - 137	4	25
2-Butanone	29.5	32.5		ug/m3		110	70 - 130	3	25
2-Hexanone	41.0	49.4		ug/m3		121	63 - 144	1	25
3-Chloroprene	31.3	34.7		ug/m3		111	70 - 156	3	25
4-Ethyltoluene	49.2	60.6		ug/m3		123	69 - 139	2	25
4-Methyl-2-pentanone	41.0	46.0		ug/m3		112	68 - 133	2	25
Acetone	23.8	23.7		ug/m3		100	70 - 137	1	25
Benzene	31.9	30.7		ug/m3		96	70 - 130	1	25
Bromobenzene	64.2	70.8		ug/m3		110	70 - 130	3	25
Bromodichloromethane	67.0	66.2		ug/m3		99	75 - 134	2	25
Bromoform	103	117		ug/m3		113	60 - 139	2	25
Bromomethane	38.8	38.1		ug/m3		98	70 - 134	2	25
Carbon disulfide	31.1	30.1		ug/m3		97	70 - 130	2	25
Carbon tetrachloride	62.9	63.0		ug/m3		100	70 - 130	2	25
Chlorobenzene	46.0	47.0		ug/m3		102	76 - 117	3	25
Chlorodifluoromethane	35.4	35.2		ug/m3		99	70 - 141	3	25
Chloroethane	26.4	21.7		ug/m3		82	70 - 131	1	25
Chloroform	48.8	47.2		ug/m3		97	70 - 130	3	25
Chloromethane	20.7	16.6		ug/m3		80	70 - 138	3	25
cis-1,2-Dichloroethene	39.6	39.2		ug/m3		99	70 - 130	2	25
cis-1,3-Dichloropropene	45.4	50.4		ug/m3		111	70 - 130	4	25
Cumene	49.2	60.5		ug/m3		123	70 - 131	1	25
Dibromochloromethane	85.2	93.6		ug/m3		110	74 - 131	1	25
Dibromomethane	71.1	68.9		ug/m3		97	70 - 130	4	25
Dichlorodifluoromethane	49.5	47.5		ug/m3		96	70 - 131	3	25
Dichlorofluoromethane	42.1	42.6		ug/m3		101	70 - 136	2	25
Ethylbenzene	43.4	48.6		ug/m3		112	70 - 130	1	25
Freon 113	76.6	74.1		ug/m3		97	70 - 130	1	25
Freon-114	69.9	66.9		ug/m3		96	70 - 130	2	25
Heptane	41.0	41.8		ug/m3		102	70 - 130	2	25
Hexachloroethane	96.8	128		ug/m3		133	38 - 163	3	25
Hexane	35.2	34.4		ug/m3		98	70 - 130	2	25
Isooctane	46.7	47.6		ug/m3		102	70 - 130	2	25
m&p-Xylene	43.4	49.1		ug/m3		113	78 - 119	3	25
Methyl t-butyl ether	36.1	38.8		ug/m3		108	70 - 130	1	25
Methylene Chloride	34.7	34.5		ug/m3		99	70 - 139	1	25
o-Xylene	43.4	51.0		ug/m3		117	70 - 130	2	25
Octane	46.7	49.7		ug/m3		106	70 - 130	0	25
Pentane	29.5	27.5		ug/m3		93	70 - 130	1	25
Styrene	42.6	52.6		ug/m3		124	70 - 133	3	25
Tetrachloroethene	67.8	64.7		ug/m3		95	70 - 130	2	25
Toluene	37.7	38.9		ug/m3		103	70 - 130	1	25
trans-1,2-Dichloroethene	39.6	40.3		ug/m3		102	70 - 130	2	25
trans-1,3-Dichloropropene	45.4	56.1		ug/m3		124	70 - 130	1	25

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-80448-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 410-247978/5

Matrix: Air

Analysis Batch: 247978

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Trichloroethene	53.7	53.4		ug/m3		99	70 - 130	1	25
Trichlorofluoromethane	56.2	53.5		ug/m3		95	70 - 130	2	25
Vinyl chloride	25.6	25.9		ug/m3		101	70 - 135	0	25

QC Association Summary

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-80448-1

Air - GC/MS VOA

Analysis Batch: 247978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-80448-1	SVESYSTEMOUTLET-041522	Total/NA	Air	TO-15	
MB 410-247978/7	Method Blank	Total/NA	Air	TO-15	
LCS 410-247978/4	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 410-247978/5	Lab Control Sample Dup	Total/NA	Air	TO-15	

Lab Chronicle

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-80448-1

Client Sample ID: SVESYSTEMOUTLET-041522
Date Collected: 04/15/22 12:12
Date Received: 04/16/22 09:08

Lab Sample ID: 410-80448-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		20	247978	04/26/22 00:46	H9JD	ELLE

Laboratory References:
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-80448-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	02055	06-30-22

Method Summary

Client: Parsons Corporation
Project/Site: NYSDEC FORMER CANADA DRY PLANT

Job ID: 410-80448-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Parsons Corporation

Job ID: 410-80448-1

Project/Site: NYSDEC FORMER CANADA DRY PLANT

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-80448-1	SVESYSTEMOUTLET-041522	Air	04/15/22 12:12	04/16/22 09:08	Air Canister (1-Liter) #1040

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

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Computer Journals
Environmental

Acct. #

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For Biofine Lancaster Laboratories Environmental use only
Sample #

Sample #

Rolls Order (SCB) # 52527

Client Information				Turnaround Time Requested (TAT) (check one)				Analyses Requested					
Client Name		Account #		Standard		Rush (specify)		Data Package Required?		EDD Required?		EPA TO-15	
Project Name/ID		P.O. #		Yes		No		Yes		No		EPA 16	
Project Manager		Quote #		Temperature (°F)		Pressure (°Hg)		Start		Stop		EPA 25 (spec range decay)	
Samples		Name of state where samples were collected		Start		Stop		Start		Stop		Hydrium 15 1222	
Ambient		Maximum		Minimum								CO/CO2	
Sample Identification		Start Date/Time (24 hour clock)		Stop Date/Time (24 hour clock)		Condenser Pressure In Field (°Hg) (Start)		Condenser Pressure In Field (°Hg) (Stop)		Interior Temp. (°F) (Start)		Interior Temp. (°F) (Stop)	
												Library Search	
												EPA 25 (spec range decay)	
												Hydrium 15 1222	
												CO/CO2	
												Library Search	
												EPA 25 (spec range decay)	
												Hydrium 15 1222	
												CO/CO2	
												Library Search	
												EPA 25 (spec range decay)	
												Hydrium 15 1222	
												CO/CO2	
												Library Search	
												EPA 25 (spec range decay)	
												Hydrium 15 1222	
												CO/CO2	
												Library Search	
												EPA 25 (spec range decay)	
												Hydrium 15 1222	
												CO/CO2	
												Library Search	
												EPA 25 (spec range decay)	
												Hydrium 15 1222	
												CO/CO2	
												Library Search	
												EPA 25 (spec range decay)	
												Hydrium 15 1222	
												CO/CO2	
												Library Search	
												EPA 25 (spec range decay)	
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												CO/CO2	
												Library Search	
												EPA 25 (spec range decay)	
												Hydrium 15 1222	
												CO/CO2	
												Library Search	

Eurolife Lancaster Laboratories Environmental, LLC - 2426 New Holland Pike, Lancaster, PA 17601 - 717 868 2300
The white copy should accompany samples to Eurolife Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7000 1010

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 410-80448-1

Login Number: 80448

List Number: 1

Creator: McCaskey, Jonathan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	False	Thermal preservation not required.
Cooler Temperature is recorded.	False	Thermal preservation not required.
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
There is sufficient vol. for all requested analyses.	N/A	
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
Sample custody seals are intact.	N/A	

Summa Canister Dilution Worksheet

Client: Parsons Corporation

Job No.: 410-80448-1

Project/Site: NYSDEC FORMER CANADA DRY PLANT

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Pressure Gauge ID	Date	Analyst Initials
410-80448-1	1	-3.2	0.89	0.89	11.5	1.78	1.78		2.00	2.00		04/19/22 17:33	H9JD

Formulae:

Preadjusted Volume (L) = $((\text{Preadjusted Pressure ("Hg)} + 29.92 \text{ "Hg}) * \text{Vol L}) / 29.92 \text{ "Hg}$

Adjusted Volume (L) = $((\text{Adjusted Pressure (psig)} + 14.7 \text{ psig}) * \text{Vol L}) / 14.7 \text{ psig}$

Dilution Factor = $\text{Adjusted Volume (L)} / \text{Preadjusted Volume (L)}$

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury ("Hg)

14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-76254-1
 SDG No.: _____
 Client Sample ID: 961 Lab Sample ID: 410-76254-1
 Matrix: Air Lab File ID: 5M17X16.D
 Analysis Method: TO-15 Date Collected: 03/15/2022 23:29
 Sample wt/vol: 200 (mL) Date Analyzed: 03/17/2022 17:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 30m ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 234684 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.15
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.12
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.12
75-34-3	1,1-Dichloroethane	ND		1.0	0.089
75-35-4	1,1-Dichloroethene	ND		1.0	0.14
96-18-4	1,2,3-Trichloropropane	ND		1.0	0.14
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.50
95-63-6	1,2,4-Trimethylbenzene	ND		2.0	0.28
106-93-4	1,2-Dibromoethane	ND		1.0	0.13
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.28
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.080
78-87-5	1,2-Dichloropropane	ND		1.0	0.13
108-67-8	1,3,5-Trimethylbenzene	ND		2.0	0.32
540-59-0	1,2-Dichloroethene (total)	ND		1.0	0.20
106-99-0	1,3-Butadiene	ND		1.0	0.17
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.30
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.30
78-93-3	2-Butanone	0.26	J	1.0	0.21
591-78-6	2-Hexanone	ND		1.0	0.18
542-75-6	1,3-Dichloropropene, Total	ND		1.0	0.10
107-05-1	3-Chloroprene	ND		1.0	0.20
622-96-8	4-Ethyltoluene	ND		1.0	0.18
108-10-1	4-Methyl-2-pentanone	ND		1.0	0.15
67-64-1	Acetone	2.5	J	5.0	0.53
71-43-2	Benzene	0.15	J	1.0	0.11
108-86-1	Bromobenzene	ND		1.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.12
75-25-2	Bromoform	ND		1.0	0.17
74-83-9	Bromomethane	ND		1.0	0.20
75-15-0	Carbon disulfide	ND		1.0	0.13
56-23-5	Carbon tetrachloride	ND		1.0	0.14
108-90-7	Chlorobenzene	ND		1.0	0.13
75-45-6	Chlorodifluoromethane	0.35	J	1.0	0.15
75-00-3	Chloroethane	ND		1.0	0.30

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-76254-1
 SDG No.: _____
 Client Sample ID: 961 Lab Sample ID: 410-76254-1
 Matrix: Air Lab File ID: 5M17X16.D
 Analysis Method: TO-15 Date Collected: 03/15/2022 23:29
 Sample wt/vol: 200 (mL) Date Analyzed: 03/17/2022 17:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 30m ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 234684 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	ND		1.0	0.092
74-87-3	Chloromethane	0.46	J *-	1.0	0.24
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.10
593-60-2	Bromoethene	ND		1.0	0.18
98-82-8	Cumene	ND		1.0	0.24
124-48-1	Dibromochloromethane	ND		1.0	0.13
74-95-3	Dibromomethane	ND		1.0	0.14
75-71-8	Dichlorodifluoromethane	0.37	J	1.0	0.13
75-43-4	Dichlorofluoromethane	ND		1.0	0.11
100-41-4	Ethylbenzene	ND		1.0	0.19
76-13-1	Freon 113	ND		1.0	0.20
76-14-2	Freon-114	ND		1.0	0.12
142-82-5	Heptane	ND		1.0	0.23
67-72-1	Hexachloroethane	ND	*+	2.0	0.27
110-54-3	Hexane	ND		1.0	0.30
540-84-1	Isooctane	ND		1.0	0.20
179601-23-1	m&p-Xylene	ND		1.0	0.26
1634-04-4	Methyl t-butyl ether	ND		1.0	0.15
75-09-2	Methylene Chloride	ND		2.0	0.25
95-47-6	o-Xylene	ND		1.0	0.19
111-65-9	Octane	ND		2.0	0.40
109-66-0	Pentane	0.55	J	1.0	0.20
100-42-5	Styrene	ND		1.0	0.20
127-18-4	Tetrachloroethene	ND		2.0	0.25
108-88-3	Toluene	0.19	J	1.0	0.12
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.12
79-01-6	Trichloroethene	ND		1.0	0.18
75-69-4	Trichlorofluoromethane	0.17	J	1.0	0.15
75-01-4	Vinyl chloride	ND		1.0	0.12
67-63-0	Isopropanol	0.92	J	1.0	0.40
91-20-3	Naphthalene	ND		2.0	1.0
1330-20-7	Xylenes, Total	ND		2.0	0.19
96-33-3	Methyl acrylate	ND		1.0	0.20
109-99-9	Tetrahydrofuran	ND		1.0	0.24

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-76254-1
 SDG No.: _____
 Client Sample ID: 961 Lab Sample ID: 410-76254-1
 Matrix: Air Lab File ID: 5M17X16.D
 Analysis Method: TO-15 Date Collected: 03/15/2022 23:29
 Sample wt/vol: 200(mL) Date Analyzed: 03/17/2022 17:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 30m ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 234684 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
141-78-6	Ethyl acetate	ND		2.0	0.25
80-62-6	Methyl methacrylate	ND		1.0	0.15
75-65-0	tert-Butyl alcohol	ND		1.0	0.21
100-44-7	Benzyl chloride	ND		2.0	0.30
87-68-3	Hexachlorobutadiene	ND		2.0	0.47
104-51-8	n-Butylbenzene	ND		2.0	0.26
95-49-8	2-Chlorotoluene	ND		1.0	0.22
75-05-8	Acetonitrile	ND		5.0	0.83
115-07-1	Propene	0.51	J	1.0	0.30
123-91-1	1,4-Dioxane	ND		1.0	0.17
74-88-4	Iodomethane	ND		1.0	0.20
107-13-1	Acrylonitrile	ND		1.0	0.20
98-83-9	Alpha Methyl Styrene	ND		1.0	0.20
97-63-2	Ethyl methacrylate	ND		1.0	0.19
135-98-8	sec-Butylbenzene	ND		2.0	0.39
103-65-1	N-Propylbenzene	ND		1.0	0.21
637-92-3	Ethyl tert-butyl ether	ND		1.0	0.15
108-20-3	di-Isopropyl ether	ND		1.0	0.15
110-82-7	Cyclohexane	ND		1.0	0.20
107-02-8	Acrolein	ND		5.0	0.62
64-17-5	Ethanol	19		5.0	2.0
99-87-6	p-Isopropyltoluene	ND		2.0	0.28
140-88-5	Ethyl acrylate	ND		1.0	0.16
994-05-8	Tert-amyl methyl ether	ND		1.0	0.11
108-05-4	Vinyl acetate	ND		1.0	0.16
98-06-6	tert-Butylbenzene	ND		5.0	0.76

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D
 Lims ID: 410-76254-A-1
 Client ID: 961
 Sample Type: Client
 Inject. Date: 17-Mar-2022 17:38:19 ALS Bottle#: 0 Worklist Smp#: 16
 Purge Vol: 200.000 mL Dil. Factor: 1.0000
 Sample Info: 76254-1
 Misc. Info.: 410-0052711-016
 Operator ID: rrm00219 Instrument ID: HP22820
 Method: \\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\AirMS_TO15_HP22820.m
 Limit Group: MSV - TO15
 Last Update: 17-Mar-2022 19:30:13 Calib Date: 02-Mar-2022 15:59:34
 Integrator: Falcon ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\HP22820\20220301-51452.b\5M01X31.D
 Column 1 : DB-624 30m .25mm (0.25 mm) Det: MS Quad
 Process Host: CTX1652

First Level Reviewer: proctore

Date: 17-Mar-2022 19:30:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41	1.653	1.647	0.007	78	9443	0.5116	
2 Dichlorodifluoromethane	85	1.688	1.681	0.007	98	26843	0.3729	
3 Chlorodifluoromethane	51	1.695	1.695	-0.008	39	11946	0.3455	M
5 Chloromethane	50	1.875	1.877	0.001	96	9425	0.4607	
12 Trichlorofluoromethane	101	2.806	2.799	0.007	97	13013	0.1682	
13 Pentane	43	2.899	2.910	-0.007	96	21293	0.5471	
14 Ethanol	45	3.107	3.111	0.000	99	160967	19.1	
18 Acetone	43	3.558	3.555	0.007	98	78624	2.47	
21 Isopropyl alcohol	45	3.744	3.742	0.007	97	33159	0.9189	
24 Methylene Chloride	84	4.038	4.029	0.015	79	4088	0.1547	
35 2-Butanone (MEK)	43	5.284	5.284	0.007	97	10268	0.2571	M
36 Ethyl acetate	43	5.327	5.327	0.000	40	3471	0.0625	7Ma
* 38 Chlorobromomethane (IS)	130	5.470	5.463	0.007	83	144499	10.0	
44 Benzene	78	5.979	5.986	0.000	92	14036	0.1456	
* 49 1,4-Difluorobenzene	114	6.287	6.280	0.007	92	701917	10.0	
59 Toluene	91	7.455	7.447	0.008	100	23166	0.1884	
* 68 Chlorobenzene-d5 (IS)	117	8.479	8.479	0.000	82	750182	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

AIRIS200 ppb_00113

Amount Added: 10.00

Units: mL

Run Reagent

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D

Injection Date: 17-Mar-2022 17:38:19

Instrument ID: HP22820

Lims ID: 410-76254-A-1

Lab Sample ID: 410-76254-1

Client ID: 961

Operator ID: rrm00219

ALS Bottle#: 0 Worklist Smp#: 16

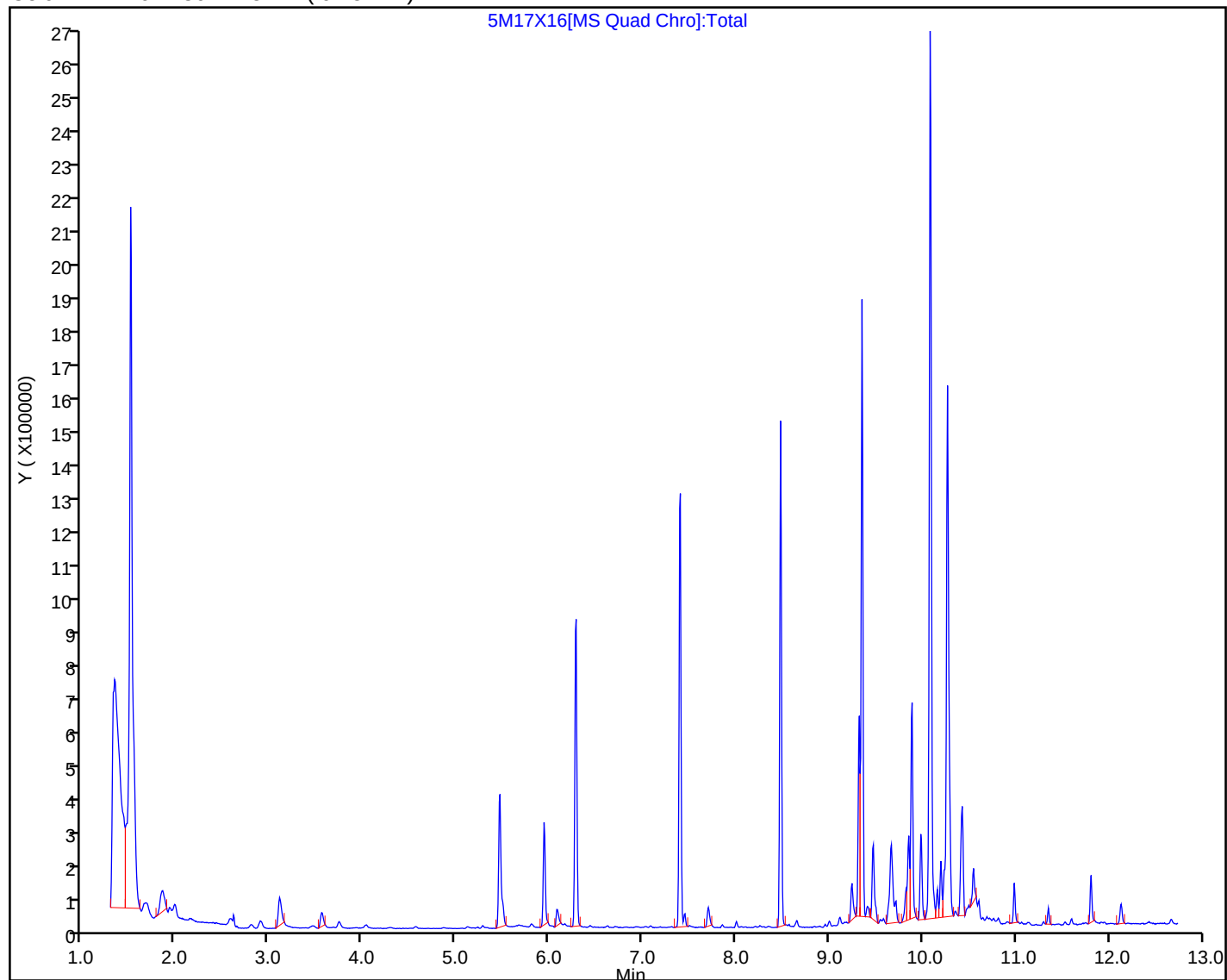
Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: AirMS_TO15_HP22820

Limit Group: MSV - TO15

Column: DB-624 30m .25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D

Injection Date: 17-Mar-2022 17:38:19

Instrument ID: HP22820

Lims ID: 410-76254-A-1

Lab Sample ID: 410-76254-1

Client ID: 961

Operator ID: rrm00219

ALS Bottle#: 0

Worklist Smp#: 16

Purge Vol: 200.000 mL

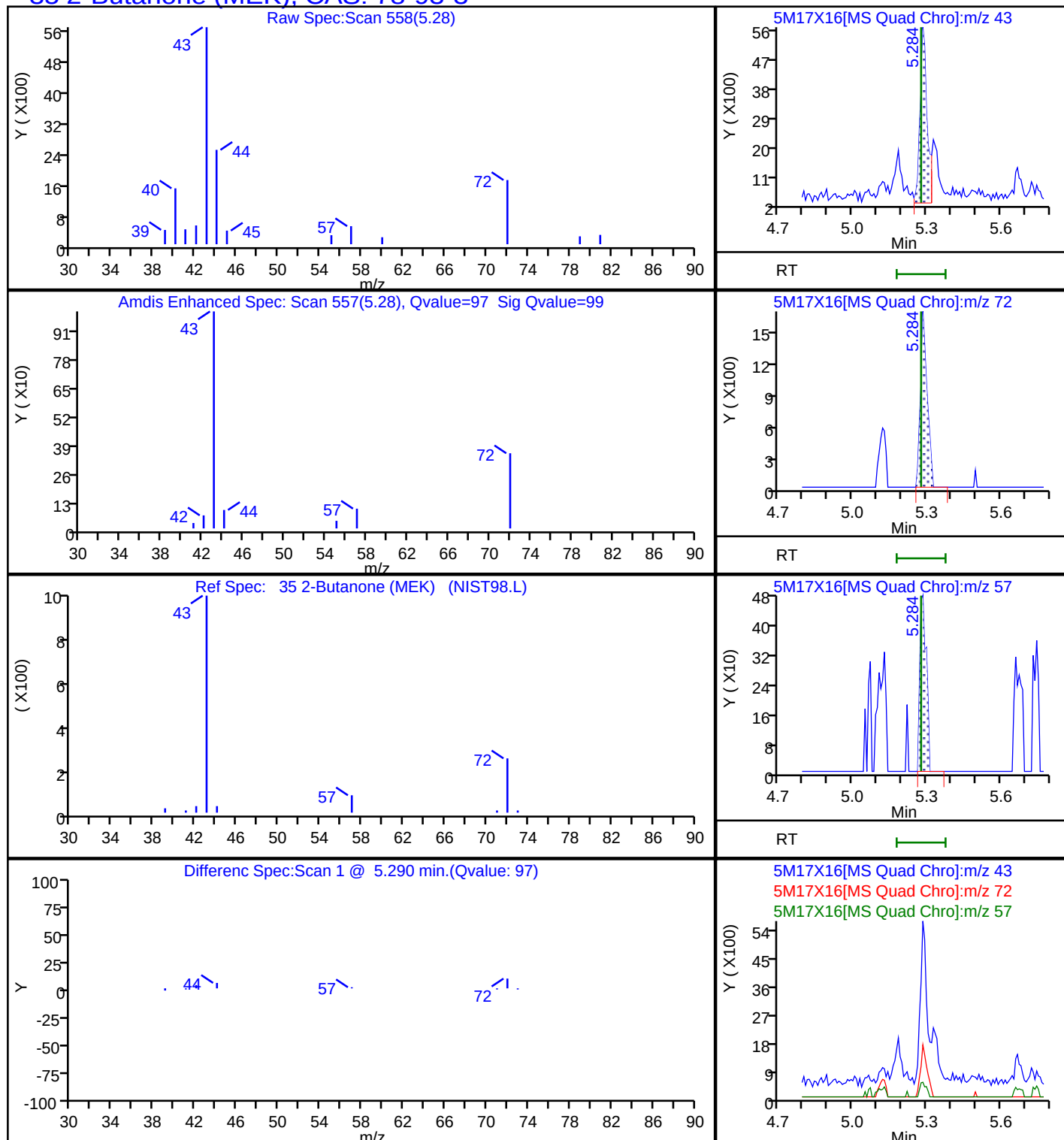
Dil. Factor: 1.0000

Method: AirMS_TO15_HP22820

Limit Group: MSV - TO15

Column: DB-624 30m .25mm (0.25 mm)

Detector: MS Quad

35 2-Butanone (MEK), CAS: 78-93-3

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D

Injection Date: 17-Mar-2022 17:38:19

Instrument ID: HP22820

Lims ID: 410-76254-A-1

Lab Sample ID: 410-76254-1

Client ID: 961

Operator ID: rrm00219

ALS Bottle#: 0

Worklist Smp#: 16

Purge Vol: 200.000 mL

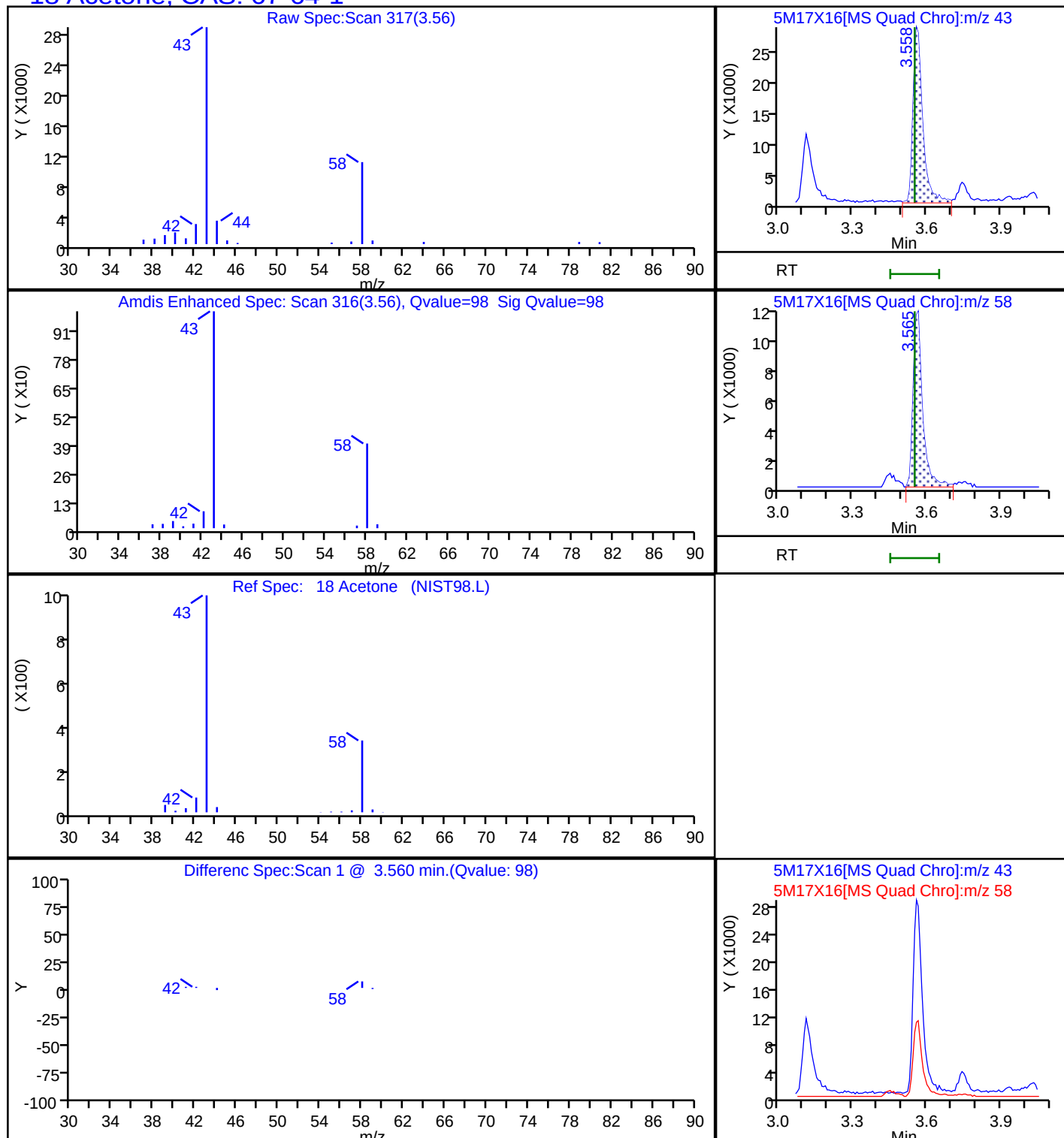
Dil. Factor: 1.0000

Method: AirMS_TO15_HP22820

Limit Group: MSV - TO15

Column: DB-624 30m .25mm (0.25 mm)

Detector: MS Quad

18 Acetone, CAS: 67-64-1

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D

Injection Date: 17-Mar-2022 17:38:19

Instrument ID: HP22820

Lims ID: 410-76254-A-1

Lab Sample ID: 410-76254-1

Client ID: 961

Operator ID: rrm00219

ALS Bottle#: 0

Worklist Smp#: 16

Purge Vol: 200.000 mL

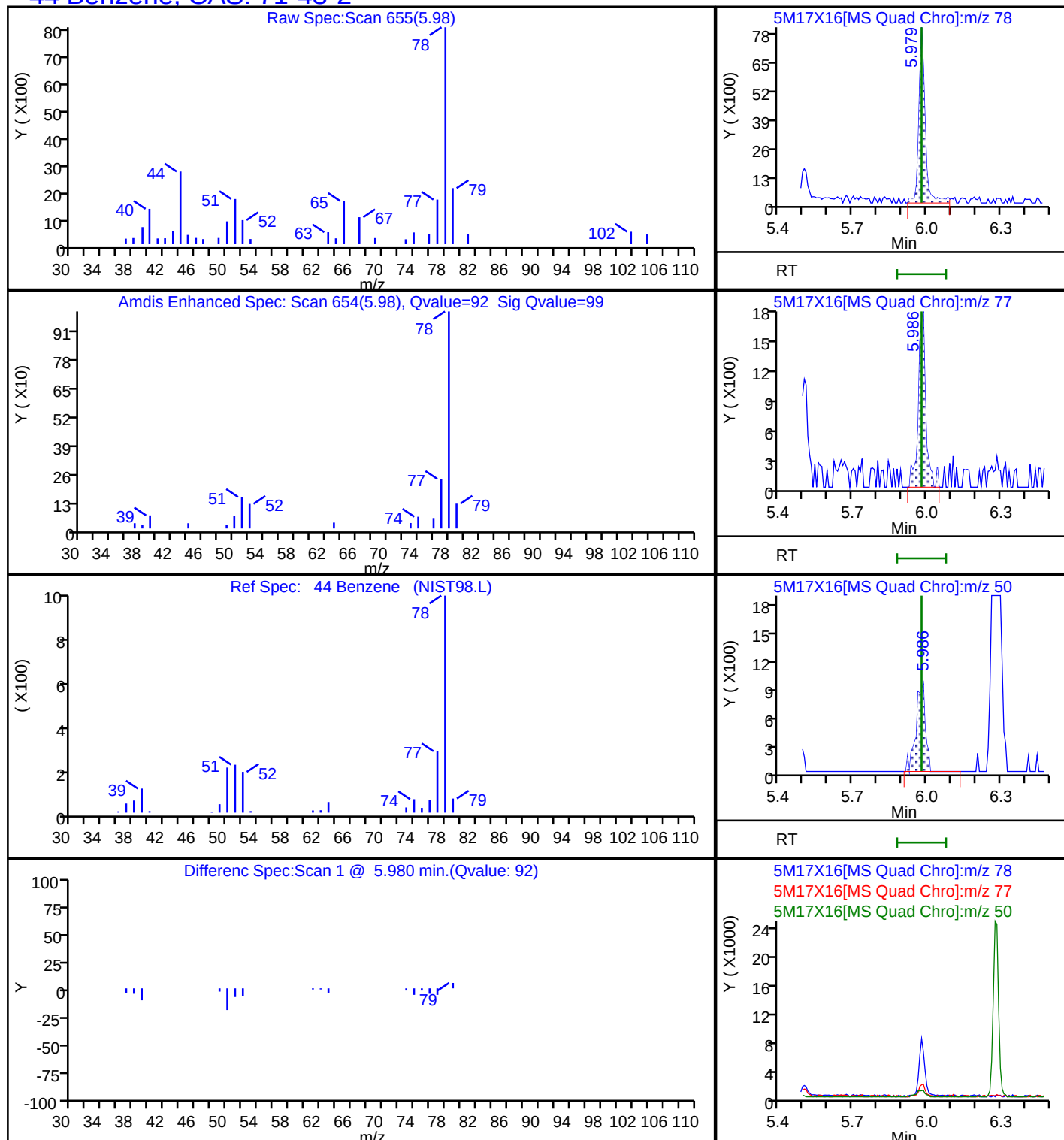
Dil. Factor: 1.0000

Method: AirMS_TO15_HP22820

Limit Group: MSV - TO15

Column: DB-624 30m .25mm (0.25 mm)

Detector: MS Quad

44 Benzene, CAS: 71-43-2

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D

Injection Date: 17-Mar-2022 17:38:19

Instrument ID: HP22820

Lims ID: 410-76254-A-1

Lab Sample ID: 410-76254-1

Client ID: 961

Operator ID: rrm00219

ALS Bottle#: 0

Worklist Smp#: 16

Purge Vol: 200.000 mL

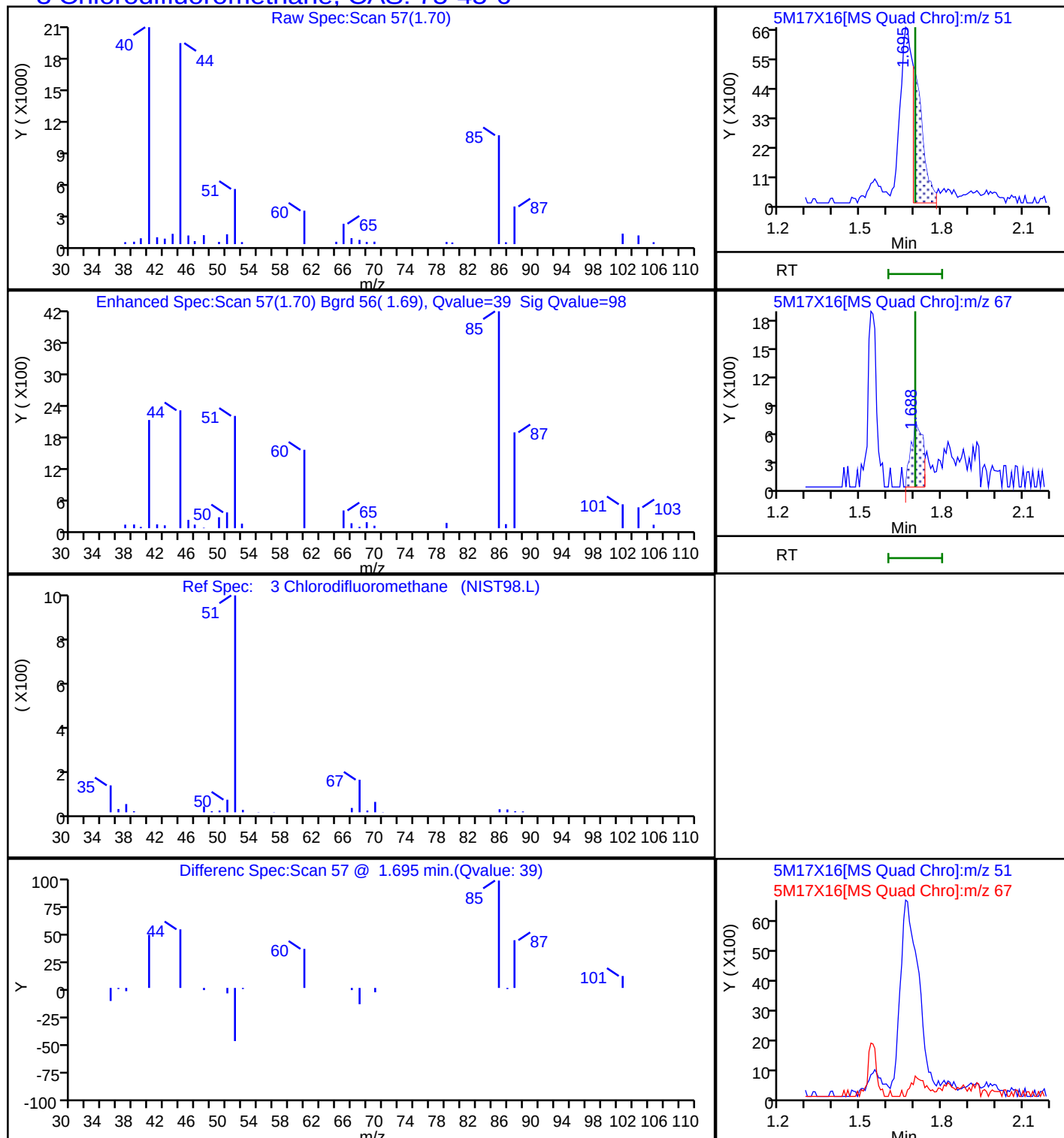
Dil. Factor: 1.0000

Method: AirMS_TO15_HP22820

Limit Group: MSV - TO15

Column: DB-624 30m .25mm (0.25 mm)

Detector: MS Quad

3 Chlorodifluoromethane, CAS: 75-45-6

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D

Injection Date: 17-Mar-2022 17:38:19

Instrument ID: HP22820

Lims ID: 410-76254-A-1

Lab Sample ID: 410-76254-1

Client ID: 961

Operator ID: rrm00219

ALS Bottle#: 0

Worklist Smp#: 16

Purge Vol: 200.000 mL

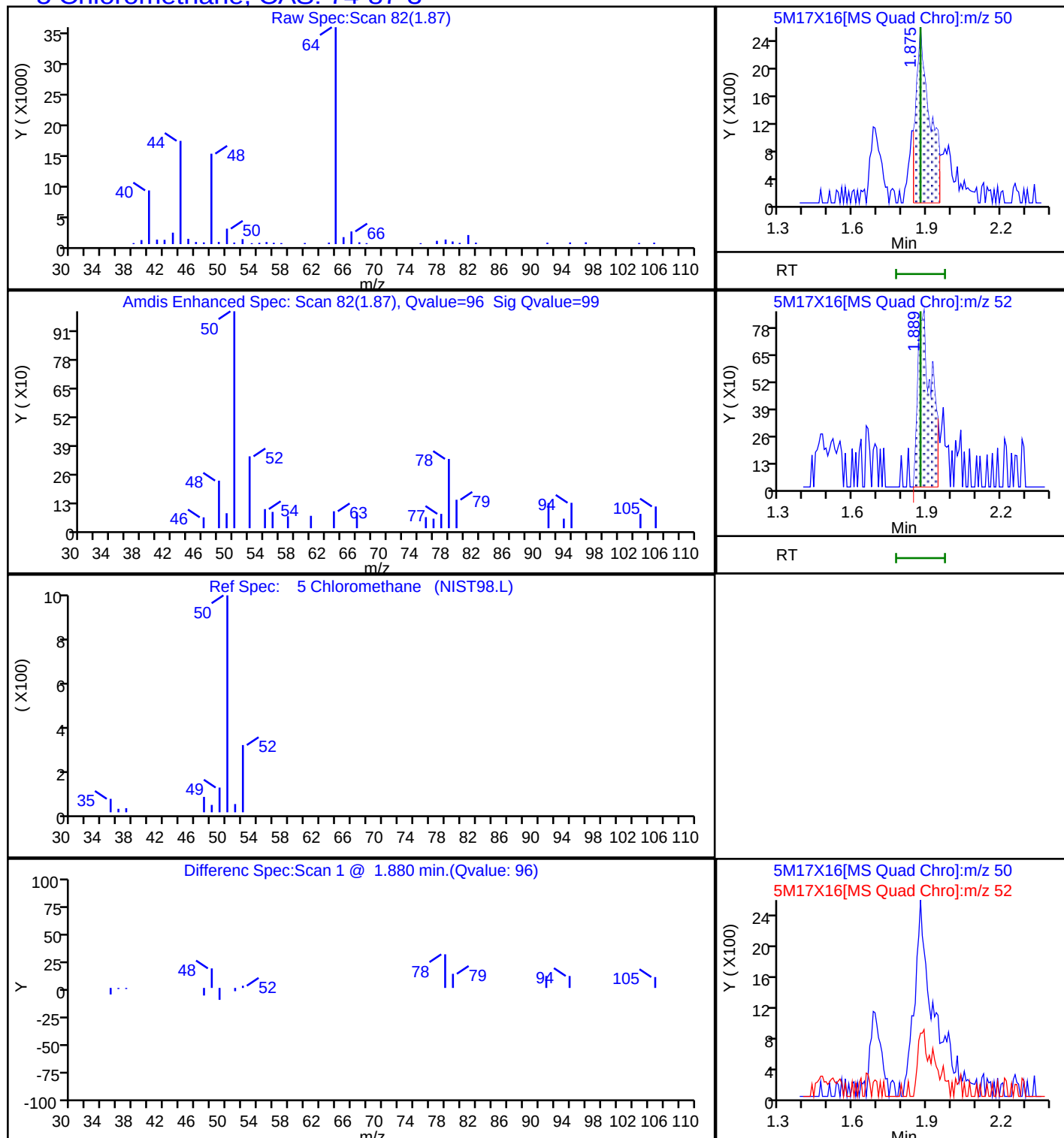
Dil. Factor: 1.0000

Method: AirMS_TO15_HP22820

Limit Group: MSV - TO15

Column: DB-624 30m .25mm (0.25 mm)

Detector: MS Quad

5 Chloromethane, CAS: 74-87-3

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D

Injection Date: 17-Mar-2022 17:38:19

Instrument ID: HP22820

Lims ID: 410-76254-A-1

Lab Sample ID: 410-76254-1

Client ID: 961

Operator ID: rrm00219

ALS Bottle#: 0

Worklist Smp#: 16

Purge Vol: 200.000 mL

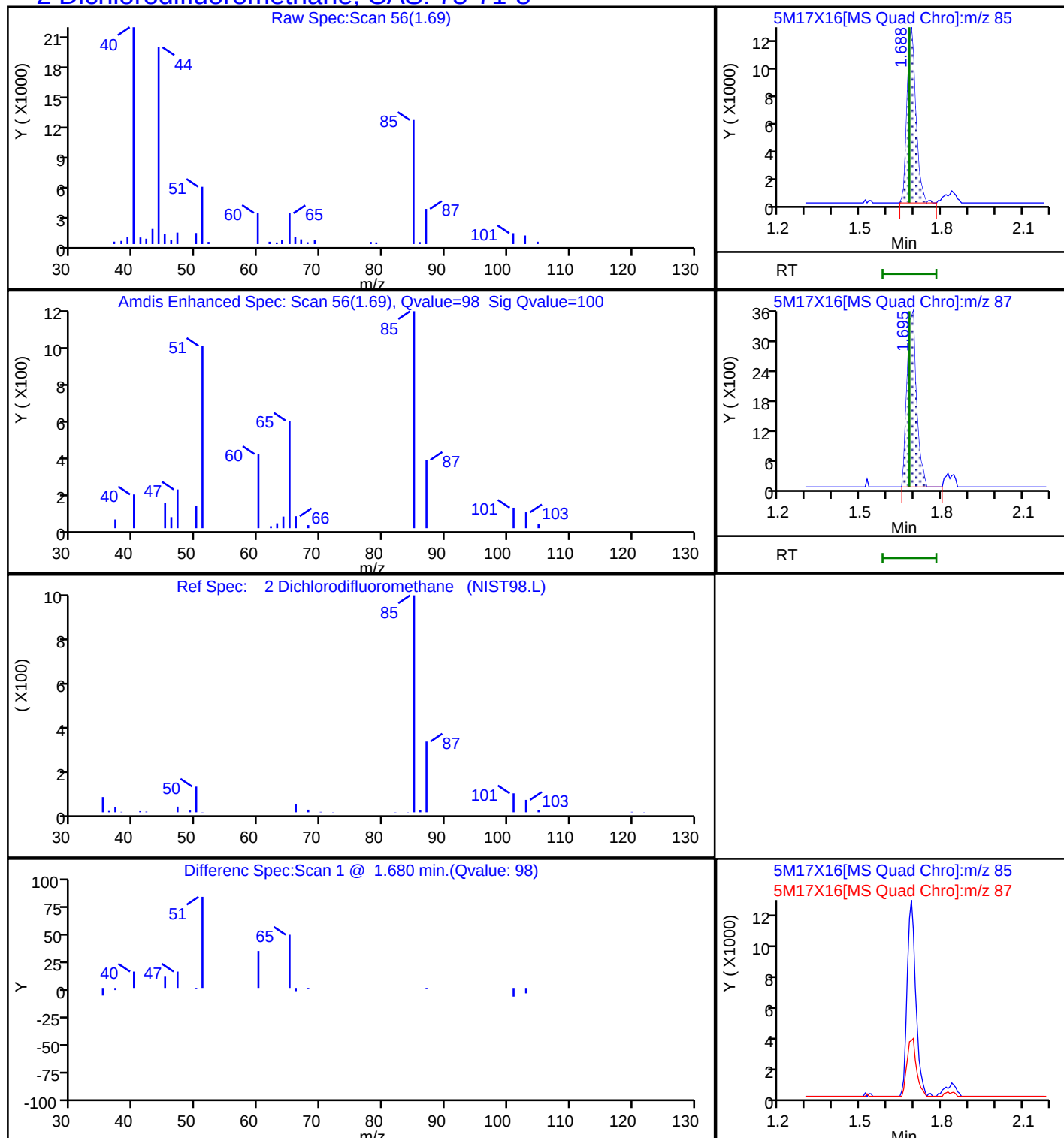
Dil. Factor: 1.0000

Method: AirMS_TO15_HP22820

Limit Group: MSV - TO15

Column: DB-624 30m .25mm (0.25 mm)

Detector: MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D

Injection Date: 17-Mar-2022 17:38:19

Instrument ID: HP22820

Lims ID: 410-76254-A-1

Lab Sample ID: 410-76254-1

Client ID: 961

Operator ID: rrm00219

ALS Bottle#: 0

Worklist Smp#: 16

Purge Vol: 200.000 mL

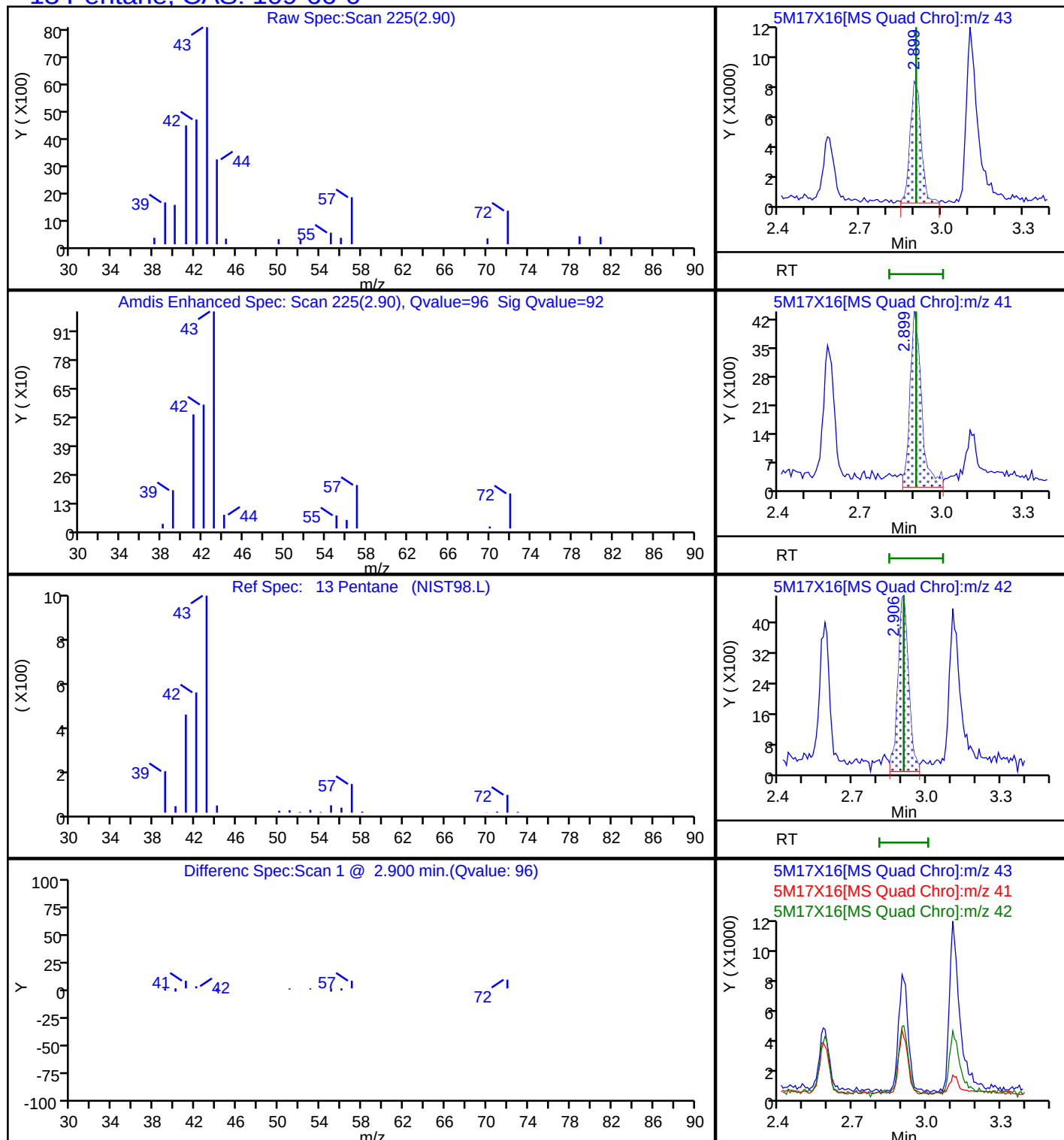
Dil. Factor: 1.0000

Method: AirMS_TO15_HP22820

Limit Group: MSV - TO15

Column: DB-624 30m .25mm (0.25 mm)

Detector: MS Quad

13 Pentane, CAS: 109-66-0

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D

Injection Date: 17-Mar-2022 17:38:19

Instrument ID: HP22820

Lims ID: 410-76254-A-1

Lab Sample ID: 410-76254-1

Client ID: 961

Operator ID: rrm00219

ALS Bottle#: 0

Worklist Smp#: 16

Purge Vol: 200.000 mL

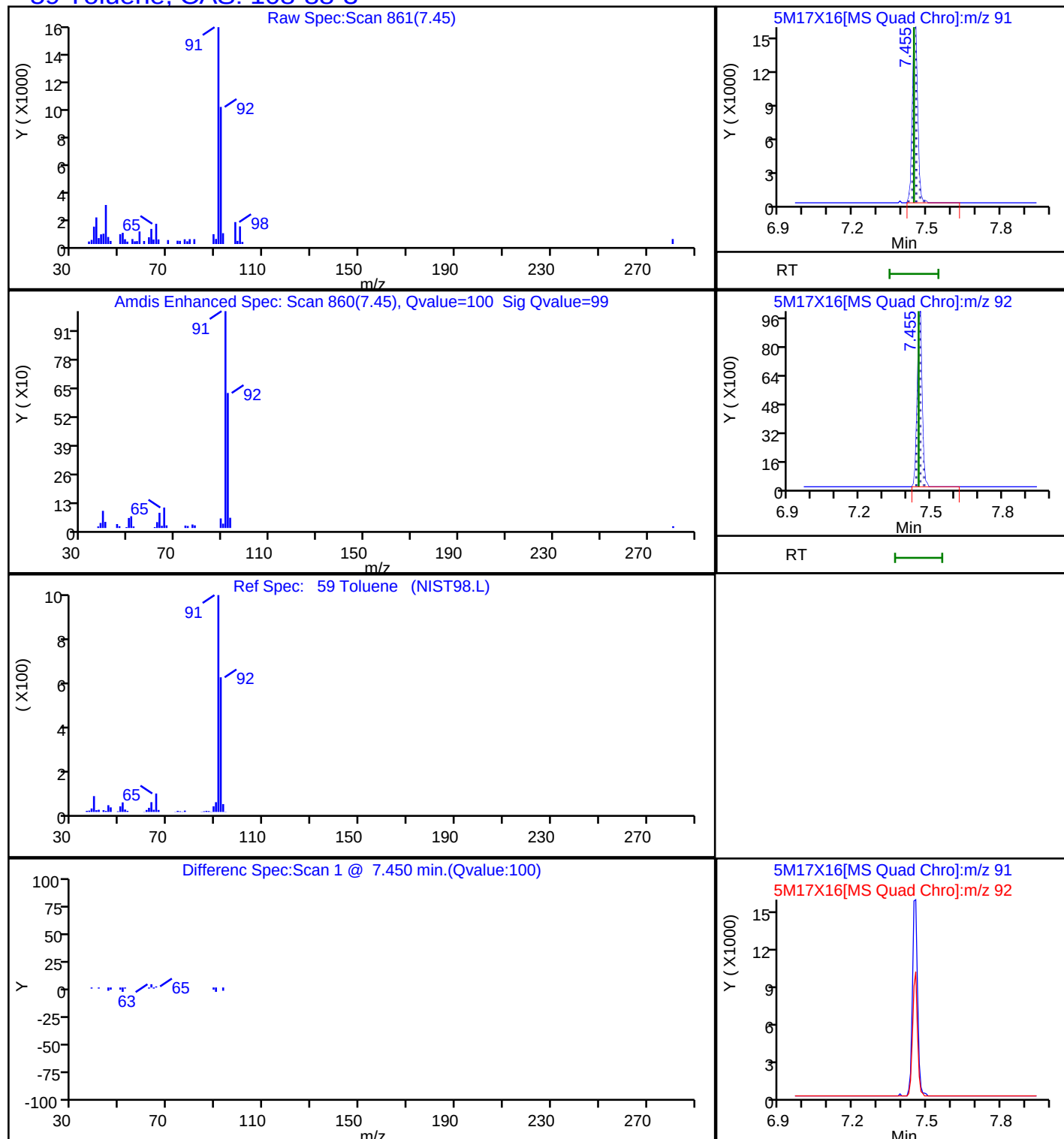
Dil. Factor: 1.0000

Method: AirMS_TO15_HP22820

Limit Group: MSV - TO15

Column: DB-624 30m .25mm (0.25 mm)

Detector: MS Quad

59 Toluene, CAS: 108-88-3

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D

Injection Date: 17-Mar-2022 17:38:19

Instrument ID: HP22820

Lims ID: 410-76254-A-1

Lab Sample ID: 410-76254-1

Client ID: 961

Operator ID: rrm00219

ALS Bottle#: 0

Worklist Smp#: 16

Purge Vol: 200.000 mL

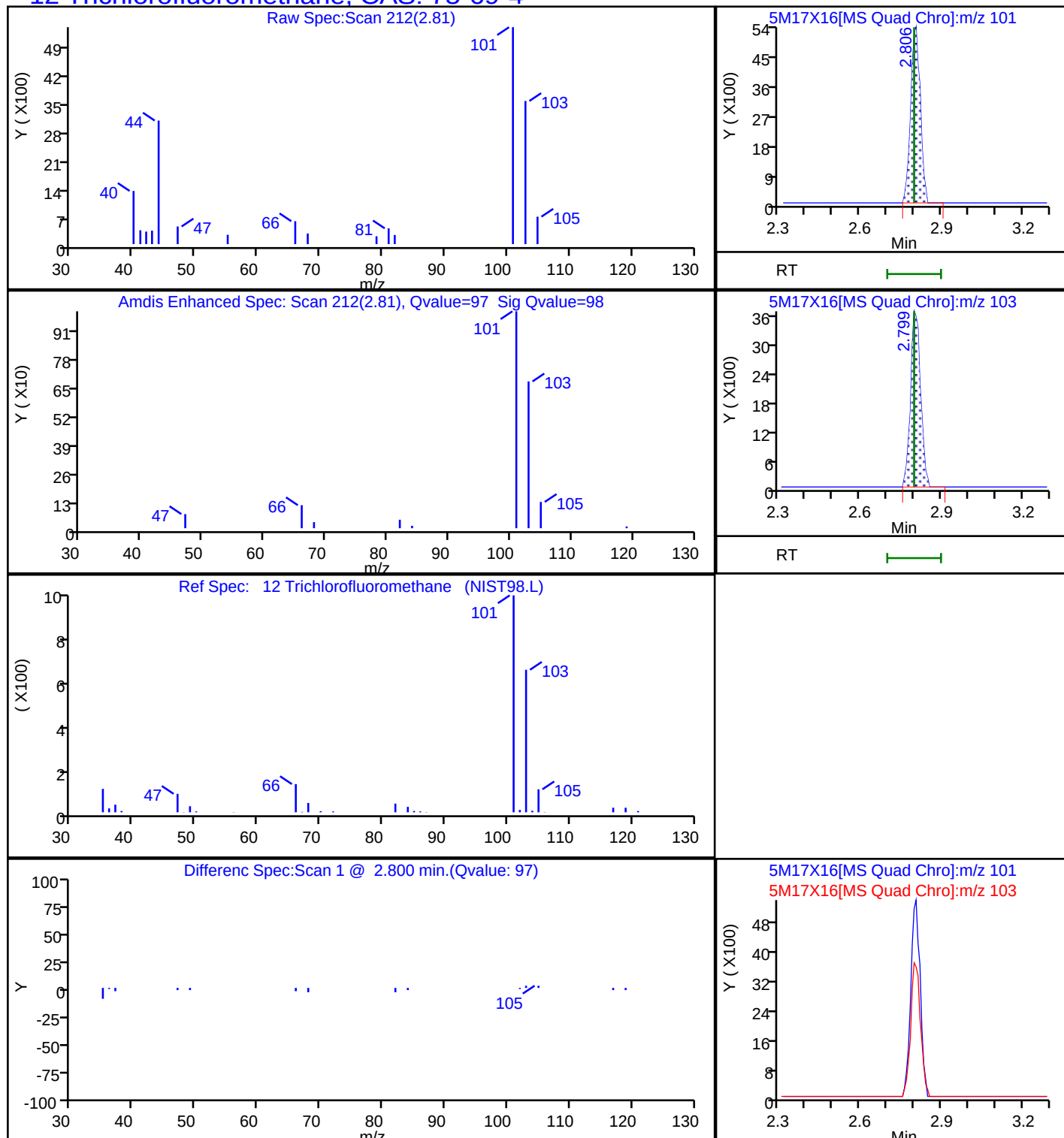
Dil. Factor: 1.0000

Method: AirMS_TO15_HP22820

Limit Group: MSV - TO15

Column: DB-624 30m .25mm (0.25 mm)

Detector: MS Quad

12 Trichlorofluoromethane, CAS: 75-69-4

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D

Injection Date: 17-Mar-2022 17:38:19

Instrument ID: HP22820

Lims ID: 410-76254-A-1

Lab Sample ID: 410-76254-1

Client ID: 961

Operator ID: rrm00219

ALS Bottle#: 0

Worklist Smp#: 16

Purge Vol: 200.000 mL

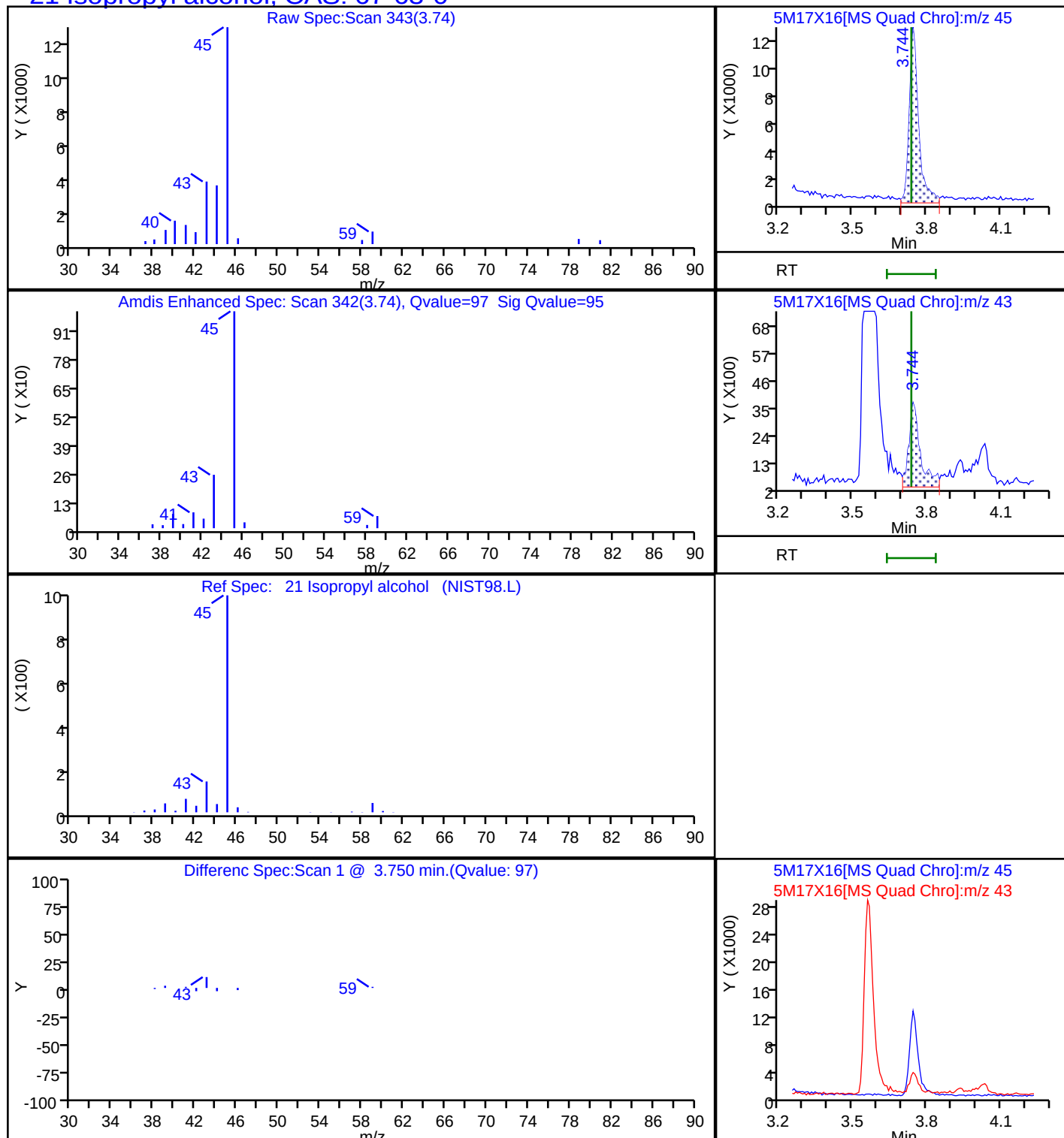
Dil. Factor: 1.0000

Method: AirMS_TO15_HP22820

Limit Group: MSV - TO15

Column: DB-624 30m .25mm (0.25 mm)

Detector: MS Quad

21 Isopropyl alcohol, CAS: 67-63-0

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D

Injection Date: 17-Mar-2022 17:38:19

Instrument ID: HP22820

Lims ID: 410-76254-A-1

Lab Sample ID: 410-76254-1

Client ID: 961

Operator ID: rrm00219

ALS Bottle#: 0

Worklist Smp#: 16

Purge Vol: 200.000 mL

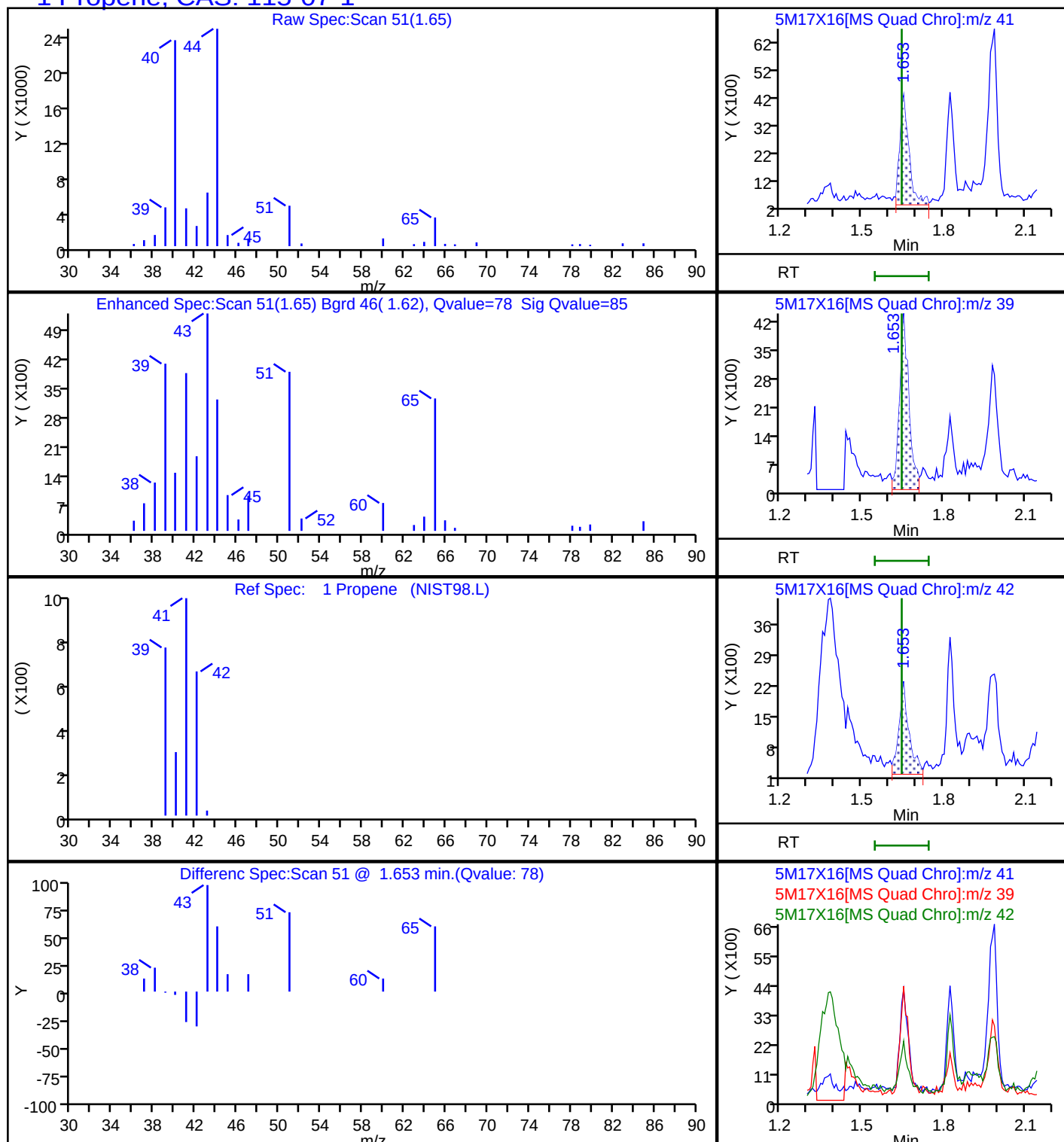
Dil. Factor: 1.0000

Method: AirMS_TO15_HP22820

Limit Group: MSV - TO15

Column: DB-624 30m .25mm (0.25 mm)

Detector: MS Quad

1 Propene, CAS: 115-07-1

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D

Injection Date: 17-Mar-2022 17:38:19

Instrument ID: HP22820

Lims ID: 410-76254-A-1

Lab Sample ID: 410-76254-1

Client ID: 961

Operator ID: rrm00219

ALS Bottle#: 0

Worklist Smp#: 16

Purge Vol: 200.000 mL

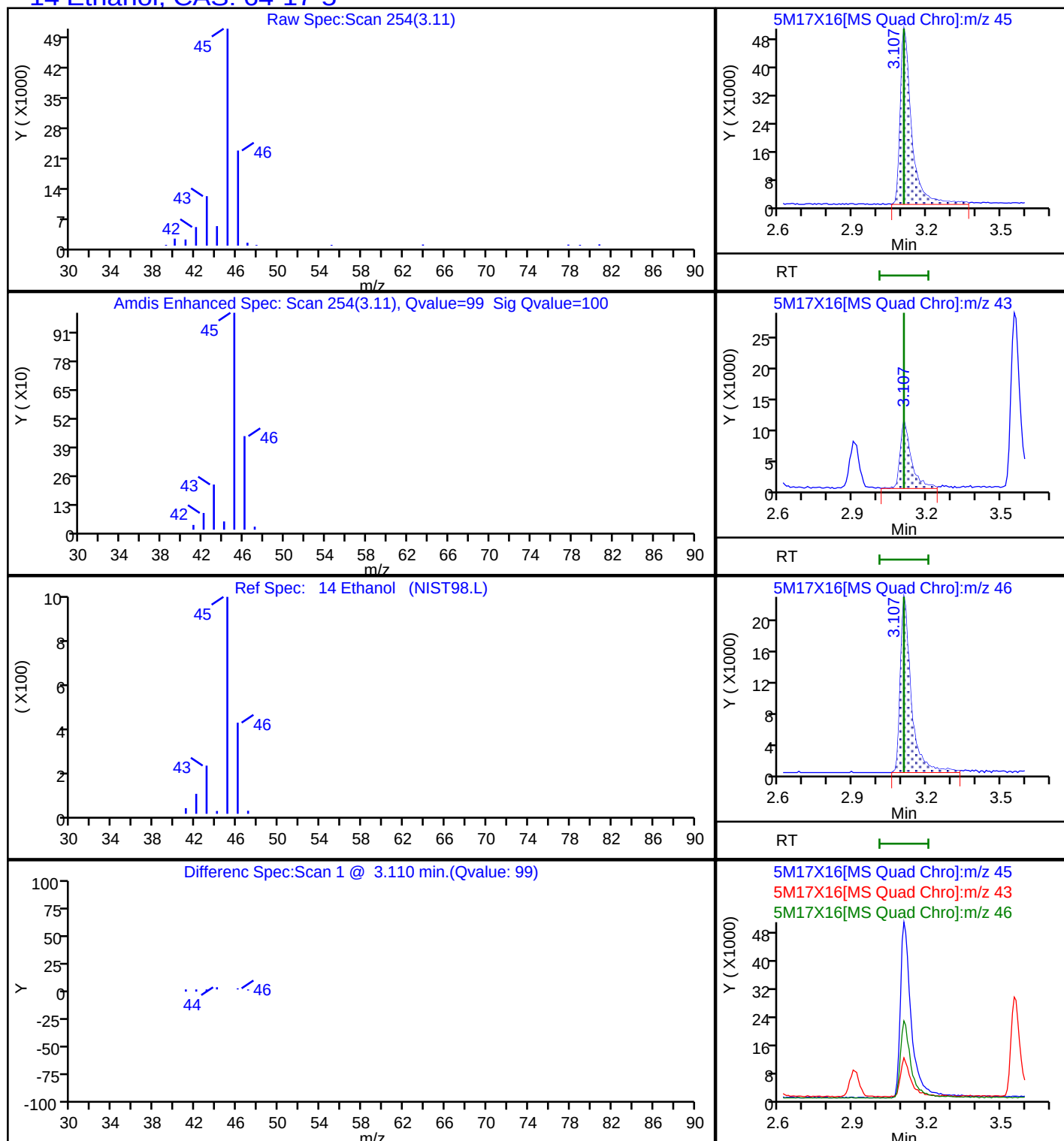
Dil. Factor: 1.0000

Method: AirMS_TO15_HP22820

Limit Group: MSV - TO15

Column: DB-624 30m .25mm (0.25 mm)

Detector: MS Quad

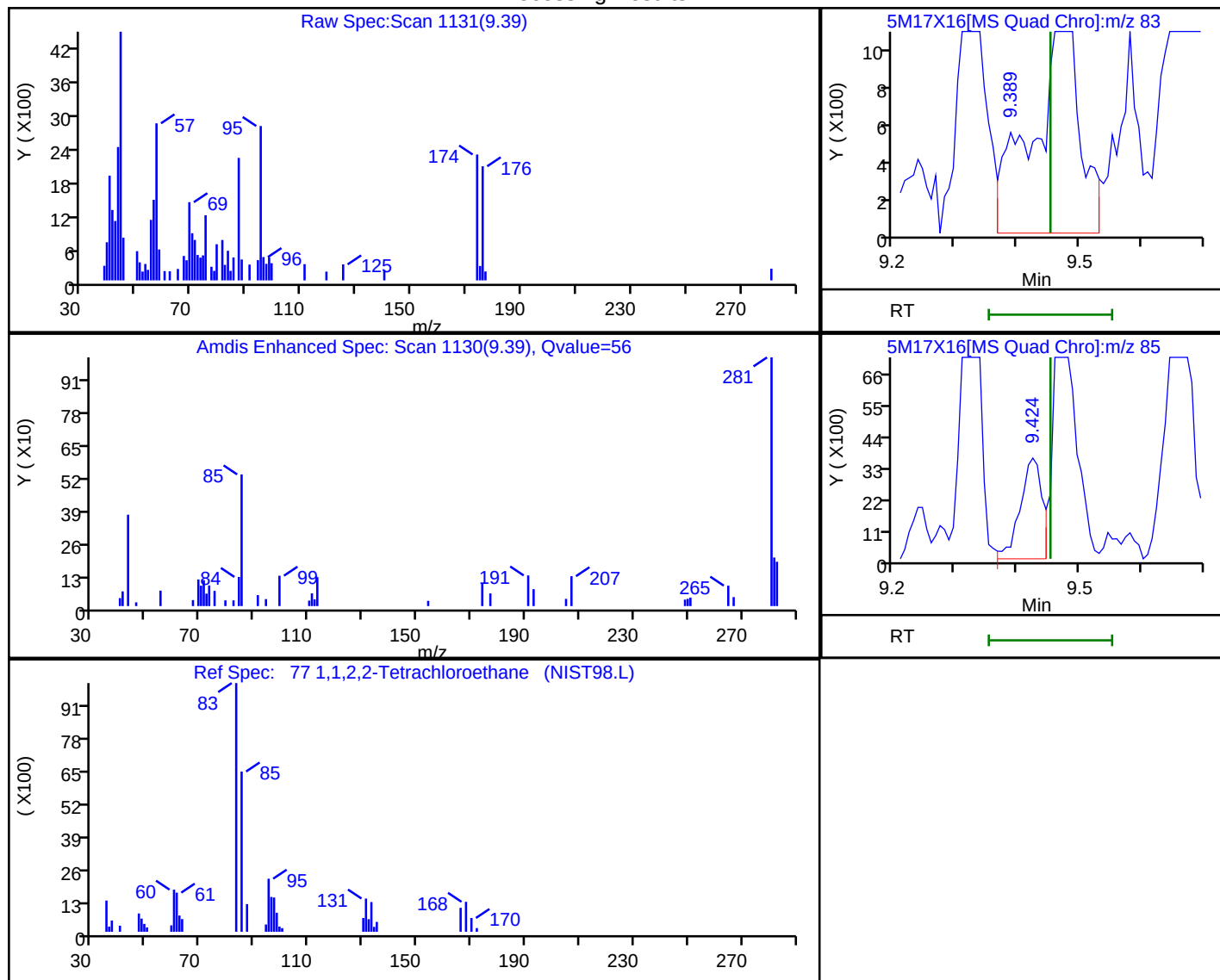
14 Ethanol, CAS: 64-17-5

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D
Injection Date: 17-Mar-2022 17:38:19 Instrument ID: HP22820
Lims ID: 410-76254-A-1 Lab Sample ID: 410-76254-1
Client ID: 961
Operator ID: rrm00219 ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: AirMS_TO15_HP22820 Limit Group: MSV - TO15
Column: DB-624 30m .25mm (0.25 mm) Detector MS Quad

77 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
9.39	83.00	7650	0.086030
9.42	85.00	8502	

Reviewer: proctore, 17-Mar-2022 19:30:04

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Env, LLC

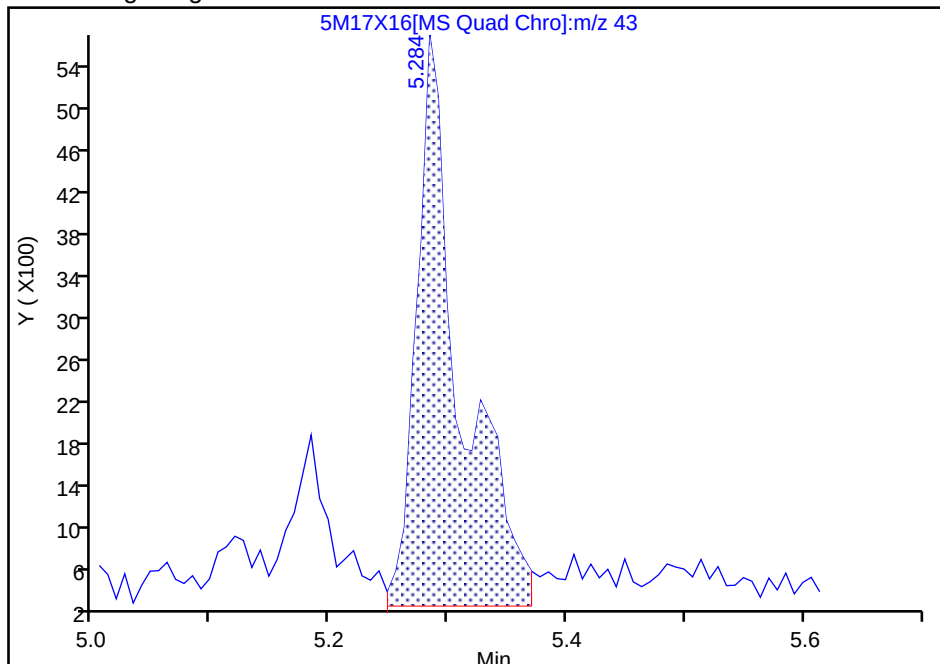
Data File:	\\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D				
Injection Date:	17-Mar-2022 17:38:19	Instrument ID:	HP22820		
Lims ID:	410-76254-A-1	Lab Sample ID:	410-76254-1		
Client ID:	961				
Operator ID:	rrm00219	ALS Bottle#:	0	Worklist Smp#:	16
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	AirMS_TO15_HP22820	Limit Group:	MSV - TO15		
Column:	DB-624 30m .25mm (0.25 mm)	Detector:	MS Quad		

35 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

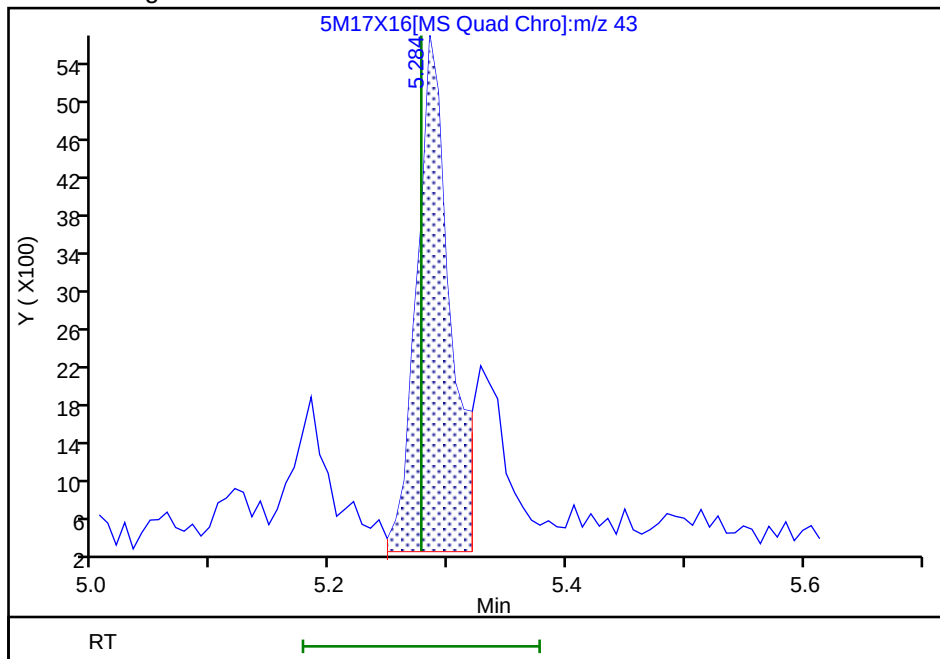
RT: 5.28
Area: 13740
Amount: 0.344098
Amount Units: ppb v/v

Processing Integration Results



RT: 5.28
Area: 10268
Amount: 0.257147
Amount Units: ppb v/v

Manual Integration Results



Reviewer: proctore, 17-Mar-2022 19:29:33

Audit Action: Split an Integrated Peak

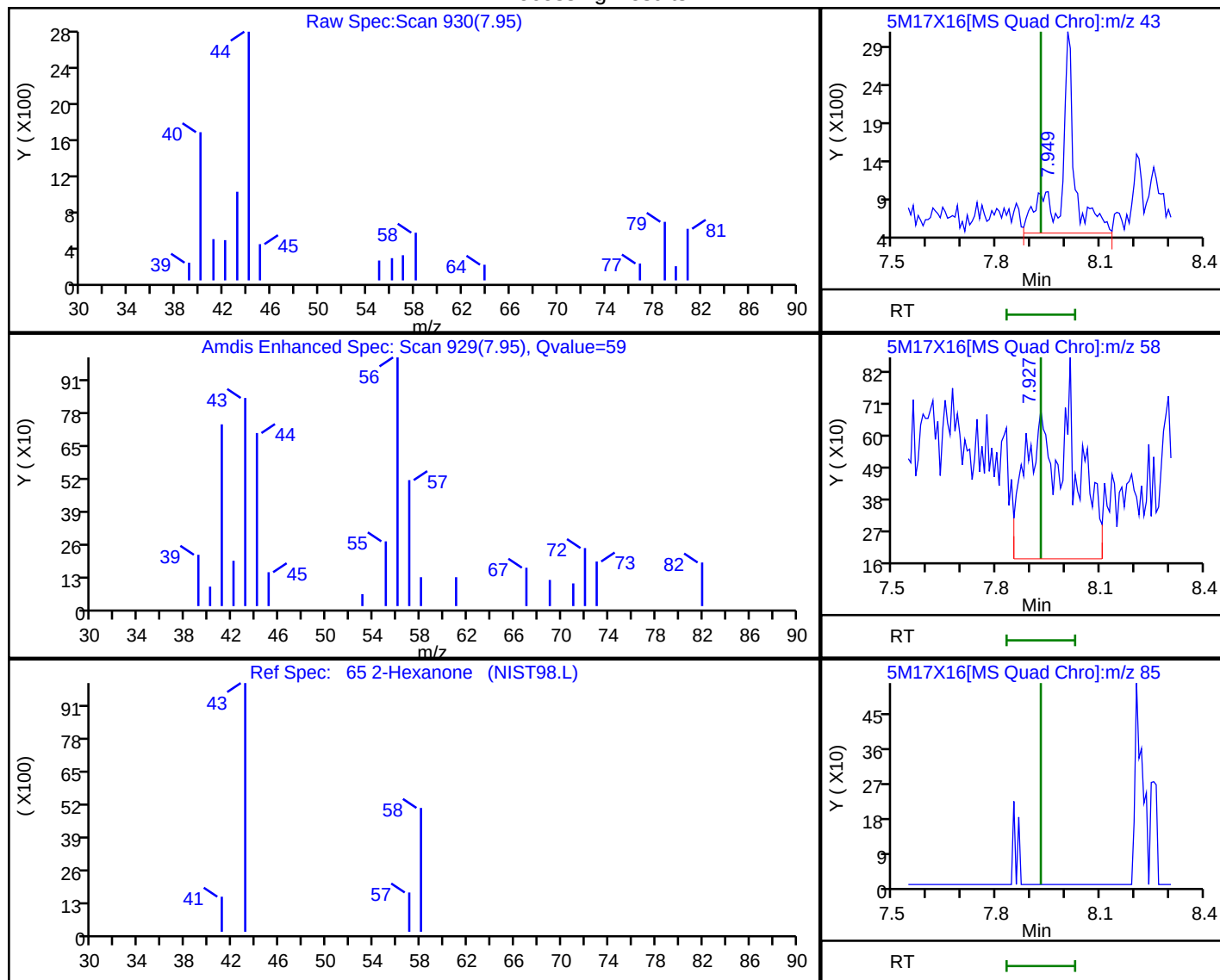
Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D
Injection Date: 17-Mar-2022 17:38:19 Instrument ID: HP22820
Lims ID: 410-76254-A-1 Lab Sample ID: 410-76254-1
Client ID: 961
Operator ID: rrm00219 ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: AirMS_TO15_HP22820 Limit Group: MSV - TO15
Column: DB-624 30m .25mm (0.25 mm) Detector MS Quad

65 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
7.95	43.00	7420	0.151756
7.93	58.00	5052	
7.93	85.00	0	

Reviewer: proctore, 17-Mar-2022 19:29:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Env, LLC

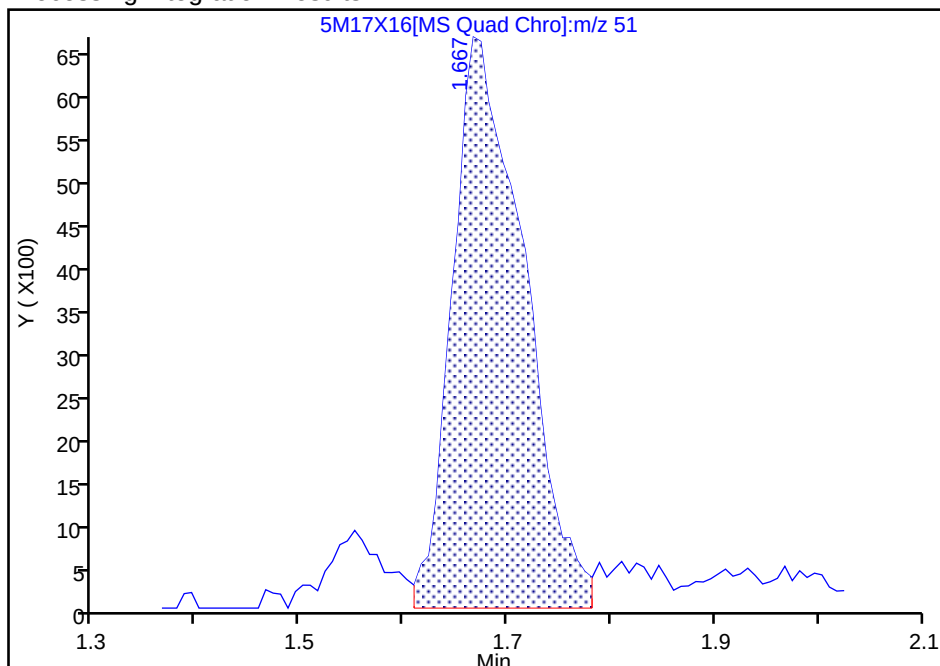
Data File:	\\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D				
Injection Date:	17-Mar-2022 17:38:19	Instrument ID:	HP22820		
Lims ID:	410-76254-A-1	Lab Sample ID:	410-76254-1		
Client ID:	961				
Operator ID:	rrm00219	ALS Bottle#:	0	Worklist Smp#:	16
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	AirMS_TO15_HP22820	Limit Group:	MSV - TO15		
Column:	DB-624 30m .25mm (0.25 mm)	Detector:	MS Quad		

3 Chlorodifluoromethane, CAS: 75-45-6

Signal: 1

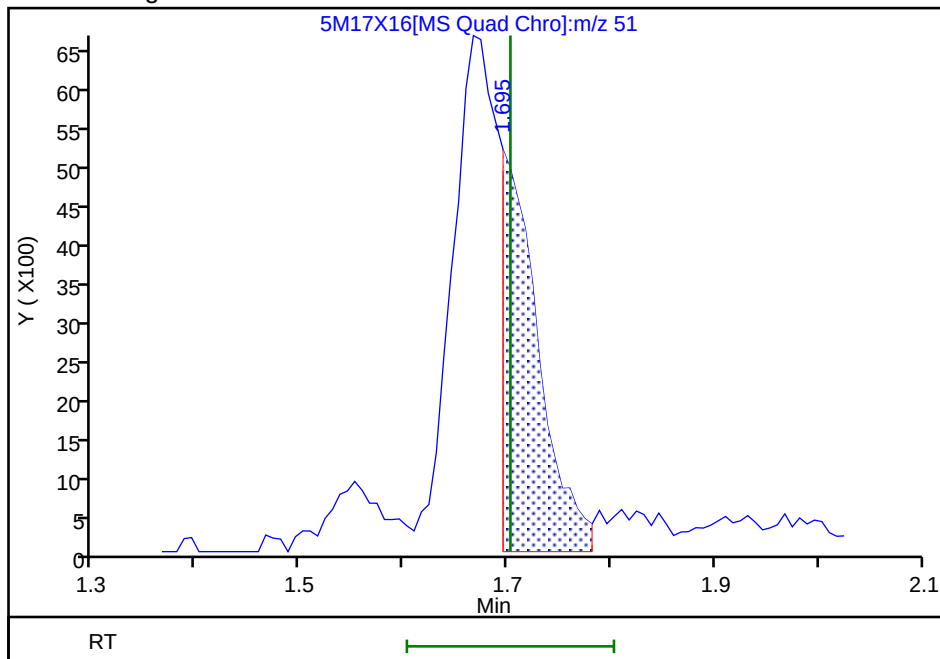
RT: 1.67
Area: 31947
Amount: 0.924074
Amount Units: ppb v/v

Processing Integration Results



RT: 1.70
Area: 11946
Amount: 0.345541
Amount Units: ppb v/v

Manual Integration Results



Reviewer: proctore, 17-Mar-2022 19:28:54

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D				
Injection Date:	17-Mar-2022 17:38:19	Instrument ID:	HP22820		
Lims ID:	410-76254-A-1	Lab Sample ID:	410-76254-1		
Client ID:	961				
Operator ID:	rrm00219	ALS Bottle#:	0	Worklist Smp#:	16
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	AirMS_TO15_HP22820	Limit Group:	MSV - TO15		
Column:	DB-624 30m .25mm (0.25 mm)	Detector:	MS Quad		

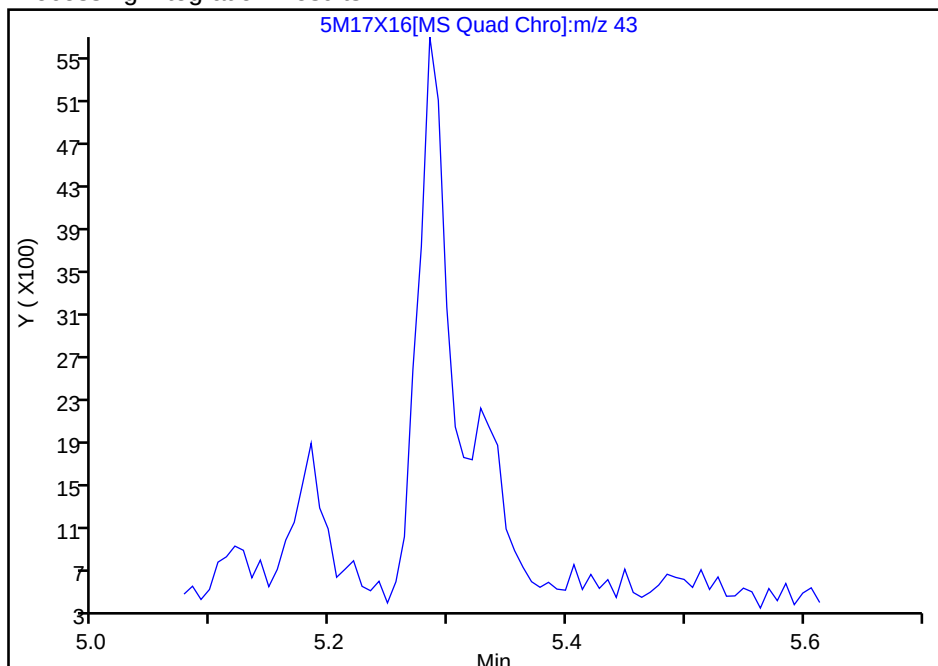
36 Ethyl acetate, CAS: 141-78-6

Signal: 1

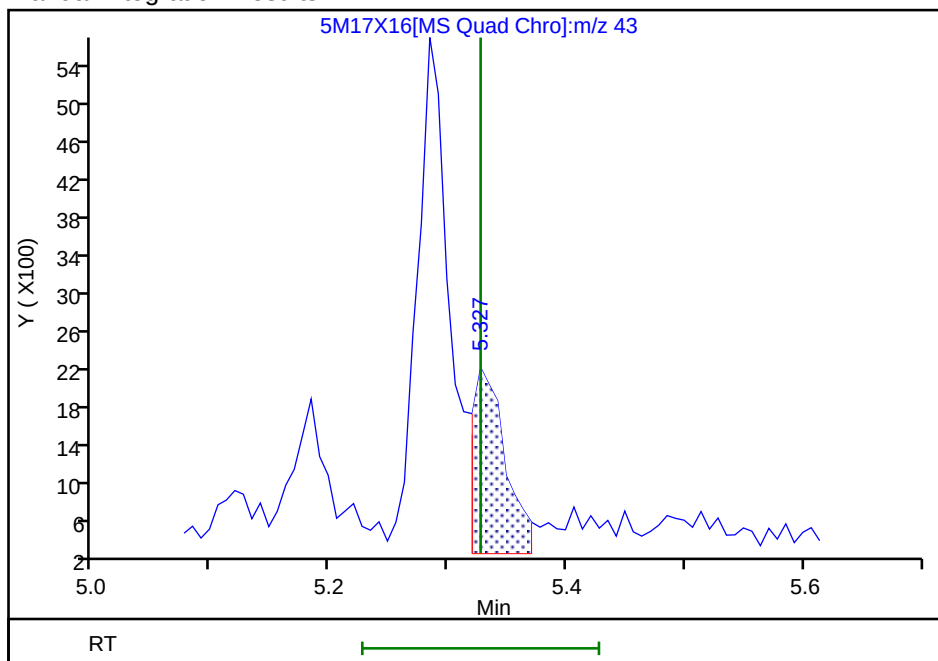
Not Detected

Expected RT: 5.33

Processing Integration Results



Manual Integration Results



RT: 5.33
Area: 3471
Amount: 0.062517
Amount Units: ppb v/v

Reviewer: proctore, 17-Mar-2022 19:29:43

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

May 25, 2022

Robert Sickler
NYDEC_Parsons - Syracuse, NY
301 Plainfield Road, Suite 350
Syracuse, NY 13212

Project Location: 7 Badger Ave, Endicott, NY
Client Job Number:
Project Number: 704050
Laboratory Work Order Number: 22E0860

Enclosed are results of analyses for samples as received by the laboratory on May 13, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

Table of Contents

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332NYDEC_Parsons - Syracuse, NY
301 Plainfield Road, Suite 350
Syracuse, NY 13212
ATTN: Robert Sickler

REPORT DATE: 5/25/2022

PURCHASE ORDER NUMBER: 142766

PROJECT NUMBER: 704050

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22E0860

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 7 Badger Ave, Endicott, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SVE SYSTEM OUTLET 05022022	22E0860-01	Soil Gas		EPA TO-15	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15**Qualifications:**

L-01

Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:**Benzyl chloride**B309154-BS1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**Hexachlorobutadiene**

22E0860-01[SVE SYSTEM OUTLET 05022022], B309154-BLK1, B309154-BS1, S071898-CCV1

Naphthalene22E0860-01[SVE SYSTEM OUTLET 05022022], B309154-BLK1, B309154-BS1, S071898-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**4-Methyl-2-pentanone (MIBK)**B309154-BS1, S071898-CCV1

V-36

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,2,4-Trichlorobenzene**

B309154-BS1, S071898-CCV1

Benzyl chloride

B309154-BS1, S071898-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington

Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: 7 Badger Ave, Endicott, NY
Date Received: 5/13/2022
Field Sample #: SVE SYSTEM OUTLET 05022022
Sample ID: 22E0860-01
Sample Matrix: Soil Gas
Sampled: 5/11/2022 15:50

Sample Description/Location:
Sub Description/Location:
Canister ID: 1092
Canister Size: 6 liter
Flow Controller ID: 4549
Sample Type: 1 hr

Work Order: 22E0860
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg):
Receipt Vacuum(in Hg): -8.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	32	8.0		76	19	4	5/23/22 22:53	BRF	
Benzene	ND	0.20		ND	0.64	4	5/23/22 22:53	BRF	
Benzyl chloride	ND	0.40		ND	2.1	4	5/23/22 22:53	BRF	
Bromodichloromethane	ND	0.20		ND	1.3	4	5/23/22 22:53	BRF	
Bromoform	ND	0.20		ND	2.1	4	5/23/22 22:53	BRF	
Bromomethane	ND	0.20		ND	0.78	4	5/23/22 22:53	BRF	
1,3-Butadiene	ND	0.20		ND	0.44	4	5/23/22 22:53	BRF	
2-Butanone (MEK)	38	8.0		110	24	4	5/23/22 22:53	BRF	
Carbon Disulfide	ND	2.0		ND	6.2	4	5/23/22 22:53	BRF	
Carbon Tetrachloride	ND	0.20		ND	1.3	4	5/23/22 22:53	BRF	
Chlorobenzene	ND	0.20		ND	0.92	4	5/23/22 22:53	BRF	
Chloroethane	ND	0.20		ND	0.53	4	5/23/22 22:53	BRF	
Chloroform	1.1	0.20		5.4	0.98	4	5/23/22 22:53	BRF	
Chloromethane	ND	0.40		ND	0.83	4	5/23/22 22:53	BRF	
Cyclohexane	ND	0.20		ND	0.69	4	5/23/22 22:53	BRF	
Dibromochloromethane	ND	0.20		ND	1.7	4	5/23/22 22:53	BRF	
1,2-Dibromoethane (EDB)	ND	0.20		ND	1.5	4	5/23/22 22:53	BRF	
1,2-Dichlorobenzene	ND	0.20		ND	1.2	4	5/23/22 22:53	BRF	
1,3-Dichlorobenzene	ND	0.20		ND	1.2	4	5/23/22 22:53	BRF	
1,4-Dichlorobenzene	ND	0.20		ND	1.2	4	5/23/22 22:53	BRF	
Dichlorodifluoromethane (Freon 12)	0.52	0.20		2.6	0.99	4	5/23/22 22:53	BRF	
1,1-Dichloroethane	ND	0.20		ND	0.81	4	5/23/22 22:53	BRF	
1,2-Dichloroethane	ND	0.20		ND	0.81	4	5/23/22 22:53	BRF	
1,1-Dichloroethylene	ND	0.20		ND	0.79	4	5/23/22 22:53	BRF	
cis-1,2-Dichloroethylene	2.0	0.20		7.8	0.79	4	5/23/22 22:53	BRF	
trans-1,2-Dichloroethylene	0.24	0.20		0.94	0.79	4	5/23/22 22:53	BRF	
1,2-Dichloropropane	ND	0.20		ND	0.92	4	5/23/22 22:53	BRF	
cis-1,3-Dichloropropene	ND	0.20		ND	0.91	4	5/23/22 22:53	BRF	
trans-1,3-Dichloropropene	ND	0.20		ND	0.91	4	5/23/22 22:53	BRF	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20		ND	1.4	4	5/23/22 22:53	BRF	
1,4-Dioxane	ND	2.0		ND	7.2	4	5/23/22 22:53	BRF	
Ethanol	26	8.0		48	15	4	5/23/22 22:53	BRF	
Ethyl Acetate	ND	2.0		ND	7.2	4	5/23/22 22:53	BRF	
Ethylbenzene	0.75	0.20		3.3	0.87	4	5/23/22 22:53	BRF	
4-Ethyltoluene	ND	0.20		ND	0.98	4	5/23/22 22:53	BRF	
Heptane	ND	0.20		ND	0.82	4	5/23/22 22:53	BRF	
Hexachlorobutadiene	ND	0.20	V-05	ND	2.1	4	5/23/22 22:53	BRF	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: 7 Badger Ave, Endicott, NY
 Date Received: 5/13/2022
Field Sample #: SVE SYSTEM OUTLET 05022022
Sample ID: 22E0860-01
 Sample Matrix: Soil Gas
 Sampled: 5/11/2022 15:50

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1092
 Canister Size: 6 liter
 Flow Controller ID: 4549
 Sample Type: 1 hr

Work Order: 22E0860
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg):
 Receipt Vacuum(in Hg): -8.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	8.0	V-05	ND	28	4	5/23/22	22:53	BRF
2-Hexanone (MBK)	ND	0.20		ND	0.82	4	5/23/22	22:53	BRF
Isopropanol	ND	8.0		ND	20	4	5/23/22	22:53	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.20		ND	0.72	4	5/23/22	22:53	BRF
Methylene Chloride	ND	2.0		ND	6.9	4	5/23/22	22:53	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.20		ND	0.82	4	5/23/22	22:53	BRF
Naphthalene	0.25	0.20		1.3	1.0	4	5/23/22	22:53	BRF
Propene	ND	8.0		ND	14	4	5/23/22	22:53	BRF
Styrene	ND	0.20		ND	0.85	4	5/23/22	22:53	BRF
1,1,2,2-Tetrachloroethane	ND	0.20		ND	1.4	4	5/23/22	22:53	BRF
Tetrachloroethylene	1.7	0.20	12	1.4	4	5/23/22	22:53	BRF	
Tetrahydrofuran	140	2.0	430	5.9	4	5/23/22	22:53	BRF	
Toluene	0.90	0.20	3.4	0.75	4	5/23/22	22:53	BRF	
1,2,4-Trichlorobenzene	ND	0.20	ND	1.5	4	5/23/22	22:53	BRF	
1,1,1-Trichloroethane	1.9	0.20	10	1.1	4	5/23/22	22:53	BRF	
1,1,2-Trichloroethane	ND	0.20	ND	1.1	4	5/23/22	22:53	BRF	
Trichloroethylene	130	0.20	710	1.1	4	5/23/22	22:53	BRF	
Trichlorofluoromethane (Freon 11)	ND	0.80	ND	4.5	4	5/23/22	22:53	BRF	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80	ND	6.1	4	5/23/22	22:53	BRF	
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98	4	5/23/22	22:53	BRF	
1,3,5-Trimethylbenzene	0.26	0.20	1.3	0.98	4	5/23/22	22:53	BRF	
Vinyl Acetate	ND	4.0	ND	14	4	5/23/22	22:53	BRF	
Vinyl Chloride	ND	0.20	ND	0.51	4	5/23/22	22:53	BRF	
m&p-Xylene	2.8	0.40	12	1.7	4	5/23/22	22:53	BRF	
o-Xylene	2.0	0.20	8.9	0.87	4	5/23/22	22:53	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	89.6	70-130	5/23/22 22:53

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Sample Extraction Data**Prep Method: TO-15 Prep****Analytical Method: EP**

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
22E0860-01 [SVE SYSTEM OUTLET 05022022]	B309154	1.5	1	N/A	1000	200	75	05/23/22

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result		Limits		Limit	
Batch B309154 - TO-15 Prep											
Blank (B309154-BLK1)					Prepared & Analyzed: 05/23/22						
Acetone	ND	0.80									
Benzene	ND	0.020									
Benzyl chloride	ND	0.020									
Bromodichloromethane	ND	0.020									
Bromoform	ND	0.020									
Bromomethane	ND	0.020									
1,3-Butadiene	ND	0.020									
2-Butanone (MEK)	ND	0.80									
Carbon Disulfide	ND	0.20									
Carbon Tetrachloride	ND	0.020									
Chlorobenzene	ND	0.020									
Chloroethane	ND	0.020									
Chloroform	ND	0.020									
Chloromethane	ND	0.040									
Cyclohexane	ND	0.020									
Dibromochloromethane	ND	0.020									
1,2-Dibromoethane (EDB)	ND	0.020									
1,2-Dichlorobenzene	ND	0.020									
1,3-Dichlorobenzene	ND	0.020									
1,4-Dichlorobenzene	ND	0.020									
Dichlorodifluoromethane (Freon 12)	ND	0.020									
1,1-Dichloroethane	ND	0.020									
1,2-Dichloroethane	ND	0.020									
1,1-Dichloroethylene	ND	0.020									
cis-1,2-Dichloroethylene	ND	0.020									
trans-1,2-Dichloroethylene	ND	0.020									
1,2-Dichloropropane	ND	0.020									
cis-1,3-Dichloropropene	ND	0.020									
trans-1,3-Dichloropropene	ND	0.020									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.020									
1,4-Dioxane	ND	0.20									
Ethanol	ND	0.80									
Ethyl Acetate	ND	0.20									
Ethylbenzene	ND	0.020									
4-Ethyltoluene	ND	0.020									
Heptane	ND	0.020									
Hexachlorobutadiene	ND	0.020									V-0
Hexane	ND	0.80									
2-Hexanone (MBK)	ND	0.020									
Isopropanol	ND	0.80									
Methyl tert-Butyl Ether (MTBE)	ND	0.020									
Methylene Chloride	ND	0.20									
4-Methyl-2-pentanone (MIBK)	ND	0.020									
Naphthalene	ND	0.020									V-0
Propene	ND	0.80									
Styrene	ND	0.020									

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	

Batch B309154 - TO-15 Prep
Blank (B309154-BLK1)

Prepared & Analyzed: 05/23/22

1,1,2,2-Tetrachloroethane	ND	0.020
Tetrachloroethylene	ND	0.020
Tetrahydrofuran	ND	0.20
Toluene	ND	0.020
1,2,4-Trichlorobenzene	ND	0.020
1,1,1-Trichloroethane	ND	0.020
1,1,2-Trichloroethane	ND	0.020
Trichloroethylene	ND	0.020
Trichlorofluoromethane (Freon 11)	ND	0.080
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080
1,2,4-Trimethylbenzene	ND	0.020
1,3,5-Trimethylbenzene	ND	0.020
Vinyl Acetate	ND	0.40
Vinyl Chloride	ND	0.020
m&p-Xylene	ND	0.040
o-Xylene	ND	0.020

<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>6.94</i>	<i>8.00</i>	<i>86.7</i>	<i>70-130</i>
--	-------------	-------------	-------------	---------------

LCS (B309154-BS1)

Prepared & Analyzed: 05/23/22

Acetone	5.12	5.00	102	70-130
Benzene	5.06	5.00	101	70-130
Benzyl chloride	7.02	5.00	140 *	70-130
Bromodichloromethane	5.31	5.00	106	70-130
Bromoform	4.98	5.00	99.6	70-130
Bromomethane	4.71	5.00	94.3	70-130
1,3-Butadiene	4.44	5.00	88.8	70-130
2-Butanone (MEK)	5.82	5.00	116	70-130
Carbon Disulfide	5.00	5.00	100	70-130
Carbon Tetrachloride	5.56	5.00	111	70-130
Chlorobenzene	5.11	5.00	102	70-130
Chloroethane	4.52	5.00	90.4	70-130
Chloroform	5.21	5.00	104	70-130
Chloromethane	4.48	5.00	89.5	70-130
Cyclohexane	5.24	5.00	105	70-130
Dibromochloromethane	5.32	5.00	106	70-130
1,2-Dibromoethane (EDB)	5.47	5.00	109	70-130
1,2-Dichlorobenzene	5.32	5.00	106	70-130
1,3-Dichlorobenzene	5.61	5.00	112	70-130
1,4-Dichlorobenzene	5.59	5.00	112	70-130
Dichlorodifluoromethane (Freon 12)	5.00	5.00	99.9	70-130
1,1-Dichloroethane	5.80	5.00	116	70-130
1,2-Dichloroethane	5.41	5.00	108	70-130
1,1-Dichloroethylene	5.00	5.00	100	70-130
cis-1,2-Dichloroethylene	5.03	5.00	101	70-130
trans-1,2-Dichloroethylene	5.67	5.00	113	70-130
1,2-Dichloropropane	5.09	5.00	102	70-130

L-01, V-36

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							
Batch B309154 - TO-15 Prep											
LCS (B309154-BS1)					Prepared & Analyzed: 05/23/22						
cis-1,3-Dichloropropene	5.08				5.00		102	70-130			
trans-1,3-Dichloropropene	5.46				5.00		109	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.54				5.00		90.8	70-130			
1,4-Dioxane	5.35				5.00		107	70-130			
Ethanol	4.26				5.00		85.2	70-130			
Ethyl Acetate	5.17				5.00		103	70-130			
Ethylbenzene	5.27				5.00		105	70-130			
4-Ethyltoluene	5.43				5.00		109	70-130			
Heptane	5.52				5.00		110	70-130			
Hexachlorobutadiene	4.35				5.00		87.0	70-130			V-05
Hexane	5.52				5.00		110	70-130			
2-Hexanone (MBK)	5.98				5.00		120	70-130			
Isopropanol	3.82				5.00		76.5	70-130			
Methyl tert-Butyl Ether (MTBE)	5.44				5.00		109	70-130			
Methylene Chloride	4.75				5.00		95.0	70-130			
4-Methyl-2-pentanone (MIBK)	4.66				5.00		93.2	70-130			V-20
Naphthalene	4.40				5.00		87.9	70-130			V-05
Propene	4.05				5.00		81.0	70-130			
Styrene	5.38				5.00		108	70-130			
1,1,2,2-Tetrachloroethane	5.20				5.00		104	70-130			
Tetrachloroethylene	4.81				5.00		96.2	70-130			
Tetrahydrofuran	5.05				5.00		101	70-130			
Toluene	5.18				5.00		104	70-130			
1,2,4-Trichlorobenzene	5.48				5.00		110	70-130			V-36
1,1,1-Trichloroethane	5.56				5.00		111	70-130			
1,1,2-Trichloroethane	5.43				5.00		109	70-130			
Trichloroethylene	5.22				5.00		104	70-130			
Trichlorofluoromethane (Freon 11)	5.11				5.00		102	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.24				5.00		105	70-130			
1,2,4-Trimethylbenzene	5.37				5.00		107	70-130			
1,3,5-Trimethylbenzene	5.63				5.00		113	70-130			
Vinyl Acetate	4.59				5.00		91.9	70-130			
Vinyl Chloride	4.53				5.00		90.5	70-130			
m&p-Xylene	11.5				10.0		115	70-130			
o-Xylene	5.62				5.00		112	70-130			
Surrogate: 4-Bromofluorobenzene (1)	7.82				8.00		97.8	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S069304-ICV1)			Lab File ID: K22A075019.D			Analyzed: 03/16/22 23:55			
Bromochloromethane (1)	104138	2.987	102745	2.987	101	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	315817	3.584	303801	3.579	104	60 - 140	0.0050	+/-0.50	
Chlorobenzene-d5 (1)	233658	5.159	223280	5.159	105	60 - 140	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S071898-CCV1)			Lab File ID: K22A143004.D			Analyzed: 05/23/22 08:46			
Bromochloromethane (1)	112237	2.992	102745	2.987	109	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	309006	3.584	303801	3.579	102	60 - 140	0.0050	+/-0.50	
Chlorobenzene-d5 (1)	221424	5.163	223280	5.159	99	60 - 140	0.0040	+/-0.50	
LCS (B309154-BS1)			Lab File ID: K22A143005.D			Analyzed: 05/23/22 09:15			
Bromochloromethane (1)	110165	2.992	112237	2.992	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	303661	3.584	309006	3.584	98	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	218489	5.164	221424	5.163	99	60 - 140	0.0010	+/-0.50	
Blank (B309154-BLK1)			Lab File ID: K22A143008.D			Analyzed: 05/23/22 11:00			
Bromochloromethane (1)	113129	2.992	112237	2.992	101	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	287693	3.584	309006	3.584	93	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	212738	5.163	221424	5.163	96	60 - 140	0.0000	+/-0.50	
SVE SYSTEM OUTLET 05022022 (22E0860-01)			Lab File ID: K22A143025.D			Analyzed: 05/23/22 22:53			
Bromochloromethane (1)	105443	2.996	112237	2.992	94	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	271534	3.588	309006	3.584	88	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	205027	5.164	221424	5.163	93	60 - 140	0.0010	+/-0.50	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CONTINUING CALIBRATION CHECK

EPA TO-15

S071898-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.57	1.001504	0.914579		-8.7	30
Benzene	A	5.00	4.89	0.633704	0.6197161		-2.2	30
Benzyl chloride	A	5.00	6.09	0.4421081	0.5385071		21.8	30
Bromodichloromethane	A	5.00	5.10	0.4484742	0.4578759		2.1	30
Bromoform	A	5.00	4.71	0.5313608	0.5001734		-5.9	30
Bromomethane	A	5.00	4.47	0.56846	0.5080392		-10.6	30
1,3-Butadiene	A	5.00	4.47	0.4941294	0.4420503		-10.5	30
2-Butanone (MEK)	A	5.00	5.31	1.143339	1.214673		6.2	30
Carbon Disulfide	A	5.00	4.65	2.101097	1.953694		-7.0	30
Carbon Tetrachloride	A	5.00	5.30	0.3583793	0.3801971		6.1	30
Chlorobenzene	A	5.00	4.86	0.7307357	0.7108534		-2.7	30
Chloroethane	A	5.00	4.28	0.3728969	0.3189822		-14.5	30
Chloroform	A	5.00	4.94	1.205973	1.192334		-1.1	30
Chloromethane	A	5.00	4.33	0.5843503	0.5056728		-13.5	30
Cyclohexane	A	5.00	4.99	0.2474396	0.2468302		-0.2	30
Dibromochloromethane	A	5.00	5.04	0.5365627	0.5404726		0.7	30
1,2-Dibromoethane (EDB)	A	5.00	5.19	0.4696428	0.4874557		3.8	30
1,2-Dichlorobenzene	A	5.00	4.56	0.5425411	0.4949635		-8.8	30
1,3-Dichlorobenzene	A	5.00	4.90	0.5577685	0.5465207		-2.0	30
1,4-Dichlorobenzene	A	5.00	5.15	0.4841678	0.4982874		2.9	30
Dichlorodifluoromethane (Freon 12)	A	5.00	4.82	1.437368	1.385326		-3.6	30
1,1-Dichloroethane	A	5.00	5.49	0.9933117	1.090806		9.8	30
1,2-Dichloroethane	A	5.00	5.18	0.7604954	0.7872342		3.5	30
1,1-Dichloroethylene	A	5.00	4.72	1.025417	0.9681941		-5.6	30
cis-1,2-Dichloroethylene	A	5.00	4.83	0.8174361	0.7903276		-3.3	30
trans-1,2-Dichloroethylene	A	5.00	5.37	0.8265571	0.8872653		7.3	30
1,2-Dichloropropane	A	5.00	4.86	0.2525551	0.2455357		-2.8	30
cis-1,3-Dichloropropene	A	5.00	4.96	0.4042268	0.4014058		-0.7	30
trans-1,3-Dichloropropene	A	5.00	5.16	0.2821754	0.2914895		3.3	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	4.57	1.571176	1.43686		-8.5	30
1,4-Dioxane	A	5.00	4.91	0.1252326	0.1230474		-1.7	30
Ethanol	A	5.00	4.28	0.2348114	0.2007894		-14.5	30
Ethyl Acetate	A	5.00	4.70	0.1797762	0.1691848		-5.9	30
Ethylbenzene	A	5.00	5.02	1.166103	1.171631		0.5	30
4-Ethyltoluene	A	5.00	4.97	1.091537	1.084746		-0.6	30
Heptane	A	5.00	5.24	0.2370975	0.2484094		4.8	30
Hexachlorobutadiene	A	5.00	3.38	0.3846991	0.2601778		-32.4	30 *
Hexane	L	5.00	5.23	0.6117314	0.6593334		4.6	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S071898-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	5.42	0.5293432	0.5738493		8.4	30
Isopropanol	A	5.00	4.30	1.233151	1.060342		-14.0	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.23	1.403919	1.467865		4.6	30
Methylene Chloride	A	5.00	4.55	0.7749664	0.7049226		-9.0	30
4-Methyl-2-pentanone (MIBK)	A	5.00	6.80	0.1036732	0.1409578		36.0	30 *
Naphthalene	A	5.00	2.86	0.9067208	0.5194956		-42.7	30 *
Propene	A	5.00	3.92	0.4757755	0.3735239		-21.5	30
Styrene	A	5.00	5.14	0.6195572	0.6368379		2.8	30
1,1,2,2-Tetrachloroethane	A	5.00	4.71	0.7649521	0.720594		-5.8	30
Tetrachloroethylene	A	5.00	4.52	0.4025457	0.3639425		-9.6	30
Tetrahydrofuran	A	5.00	4.85	0.6192362	0.6001158		-3.1	30
Toluene	A	5.00	5.02	0.9588753	0.9635234		0.5	30
1,2,4-Trichlorobenzene	A	5.00	3.77	0.2888558	0.2176602		-24.6	30
1,1,1-Trichloroethane	A	5.00	5.45	0.4005075	0.4368122		9.1	30
1,1,2-Trichloroethane	A	5.00	5.07	0.333956	0.3387962		1.4	30
Trichloroethylene	A	5.00	4.98	0.2669212	0.2657191		-0.5	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.86	1.362748	1.325923		-2.7	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	4.99	1.311243	1.308203		-0.2	30
1,2,4-Trimethylbenzene	A	5.00	4.93	0.9101206	0.8980996		-1.3	30
1,3,5-Trimethylbenzene	A	5.00	5.29	0.9305716	0.9845726		5.8	30
Vinyl Acetate	A	5.00	4.86	1.456769	1.414749		-2.9	30
Vinyl Chloride	A	5.00	4.26	0.6700674	0.5709062		-14.8	30
m&p-Xylene	A	10.0	11.3	0.9901728	1.114586		12.6	30
o-Xylene	A	5.00	5.32	0.9006378	0.9581906		6.4	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

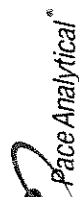
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CHAIN OF CUSTODY RECORD (AIR)

39 Spruce Street
 East Longmeadow, MA 01028

Page 1 of 1

Client Information Company Name: <u>Parsons</u> Address: <u>301 Plainfield RD Sprague NH 13212</u> Phone: <u>315-715-2793</u> Project Name: <u>Former Canada Dry #704250 (containing NH)</u> Project Location: <u>7 Badger Ave, Endicott, NY</u> Project Number: <u>1102699/05/267</u> Project Manager: <u>Robert Sickler</u> Pace Quote Name/Number: <u>Rsickler@catsonline.com</u> Invoice Recipient: <u>Peter Lyon</u> Sampled By: <u>Peter Lyon</u>		Analysis Requested Due Date: ☐ 7-Day ☐ 10-Day ☐ Rush Approval Required: ☐ 1-Day ☐ 3-Day ☐ 4-Day ☐ Data Delivery: ☐ PDF ☐ EXCEL ☐ Other: ☐ CLP Like Data Pkg Required: ☐ Email To: ☐ Fax To #: ☐		Lab Receipt Pressure Initial Pressure: <u>-30</u> Final Pressure: <u>49</u> Lab Receipt Pressure: <u>TO-15</u>		Please fill out completely, sign, date and retain the yellow copy for your records Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply For summa canister and flow controller information please refer to Con-Test's Air Media Agreement	
Collection Data Client Use: <u>SWEETENED WATER 0502202 5542</u> Client Sample ID / Description: <u>1500</u> Beginning Date/Time: <u>5/11/22 1900</u> Ending Date/Time: <u>5/11/22 1900</u> Duration: <u>50</u> minutes Flow Rate: <u>56</u> m ³ /min Matrix: <u>SL</u> Code: <u>56</u> Volume: <u>6</u> Liters		Special Requirements MA MCP Required: ☐ MCP Certification Form Required: ☐ CT RCP Required: ☐ RCP Certification Form Required: ☐ Other: ☐		Matrix Codes: SG = SOIL GAS IA = INDOOR AIR AMB = AMBIENT SS = SUB SLAB D = DUP BL = BLANK O = Other _____			
Relinquished by: (signature) <u>[Signature]</u> Received by: (signature) <u>Pace Analytical</u> Relinquished by: (signature) <u>[Signature]</u> Received by: (signature) <u>[Signature]</u> Relinquished by: (signature) <u>[Signature]</u> Received by: (signature) <u>[Signature]</u>		Date/Time: <u>5/11/22 1900</u> Date/Time: <u>5/11/22 1900</u> Date/Time: <u>5/11/22 1700</u> Date/Time: <u>5/11/22 1700</u> Date/Time: <u>5/11/22 1700</u>		Project Entity Government: ☐ Municipality: ☐ MWRA: ☐ Federal: ☐ 21 J: ☐ School: ☐ City: ☐ Brownfield: ☐ MBTA: ☐ Other: ☐			
Comments: <u>Send LMO Report to Thomas@gesonline and</u> <u>GESInbox@gesonline.com</u>		Please use the following codes to indicate possible sample concentration within the Conc Code column above: H - High; M - Medium; L - Low; C - Clean; U - Unknown		NEIAC and AIHA-LAP, LLC Accredited PCB ONLY: ☐ Soxhlet ☐ Chromatogram: ☐ AIHA-LAP, LLC ☐			

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Friday, 5/13/2022 at 9:44 am

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FROM

East Syracuse, NY US

Label Created

05/12/2022 2:34 PM

PACKAGE RECEIVED BY FEDEX

NORTH SYRACUSE, NY

05/12/2022 4:16 PM

IN TRANSIT

NEWARK, NJ

05/13/2022 12:04 AM

OUT FOR DELIVERY

WINDSOR LOCKS, CT

05/13/2022 7:36 AM

DELIVERED

EAST LONGMEADOW, MA US

Delivered

5/13/2022 at 9:44 AM

MANAGE DELIVERY

Travel History

TIME ZONE

Local Scan Time



Friday, May 13,
2022

9:44 AM	EAST LONGMEADOW, MA	Delivered
7:36 AM	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:28 AM	WINDSOR LOCKS, CT	At local FedEx facility
3:18 AM	NEWARK, NJ	Departed FedEx hub

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before
Relinquishing Over
Samples _____



con-test®
ANALYTICAL LABORATORY

Doc# 278 Rev 6 2017

**Air Media Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False
Statement will be brought to the attention of the Client - State True or False**

Client Parsens

Received By RAP Date 5/13 Time _____
How were the samples received? In Cooler _____ On Ice _____ No Ice _____
In Box T Ambient _____ Melted Ice _____
Were samples within Temperature Compliance? 2-6°C By Gun # _____ Actual Temp - _____
By Blank # _____ Actual Temp - _____
Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T
Are there any loose caps/valves on any samples? F
Is COC in ink/ Legible? T
Did COC Include all Client T Analysis T Sampler Name T
Pertinent Information? Project T ID's T Collection Dates/Times T
Are Sample Labels filled out and legible? T
Are there Rushes? F Who was notified? _____
Samples are received within holding time? T
Proper Media Used? T Individually Certified Cans? F
Are there Trip Blanks? F Is there enough Volume? T

Containers:	#	Size	Regulator	Duration	Accessories:			
Summa Cans	<u>1</u>	<u>6L</u>	<u>1</u>	<u>1 hr</u>	Nut/Ferrule		IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/TO-11s					Tedlar			

Can #'s					Reg #'s				
<u>1092</u>					<u>454a</u>				
Unused Media					Pufs/TO-17's				

Comments:

June 27, 2022

Jessica Thomas
NYDEC_GES - Syracuse, NY
6780 Northern Boulevard
East Syracuse, NY 13057

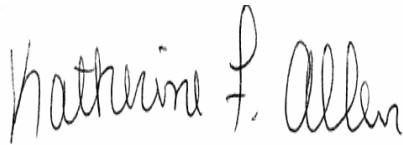
Project Location: 2+7 Badger Ave, Endicott, NY
Client Job Number:
Project Number: 704050
Laboratory Work Order Number: 22F0926

Enclosed are results of analyses for samples as received by the laboratory on June 15, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager



QA Officer
Katherine Allen



Laboratory Manager
Daren Damboragian

NYDEC_GES - Syracuse, NY
6780 Northern Boulevard
East Syracuse, NY 13057
ATTN: Jessica Thomas

REPORT DATE: 6/27/2022

PURCHASE ORDER NUMBER: 142766

PROJECT NUMBER: 704050

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22F0926

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 2+7 Badger Ave, Endicott, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SVESYSTEMOUTLET06132022	22F0926-01	Soil Gas		EPA TO-15	
HSVE09WELLPOINT06132022	22F0926-02	Soil Gas		EPA TO-15	
HSVE10WELLPOINT06132022	22F0926-03	Soil Gas		EPA TO-15	
HSVE11WELLPOINT06132022	22F0926-04	Soil Gas		EPA TO-15	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15**Qualifications:**

- L-01 Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:**Benzyl chloride, Ethyl Acetate, Methyl tert-Butyl Ether (MTBE)**

B311592-BS1

- L-03 Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Vinyl Acetate**

22F0926-01[SVESYSTEMOUTLET06132022], 22F0926-02[HSVE09WELLPOINT06132022], 22F0926-03[HSVE10WELLPOINT06132022],
22F0926-04[HSVE11WELLPOINT06132022], B311592-BLK1, B311592-BS1, B311592-DUP1

- V-05 Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**Vinyl Acetate**

22F0926-01[SVESYSTEMOUTLET06132022], 22F0926-02[HSVE09WELLPOINT06132022], 22F0926-03[HSVE10WELLPOINT06132022],
22F0926-04[HSVE11WELLPOINT06132022], B311592-BLK1, B311592-BS1, B311592-DUP1, S073173-CCV1

- V-20 Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Benzyl chloride, Methyl tert-Butyl Ether (MTBE)**

B311592-BS1, S073173-CCV1

- V-36 Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,2,4-Trichlorobenzene, Benzyl chloride**

B311592-BS1, S073173-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Tod E. Kopycinski
Laboratory Director

ANALYTICAL RESULTS

Project Location: 2+7 Badger Ave, Endicott, NY
 Date Received: 6/15/2022
Field Sample #: SVESYSTEMOUTLET0613202
Sample ID: 22F0926-01
 Sample Matrix: Soil Gas
 Sampled: 6/13/2022 14:25

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1984
 Canister Size: 6 liter
 Flow Controller ID: 4342
 Sample Type: 1 hr

Work Order: 22F0926
 Initial Vacuum(in Hg): -28.5
 Final Vacuum(in Hg): 01
 Receipt Vacuum(in Hg): -3.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	31	4.0	2.4		73	9.5	5.7	2	6/23/22 18:41		BRF
Benzene	0.14	0.10	0.076		0.43	0.32	0.24	2	6/23/22 18:41		BRF
Benzyl chloride	ND	0.20	0.088		ND	1.0	0.46	2	6/23/22 18:41		BRF
Bromodichloromethane	ND	0.10	0.070		ND	0.67	0.47	2	6/23/22 18:41		BRF
Bromoform	ND	0.10	0.068		ND	1.0	0.70	2	6/23/22 18:41		BRF
Bromomethane	ND	0.10	0.067		ND	0.39	0.26	2	6/23/22 18:41		BRF
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	6/23/22 18:41		BRF
2-Butanone (MEK)	38	4.0	1.1		110	12	3.1	2	6/23/22 18:41		BRF
Carbon Disulfide	ND	1.0	0.092		ND	3.1	0.29	2	6/23/22 18:41		BRF
Carbon Tetrachloride	ND	0.10	0.080		ND	0.63	0.50	2	6/23/22 18:41		BRF
Chlorobenzene	ND	0.10	0.066		ND	0.46	0.31	2	6/23/22 18:41		BRF
Chloroethane	ND	0.10	0.089		ND	0.26	0.23	2	6/23/22 18:41		BRF
Chloroform	0.18	0.10	0.095		0.90	0.49	0.46	2	6/23/22 18:41		BRF
Chloromethane	0.23	0.20	0.079		0.47	0.41	0.16	2	6/23/22 18:41		BRF
Cyclohexane	ND	0.10	0.060		ND	0.34	0.21	2	6/23/22 18:41		BRF
Dibromochloromethane	ND	0.10	0.066		ND	0.85	0.56	2	6/23/22 18:41		BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060		ND	0.77	0.46	2	6/23/22 18:41		BRF
1,2-Dichlorobenzene	ND	0.10	0.057		ND	0.60	0.35	2	6/23/22 18:41		BRF
1,3-Dichlorobenzene	ND	0.10	0.055		ND	0.60	0.33	2	6/23/22 18:41		BRF
1,4-Dichlorobenzene	0.12	0.10	0.065		0.70	0.60	0.39	2	6/23/22 18:41		BRF
Dichlorodifluoromethane (Freon 12)	0.72	0.10	0.098		3.6	0.49	0.48	2	6/23/22 18:41		BRF
1,1-Dichloroethane	ND	0.10	0.087		ND	0.40	0.35	2	6/23/22 18:41		BRF
1,2-Dichloroethane	ND	0.10	0.091		ND	0.40	0.37	2	6/23/22 18:41		BRF
1,1-Dichloroethylene	ND	0.10	0.076		ND	0.40	0.30	2	6/23/22 18:41		BRF
cis-1,2-Dichloroethylene	2.0	0.10	0.073		7.9	0.40	0.29	2	6/23/22 18:41		BRF
trans-1,2-Dichloroethylene	0.16	0.10	0.079		0.63	0.40	0.31	2	6/23/22 18:41		BRF
1,2-Dichloropropane	ND	0.10	0.054		ND	0.46	0.25	2	6/23/22 18:41		BRF
cis-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.24	2	6/23/22 18:41		BRF
trans-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	6/23/22 18:41		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098		ND	0.70	0.69	2	6/23/22 18:41		BRF
1,4-Dioxane	ND	1.0	0.083		ND	3.6	0.30	2	6/23/22 18:41		BRF
Ethanol	150	20	8.8		290	38	17	10	6/23/22 19:11		BRF
Ethyl Acetate	ND	1.0	0.51		ND	3.6	1.8	2	6/23/22 18:41		BRF
Ethylbenzene	0.21	0.10	0.058		0.89	0.43	0.25	2	6/23/22 18:41		BRF
4-Ethyltoluene	ND	0.10	0.061		ND	0.49	0.30	2	6/23/22 18:41		BRF
Heptane	ND	0.10	0.064		ND	0.41	0.26	2	6/23/22 18:41		BRF
Hexachlorobutadiene	ND	0.10	0.082		ND	1.1	0.88	2	6/23/22 18:41		BRF
Hexane	ND	4.0	0.52		ND	14	1.8	2	6/23/22 18:41		BRF
2-Hexanone (MBK)	ND	0.10	0.050		ND	0.41	0.20	2	6/23/22 18:41		BRF
Isopropanol	ND	4.0	0.69		ND	9.8	1.7	2	6/23/22 18:41		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077		ND	0.36	0.28	2	6/23/22 18:41		BRF
Methylene Chloride	ND	1.0	0.46		ND	3.5	1.6	2	6/23/22 18:41		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.053		ND	0.41	0.22	2	6/23/22 18:41		BRF
Naphthalene	0.15	0.10	0.075		0.79	0.52	0.40	2	6/23/22 18:41		BRF
Propene	ND	4.0	0.88		ND	6.9	1.5	2	6/23/22 18:41		BRF
Styrene	ND	0.10	0.053		ND	0.43	0.22	2	6/23/22 18:41		BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.054		ND	0.69	0.37	2	6/23/22 18:41		BRF

ANALYTICAL RESULTS

Project Location: 2+7 Badger Ave, Endicott, NY
Date Received: 6/15/2022
Field Sample #: SVESYSTEMOUTLET0613202
Sample ID: 22F0926-01
Sample Matrix: Soil Gas
Sampled: 6/13/2022 14:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 1984
Canister Size: 6 liter
Flow Controller ID: 4342
Sample Type: 1 hr

Work Order: 22F0926
Initial Vacuum(in Hg): -28.5
Final Vacuum(in Hg): 01
Receipt Vacuum(in Hg): -3.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.18	0.10	0.076		1.2	0.68	0.52	2	6/23/22 18:41	BRF
Tetrahydrofuran	110	5.0	0.82		320	15	2.4	10	6/23/22 19:11	BRF
Toluene	0.41	0.10	0.057		1.6	0.38	0.22	2	6/23/22 18:41	BRF
1,2,4-Trichlorobenzene	ND	0.10	0.093		ND	0.74	0.69	2	6/23/22 18:41	BRF
1,1,1-Trichloroethane	0.30	0.10	0.079		1.6	0.55	0.43	2	6/23/22 18:41	BRF
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	6/23/22 18:41	BRF
Trichloroethylene	34	0.10	0.067		180	0.54	0.36	2	6/23/22 18:41	BRF
Trichlorofluoromethane (Freon 11)	0.40	0.40	0.12		2.3	2.2	0.66	2	6/23/22 18:41	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	6/23/22 18:41	BRF
1,2,4-Trimethylbenzene	0.20	0.10	0.044		0.97	0.49	0.22	2	6/23/22 18:41	BRF
1,3,5-Trimethylbenzene	ND	0.10	0.053		ND	0.49	0.26	2	6/23/22 18:41	BRF
Vinyl Acetate	ND	2.0	0.54	V-05, L-03	ND	7.0	1.9	2	6/23/22 18:41	BRF
Vinyl Chloride	0.17	0.10	0.090		0.44	0.26	0.23	2	6/23/22 18:41	BRF
m&p-Xylene	0.70	0.20	0.11		3.0	0.87	0.49	2	6/23/22 18:41	BRF
o-Xylene	0.37	0.10	0.051		1.6	0.43	0.22	2	6/23/22 18:41	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.6	70-130	6/23/22 19:11
4-Bromofluorobenzene (1)	99.6	70-130	6/23/22 18:41

ANALYTICAL RESULTS

Project Location: 2+7 Badger Ave, Endicott, NY
 Date Received: 6/15/2022
Field Sample #: H5VE09WELLPOINT0613202
Sample ID: 22F0926-02
 Sample Matrix: Soil Gas
 Sampled: 6/13/2022 15:15

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2062
 Canister Size: 6 liter
 Flow Controller ID: 4341
 Sample Type: 1 hr

Work Order: 22F0926
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): 01
 Receipt Vacuum(in Hg): -2.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	13	4.0	2.4		31	9.5	5.7	2	6/23/22 20:40		BRF
Benzene	ND	0.10	0.076		ND	0.32	0.24	2	6/23/22 20:40		BRF
Benzyl chloride	ND	0.20	0.088		ND	1.0	0.46	2	6/23/22 20:40		BRF
Bromodichloromethane	ND	0.10	0.070		ND	0.67	0.47	2	6/23/22 20:40		BRF
Bromoform	ND	0.10	0.068		ND	1.0	0.70	2	6/23/22 20:40		BRF
Bromomethane	ND	0.10	0.067		ND	0.39	0.26	2	6/23/22 20:40		BRF
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	6/23/22 20:40		BRF
2-Butanone (MEK)	ND	4.0	1.1		ND	12	3.1	2	6/23/22 20:40		BRF
Carbon Disulfide	ND	1.0	0.092		ND	3.1	0.29	2	6/23/22 20:40		BRF
Carbon Tetrachloride	ND	0.10	0.080		ND	0.63	0.50	2	6/23/22 20:40		BRF
Chlorobenzene	ND	0.10	0.066		ND	0.46	0.31	2	6/23/22 20:40		BRF
Chloroethane	ND	0.10	0.089		ND	0.26	0.23	2	6/23/22 20:40		BRF
Chloroform	0.31	0.10	0.095		1.5	0.49	0.46	2	6/23/22 20:40		BRF
Chloromethane	ND	0.20	0.079		ND	0.41	0.16	2	6/23/22 20:40		BRF
Cyclohexane	ND	0.10	0.060		ND	0.34	0.21	2	6/23/22 20:40		BRF
Dibromochloromethane	ND	0.10	0.066		ND	0.85	0.56	2	6/23/22 20:40		BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060		ND	0.77	0.46	2	6/23/22 20:40		BRF
1,2-Dichlorobenzene	ND	0.10	0.057		ND	0.60	0.35	2	6/23/22 20:40		BRF
1,3-Dichlorobenzene	ND	0.10	0.055		ND	0.60	0.33	2	6/23/22 20:40		BRF
1,4-Dichlorobenzene	ND	0.10	0.065		ND	0.60	0.39	2	6/23/22 20:40		BRF
Dichlorodifluoromethane (Freon 12)	0.72	0.10	0.098		3.6	0.49	0.48	2	6/23/22 20:40		BRF
1,1-Dichloroethane	ND	0.10	0.087		ND	0.40	0.35	2	6/23/22 20:40		BRF
1,2-Dichloroethane	ND	0.10	0.091		ND	0.40	0.37	2	6/23/22 20:40		BRF
1,1-Dichloroethylene	ND	0.10	0.076		ND	0.40	0.30	2	6/23/22 20:40		BRF
cis-1,2-Dichloroethylene	1.4	0.10	0.073		5.7	0.40	0.29	2	6/23/22 20:40		BRF
trans-1,2-Dichloroethylene	0.20	0.10	0.079		0.79	0.40	0.31	2	6/23/22 20:40		BRF
1,2-Dichloropropane	ND	0.10	0.054		ND	0.46	0.25	2	6/23/22 20:40		BRF
cis-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.24	2	6/23/22 20:40		BRF
trans-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	6/23/22 20:40		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098		ND	0.70	0.69	2	6/23/22 20:40		BRF
1,4-Dioxane	ND	1.0	0.083		ND	3.6	0.30	2	6/23/22 20:40		BRF
Ethanol	13	4.0	1.8		24	7.5	3.3	2	6/23/22 20:40		BRF
Ethyl Acetate	ND	1.0	0.51		ND	3.6	1.8	2	6/23/22 20:40		BRF
Ethylbenzene	0.14	0.10	0.058		0.63	0.43	0.25	2	6/23/22 20:40		BRF
4-Ethyltoluene	ND	0.10	0.061		ND	0.49	0.30	2	6/23/22 20:40		BRF
Heptane	ND	0.10	0.064		ND	0.41	0.26	2	6/23/22 20:40		BRF
Hexachlorobutadiene	ND	0.10	0.082		ND	1.1	0.88	2	6/23/22 20:40		BRF
Hexane	ND	4.0	0.52		ND	14	1.8	2	6/23/22 20:40		BRF
2-Hexanone (MBK)	ND	0.10	0.050		ND	0.41	0.20	2	6/23/22 20:40		BRF
Isopropanol	ND	4.0	0.69		ND	9.8	1.7	2	6/23/22 20:40		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077		ND	0.36	0.28	2	6/23/22 20:40		BRF
Methylene Chloride	ND	1.0	0.46		ND	3.5	1.6	2	6/23/22 20:40		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.053		ND	0.41	0.22	2	6/23/22 20:40		BRF
Naphthalene	0.11	0.10	0.075		0.57	0.52	0.40	2	6/23/22 20:40		BRF
Propene	ND	4.0	0.88		ND	6.9	1.5	2	6/23/22 20:40		BRF
Styrene	ND	0.10	0.053		ND	0.43	0.22	2	6/23/22 20:40		BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.054		ND	0.69	0.37	2	6/23/22 20:40		BRF

ANALYTICAL RESULTS

Project Location: 2+7 Badger Ave, Endicott, NY
Date Received: 6/15/2022
Field Sample #: HSVE09WELLPOINT0613202
Sample ID: 22F0926-02
Sample Matrix: Soil Gas
Sampled: 6/13/2022 15:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 2062
Canister Size: 6 liter
Flow Controller ID: 4341
Sample Type: 1 hr

Work Order: 22F0926
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): 01
Receipt Vacuum(in Hg): -2.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	1.9	0.10	0.076		13	0.68	0.52	2	6/23/22 20:40	BRF
Tetrahydrofuran	11	1.0	0.16		32	2.9	0.48	2	6/23/22 20:40	BRF
Toluene	0.16	0.10	0.057		0.62	0.38	0.22	2	6/23/22 20:40	BRF
1,2,4-Trichlorobenzene	ND	0.10	0.093		ND	0.74	0.69	2	6/23/22 20:40	BRF
1,1,1-Trichloroethane	0.20	0.10	0.079		1.1	0.55	0.43	2	6/23/22 20:40	BRF
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	6/23/22 20:40	BRF
Trichloroethylene	250	1.0	0.67		1300	5.4	3.6	20	6/23/22 21:08	BRF
Trichlorofluoromethane (Freon 11)	ND	0.40	0.12		ND	2.2	0.66	2	6/23/22 20:40	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	6/23/22 20:40	BRF
1,2,4-Trimethylbenzene	0.61	0.10	0.044		3.0	0.49	0.22	2	6/23/22 20:40	BRF
1,3,5-Trimethylbenzene	0.14	0.10	0.053		0.67	0.49	0.26	2	6/23/22 20:40	BRF
Vinyl Acetate	ND	2.0	0.54	L-03, V-05	ND	7.0	1.9	2	6/23/22 20:40	BRF
Vinyl Chloride	ND	0.10	0.090		ND	0.26	0.23	2	6/23/22 20:40	BRF
m&p-Xylene	0.55	0.20	0.11		2.4	0.87	0.49	2	6/23/22 20:40	BRF
o-Xylene	0.37	0.10	0.051		1.6	0.43	0.22	2	6/23/22 20:40	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	98.3	70-130	6/23/22 20:40
4-Bromofluorobenzene (1)	94.4	70-130	6/23/22 21:08

ANALYTICAL RESULTS

Project Location: 2+7 Badger Ave, Endicott, NY
 Date Received: 6/15/2022
Field Sample #: HSVE10WELLPOINT0613202
Sample ID: 22F0926-03
 Sample Matrix: Soil Gas
 Sampled: 6/13/2022 14:20

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1045
 Canister Size: 6 liter
 Flow Controller ID: 4134
 Sample Type: 1 hr

Work Order: 22F0926
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): 01
 Receipt Vacuum(in Hg): -2.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	ND	4.0	2.4		ND	9.5	5.7	2	6/23/22 21:37		BRF
Benzene	0.13	0.10	0.076		0.42	0.32	0.24	2	6/23/22 21:37		BRF
Benzyl chloride	ND	0.20	0.088		ND	1.0	0.46	2	6/23/22 21:37		BRF
Bromodichloromethane	ND	0.10	0.070		ND	0.67	0.47	2	6/23/22 21:37		BRF
Bromoform	ND	0.10	0.068		ND	1.0	0.70	2	6/23/22 21:37		BRF
Bromomethane	ND	0.10	0.067		ND	0.39	0.26	2	6/23/22 21:37		BRF
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	6/23/22 21:37		BRF
2-Butanone (MEK)	ND	4.0	1.1		ND	12	3.1	2	6/23/22 21:37		BRF
Carbon Disulfide	ND	1.0	0.092		ND	3.1	0.29	2	6/23/22 21:37		BRF
Carbon Tetrachloride	ND	0.10	0.080		ND	0.63	0.50	2	6/23/22 21:37		BRF
Chlorobenzene	ND	0.10	0.066		ND	0.46	0.31	2	6/23/22 21:37		BRF
Chloroethane	ND	0.10	0.089		ND	0.26	0.23	2	6/23/22 21:37		BRF
Chloroform	0.41	0.10	0.095		2.0	0.49	0.46	2	6/23/22 21:37		BRF
Chloromethane	0.47	0.20	0.079		0.97	0.41	0.16	2	6/23/22 21:37		BRF
Cyclohexane	ND	0.10	0.060		ND	0.34	0.21	2	6/23/22 21:37		BRF
Dibromochloromethane	ND	0.10	0.066		ND	0.85	0.56	2	6/23/22 21:37		BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060		ND	0.77	0.46	2	6/23/22 21:37		BRF
1,2-Dichlorobenzene	ND	0.10	0.057		ND	0.60	0.35	2	6/23/22 21:37		BRF
1,3-Dichlorobenzene	ND	0.10	0.055		ND	0.60	0.33	2	6/23/22 21:37		BRF
1,4-Dichlorobenzene	ND	0.10	0.065		ND	0.60	0.39	2	6/23/22 21:37		BRF
Dichlorodifluoromethane (Freon 12)	0.75	0.10	0.098		3.7	0.49	0.48	2	6/23/22 21:37		BRF
1,1-Dichloroethane	ND	0.10	0.087		ND	0.40	0.35	2	6/23/22 21:37		BRF
1,2-Dichloroethane	ND	0.10	0.091		ND	0.40	0.37	2	6/23/22 21:37		BRF
1,1-Dichloroethylene	ND	0.10	0.076		ND	0.40	0.30	2	6/23/22 21:37		BRF
cis-1,2-Dichloroethylene	3.7	0.10	0.073		15	0.40	0.29	2	6/23/22 21:37		BRF
trans-1,2-Dichloroethylene	0.47	0.10	0.079		1.8	0.40	0.31	2	6/23/22 21:37		BRF
1,2-Dichloropropane	ND	0.10	0.054		ND	0.46	0.25	2	6/23/22 21:37		BRF
cis-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.24	2	6/23/22 21:37		BRF
trans-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	6/23/22 21:37		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098		ND	0.70	0.69	2	6/23/22 21:37		BRF
1,4-Dioxane	ND	1.0	0.083		ND	3.6	0.30	2	6/23/22 21:37		BRF
Ethanol	5.6	4.0	1.8		11	7.5	3.3	2	6/23/22 21:37		BRF
Ethyl Acetate	ND	1.0	0.51		ND	3.6	1.8	2	6/23/22 21:37		BRF
Ethylbenzene	0.21	0.10	0.058		0.91	0.43	0.25	2	6/23/22 21:37		BRF
4-Ethyltoluene	0.10	0.10	0.061		0.51	0.49	0.30	2	6/23/22 21:37		BRF
Heptane	ND	0.10	0.064		ND	0.41	0.26	2	6/23/22 21:37		BRF
Hexachlorobutadiene	ND	0.10	0.082		ND	1.1	0.88	2	6/23/22 21:37		BRF
Hexane	ND	4.0	0.52		ND	14	1.8	2	6/23/22 21:37		BRF
2-Hexanone (MBK)	ND	0.10	0.050		ND	0.41	0.20	2	6/23/22 21:37		BRF
Isopropanol	ND	4.0	0.69		ND	9.8	1.7	2	6/23/22 21:37		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077		ND	0.36	0.28	2	6/23/22 21:37		BRF
Methylene Chloride	ND	1.0	0.46		ND	3.5	1.6	2	6/23/22 21:37		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.053		ND	0.41	0.22	2	6/23/22 21:37		BRF
Naphthalene	ND	0.10	0.075		ND	0.52	0.40	2	6/23/22 21:37		BRF
Propene	ND	4.0	0.88		ND	6.9	1.5	2	6/23/22 21:37		BRF
Styrene	0.12	0.10	0.053		0.49	0.43	0.22	2	6/23/22 21:37		BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.054		ND	0.69	0.37	2	6/23/22 21:37		BRF

ANALYTICAL RESULTS

Project Location: 2+7 Badger Ave, Endicott, NY
Date Received: 6/15/2022
Field Sample #: HSVE10WELLPOINT0613202
Sample ID: 22F0926-03
Sample Matrix: Soil Gas
Sampled: 6/13/2022 14:20

Sample Description/Location:
Sub Description/Location:
Canister ID: 1045
Canister Size: 6 liter
Flow Controller ID: 4134
Sample Type: 1 hr

Work Order: 22F0926
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): 01
Receipt Vacuum(in Hg): -2.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	2.5	0.10	0.076		17	0.68	0.52	2	6/23/22 21:37	BRF
Tetrahydrofuran	11	1.0	0.16		33	2.9	0.48	2	6/23/22 21:37	BRF
Toluene	0.24	0.10	0.057		0.90	0.38	0.22	2	6/23/22 21:37	BRF
1,2,4-Trichlorobenzene	ND	0.10	0.093		ND	0.74	0.69	2	6/23/22 21:37	BRF
1,1,1-Trichloroethane	0.44	0.10	0.079		2.4	0.55	0.43	2	6/23/22 21:37	BRF
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	6/23/22 21:37	BRF
Trichloroethylene	260	1.0	0.67		1400	5.4	3.6	20	6/23/22 22:06	BRF
Trichlorofluoromethane (Freon 11)	ND	0.40	0.12		ND	2.2	0.66	2	6/23/22 21:37	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	6/23/22 21:37	BRF
1,2,4-Trimethylbenzene	0.64	0.10	0.044		3.1	0.49	0.22	2	6/23/22 21:37	BRF
1,3,5-Trimethylbenzene	0.15	0.10	0.053		0.74	0.49	0.26	2	6/23/22 21:37	BRF
Vinyl Acetate	ND	2.0	0.54	L-03, V-05	ND	7.0	1.9	2	6/23/22 21:37	BRF
Vinyl Chloride	ND	0.10	0.090		ND	0.26	0.23	2	6/23/22 21:37	BRF
m&p-Xylene	0.72	0.20	0.11		3.1	0.87	0.49	2	6/23/22 21:37	BRF
o-Xylene	0.55	0.10	0.051		2.4	0.43	0.22	2	6/23/22 21:37	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	98.5	70-130	6/23/22 21:37
4-Bromofluorobenzene (1)	94.0	70-130	6/23/22 22:06

ANALYTICAL RESULTS

Project Location: 2+7 Badger Ave, Endicott, NY
 Date Received: 6/15/2022
Field Sample #: HSE11WELLPOINT0613202
Sample ID: 22F0926-04
 Sample Matrix: Soil Gas
 Sampled: 6/13/2022 13:20

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1732
 Canister Size: 6 liter
 Flow Controller ID: 4253
 Sample Type: 1 hr

Work Order: 22F0926
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): 01
 Receipt Vacuum(in Hg): -2.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	
Acetone	11	4.0	2.4		25	9.5	5.7	2	6/23/22 19:41	BRF
Benzene	0.35	0.10	0.076		1.1	0.32	0.24	2	6/23/22 19:41	BRF
Benzyl chloride	ND	0.20	0.088		ND	1.0	0.46	2	6/23/22 19:41	BRF
Bromodichloromethane	ND	0.10	0.070		ND	0.67	0.47	2	6/23/22 19:41	BRF
Bromoform	ND	0.10	0.068		ND	1.0	0.70	2	6/23/22 19:41	BRF
Bromomethane	ND	0.10	0.067		ND	0.39	0.26	2	6/23/22 19:41	BRF
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	6/23/22 19:41	BRF
2-Butanone (MEK)	8.7	4.0	1.1		26	12	3.1	2	6/23/22 19:41	BRF
Carbon Disulfide	ND	1.0	0.092		ND	3.1	0.29	2	6/23/22 19:41	BRF
Carbon Tetrachloride	ND	0.10	0.080		ND	0.63	0.50	2	6/23/22 19:41	BRF
Chlorobenzene	ND	0.10	0.066		ND	0.46	0.31	2	6/23/22 19:41	BRF
Chloroethane	ND	0.10	0.089		ND	0.26	0.23	2	6/23/22 19:41	BRF
Chloroform	0.28	0.10	0.095		1.3	0.49	0.46	2	6/23/22 19:41	BRF
Chloromethane	ND	0.20	0.079		ND	0.41	0.16	2	6/23/22 19:41	BRF
Cyclohexane	ND	0.10	0.060		ND	0.34	0.21	2	6/23/22 19:41	BRF
Dibromochloromethane	ND	0.10	0.066		ND	0.85	0.56	2	6/23/22 19:41	BRF
1,2-Dibromoethane (EDB)	ND	0.10	0.060		ND	0.77	0.46	2	6/23/22 19:41	BRF
1,2-Dichlorobenzene	ND	0.10	0.057		ND	0.60	0.35	2	6/23/22 19:41	BRF
1,3-Dichlorobenzene	ND	0.10	0.055		ND	0.60	0.33	2	6/23/22 19:41	BRF
1,4-Dichlorobenzene	ND	0.10	0.065		ND	0.60	0.39	2	6/23/22 19:41	BRF
Dichlorodifluoromethane (Freon 12)	0.78	0.10	0.098		3.9	0.49	0.48	2	6/23/22 19:41	BRF
1,1-Dichloroethane	ND	0.10	0.087		ND	0.40	0.35	2	6/23/22 19:41	BRF
1,2-Dichloroethane	ND	0.10	0.091		ND	0.40	0.37	2	6/23/22 19:41	BRF
1,1-Dichloroethylene	ND	0.10	0.076		ND	0.40	0.30	2	6/23/22 19:41	BRF
cis-1,2-Dichloroethylene	5.8	0.10	0.073		23	0.40	0.29	2	6/23/22 19:41	BRF
trans-1,2-Dichloroethylene	0.14	0.10	0.079		0.55	0.40	0.31	2	6/23/22 19:41	BRF
1,2-Dichloropropane	ND	0.10	0.054		ND	0.46	0.25	2	6/23/22 19:41	BRF
cis-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.24	2	6/23/22 19:41	BRF
trans-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	6/23/22 19:41	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098		ND	0.70	0.69	2	6/23/22 19:41	BRF
1,4-Dioxane	ND	1.0	0.083		ND	3.6	0.30	2	6/23/22 19:41	BRF
Ethanol	18	4.0	1.8		33	7.5	3.3	2	6/23/22 19:41	BRF
Ethyl Acetate	ND	1.0	0.51		ND	3.6	1.8	2	6/23/22 19:41	BRF
Ethylbenzene	0.38	0.10	0.058		1.7	0.43	0.25	2	6/23/22 19:41	BRF
4-Ethyltoluene	ND	0.10	0.061		ND	0.49	0.30	2	6/23/22 19:41	BRF
Heptane	0.47	0.10	0.064		1.9	0.41	0.26	2	6/23/22 19:41	BRF
Hexachlorobutadiene	ND	0.10	0.082		ND	1.1	0.88	2	6/23/22 19:41	BRF
Hexane	ND	4.0	0.52		ND	14	1.8	2	6/23/22 19:41	BRF
2-Hexanone (MBK)	ND	0.10	0.050		ND	0.41	0.20	2	6/23/22 19:41	BRF
Isopropanol	ND	4.0	0.69		ND	9.8	1.7	2	6/23/22 19:41	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077		ND	0.36	0.28	2	6/23/22 19:41	BRF
Methylene Chloride	ND	1.0	0.46		ND	3.5	1.6	2	6/23/22 19:41	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.053		ND	0.41	0.22	2	6/23/22 19:41	BRF
Naphthalene	ND	0.10	0.075		ND	0.52	0.40	2	6/23/22 19:41	BRF
Propene	ND	4.0	0.88		ND	6.9	1.5	2	6/23/22 19:41	BRF
Styrene	ND	0.10	0.053		ND	0.43	0.22	2	6/23/22 19:41	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	0.054		ND	0.69	0.37	2	6/23/22 19:41	BRF

ANALYTICAL RESULTS

Project Location: 2+7 Badger Ave, Endicott, NY
Date Received: 6/15/2022
Field Sample #: HSVE11WELLPOINT0613202
Sample ID: 22F0926-04
Sample Matrix: Soil Gas
Sampled: 6/13/2022 13:20

Sample Description/Location:
Sub Description/Location:
Canister ID: 1732
Canister Size: 6 liter
Flow Controller ID: 4253
Sample Type: 1 hr

Work Order: 22F0926
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): 01
Receipt Vacuum(in Hg): -2.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.92	0.10	0.076		6.3	0.68	0.52	2	6/23/22 19:41	BRF
Tetrahydrofuran	31	1.0	0.16		93	2.9	0.48	2	6/23/22 19:41	BRF
Toluene	0.53	0.10	0.057		2.0	0.38	0.22	2	6/23/22 19:41	BRF
1,2,4-Trichlorobenzene	ND	0.10	0.093		ND	0.74	0.69	2	6/23/22 19:41	BRF
1,1,1-Trichloroethane	0.81	0.10	0.079		4.4	0.55	0.43	2	6/23/22 19:41	BRF
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	6/23/22 19:41	BRF
Trichloroethylene	49	0.10	0.067		260	0.54	0.36	2	6/23/22 19:41	BRF
Trichlorofluoromethane (Freon 11)	0.62	0.40	0.12		3.5	2.2	0.66	2	6/23/22 19:41	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	6/23/22 19:41	BRF
1,2,4-Trimethylbenzene	0.61	0.10	0.044		3.0	0.49	0.22	2	6/23/22 19:41	BRF
1,3,5-Trimethylbenzene	0.15	0.10	0.053		0.76	0.49	0.26	2	6/23/22 19:41	BRF
Vinyl Acetate	ND	2.0	0.54	L-03, V-05	ND	7.0	1.9	2	6/23/22 19:41	BRF
Vinyl Chloride	0.44	0.10	0.090		1.1	0.26	0.23	2	6/23/22 19:41	BRF
m&p-Xylene	1.6	0.20	0.11		6.8	0.87	0.49	2	6/23/22 19:41	BRF
o-Xylene	1.0	0.10	0.051		4.3	0.43	0.22	2	6/23/22 19:41	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	98.9	70-130	6/23/22 19:41

Sample Extraction Data**Prep Method: TO-15 Prep-EPA TO-15**

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
22F0926-01 [SVESYSTEMOUTLET06132022]	B311592	1.5	1	N/A	1000	200	150	06/23/22
22F0926-01RE1 [SVESYSTEMOUTLET06132022]	B311592	1.5	1	N/A	1000	200	30	06/23/22
22F0926-02 [HSVE09WELLPOINT06132022]	B311592	1.5	1	N/A	1000	200	150	06/23/22
22F0926-02RE1 [HSVE09WELLPOINT06132022]	B311592	1.5	1	N/A	1000	200	15	06/23/22
22F0926-03 [HSVE10WELLPOINT06132022]	B311592	1.5	1	N/A	1000	200	150	06/23/22
22F0926-03RE1 [HSVE10WELLPOINT06132022]	B311592	1.5	1	N/A	1000	200	15	06/23/22
22F0926-04 [HSVE11WELLPOINT06132022]	B311592	1.5	1	N/A	1000	200	150	06/23/22

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							

Batch B311592 - TO-15 Prep
Blank (B311592-BLK1)

Prepared & Analyzed: 06/23/22

Acetone	ND	0.80
Benzene	ND	0.020
Benzyl chloride	ND	0.020
Bromodichloromethane	ND	0.020
Bromoform	ND	0.020
Bromomethane	ND	0.020
1,3-Butadiene	ND	0.020
2-Butanone (MEK)	ND	0.80
Carbon Disulfide	ND	0.20
Carbon Tetrachloride	ND	0.020
Chlorobenzene	ND	0.020
Chloroethane	ND	0.020
Chloroform	ND	0.020
Chloromethane	ND	0.040
Cyclohexane	ND	0.020
Dibromochloromethane	ND	0.020
1,2-Dibromoethane (EDB)	ND	0.020
1,2-Dichlorobenzene	ND	0.020
1,3-Dichlorobenzene	ND	0.020
1,4-Dichlorobenzene	ND	0.020
Dichlorodifluoromethane (Freon 12)	ND	0.020
1,1-Dichloroethane	ND	0.020
1,2-Dichloroethane	ND	0.020
1,1-Dichloroethylene	ND	0.020
cis-1,2-Dichloroethylene	ND	0.020
trans-1,2-Dichloroethylene	ND	0.020
1,2-Dichloropropane	ND	0.020
cis-1,3-Dichloropropene	ND	0.020
trans-1,3-Dichloropropene	ND	0.020
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.020
1,4-Dioxane	ND	0.20
Ethanol	ND	0.80
Ethyl Acetate	ND	0.20
Ethylbenzene	ND	0.020
4-Ethyltoluene	ND	0.020
Heptane	ND	0.020
Hexachlorobutadiene	ND	0.020
Hexane	ND	0.80
2-Hexanone (MBK)	ND	0.020
Isopropanol	ND	0.80
Methyl tert-Butyl Ether (MTBE)	ND	0.020
Methylene Chloride	ND	0.20
4-Methyl-2-pentanone (MIBK)	ND	0.020
Naphthalene	ND	0.020
Propene	ND	0.80
Styrene	ND	0.020

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	

Batch B311592 - TO-15 Prep
Blank (B311592-BLK1)

Prepared & Analyzed: 06/23/22

1,1,2,2-Tetrachloroethane	ND	0.020								
Tetrachloroethylene	ND	0.020								
Tetrahydrofuran	ND	0.20								
Toluene	ND	0.020								
1,2,4-Trichlorobenzene	ND	0.020								
1,1,1-Trichloroethane	ND	0.020								
1,1,2-Trichloroethane	ND	0.020								
Trichloroethylene	ND	0.020								
Trichlorofluoromethane (Freon 11)	ND	0.080								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080								
1,2,4-Trimethylbenzene	ND	0.020								
1,3,5-Trimethylbenzene	ND	0.020								
Vinyl Acetate	ND	0.40								L-03, V-05
Vinyl Chloride	ND	0.020								
m&p-Xylene	ND	0.040								
o-Xylene	ND	0.020								

Surrogate: 4-Bromofluorobenzene (1) 7.87 8.00 98.4 70-130

LCS (B311592-BS1)

Prepared & Analyzed: 06/23/22

Acetone	4.56				5.00		91.2	70-130		
Benzene	5.06				5.00		101	70-130		
Benzyl chloride	10.3				5.00		206 *	70-130		L-01, V-20,
Bromodichloromethane	4.72				5.00		94.5	70-130		
Bromoform	5.16				5.00		103	70-130		
Bromomethane	5.13				5.00		103	70-130		
1,3-Butadiene	4.80				5.00		96.1	70-130		
2-Butanone (MEK)	4.98				5.00		99.6	70-130		
Carbon Disulfide	4.86				5.00		97.1	70-130		
Carbon Tetrachloride	5.13				5.00		103	70-130		
Chlorobenzene	5.18				5.00		104	70-130		
Chloroethane	4.97				5.00		99.4	70-130		
Chloroform	5.47				5.00		109	70-130		
Chloromethane	4.63				5.00		92.5	70-130		
Cyclohexane	5.62				5.00		112	70-130		
Dibromochloromethane	5.06				5.00		101	70-130		
1,2-Dibromoethane (EDB)	5.22				5.00		104	70-130		
1,2-Dichlorobenzene	6.00				5.00		120	70-130		
1,3-Dichlorobenzene	6.05				5.00		121	70-130		
1,4-Dichlorobenzene	6.38				5.00		128	70-130		
Dichlorodifluoromethane (Freon 12)	5.20				5.00		104	70-130		
1,1-Dichloroethane	5.37				5.00		107	70-130		
1,2-Dichloroethane	5.48				5.00		110	70-130		
1,1-Dichloroethylene	5.04				5.00		101	70-130		
cis-1,2-Dichloroethylene	5.51				5.00		110	70-130		
trans-1,2-Dichloroethylene	5.24				5.00		105	70-130		

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							
Batch B311592 - TO-15 Prep											
LCS (B311592-BS1)					Prepared & Analyzed: 06/23/22						
1,2-Dichloropropane	4.83				5.00		96.5	70-130			
cis-1,3-Dichloropropene	5.20				5.00		104	70-130			
trans-1,3-Dichloropropene	5.88				5.00		118	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.76				5.00		95.2	70-130			
1,4-Dioxane	5.52				5.00		110	70-130			
Ethanol	3.94				5.00		78.9	70-130			
Ethyl Acetate	6.50				5.00		130	70-130			L-01
Ethylbenzene	5.59				5.00		112	70-130			
4-Ethyltoluene	6.35				5.00		127	70-130			
Heptane	5.05				5.00		101	70-130			
Hexachlorobutadiene	4.72				5.00		94.4	70-130			
Hexane	5.56				5.00		111	70-130			
2-Hexanone (MBK)	5.41				5.00		108	70-130			
Isopropanol	4.27				5.00		85.4	70-130			
Methyl tert-Butyl Ether (MTBE)	6.88				5.00		138 *	70-130			L-01, V-20
Methylene Chloride	4.41				5.00		88.1	70-130			
4-Methyl-2-pentanone (MIBK)	4.21				5.00		84.3	70-130			
Naphthalene	5.52				5.00		110	70-130			
Propene	5.06				5.00		101	70-130			
Styrene	6.10				5.00		122	70-130			
1,1,2,2-Tetrachloroethane	4.90				5.00		98.1	70-130			
Tetrachloroethylene	5.10				5.00		102	70-130			
Tetrahydrofuran	5.83				5.00		117	70-130			
Toluene	5.32				5.00		106	70-130			
1,2,4-Trichlorobenzene	6.19				5.00		124	70-130			V-36
1,1,1-Trichloroethane	5.24				5.00		105	70-130			
1,1,2-Trichloroethane	5.03				5.00		101	70-130			
Trichloroethylene	4.93				5.00		98.5	70-130			
Trichlorofluoromethane (Freon 11)	5.25				5.00		105	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.41				5.00		108	70-130			
1,2,4-Trimethylbenzene	6.22				5.00		124	70-130			
1,3,5-Trimethylbenzene	6.13				5.00		123	70-130			
Vinyl Acetate	2.94				5.00		58.8 *	70-130			L-03, V-05
Vinyl Chloride	4.92				5.00		98.3	70-130			
m&p-Xylene	11.7				10.0		117	70-130			
o-Xylene	5.60				5.00		112	70-130			
Surrogate: 4-Bromofluorobenzene (1)	8.23				8.00		103	70-130			

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							
Batch B311592 - TO-15 Prep											
Duplicate (B311592-DUP1)	Source: 22F0926-04				Prepared & Analyzed: 06/23/22						
Acetone	11	4.0	26	9.5		11			2.29	25	
Benzene	0.33	0.10	1.0	0.32		0.35			6.49	25	
Benzyl chloride	ND	0.10	ND	0.52		ND				25	
Bromodichloromethane	ND	0.10	ND	0.67		ND				25	
Bromoform	ND	0.10	ND	1.0		ND				25	
Bromomethane	ND	0.10	ND	0.39		ND				25	
1,3-Butadiene	ND	0.10	ND	0.22		ND				25	
2-Butanone (MEK)	8.7	4.0	26	12		8.7			0.138	25	
Carbon Disulfide	ND	1.0	ND	3.1		ND				25	
Carbon Tetrachloride	0.082	0.10	0.52	0.63		0.084			2.41	25	
Chlorobenzene	ND	0.10	ND	0.46		ND				25	
Chloroethane	ND	0.10	ND	0.26		ND				25	
Chloroform	0.26	0.10	1.3	0.49		0.28			4.44	25	
Chloromethane	0.11	0.20	0.23	0.41		0.11			1.80	25	
Cyclohexane	ND	0.10	ND	0.34		ND				25	
Dibromochloromethane	ND	0.10	ND	0.85		ND				25	
1,2-Dibromoethane (EDB)	ND	0.10	ND	0.77		ND				25	
1,2-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
1,3-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
1,4-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
Dichlorodifluoromethane (Freon 12)	0.75	0.10	3.7	0.49		0.78			4.71	25	
1,1-Dichloroethane	ND	0.10	ND	0.40		ND				25	
1,2-Dichloroethane	ND	0.10	ND	0.40		ND				25	
1,1-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
cis-1,2-Dichloroethylene	5.8	0.10	23	0.40		5.8			0.00	25	
trans-1,2-Dichloroethylene	0.14	0.10	0.56	0.40		0.14			2.86	25	
1,2-Dichloropropane	ND	0.10	ND	0.46		ND				25	
cis-1,3-Dichloropropene	ND	0.10	ND	0.45		ND				25	
trans-1,3-Dichloropropene	ND	0.10	ND	0.45		ND				25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	ND	0.70		ND				25	
1,4-Dioxane	ND	1.0	ND	3.6		ND				25	
Ethanol	18	4.0	33	7.5		18			0.113	25	
Ethyl Acetate	ND	1.0	ND	3.6		ND				25	
Ethylbenzene	0.39	0.10	1.7	0.43		0.38			1.56	25	
4-Ethyltoluene	0.082	0.10	0.40	0.49		0.090			9.30	25	
Heptane	0.44	0.10	1.8	0.41		0.47			6.54	25	
Hexachlorobutadiene	ND	0.10	ND	1.1		ND				25	
Hexane	1.2	4.0	4.4	14		1.2			1.62	25	
2-Hexanone (MBK)	ND	0.10	ND	0.41		ND				25	
Isopropanol	1.5	4.0	3.7	9.8		1.5			1.21	25	
Methyl tert-Butyl Ether (MTBE)	ND	0.10	ND	0.36		ND				25	
Methylene Chloride	ND	1.0	ND	3.5		ND				25	
4-Methyl-2-pentanone (MIBK)	ND	0.10	ND	0.41		ND				25	
Naphthalene	ND	0.10	ND	0.52		ND				25	
Propene	ND	4.0	ND	6.9		ND				25	
Styrene	0.062	0.10	0.26	0.43		0.062			0.00	25	

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							
Batch B311592 - TO-15 Prep											
Duplicate (B311592-DUP1)	Source: 22F0926-04				Prepared & Analyzed: 06/23/22						
1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.69		ND				25	L-03, V-05
Tetrachloroethylene	0.93	0.10	6.3	0.68		0.92			0.216	25	
Tetrahydrofuran	31	1.0	93	2.9		31			0.0127	25	
Toluene	0.53	0.10	2.0	0.38		0.53			0.375	25	
1,2,4-Trichlorobenzene	ND	0.10	ND	0.74		ND				25	
1,1,1-Trichloroethane	0.82	0.10	4.5	0.55		0.81			0.985	25	
1,1,2-Trichloroethane	ND	0.10	ND	0.55		ND				25	
Trichloroethylene	48	0.10	260	0.54		49			1.33	25	
Trichlorofluoromethane (Freon 11)	0.61	0.40	3.4	2.2		0.62			1.30	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	ND	3.1		ND				25	
1,2,4-Trimethylbenzene	0.64	0.10	3.1	0.49		0.61			4.82	25	
1,3,5-Trimethylbenzene	0.14	0.10	0.71	0.49		0.15			6.71	25	
Vinyl Acetate	ND	2.0	ND	7.0		ND				25	
Vinyl Chloride	0.43	0.10	1.1	0.26		0.44			2.74	25	
m&p-Xylene	1.5	0.20	6.5	0.87		1.6			3.53	25	
o-Xylene	1.0	0.10	4.5	0.43		1.0			3.94	25	
Surrogate: 4-Bromofluorobenzene (1)	7.98				8.00		99.7	70-130			

Note: Blank Subtraction is not performed unless otherwise noted

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
L-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

ANALYST

TPH Thomas P. Hnitecki
RJM Raymond J. McCarthy
RAP Raisa A. Petraitis
STATION PDF Management Station
LR Lionel Rios
BRF Brittany R. Fisk

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S069304-ICV1)			Lab File ID: K22A075019.D			Analyzed: 03/16/22 23:55			
Bromochloromethane (1)	104138	2.987	102745	2.987	101	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	315817	3.584	303801	3.579	104	60 - 140	0.0050	+/-0.50	
Chlorobenzene-d5 (1)	233658	5.159	223280	5.159	105	60 - 140	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S073173-CCV1)			Lab File ID: K22A174004.D			Analyzed: 06/23/22 11:12			
Bromochloromethane (1)	98120	2.997	102745	2.987	95	60 - 140	0.0100	+/-0.50	
1,4-Difluorobenzene (1)	324722	3.588	303801	3.579	107	60 - 140	0.0090	+/-0.50	
Chlorobenzene-d5 (1)	237508	5.164	223280	5.159	106	60 - 140	0.0050	+/-0.50	
LCS (B311592-BS1)			Lab File ID: K22A174005.D			Analyzed: 06/23/22 11:41			
Bromochloromethane (1)	96436	2.996	98120	2.997	98	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	316469	3.588	324722	3.588	97	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	234229	5.164	237508	5.164	99	60 - 140	0.0000	+/-0.50	
Blank (B311592-BLK1)			Lab File ID: K22A174010.D			Analyzed: 06/23/22 14:12			
Bromochloromethane (1)	99189	2.996	98120	2.997	101	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	321016	3.588	324722	3.588	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	233692	5.164	237508	5.164	98	60 - 140	0.0000	+/-0.50	
SVESYSTEMOUTLET06132022 (22F0926-01)			Lab File ID: K22A174019.D			Analyzed: 06/23/22 18:41			
Bromochloromethane (1)	95414	3.001	98120	2.997	97	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	312912	3.593	324722	3.588	96	60 - 140	0.0050	+/-0.50	
Chlorobenzene-d5 (1)	229774	5.163	237508	5.164	97	60 - 140	-0.0010	+/-0.50	
SVESYSTEMOUTLET06132022 (22F0926-01RE1)			Lab File ID: K22A174020.D			Analyzed: 06/23/22 19:11			
Bromochloromethane (1)	96173	3.001	98120	2.997	98	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	313142	3.593	324722	3.588	96	60 - 140	0.0050	+/-0.50	
Chlorobenzene-d5 (1)	228040	5.163	237508	5.164	96	60 - 140	-0.0010	+/-0.50	
HSVE11WELLPOINT06132022 (22F0926-04)			Lab File ID: K22A174021.D			Analyzed: 06/23/22 19:41			
Bromochloromethane (1)	94540	3.001	98120	2.997	96	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	301239	3.588	324722	3.588	93	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	223344	5.164	237508	5.164	94	60 - 140	0.0000	+/-0.50	
Duplicate (B311592-DUP1)			Lab File ID: K22A174022.D			Analyzed: 06/23/22 20:10			
Bromochloromethane (1)	92332	3.001	98120	2.997	94	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	300103	3.588	324722	3.588	92	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	219392	5.164	237508	5.164	92	60 - 140	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
HSVE09WELLPOINT06132022 (22F0926-02) Lab File ID: K22A174023.D Analyzed: 06/23/22 20:40									
Bromochloromethane (1)	94478	2.996	98120	2.997	96	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	311163	3.588	324722	3.588	96	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	223018	5.164	237508	5.164	94	60 - 140	0.0000	+/-0.50	
HSVE09WELLPOINT06132022 (22F0926-02RE1) Lab File ID: K22A174024.D Analyzed: 06/23/22 21:08									
Bromochloromethane (1)	93863	2.996	98120	2.997	96	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	302025	3.588	324722	3.588	93	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	221065	5.164	237508	5.164	93	60 - 140	0.0000	+/-0.50	
HSVE10WELLPOINT06132022 (22F0926-03) Lab File ID: K22A174025.D Analyzed: 06/23/22 21:37									
Bromochloromethane (1)	93597	3.001	98120	2.997	95	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	295567	3.588	324722	3.588	91	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	221896	5.163	237508	5.164	93	60 - 140	-0.0010	+/-0.50	
HSVE10WELLPOINT06132022 (22F0926-03RE1) Lab File ID: K22A174026.D Analyzed: 06/23/22 22:06									
Bromochloromethane (1)	93268	3.001	98120	2.997	95	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	297435	3.588	324722	3.588	92	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	219411	5.163	237508	5.164	92	60 - 140	-0.0010	+/-0.50	

CONTINUING CALIBRATION CHECK

EPA TO-15

S073173-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.38	1.001504	0.8779128		-12.3	30
Benzene	A	5.00	4.85	0.633704	0.6143052		-3.1	30
Benzyl chloride	A	5.00	10.0	0.4421081	0.8843289		100	30 *
Bromodichloromethane	A	5.00	4.58	0.4484742	0.4109903		-8.4	30
Bromoform	A	5.00	4.93	0.5313608	0.5241289		-1.4	30
Bromomethane	A	5.00	5.09	0.56846	0.5789645		1.8	30
1,3-Butadiene	A	5.00	4.85	0.4941294	0.4791358		-3.0	30
2-Butanone (MEK)	A	5.00	4.67	1.143339	1.067085		-6.7	30
Carbon Disulfide	A	5.00	4.64	2.101097	1.951243		-7.1	30
Carbon Tetrachloride	A	5.00	4.96	0.3583793	0.3558933		-0.7	30
Chlorobenzene	A	5.00	5.00	0.7307357	0.7302626		-0.06	30
Chloroethane	A	5.00	4.83	0.3728969	0.3601141		-3.4	30
Chloroform	A	5.00	5.35	1.205973	1.290501		7.0	30
Chloromethane	A	5.00	4.50	0.5843503	0.5264248		-9.9	30
Cyclohexane	A	5.00	5.26	0.2474396	0.2603926		5.2	30
Dibromochloromethane	A	5.00	5.00	0.5365627	0.5360594		-0.09	30
1,2-Dibromoethane (EDB)	A	5.00	5.19	0.4696428	0.4872257		3.7	30
1,2-Dichlorobenzene	A	5.00	5.74	0.5425411	0.6227058		14.8	30
1,3-Dichlorobenzene	A	5.00	5.81	0.5577685	0.6484531		16.3	30
1,4-Dichlorobenzene	A	5.00	6.30	0.4841678	0.610243		26.0	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.13	1.437368	1.474929		2.6	30
1,1-Dichloroethane	A	5.00	5.10	0.9933117	1.012621		1.9	30
1,2-Dichloroethane	A	5.00	5.29	0.7604954	0.8045495		5.8	30
1,1-Dichloroethylene	A	5.00	4.86	1.025417	0.9962821		-2.8	30
cis-1,2-Dichloroethylene	A	5.00	5.41	0.8174361	0.8840114		8.1	30
trans-1,2-Dichloroethylene	A	5.00	5.03	0.8265571	0.8311292		0.6	30
1,2-Dichloropropane	A	5.00	4.60	0.2525551	0.2326027		-7.9	30
cis-1,3-Dichloropropene	A	5.00	5.30	0.4042268	0.4284132		6.0	30
trans-1,3-Dichloropropene	A	5.00	5.64	0.2821754	0.3184509		12.9	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	5.00	1.571176	1.569474		-0.1	30
1,4-Dioxane	A	5.00	5.15	0.1252326	0.1290014		3.0	30
Ethanol	A	5.00	4.41	0.2348114	0.2072564		-11.7	30
Ethyl Acetate	A	5.00	5.57	0.1797762	0.200212		11.4	30
Ethylbenzene	A	5.00	5.50	1.166103	1.282355		10.0	30
4-Ethyltoluene	A	5.00	6.17	1.091537	1.346387		23.3	30
Heptane	A	5.00	5.00	0.2370975	0.2370471		-0.02	30
Hexachlorobutadiene	A	5.00	4.88	0.3846991	0.3757684		-2.3	30
Hexane	L	5.00	5.38	0.6117314	0.6795597		7.6	30

CONTINUING CALIBRATION CHECK

EPA TO-15

S073173-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	5.51	0.5293432	0.5830271		10.1	30
Isopropanol	A	5.00	4.98	1.233151	1.226906		-0.5	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	6.90	1.403919	1.938834		38.1	30 *
Methylene Chloride	A	5.00	4.39	0.7749664	0.6801631		-12.2	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.17	0.1036732	8.640499E-02		-16.7	30
Naphthalene	A	5.00	5.63	0.9067208	1.021365		12.6	30
Propene	A	5.00	5.12	0.4757755	0.4875826		2.5	30
Styrene	A	5.00	6.02	0.6195572	0.7461744		20.4	30
1,1,2,2-Tetrachloroethane	A	5.00	4.78	0.7649521	0.7309834		-4.4	30
Tetrachloroethylene	A	5.00	5.02	0.4025457	0.4039005		0.3	30
Tetrahydrofuran	A	5.00	5.61	0.6192362	0.6950999		12.3	30
Toluene	A	5.00	5.25	0.9588753	1.007097		5.0	30
1,2,4-Trichlorobenzene	A	5.00	6.34	0.2888558	0.3662361		26.8	30
1,1,1-Trichloroethane	A	5.00	5.33	0.4005075	0.426871		6.6	30
1,1,2-Trichloroethane	A	5.00	4.82	0.333956	0.322246		-3.5	30
Trichloroethylene	A	5.00	4.85	0.2669212	0.2590376		-3.0	30
Trichlorofluoromethane (Freon 11)	A	5.00	5.21	1.362748	1.419062		4.1	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	5.20	1.311243	1.363587		4.0	30
1,2,4-Trimethylbenzene	A	5.00	6.12	0.9101206	1.113158		22.3	30
1,3,5-Trimethylbenzene	A	5.00	5.98	0.9305716	1.112431		19.5	30
Vinyl Acetate	A	5.00	2.87	1.456769	0.8356298		-42.6	30 *
Vinyl Chloride	A	5.00	4.80	0.6700674	0.6437016		-3.9	30
m&p-Xylene	A	10.0	11.5	0.9901728	1.140135		15.1	30
o-Xylene	A	5.00	5.45	0.9006378	0.9818482		9.0	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

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777128334767 (master)	Delivered	6/14/22	6/15/22	0	East Syracuse NY	EAST LONGMEADOW MA
777128335260	Delivered	6/14/22	6/15/22	0	East Syracuse NY	EAST LONGMEADOW MA

Travel History

TIME ZONE

Local Scan Time

Wednesday, June 15,
2022

9:23 AM

EAST LONGMEADOW, MA Delivered

7:31 AM

WINDSOR LOCKS, CT On FedEx vehicle for delivery

Doc# 278 Rev 6 2017

Client DEC

Containers:	#	Size	Regulator	Duration	Accessories:			
Summa Cans	4	66	4	1hr	Nut/Ferrule		IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/TO-11s					Tedlar			

Comments:

July 27, 2022

Robert Sickler
NYDEC_Parsons - Syracuse, NY
301 Plainfield Road, Suite 350
Syracuse, NY 13212

Project Location: 2 of 7 Badger Ave, Endicott, NY
Client Job Number:
Project Number: 704050
Laboratory Work Order Number: 22G0930

Enclosed are results of analyses for samples as received by the laboratory on July 16, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332NYDEC_Parsons - Syracuse, NY
301 Plainfield Road, Suite 350
Syracuse, NY 13212
ATTN: Robert Sickler

REPORT DATE: 7/27/2022

PURCHASE ORDER NUMBER: 142766

PROJECT NUMBER: 704050

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22G0930

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 2 of 7 Badger Ave, Endicott, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
System Outlet 071522	22G0930-01	Air		EPA TO-15	
Unused Can/Reg #1274/4318	22G0930-02	Air		-	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15

Qualifications:

L-01

Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

Trichlorofluoromethane (Freon 11)

B313937-BS1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

1,2-Dichloro-1,1,2,2-tetrafluoroethane

B313937-BS1, S074453-CCV1

Trichlorofluoromethane (Freon 11)

B313937-BS1, S074453-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: 2 of 7 Badger Ave, Endicott, NY
Date Received: 7/16/2022
Field Sample #: System Outlet 071522
Sample ID: 22G0930-01
Sample Matrix: Air
Sampled: 7/15/2022 12:06

Sample Description/Location:
Sub Description/Location:
Canister ID: 1083
Canister Size: 6 liter
Flow Controller ID: 4356
Sample Type: 1 hr

Work Order: 22G0930
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -1
Receipt Vacuum(in Hg): -2.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	8.4	8.0		20	19	4	7/27/22	2:42	BRF
Benzene	ND	0.20		ND	0.64	4	7/27/22	2:42	BRF
Benzyl chloride	ND	0.20		ND	1.0	4	7/27/22	2:42	BRF
Bromodichloromethane	ND	0.20		ND	1.3	4	7/27/22	2:42	BRF
Bromoform	ND	0.20		ND	2.1	4	7/27/22	2:42	BRF
Bromomethane	ND	0.20		ND	0.78	4	7/27/22	2:42	BRF
1,3-Butadiene	ND	0.20		ND	0.44	4	7/27/22	2:42	BRF
2-Butanone (MEK)	ND	8.0		ND	24	4	7/27/22	2:42	BRF
Carbon Disulfide	ND	2.0		ND	6.2	4	7/27/22	2:42	BRF
Carbon Tetrachloride	ND	0.20		ND	1.3	4	7/27/22	2:42	BRF
Chlorobenzene	ND	0.20		ND	0.92	4	7/27/22	2:42	BRF
Chloroethane	ND	0.20		ND	0.53	4	7/27/22	2:42	BRF
Chloroform	ND	0.20		ND	0.98	4	7/27/22	2:42	BRF
Chloromethane	ND	0.40		ND	0.83	4	7/27/22	2:42	BRF
Cyclohexane	ND	0.20		ND	0.69	4	7/27/22	2:42	BRF
Dibromochloromethane	ND	0.20		ND	1.7	4	7/27/22	2:42	BRF
1,2-Dibromoethane (EDB)	ND	0.20		ND	1.5	4	7/27/22	2:42	BRF
1,2-Dichlorobenzene	ND	0.20		ND	1.2	4	7/27/22	2:42	BRF
1,3-Dichlorobenzene	ND	0.20		ND	1.2	4	7/27/22	2:42	BRF
1,4-Dichlorobenzene	ND	0.20		ND	1.2	4	7/27/22	2:42	BRF
Dichlorodifluoromethane (Freon 12)	0.33	0.20		1.6	0.99	4	7/27/22	2:42	BRF
1,1-Dichloroethane	ND	0.20		ND	0.81	4	7/27/22	2:42	BRF
1,2-Dichloroethane	ND	0.20		ND	0.81	4	7/27/22	2:42	BRF
1,1-Dichloroethylene	ND	0.20		ND	0.79	4	7/27/22	2:42	BRF
cis-1,2-Dichloroethylene	ND	0.20		ND	0.79	4	7/27/22	2:42	BRF
trans-1,2-Dichloroethylene	ND	0.20		ND	0.79	4	7/27/22	2:42	BRF
1,2-Dichloropropane	ND	0.20		ND	0.92	4	7/27/22	2:42	BRF
cis-1,3-Dichloropropene	ND	0.20		ND	0.91	4	7/27/22	2:42	BRF
trans-1,3-Dichloropropene	ND	0.20		ND	0.91	4	7/27/22	2:42	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20		ND	1.4	4	7/27/22	2:42	BRF
1,4-Dioxane	ND	2.0		ND	7.2	4	7/27/22	2:42	BRF
Ethanol	16	8.0		30	15	4	7/27/22	2:42	BRF
Ethyl Acetate	ND	2.0		ND	7.2	4	7/27/22	2:42	BRF
Ethylbenzene	ND	0.20		ND	0.87	4	7/27/22	2:42	BRF
4-Ethyltoluene	ND	0.20		ND	0.98	4	7/27/22	2:42	BRF
Heptane	ND	0.20		ND	0.82	4	7/27/22	2:42	BRF
Hexachlorobutadiene	ND	0.20		ND	2.1	4	7/27/22	2:42	BRF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: 2 of 7 Badger Ave, Endicott, NY
 Date Received: 7/16/2022
Field Sample #: System Outlet 071522
Sample ID: 22G0930-01
 Sample Matrix: Air
 Sampled: 7/15/2022 12:06

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1083
 Canister Size: 6 liter
 Flow Controller ID: 4356
 Sample Type: 1 hr

Work Order: 22G0930
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -1
 Receipt Vacuum(in Hg): -2.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	8.0		ND	28	4	7/27/22 2:42		BRF
2-Hexanone (MBK)	ND	0.20		ND	0.82	4	7/27/22 2:42		BRF
Isopropanol	ND	8.0		ND	20	4	7/27/22 2:42		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.20		ND	0.72	4	7/27/22 2:42		BRF
Methylene Chloride	ND	2.0		ND	6.9	4	7/27/22 2:42		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.20		ND	0.82	4	7/27/22 2:42		BRF
Naphthalene	ND	0.20		ND	1.0	4	7/27/22 2:42		BRF
Propene	ND	8.0		ND	14	4	7/27/22 2:42		BRF
Styrene	ND	0.20		ND	0.85	4	7/27/22 2:42		BRF
1,1,2,2-Tetrachloroethane	ND	0.20		ND	1.4	4	7/27/22 2:42		BRF
Tetrachloroethylene	0.28	0.20		1.9	1.4	4	7/27/22 2:42		BRF
Tetrahydrofuran	9.5	2.0		28	5.9	4	7/27/22 2:42		BRF
Toluene	ND	0.20		ND	0.75	4	7/27/22 2:42		BRF
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	4	7/27/22 2:42		BRF
1,1,1-Trichloroethane	ND	0.20		ND	1.1	4	7/27/22 2:42		BRF
1,1,2-Trichloroethane	ND	0.20		ND	1.1	4	7/27/22 2:42		BRF
Trichloroethylene	5.6	0.20		30	1.1	4	7/27/22 2:42		BRF
Trichlorofluoromethane (Freon 11)	ND	0.80		ND	4.5	4	7/27/22 2:42		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80		ND	6.1	4	7/27/22 2:42		BRF
1,2,4-Trimethylbenzene	ND	0.20		ND	0.98	4	7/27/22 2:42		BRF
1,3,5-Trimethylbenzene	ND	0.20		ND	0.98	4	7/27/22 2:42		BRF
Vinyl Acetate	ND	4.0		ND	14	4	7/27/22 2:42		BRF
Vinyl Chloride	ND	0.20		ND	0.51	4	7/27/22 2:42		BRF
m&p-Xylene	ND	0.40		ND	1.7	4	7/27/22 2:42		BRF
o-Xylene	ND	0.20		ND	0.87	4	7/27/22 2:42		BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	97.8	70-130	7/27/22 2:42

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data**Prep Method: TO-15 Prep****Analytical Method: EP**

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
22G0930-01 [System Outlet 071522]	B313937	1.5	1	N/A	1000	400	150	07/26/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	

Batch B313937 - TO-15 Prep
Blank (B313937-BLK1)

Prepared & Analyzed: 07/26/22

Acetone	ND	1.4
Benzene	ND	0.035
Benzyl chloride	ND	0.035
Bromodichloromethane	ND	0.035
Bromoform	ND	0.035
Bromomethane	ND	0.035
1,3-Butadiene	ND	0.035
2-Butanone (MEK)	ND	1.4
Carbon Disulfide	ND	0.35
Carbon Tetrachloride	ND	0.035
Chlorobenzene	ND	0.035
Chloroethane	ND	0.035
Chloroform	ND	0.035
Chloromethane	ND	0.070
Cyclohexane	ND	0.035
Dibromochloromethane	ND	0.035
1,2-Dibromoethane (EDB)	ND	0.035
1,2-Dichlorobenzene	ND	0.035
1,3-Dichlorobenzene	ND	0.035
1,4-Dichlorobenzene	ND	0.035
Dichlorodifluoromethane (Freon 12)	ND	0.035
1,1-Dichloroethane	ND	0.035
1,2-Dichloroethane	ND	0.035
1,1-Dichloroethylene	ND	0.035
cis-1,2-Dichloroethylene	ND	0.035
trans-1,2-Dichloroethylene	ND	0.035
1,2-Dichloropropane	ND	0.035
cis-1,3-Dichloropropene	ND	0.035
trans-1,3-Dichloropropene	ND	0.035
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035
1,4-Dioxane	ND	0.35
Ethanol	ND	1.4
Ethyl Acetate	ND	0.35
Ethylbenzene	ND	0.035
4-Ethyltoluene	ND	0.035
Heptane	ND	0.035
Hexachlorobutadiene	ND	0.035
Hexane	ND	1.4
2-Hexanone (MBK)	ND	0.035
Isopropanol	ND	1.4
Methyl tert-Butyl Ether (MTBE)	ND	0.035
Methylene Chloride	ND	0.35
4-Methyl-2-pentanone (MIBK)	ND	0.035
Naphthalene	ND	0.035
Propene	ND	1.4
Styrene	ND	0.035

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	

Batch B313937 - TO-15 Prep
Blank (B313937-BLK1)

Prepared & Analyzed: 07/26/22

1,1,2,2-Tetrachloroethane	ND	0.035
Tetrachloroethylene	ND	0.035
Tetrahydrofuran	ND	0.35
Toluene	ND	0.035
1,2,4-Trichlorobenzene	ND	0.035
1,1,1-Trichloroethane	ND	0.035
1,1,2-Trichloroethane	ND	0.035
Trichloroethylene	ND	0.035
Trichlorofluoromethane (Freon 11)	ND	0.14
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14
1,2,4-Trimethylbenzene	ND	0.035
1,3,5-Trimethylbenzene	ND	0.035
Vinyl Acetate	ND	0.70
Vinyl Chloride	ND	0.035
m&p-Xylene	ND	0.070
o-Xylene	ND	0.035

<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>8.04</i>	<i>8.00</i>	<i>100</i>	<i>70-130</i>
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LCS (B313937-BS1)

Prepared & Analyzed: 07/26/22

Acetone	5.15	5.00	103	70-130
Benzene	4.11	5.00	82.2	70-130
Benzyl chloride	4.83	5.00	96.6	70-130
Bromodichloromethane	4.21	5.00	84.2	70-130
Bromoform	4.91	5.00	98.1	70-130
Bromomethane	5.84	5.00	117	70-130
1,3-Butadiene	5.04	5.00	101	70-130
2-Butanone (MEK)	4.46	5.00	89.3	70-130
Carbon Disulfide	4.83	5.00	96.7	70-130
Carbon Tetrachloride	4.80	5.00	96.1	70-130
Chlorobenzene	4.50	5.00	90.0	70-130
Chloroethane	4.88	5.00	97.7	70-130
Chloroform	4.43	5.00	88.7	70-130
Chloromethane	5.01	5.00	100	70-130
Cyclohexane	4.00	5.00	79.9	70-130
Dibromochloromethane	4.84	5.00	96.8	70-130
1,2-Dibromoethane (EDB)	4.41	5.00	88.3	70-130
1,2-Dichlorobenzene	4.81	5.00	96.2	70-130
1,3-Dichlorobenzene	4.86	5.00	97.1	70-130
1,4-Dichlorobenzene	4.74	5.00	94.8	70-130
Dichlorodifluoromethane (Freon 12)	5.26	5.00	105	70-130
1,1-Dichloroethane	4.42	5.00	88.4	70-130
1,2-Dichloroethane	4.38	5.00	87.6	70-130
1,1-Dichloroethylene	6.09	5.00	122	70-130
cis-1,2-Dichloroethylene	4.35	5.00	87.0	70-130
trans-1,2-Dichloroethylene	4.33	5.00	86.7	70-130
1,2-Dichloropropane	4.08	5.00	81.5	70-130

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	
Batch B313937 - TO-15 Prep											
LCS (B313937-BS1)					Prepared & Analyzed: 07/26/22						
cis-1,3-Dichloropropene	4.00				5.00		80.0	70-130			
trans-1,3-Dichloropropene	4.20				5.00		84.0	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.55				5.00		111	70-130			V-20
1,4-Dioxane	4.44				5.00		88.8	70-130			
Ethanol	5.93				5.00		119	70-130			
Ethyl Acetate	4.65				5.00		93.0	70-130			
Ethylbenzene	4.22				5.00		84.3	70-130			
4-Ethyltoluene	4.69				5.00		93.7	70-130			
Heptane	3.98				5.00		79.6	70-130			
Hexachlorobutadiene	3.98				5.00		79.6	70-130			
Hexane	4.95				5.00		99.0	70-130			
2-Hexanone (MBK)	4.17				5.00		83.5	70-130			
Isopropanol	4.37				5.00		87.3	70-130			
Methyl tert-Butyl Ether (MTBE)	4.71				5.00		94.3	70-130			
Methylene Chloride	4.87				5.00		97.3	70-130			
4-Methyl-2-pentanone (MIBK)	4.33				5.00		86.7	70-130			
Naphthalene	5.02				5.00		100	70-130			
Propene	3.87				5.00		77.4	70-130			
Styrene	4.49				5.00		89.8	70-130			
1,1,2,2-Tetrachloroethane	4.32				5.00		86.4	70-130			
Tetrachloroethylene	4.58				5.00		91.6	70-130			
Tetrahydrofuran	4.24				5.00		84.8	70-130			
Toluene	4.22				5.00		84.5	70-130			
1,2,4-Trichlorobenzene	4.40				5.00		88.0	70-130			
1,1,1-Trichloroethane	4.35				5.00		86.9	70-130			
1,1,2-Trichloroethane	4.37				5.00		87.4	70-130			
Trichloroethylene	4.31				5.00		86.2	70-130			
Trichlorofluoromethane (Freon 11)	6.55				5.00		131 *	70-130			L-01, V-20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.18				5.00		104	70-130			
1,2,4-Trimethylbenzene	4.61				5.00		92.2	70-130			
1,3,5-Trimethylbenzene	4.74				5.00		94.7	70-130			
Vinyl Acetate	3.94				5.00		78.9	70-130			
Vinyl Chloride	5.19				5.00		104	70-130			
m&p-Xylene	8.78				10.0		87.8	70-130			
o-Xylene	4.42				5.00		88.5	70-130			
Surrogate: 4-Bromofluorobenzene (1)	8.23				8.00		103	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S074415-ICV1)			Lab File ID: G22A202022.D			Analyzed: 07/22/22 00:21			
Bromochloromethane (1)	1579701	8.307	1579701	8.307	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3280480	10.081	3280480	10.081	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2964537	14.452	2964537	14.452	100	60 - 140	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S074453-CCV1)			Lab File ID: G22A207004.D			Analyzed: 07/26/22 10:05			
Bromochloromethane (1)	1494091	8.313	1494091	8.313	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3288505	10.087	3288505	10.087	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2996867	14.452	2996867	14.452	100	60 - 140	0.0000	+/-0.50	
LCS (B313937-BS1)			Lab File ID: G22A207005.D			Analyzed: 07/26/22 10:46			
Bromochloromethane (1)	1407072	8.307	1494091	8.313	94	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	2982721	10.081	3288505	10.087	91	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	2753672	14.452	2996867	14.452	92	60 - 140	0.0000	+/-0.50	
Blank (B313937-BLK1)			Lab File ID: G22A207008.D			Analyzed: 07/26/22 12:54			
Bromochloromethane (1)	1392187	8.313	1494091	8.313	93	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3075464	10.087	3288505	10.087	94	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2844149	14.452	2996867	14.452	95	60 - 140	0.0000	+/-0.50	
System Outlet 071522 (22G0930-01)			Lab File ID: G22A207027.D			Analyzed: 07/27/22 02:42			
Bromochloromethane (1)	1101771	8.307	1494091	8.313	74	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	2701640	10.081	3288505	10.087	82	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	2599453	14.452	2996867	14.452	87	60 - 140	0.0000	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S074453-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	5.30	0.7106983	0.7532093		6.0	30
Benzene	A	5.00	4.34	0.9459586	0.8218947		-13.1	30
Benzyl chloride	A	5.00	5.08	1.11175	1.12864		1.5	30
Bromodichloromethane	A	5.00	4.43	0.7314757	0.6478567		-11.4	30
Bromoform	A	5.00	5.17	0.5824843	0.6024484		3.4	30
Bromomethane	A	5.00	6.44	0.240796	0.310108		28.8	30
1,3-Butadiene	A	5.00	5.90	0.2781461	0.3281225		18.0	30
2-Butanone (MEK)	A	5.00	4.52	1.613875	1.457273		-9.7	30
Carbon Disulfide	A	5.00	5.06	1.522853	1.542797		1.3	30
Carbon Tetrachloride	A	5.00	4.76	0.5852256	0.5576905		-4.7	30
Chlorobenzene	A	5.00	4.71	0.8695966	0.8189844		-5.8	30
Chloroethane	A	5.00	5.43	0.1638014	0.1779019		8.6	30
Chloroform	A	5.00	4.89	1.357646	1.328809		-2.1	30
Chloromethane	A	5.00	5.97	0.396269	0.4732349		19.4	30
Cyclohexane	A	5.00	4.18	0.394934	0.3303955		-16.3	30
Dibromochloromethane	A	5.00	4.85	0.658931	0.6389921		-3.0	30
1,2-Dibromoethane (EDB)	A	5.00	4.67	0.6191172	0.5781243		-6.6	30
1,2-Dichlorobenzene	A	5.00	4.88	0.7262609	0.7096259		-2.3	30
1,3-Dichlorobenzene	A	5.00	5.00	0.775426	0.7746874		-0.1	30
1,4-Dichlorobenzene	A	5.00	4.81	0.7810925	0.7518732		-3.7	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.85	1.248447	1.461374		17.1	30
1,1-Dichloroethane	A	5.00	4.76	1.192735	1.135259		-4.8	30
1,2-Dichloroethane	A	5.00	4.64	0.958612	0.8900277		-7.2	30
1,1-Dichloroethylene	A	5.00	6.35	0.7635127	0.969239		26.9	30
cis-1,2-Dichloroethylene	A	5.00	4.63	0.9035512	0.8362757		-7.4	30
trans-1,2-Dichloroethylene	A	5.00	4.68	0.9130184	0.8539603		-6.5	30
1,2-Dichloropropane	A	5.00	4.35	0.3808302	0.3310776		-13.1	30
cis-1,3-Dichloropropene	A	5.00	4.42	0.5516068	0.4881343		-11.5	30
trans-1,3-Dichloropropene	A	5.00	4.41	0.5075836	0.4473065		-11.9	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	6.68	0.8371486	1.119273		33.7	30 *
1,4-Dioxane	A	5.00	4.23	0.1884879	0.1596198		-15.3	30
Ethanol	A	5.00	5.61	0.1270486	0.1424749		12.1	30
Ethyl Acetate	A	5.00	4.69	0.2021235	0.189551		-6.2	30
Ethylbenzene	A	5.00	4.52	1.546366	1.396919		-9.7	30
4-Ethyltoluene	A	5.00	4.85	1.53193	1.486397		-3.0	30
Heptane	A	5.00	4.31	0.3218436	0.2771438		-13.9	30
Hexachlorobutadiene	A	5.00	4.14	0.5574639	0.4614803		-17.2	30
Hexane	A	5.00	5.05	0.9383082	0.8881612		1.0	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S074453-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	4.33	1.000161	0.8665284		-13.4	30
Isopropanol	A	5.00	5.57	0.7647961	0.8518624		11.4	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.93	1.600983	1.578248		-1.4	30
Methylene Chloride	A	5.00	5.18	0.7516654	0.7781427		3.5	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.60	0.9359804	0.8621284		-7.9	30
Naphthalene	A	5.00	4.62	1.226111	1.133275		-7.6	30
Propene	A	5.00	4.44	0.7102822	0.6310405		-11.2	30
Styrene	A	5.00	4.82	0.8459625	0.8148093		-3.7	30
1,1,2,2-Tetrachloroethane	A	5.00	4.68	0.9641793	0.9033663		-6.3	30
Tetrachloroethylene	A	5.00	4.80	0.4667242	0.4483263		-3.9	30
Tetrahydrofuran	A	5.00	4.71	0.2735666	0.2577021		-5.8	30
Toluene	A	5.00	4.46	1.206497	1.076751		-10.8	30
1,2,4-Trichlorobenzene	A	5.00	4.33	0.5905651	0.51135		-13.4	30
1,1,1-Trichloroethane	A	5.00	4.60	0.6219236	0.5728113		-7.9	30
1,1,2-Trichloroethane	A	5.00	4.53	0.4123117	0.3736046		-9.4	30
Trichloroethylene	A	5.00	4.48	0.4003174	0.358813		-10.4	30
Trichlorofluoromethane (Freon 11)	A	5.00	6.89	0.6468436	0.8919071		37.9	30 *
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	5.58	1.028184	1.146424		11.5	30
1,2,4-Trimethylbenzene	A	5.00	4.87	1.257511	1.225138		-2.6	30
1,3,5-Trimethylbenzene	A	5.00	4.94	1.255694	1.241418		-1.1	30
Vinyl Acetate	A	5.00	4.51	2.070495	1.867231		-9.8	30
Vinyl Chloride	A	5.00	5.88	0.3697046	0.4346188		17.6	30
m&p-Xylene	A	10.0	9.47	1.176609	1.113892		-5.3	30
o-Xylene	A	5.00	4.73	1.203857	1.138902		-5.4	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO 17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
NC-DW	North Carolina Department of Health and Human Services	25703	07/31/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

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Shipment facts

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.pacelabs.com



Doc# 278 Rev 7 July 2022

Air Media Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Parsons

Received By	<u>RJF</u>	Date	<u>7/11/22</u>	Time	<u>933</u>
How Were the samples received?	In Cooler	On Ice	No Ice		
	In Box	Ambient	Melted Ice		
Were samples within Temperature Compliance?	Within	By Gun #	Actual Temp -		
	2-6°C	By Blank #	Actual Temp -		
Was Custody Seal In tact?	<u>LA</u>	Were Samples Tampered with?	<u>F</u>		
Was COC Relinquished?	<u>T</u>	Does Chain Agree With Samples?	<u>T</u>		
Are there any loose caps/valves on any samples?	<u>F</u>				
Is COC in ink/ Legible?	<u>T</u>	Were samples received within holding time?	<u>T</u>		
Did COC Include all Pertinent Information?	Client?	Analysis?	<u>T</u>	Sampler Name?	<u>T</u>
	Project?	ID's?	<u>T</u>	Collection Dates/Times?	<u>T</u>
Are Sample Labels filled out and legible?	<u>T</u>				
Are there Rushes?	<u>F</u>	Who was notified?			
Samples are received within holding time?	<u>T</u>				
Proper Media Used?	<u>T</u>	Individually Certified Cans?	<u>F</u>		
Are there Trip Blanks?	<u>F</u>	Is there enough Volume?	<u>T</u>		

Containers:	#	Size	Regulator	Duration	Accessories:		
Summa Cans	<u>2</u>	<u>6L</u>	<u>2</u>	<u>1hr</u>	Nut/Ferrule		IC Train
Tedlar Bags					Tubing		
TO-17 Tubes					T-Connector		Shipping Charges
Radiello					Syringe		
Pufs/TO-11s					Tedlar		

Can #'s					Reg #'s				
<u>1083</u>					<u>43510</u>				
Unused Media					Pufs/TO-17's				
<u>1274</u>	<u>(-29.4)</u>	<u>4318</u>							

Comments: