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May 27, 2022

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

Subject: **SVE System O&M Status Report No. 1**
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 May 11, 2022.

The SVE system startup was performed on March 21, 2022. O&M events were performed daily for the first week, biweekly the second week, and weekly during weeks three and four with some additional site visits due to system alarms. Site visits will continue on a monthly basis for up to six months. Air samples were collected from the system effluent on March 24, April 15, and May 11, 2022. The next planned O&M visit is scheduled for June 16, 2022, during month three 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. 1
3/21/22 – 5/11/22

The enclosed report details soil vapor extraction (SVE) system operation and maintenance (O&M) activities and effluent 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 head 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.

SYSTEM OPERATION RESULTS

Operational data collected between March 21, 2022 and May 11, 2022 show Blower 2 (SVE-2) operating 95.5 percent of the time with Bower 3 (SVE-3) slightly less at 91.3 percent, and Blower 1 (SVE-1) at 64.6 percent. Average flow rates for each blower were 64.2 cubic feet per minute (cfm) in Blower 1, 157.3 cfm in Blower 2 and 162.8 cfm in Blower 3, with a combined average flow rate of 384.3 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 less than 0.1 in W.C but are located on the fringe of the expected remediation area.

EFFLUENT 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 using batch certified 6L Summa canisters regulated for a 1-hour sample duration. The first two samples were submitted to Eurofins Test America, Knoxville, TN and the last sample 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, the site specific compounds of concern are chlorinated VOCs including tetrachloroethylene (PCE), trichloroethylene (TCE), cis-1,2-dichloroethylene (cis-1,2-DCE), and trans-1,2-dichloroethylene (trans-1,2-DCE). 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 ($\mu g/m^3$) with 98.6 percent related to TCE. Total CVOC concentrations in the April 15, 2022 samples were lower at 342 $\mu g/m^3$ with 84.8 percent related to TCE and 15.2 percent related to PCE. Total CVOC concentrations in the May 11, 2022 sample were 97.2 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 µg/m^3, well below the short-term guideline concentration of 20 µg/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). 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 2.11 pounds removed based on PID readings and 1.03 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)
June 16, 2022	3	Yes	Yes	Yes
July 12, 2022	4	Yes	Yes	No
August 12, 2022	5	Yes	Yes	No
September 13, 2022	6	Yes	Yes	Yes

ATTACHMENTS

Figures:

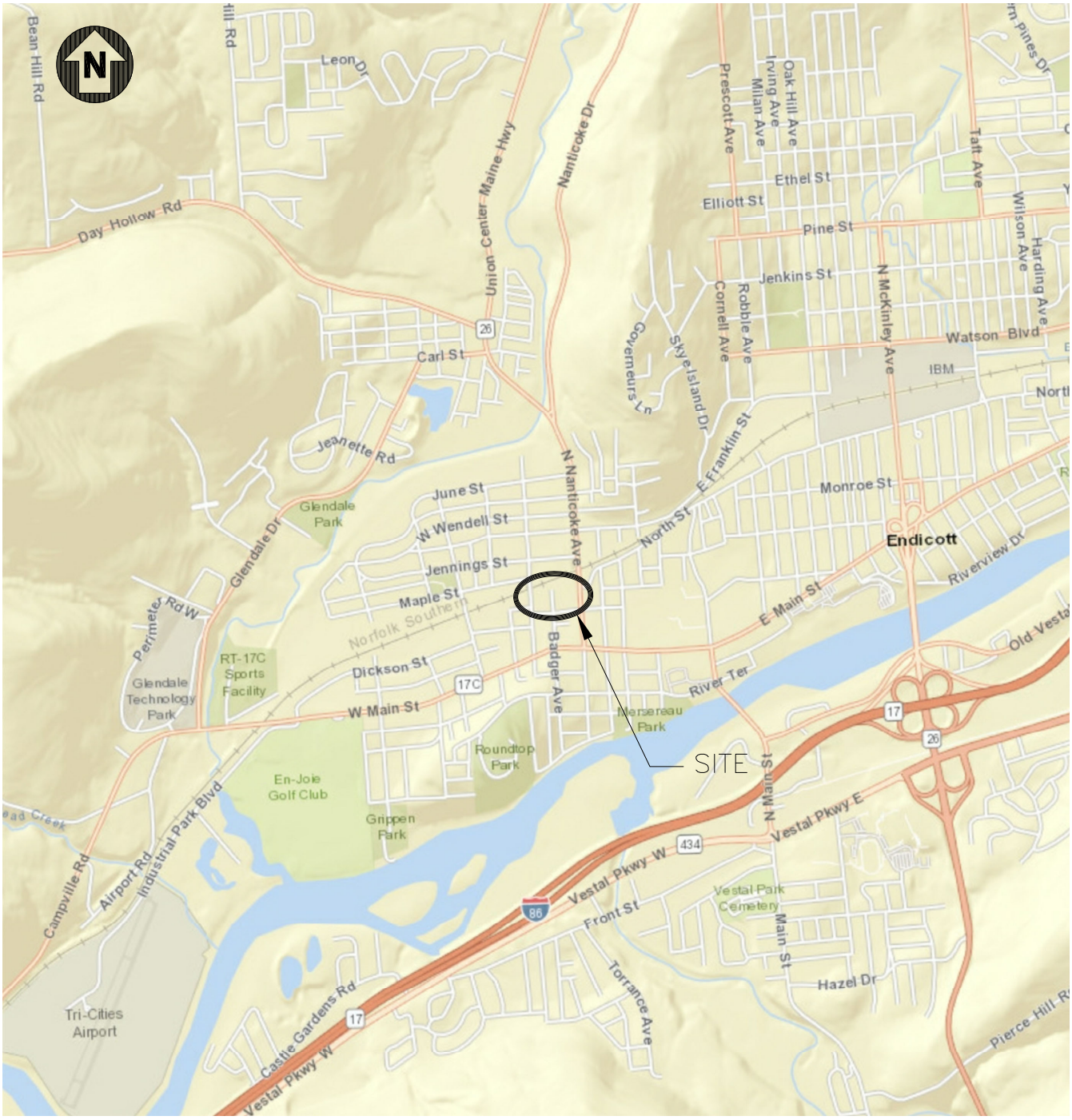
Figure 1 Site Location Map
Figure 2 Draft As-Built
Figure 3 Cumulative Total CVOC Mass Removal

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



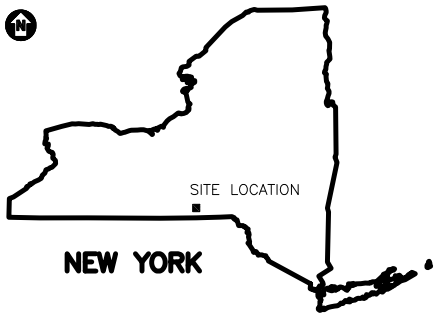


FIGURE 1

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Former Canada Dry
2 & 7 Badger Ave
Endicott, NY

SITE LOCATION MAP

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

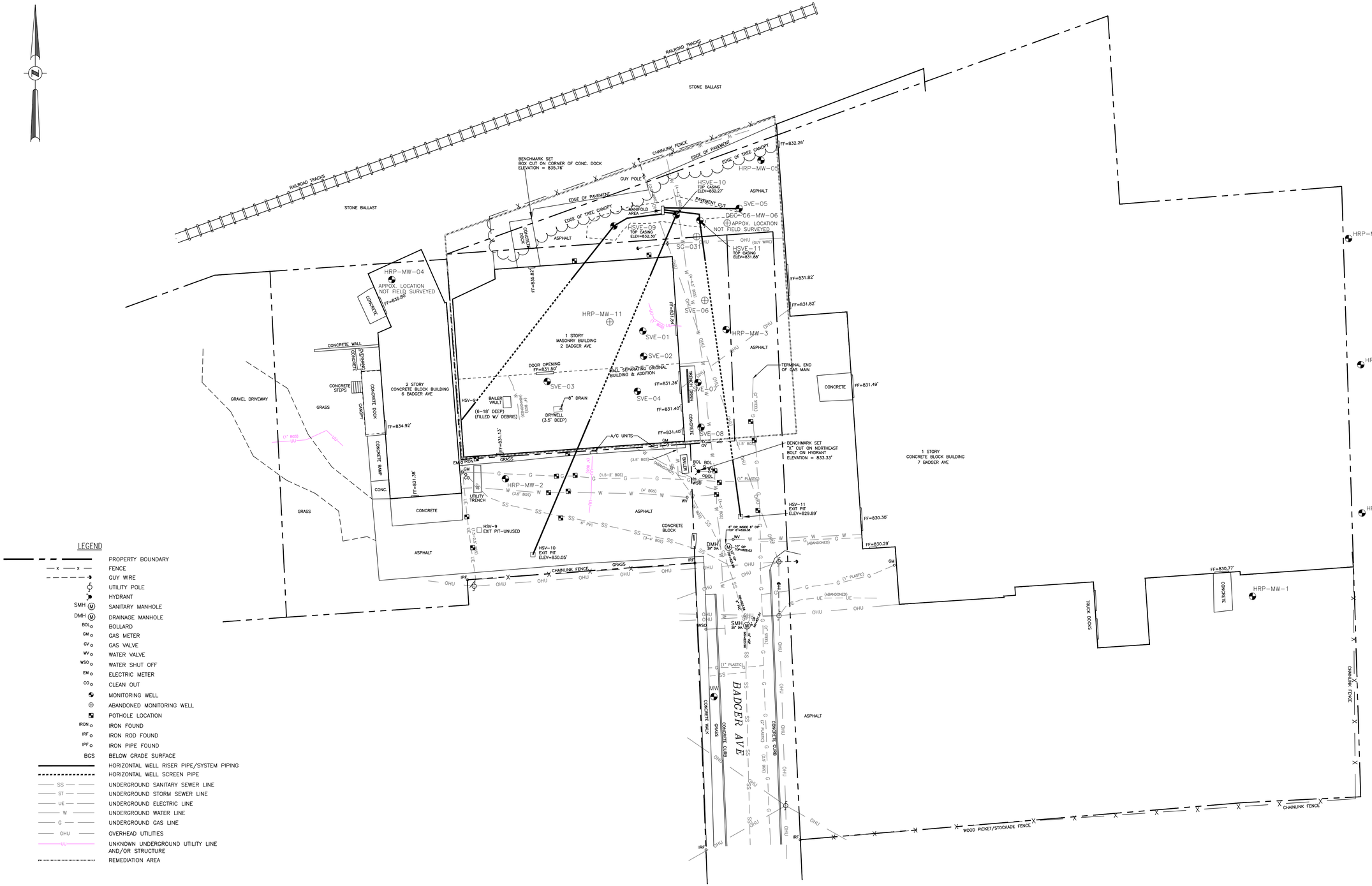
FILE NAME: P:\NYSDEC PROGRAM\450480 - WA #30 - FORMER CANADA DRY PLANT\10.0 TECHNICAL CATEGORIES\CAD\450480-SLM.DWG
PLOT DATE: 10/18/2018 3:48 PM PLOTTED BY: RUSSO, JILL

XREFS: NONE

PROJECT NUMBER: 20.0325

CAD DWG. FILE NAME: C:\Users\DJU\Desktop\2021 EDITS\Sent Finals\CANADA DRY GES SITE 3-22-21.dwg

CAD DWG. FILE NAME: CANADA DRY GES SITE 3-22-21



LEGEND

- PROPERTY BOUNDARY
- FENCE
- GUY WIRE
- UTILITY POLE
- HYDRANT
- SMH — SANITARY MANHOLE
- DMH — DRAINAGE MANHOLE
- BOL — BOLLARD
- GM — GAS METER
- GV — GAS VALVE
- WV — WATER VALVE
- WSO — WATER SHUT OFF
- EM — ELECTRIC METER
- CO — CLEAN OUT
- MONITORING WELL
- ABANDONED MONITORING WELL
- POTHOLE LOCATION
- IRON — IRON FOUND
- IRF — IRON ROD FOUND
- IPF — IRON PIPE FOUND
- BGS — BELOW GRADE SURFACE
- HORIZONTAL WELL RISER PIPE/SYSTEM PIPING
- HORIZONTAL WELL SCREEN PIPE
- SS — UNDERGROUND SANITARY SEWER LINE
- ST — UNDERGROUND STORM SEWER LINE
- UE — UNDERGROUND ELECTRIC LINE
- W — UNDERGROUND WATER LINE
- G — UNDERGROUND GAS LINE
- OHU — OVERHEAD UTILITIES
- UU — UNKNOWN UNDERGROUND UTILITY LINE AND/OR STRUCTURE
- REMEDIATION AREA

1. COORDINATES ARE NEW YORK STATE PLANE COORDINATES (WESTERN ZONE) AND BASED ON NAD 1983 DATUM.
2. ELEVATIONS ARE BASED ON +/−NAVD 88 DATUM.
3. ALL UNDERGROUND UTILITY LINES SHOWN ARE APPROXIMATE.
4. PROPERTY LINES SHOWN ARE DETERMINED FROM FIELD SURVEY, CURRENT DEEDS OF RECORD, TAX MAPS AND MONUMENTATION FOUND.
5. THE HORIZONTAL WELL SCREEN AND HORIZONTAL WELL RISER WERE NOT SURVEYED AND ARE BASED ON FIELD MEASUREMENTS. SCREEN INTERVALS ARE ESTIMATED.

BAR SCALE

20 0 10 20 40

1 inch = 20 ft.

*ONLY COPIES OF THIS MAP SIGNED IN RED INK AND EMBOSSED WITH THE SEAL OF AN OFFICER OF C.T. MALE ASSOCIATES OR A DESIGNATED REPRESENTATIVE SHALL BE CONSIDERED TO BE A VALID TRUE COPY".

DAVID J. UHRINEC, PLS
P.L.S. NO. 050052

STATE OF NEW YORK · DAVID JOSEPH UHRINEC · 050052 · LICENSED LAND SURVEYOR

DATE		REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.
	1				
	2				
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	8				
	9				

APPROVED: dju
DRAFTED : JAD/dju
CHECKED : dju
PROJ. NO : 20.0325
SCALE : 1"=20'
DATE : 03/22/2021

AUGUST 17, 2020 RECORD SURVEY

FORMER CANADA DRY PLANT

2 & 7 BADGER AVE ENDICOTT, NEW YORK

VILLAGE OF ENDICOTT — BROOME COUNTY, NEW YORK

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SHEET 1 OF 1
DWG. NO: 21.0203

Figure 3: Cumulative Total CVOC Mass Removal

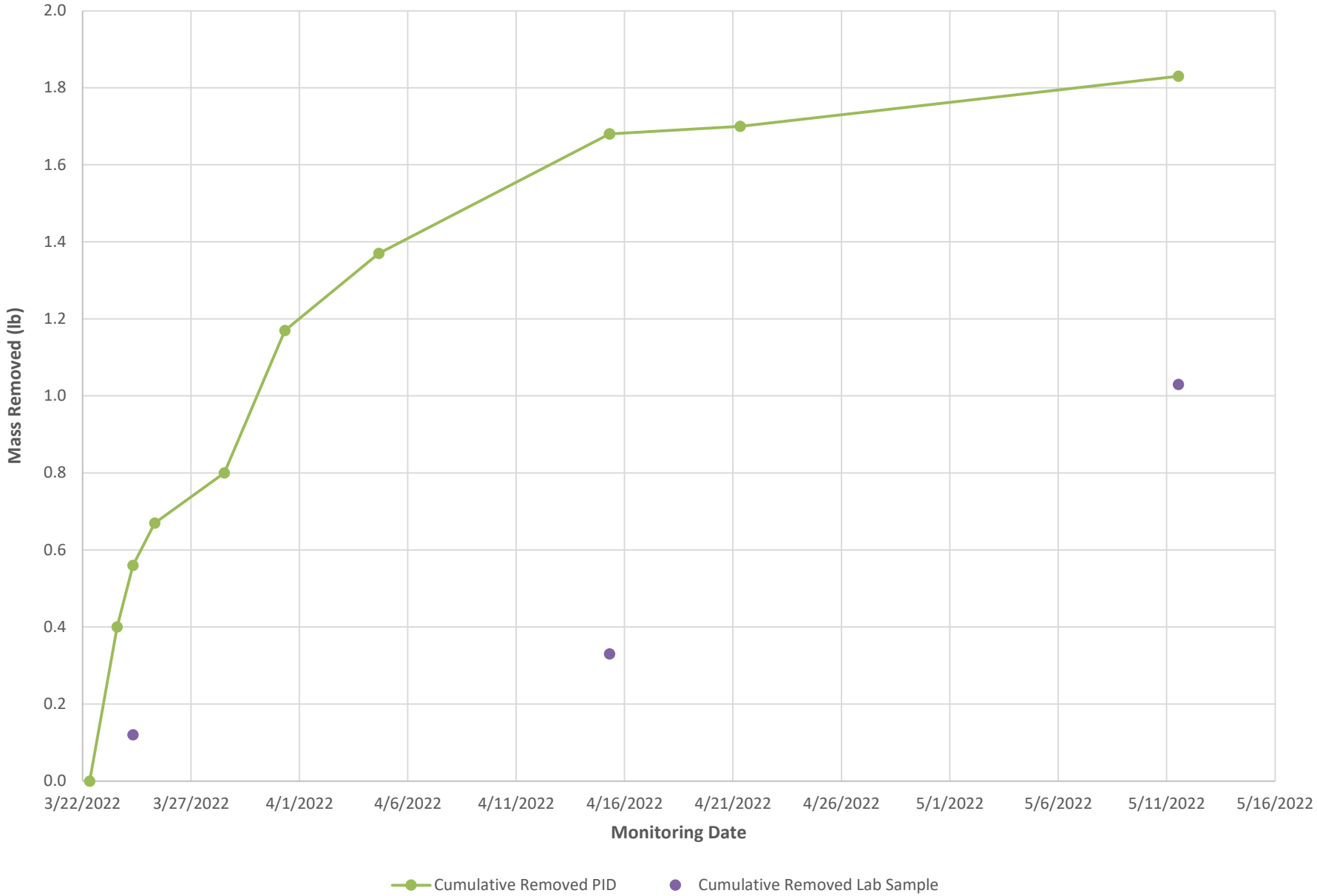

TABLE 1 - BLOWER INFLUENT AND EFFLUENT DATA
Canada Dry Site #704050 - 2 and 7 Badger Ave, Endicott, New York

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	RunTime b/w Dates	System Operation	Cumulative Operational	Hour Meter	RunTime b/w Dates	System Operation	Cumulative Operational	Hour Meter	RunTime b/w Dates	Potential Hours	System Operation	Cumulative Operational	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)	Reading	(hr)	Time (%)	Time (hours)	Reading	(hr)	Time (%)	Time (hours)	Reading	(hr)	(hr)	Time (%)	Time (hours)	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	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	24.0	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	30.5	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	17.5	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	24.0	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	77.0	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	67.0	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	104.0	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	255.5	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	0.0	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	46.44	32	311.57	690.58	91.20	63	690.58	639.50	91.05	144.5	63	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	526.74	109	794.47	1173.48	571.55	118	1173.48	1122.40	571.40	485.0	118	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			
Total	**1229.0**		**Percent Operating**		**64.6%**		**Percent Operating**		**95.5%**		**Percent Operating**			**91.3%**					**Average**	**64.2**						**Average**	**157.3**						**Average**	**162.8**					

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).
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 - degree
in H20 - inch
scfm - standar
ppm - part pert million
PID - Photoionization Det
lb - pounds
NM - Not Measured
acfn - actual cubic feet pe
PID - Photoionization Detector
lb - pounds
NM - Not Measured
acfm - actual cubic feet per minute
cis-1,2-DCE - cis-1,2-dichloroethylene
Trans-1,2-DCE - trans-1,2-dichoroethylene
TCE - trichloroethylene
PCE - perchloroethylene

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 Removed	Cumulative Removed	Rate	Mass Removed	Cumulative Removed	
	in H20	(deg F)	ppm	in H20	(deg F)	ppm	in H20	(deg F)	ppm	ppm	µg/m3	µg/m3	in H20	(deg F)	fpm	acfm	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	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. Approx. 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				4/18/22 - Site visit made. The SVE-1 blower was off due to a VLS Tank High Level Alarm received April 16, 2022. No performance measurements made this day. 4/21/22 -Second unplanned site visit. The SVE-1 through SVE-3 blowers were off on a VFD Overload received April 19, 2022 (presumed to be a power outage due to a storm). Performance measurements taken.
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	1.03	1.03	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	HSVE-09[4]				HSVE-10[4]				HSVE-11[4]				SVE-05[4]				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]		
Well Diameter	3 inches				3 inches				3 inches				4 inches				2 inches			2 inches			2 inches			2 inches			4 inches			4 inches			2 inches			2 inches		
Well Depth	115 feet length				165 feet length				145 feet length				11 feet				15 feet			15 feet			5 feet			15 feet			15 feet			15 feet								
Screened Interval	35 to 105 feet				30 to 100 feet				20 to 110 feet				5 to 10.5 feet				5 to 15 feet			5 to 15 feet			2.5 to 5 feet			5 to 15 feet			5 to 15 feet			5 to 15 feet								
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
	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
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
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
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
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
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
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
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
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
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
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
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
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

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 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 H20 - inches of water
scfm - standard cubic feet per minute
ppm - part pert 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	
Lab Sample Number		**410-77646-1**		**410-80448-1**		**22E0860-01**	
Sampling Date		**03/24/2022**		**04/15/2022**		**5/11/2022**	
Matrix		**Air**		**Air**		**Air**	
Units		**µg/m³**		**µg/m³**		**µg/m³**	
Air - GC/MS VOA - TO-15	**CAS#**	**Result**		**Result**		**Result**	
1,1,1-Trichloroethane	71-55-6	**2.2**	J	ND		**10**	
1,2,4-Trimethylbenzene	95-63-6	**2.5**	J	ND		ND	
1,3,5-Trimethylbenzene	108-67-8	ND		ND		**1.3**	
2-Butanone	78-93-3	**610**		**460**		**110**	
4-Methyl-2-pentanone	108-10-1	**1.4**	J	ND		ND	
Acetone	67-64-1	**1200**		**580**		**76**	
Benzene	71-43-2	**0.68**	J	ND		ND	
Chlorodifluoromethane	75-45-6	**0.70**	J	ND		ND	
Chloroform	67-66-3	**1.4**	J	ND		**5.4**	
Chloromethane	74-87-3	**0.59**	J	ND		ND	
cis-1,2-Dichloroethene	**156-59-2**	**10**		**ND**		**7.8**	
Cumene	98-82-8	**1.7**	J	ND		ND	
Dichlorodifluoromethane	75-71-8	**2.2**	J	ND		**2.6**	
Ethanol	64-17-5	ND		ND		**48**	
Ethylbenzene	100-41-4	**2.8**	J	ND		**3.3**	
m&p-Xylene	179601-23-1	**13**		**24**	J	**12**	
o-Xylene	95-47-6	**7.5**		**17**	J	**8.9**	
Naphthalene	91-20-3	ND		ND		**1.3**	
Pentane	109-66-0	**3.6**		**32**	J	ND	
Styrene	100-42-5	**1.0**	J	ND		ND	
Tetrachloroethene (PCE)	**127-18-4**	**9.2**	**J**	**52**	**J**	**12**	
Tetrahydrofuran	**109-99-9**	ND		ND		**430**	
Toluene	108-88-3	**2.3**	J	ND		**3.4**	
trans-1,2-Dichloroethene	**156-60-5**	**0.82**	**J**	**ND**		**0.94**	
Trichloroethene (TCE)	**79-01-6**	**1400**		**290**		**710**	
Trichlorofluoromethane	75-69-4	**1.7**	J	ND		ND	
Total CVOC detections		**1,420.02**		**342.00**		**730.74**	
Percentage by Dominant Compound							
Percent PCE		**0.7**		**15.2**		**1.6**	
Percent TCE		**98.6**		**84.8**		**97.2**	
Percent cis-1,2-DCE		**0.7**		**0.0**		**1.1**	
Percent trans-1,2-DCE		**0.1**		**0.0**		**0.1**	
Total		**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

eurofins | Environment Testing America

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

Megan Moeller, Client Services Manager
(717)556-7261
Megan.Moeller@eurofinset.com

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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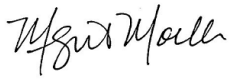


Megan Moeller
Client Services Manager
4/4/2022 10:46:07 PM

Table of Contents

Definitions/Glossary

Client: Parsons Corporation
Job ID: 410-77646-1
Project/Site: NYSDEC FORMER CANADA DRY PLANT

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.
¤	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

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
Job ID: 410-77646-1
Project/Site: NYSDEC FORMER CANADA DRY PLANT

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.

Client: Parsons Corporation
Job ID: 410-77646-1
Project/Site: NYSDEC FORMER CANADA DRY PLANT

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

Client: Parsons Corporation
Job ID: 410-77646-1
Project/Site: NYSDEC FORMER CANADA DRY PLANT

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

Client: Parsons Corporation
Job ID: 410-77646-1
Project/Site: NYSDEC FORMER CANADA DRY PLANT

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

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

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

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

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
Job ID: 410-77646-1
Project/Site: NYSDEC FORMER CANADA DRY PLANT

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
Job ID: 410-77646-1
Project/Site: NYSDEC FORMER CANADA DRY PLANT

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

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
Job ID: 410-77646-1
Project/Site: NYSDEC FORMER CANADA DRY PLANT

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

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

410-77646 Chain of Custody

ne: 717-656-2300 | Megan.Moeller@eurofinset.com | Doc #378

CHAIN OF CUSTODY RECORD (AIR)

ATTN Sample Receiving 2425
New Holland Pike
Lancaster, PA 17601

ANALYSIS REQUESTED

Company Name:	PARSONS
Address:	301 PLAINFIELD RD; SYRACUSE, NY 13212
Phone:	315-715-2793
Project Name:	NYSDEC FORMER CANADA DRY PLANT
Site Number:	704050
Project Location:	2 and 7 Badger Ave, Endicott, NY 13670
Project Number:	452162.02
Project Manager:	HEATHER BUDZICH
Quote Name/Number:	
Invoice Recipient:	
Sampled By:	

Requested Turnaround Time
7-Day ☐ 10-Day ☑
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other: SAMPLE RECEIPT, L2, L4, NYSDEC EQUIS EDD
CLP Like Data Pkg Required: ☑
Email To: Heather.Fettig@parsons.com; Lorraine.Weber@parsons.com
Copy To: Heather.Budzich@parsons.com; Laura.Drachenberg@parsons.com

Please fill out completely, sign, date and retain the yellow copy for your records

Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume	TO-15				" Hg				
	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	m³/min	Code	m³					Initial Pressure	Final Pressure	Lab Receipt Pressure	Summa Can ID	Flow Controller ID
	SVESYSTEMOUTLET-032422	3/24/22 1455	3/24/22 1500	5	0.0002	SG	0.001	X				-29	-2		992	849481

Comments: Blowers have been on since 07:30.

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

Matrix Codes:
SG = SOIL GAS
AI = INDOOR AIR
AA = AMBIENT
AS = SUB SLAB
D = DUP
BL = BLANK
O = Other_____

Relinquished by: (signature) Kristen Brodly	Date/Time: 3/24/22 1600	Detection Limit Requirements	Special Requirements
Received by: (signature)	Date/Time:	MA	MA MCP Required
Relinquished by: (signature)	Date/Time:		MCP Certification Form Required
Received by: (signature)	Date/Time:		CT RCP Required
Relinquished by: (signature)	Date/Time:	CT	RCP Certification Form Required
Received by: (signature)	Date/Time: 3/25/22 1036		Other
		Other:	NELAC and AIHA-LAP, LLC Accredited

Project Entity: ☐ Government ☐ Municipality ☐ MWRA ☐ WRTA ☐ Federal ☐ 21 J ☐ School ☐ City ☐ Brownfield ☐ MBTA

Other: ☐ Chromatogram ☐ *AIHA-LAP,LLC*

PCB ONLY: ☐ Soxhlet ☐ Non Soxhlet

4/4/2022

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 (</=6C, not frozen).	N/A	
Cooler Temperature is recorded.	N/A	
WV: Container Temperature is acceptable (</=6C, 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 Initals
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) = ((Preadjusted Pressure ("Hg) + 29.92 "Hg) * Vol L) / 29.92 "Hg
Adjusted Volume (L) = ((Adjusted Pressure (psig) + 14.7 psig)* Vol L) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / 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

Report Date: 11-Mar-2022 17:12:06 Chrom Revision: 2.3 16-Feb-2022 17:52:00

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

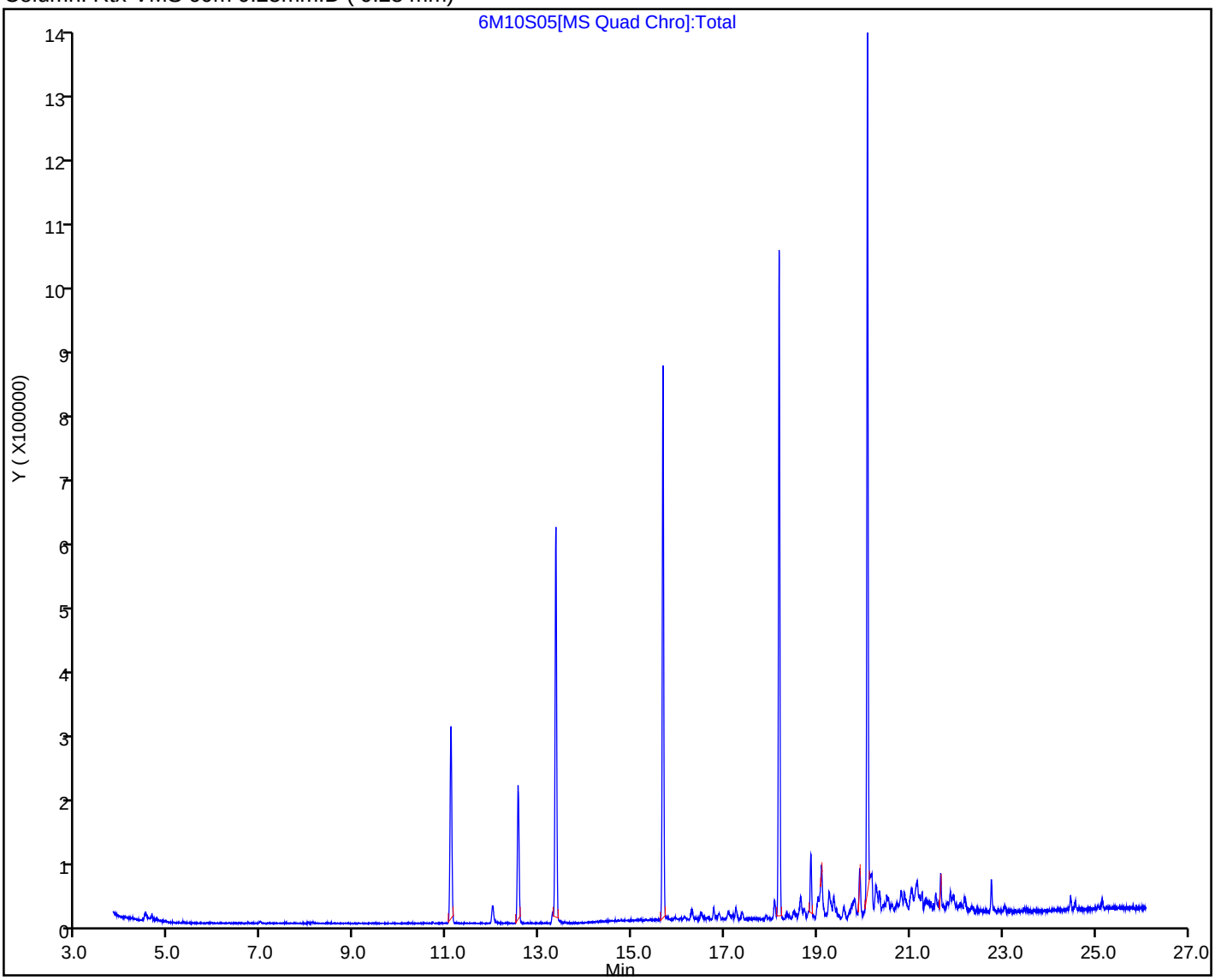
Client ID: 958

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)



Report Date: 11-Mar-2022 17:12:06 Chrom Revision: 2.3 16-Feb-2022 17:52:00

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

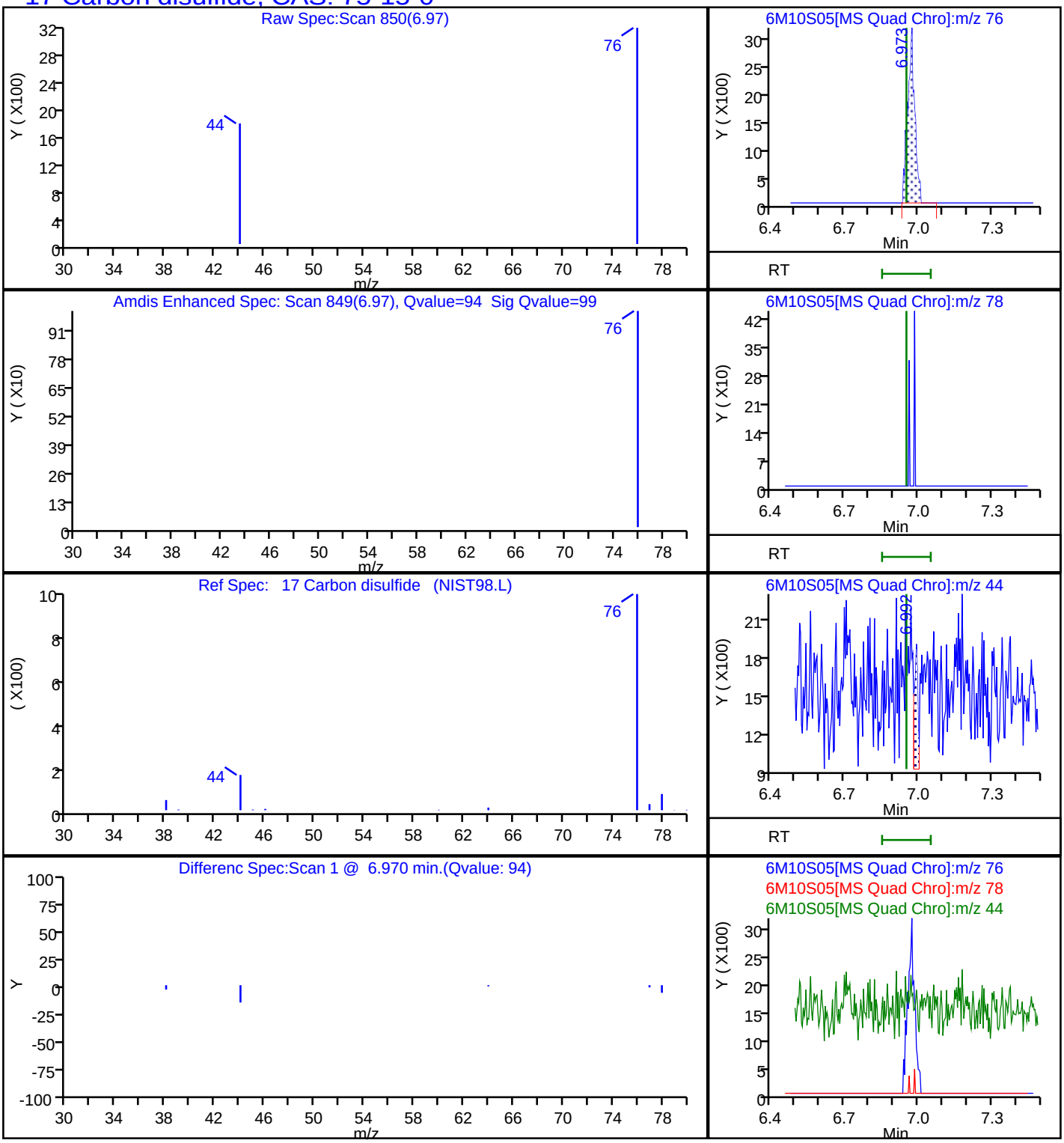
Operator ID: etp33087 ALS Bottle#: 0 Worklist Smp#: 13

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



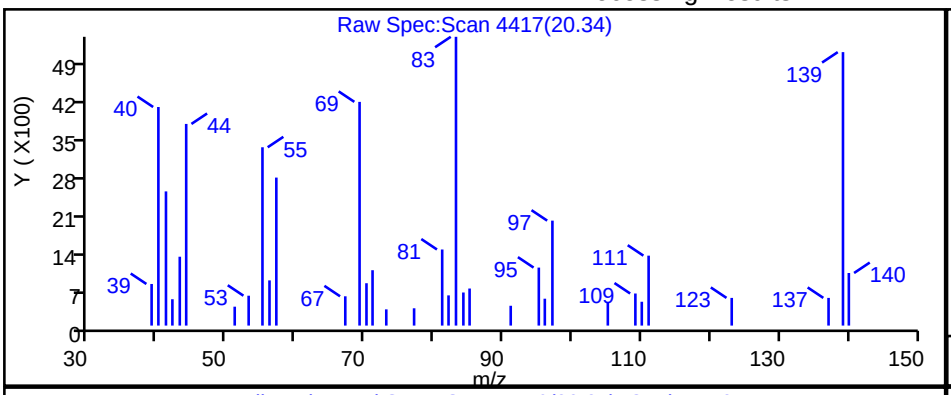
User Disabled Compound Report

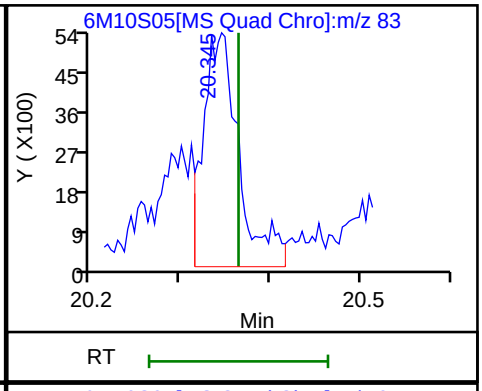
Eurofins Lancaster Laboratories Env, LLC

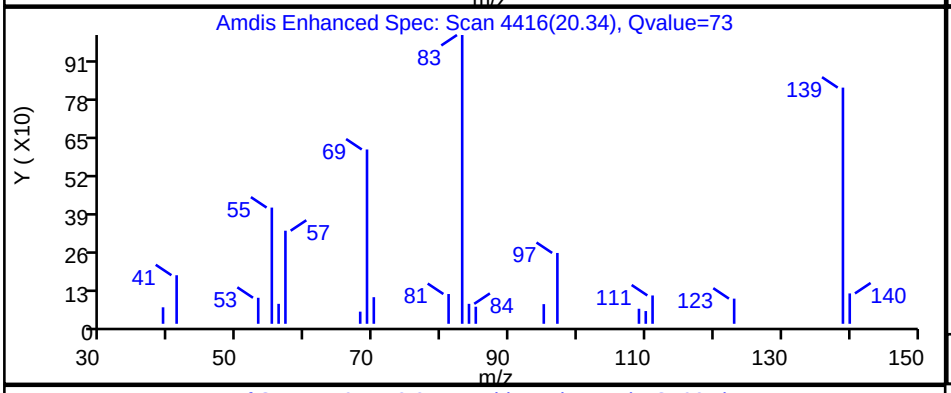
Data File:	\\chromfs\Lancaster\ChromData\HP26379\20220310-52201.b\6M10S05.D				
Injection Date:	11-Mar-2022 00:14:36	Instrument ID:	HP26379		
Lims ID:	410-75663-A-1	Lab Sample ID:	410-75663-1		
Client ID:	958				
Operator ID:	etp33087	ALS Bottle#:	0	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor: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

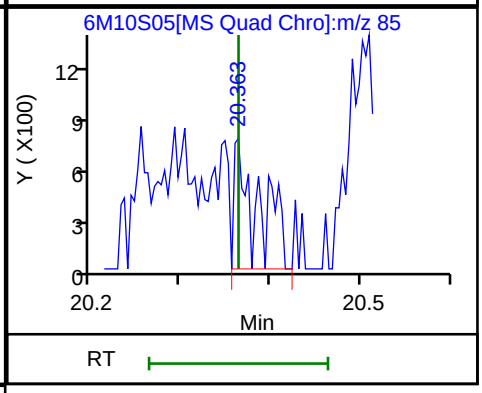
79 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

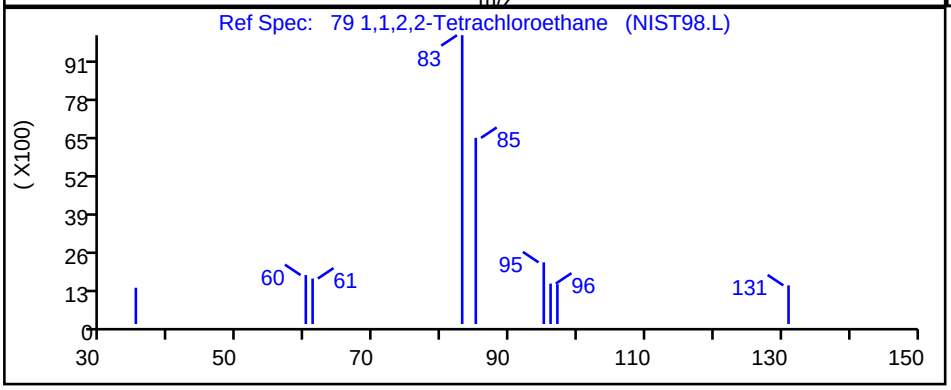
Processing Results











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

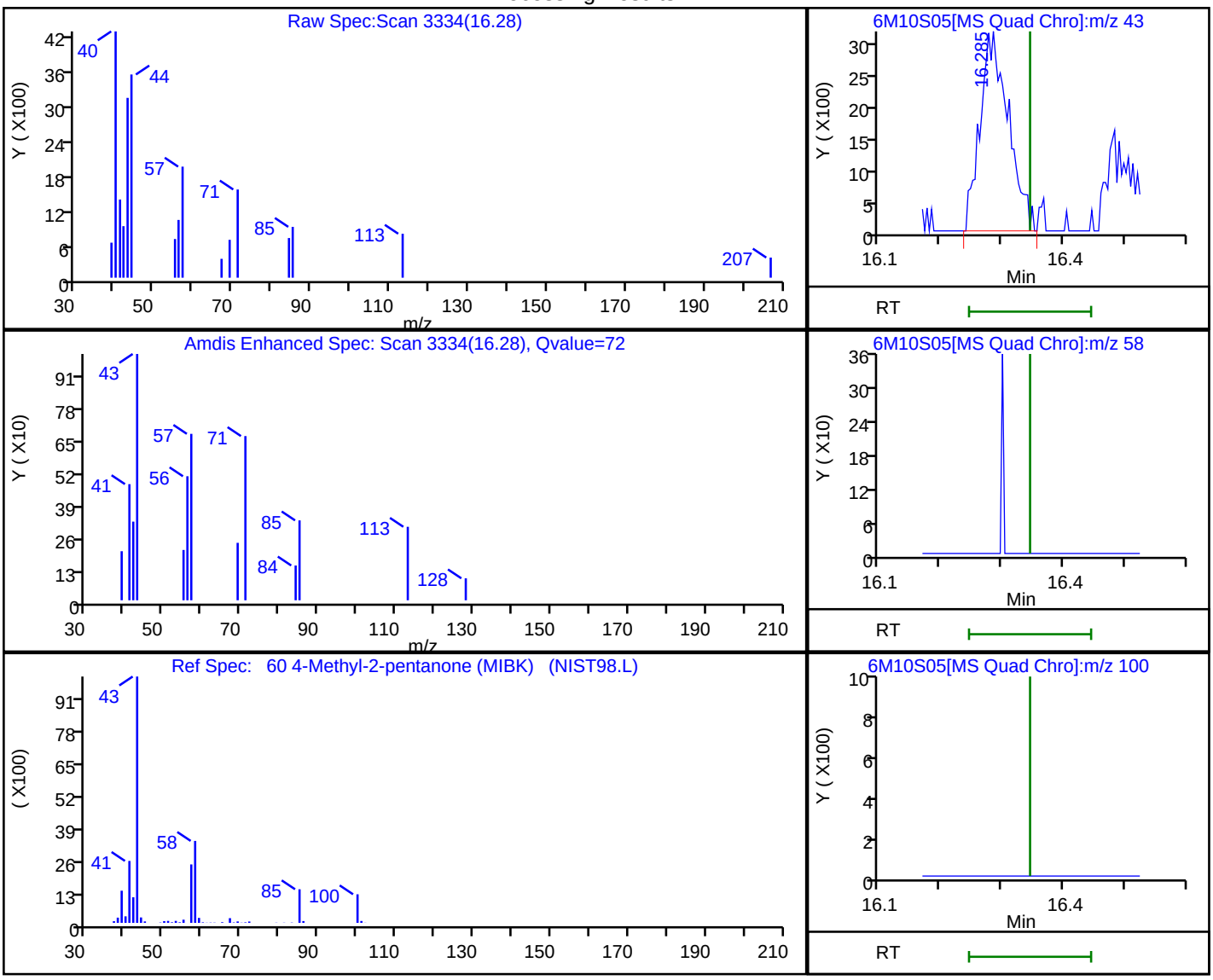
User Disabled Compound Report

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

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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

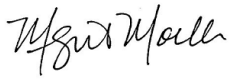
Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.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

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



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

Table of Contents

Client: Parsons Corporation
Job ID: 410-80448-1
Project/Site: NYSDEC FORMER CANADA DRY PLANT

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.
¤	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

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.

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.

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
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

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
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

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

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

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

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

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
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
Job ID: 410-80448-1
Project/Site: NYSDEC FORMER CANADA DRY PLANT

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
Job ID: 410-80448-1
Project/Site: NYSDEC FORMER CANADA DRY PLANT

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

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
Job ID: 410-80448-1
Project/Site: NYSDEC FORMER CANADA DRY PLANT

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
Job ID: 410-80448-1
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 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

Eurofins TestAmeric

410-80448 Chain of Custody

Megan.Moeller@eurofinset.com

Doc #378

ATTN Sample Receiving 2425
New Holland Pike
Lancaster, PA 17601

Page 1 of 1

CHAIN OF CUSTODY RECORD (AIR)

ANALYSIS REQUESTED

Company Name:	
Address:	301 PLAINFIELD RD; SYRACUSE, NY 13212
Phone:	315-715-2793
Project Name:	NYSDEC FORMER CANADA DRY PLANT
Site Number:	704050
Project Location:	2 and 7 Badger Ave, Endicott, NY 13670
Project Number:	452162.02
Project Manager:	HEATHER BUDZICH
Quote Name/Number:	
Invoice Recipient:	
Sampled By:	Kristen Brooks (Parsons)

Requested Turnaround Time

7-Day ☐ 10-Day ☑
Due Date:

Rush Approval Required

1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery

Format: PDF ☑ EXCEL ☑
Other: SAMPLE RECEIPT, L2, L4, NYSDEC EQUIS EDD
CLP Like Data Pkg Required: ☑
Email To: Heather.Fettig@parsons.com; Lorraine.Weber@parsons.com
Copy To: Heather.Budzich@parsons.com; Laura.Drachenberg@parsons.com

Please fill out completely, sign, date and retain the yellow copy for your records

Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume	TO-15				" Hg				
	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	m³/min	Code	m³					Initial Pressure	Final Pressure	Lab Receipt Pressure	Summa Can ID	Flow Controller ID
	SVESYSTEMOUTLET-041822	4/15/22 1112	4/15/22 1212	60	1.67×10^{-5}	SG	0.001	x				-26	-2		1040	303934

Comments:

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

Matrix Codes:

SG = SOIL GAS
AI = INDOOR AIR
AA = AMBIENT
AS = SUB SLAB
D = DUP
BL = BLANK
O = Other_____

Relinquished by: (signature) Kristen Brooks	Date/Time: 4/15/22 1300	Detection Limit Requirements	Special Requirements
Received by: (signature)	Date/Time:	MA	MA MCP Required
Relinquished by: (signature)	Date/Time:		MCP Certification Form Required
Received by: (signature)	Date/Time:	CT	CT RCP Required
Relinquished by: (signature)	Date/Time:		RCP Certification Form Required
Received by: (signature)	Date/Time:	Other:	Other

NELAC and AIHA-LAP, LLC Accredited

Project Entity						Other	PCB ONLY
☐	Government	☐	Municipality	☐	MWRA ☐ WRTA	☐ Chromatogram	☐ Soxhlet
☐	Federal	☐	21 J	☐	School	☐ *AIHA-LAP,LLC*	☐ Non Soxhlet
☐	City	☐	Brownfield	☐	MBTA		

4/27/2022

Summa Canister Field Test Data/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # ______ Group # ______ For Eurofins Lancaster Laboratories Environmental use only Sample # ______ Bottle Order (BOR) # 52527

Client Information		Turnaround Time Requested (TAT) (circle one)	
Client	Account #	Standard	Rush (specify)
Project Name/#		Data Package Required? Yes No	EDD Required? Yes No
Project Manager	P.O. #		
Sampler	Quote #		
Name of state where samples were collected			

	Temperature (F) Start	Temperature (F) Stop	Pressure ("Hg) Start	Pressure ("Hg) Stop
Ambient				
Maximum				
Minimum				

Analyses Requested: EPA TO-15; EPA 16 ☐ BTEX ☐ MTBE; EPA 25 (select range below); Helium 5 TCE; H2/CO2; Library Search

Sample Identification	Start Date/Time (24 hour clock)	Stop Date/Time (24 hour clock)	Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Flow Reg. ID	Can ID	Can Size (L)	Controller Flowrate (mL/min)	EPA TO-15	EPA 16	EPA 25	Helium 5 TCE	H2/CO2	Library Search
							303934	1040	1	14.5						
							710536	Z051	1	14.4						

Instructions/QC Requirements & Comments

EPA 25 (check one): ☐ C1 - C4 ☐ C2 - C10 ☐ C1 - C10 ☐ C4 - C10 (GRO) ☐ C2 - C4

Canisters Shipped by:	Date/Time:	Canisters Received by:	Date/Time:	Relinquished by:	Date/Time:	Received by:	Date/Time:
TK 42050	3/21/22						
Relinquished by:	Date/Time:	Received by:	Date/Time:	Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Relinquished by:	Date/Time:	Received by:	Date/Time:
						[signature]	4/16/22 0900

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717 656 2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7055 1018

4/27/2022

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 410-80448-1

Login Number: 80448

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McCaskey, Jonathan

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 (</=6C, not frozen).	False	Thermal preservation not required.
Cooler Temperature is recorded.	False	Thermal preservation not required.
WV: Container Temperature is acceptable (</=6C, 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 Initals
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) = ((Preadjusted Pressure ("Hg) + 29.92 "Hg) * Vol L) / 29.92 "Hg
Adjusted Volume (L) = ((Adjusted Pressure (psig) + 14.7 psig)* Vol L) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / 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

Report Date: 17-Mar-2022 19:30:27 Chrom Revision: 2.3 16-Feb-2022 17:52:00

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

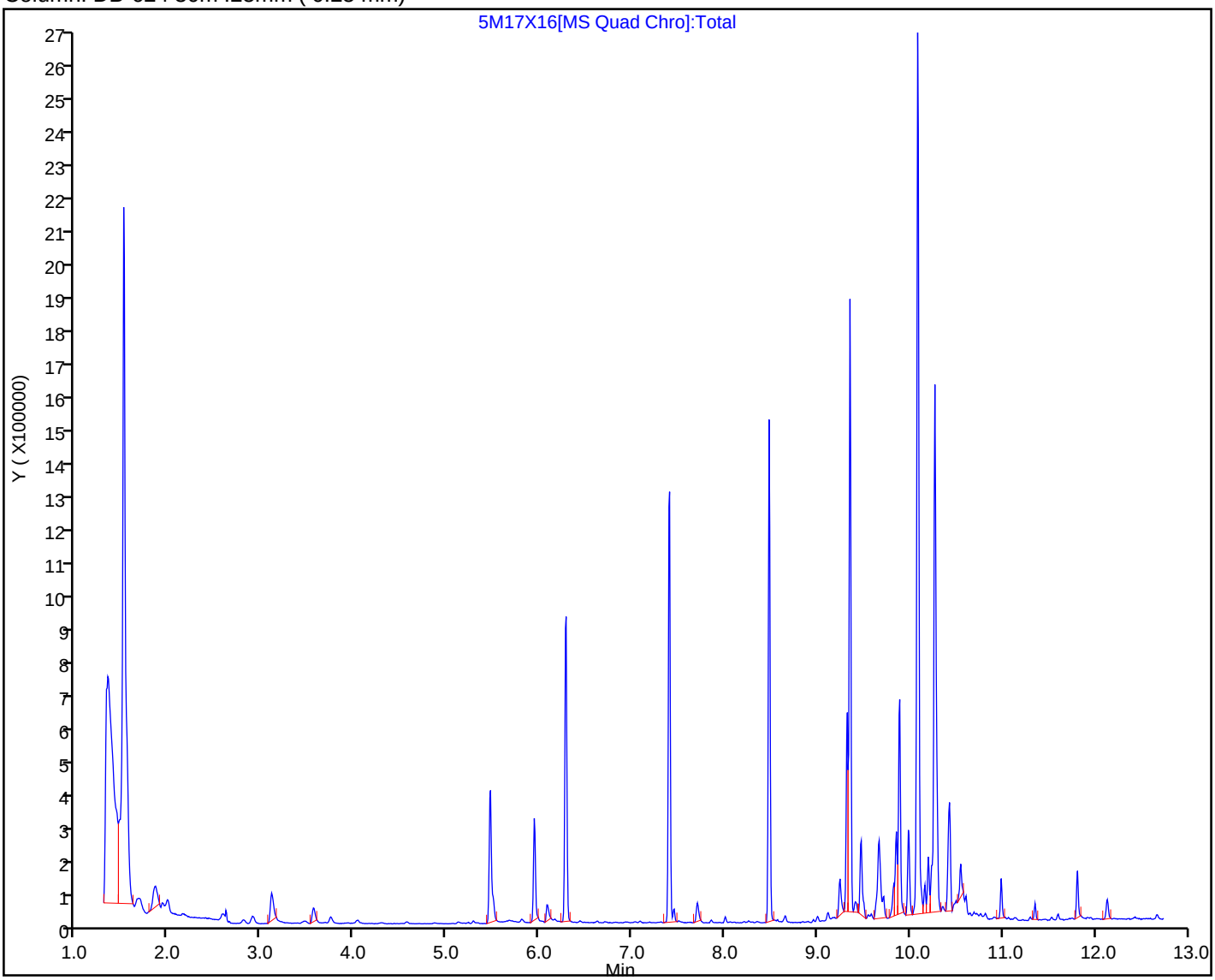
Client ID: 961

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)

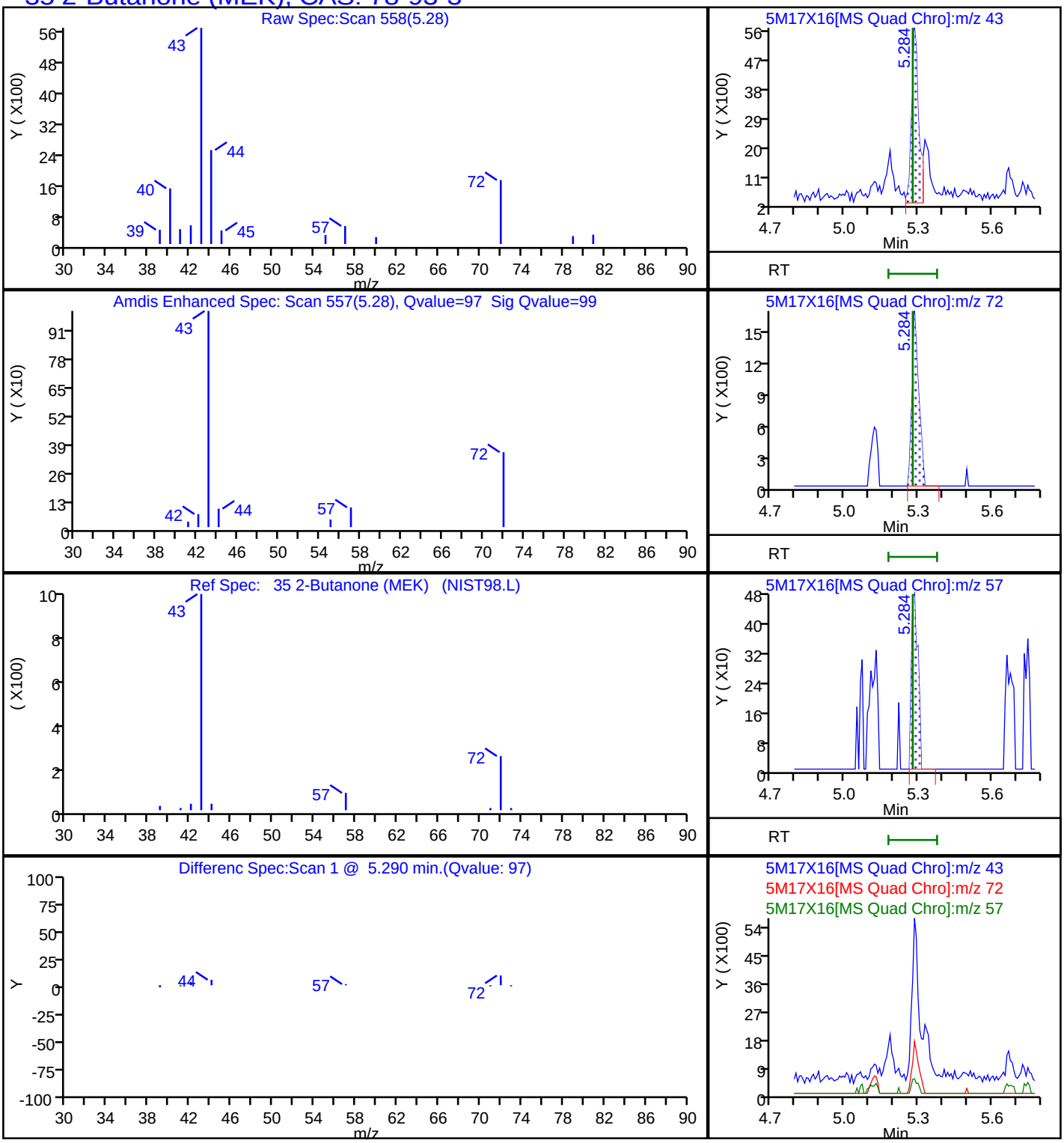


Report Date: 17-Mar-2022 19:30:27 Chrom Revision: 2.3 16-Feb-2022 17:52:00

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



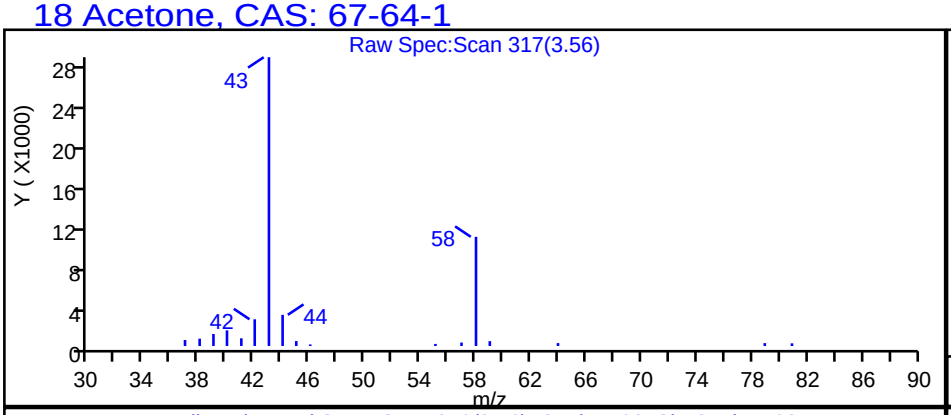
Report Date: 17-Mar-2022 19:30:27 Chrom Revision: 2.3 16-Feb-2022 17:52:00

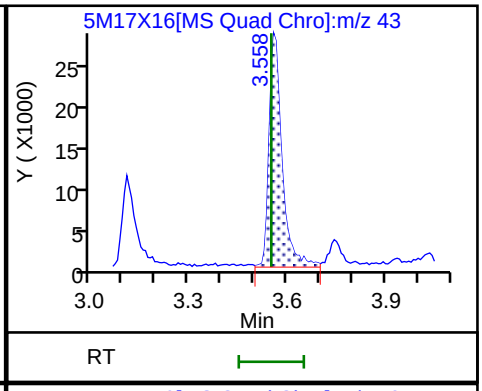
Eurofins Lancaster Laboratories Env, LLC

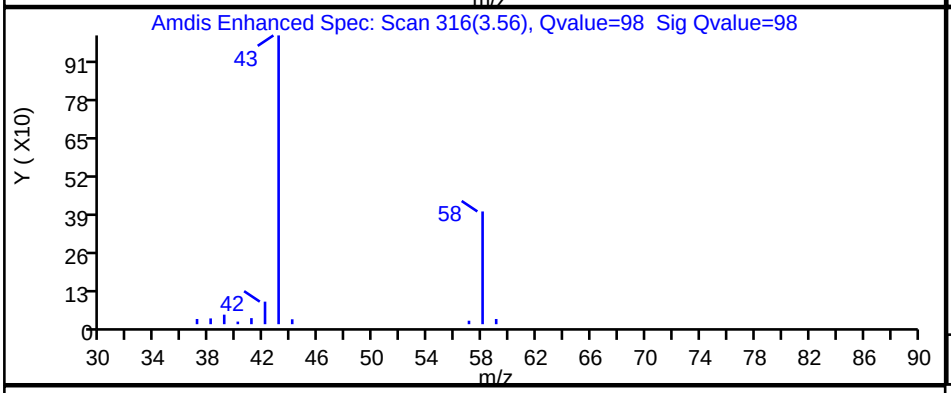
Data File: \\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D

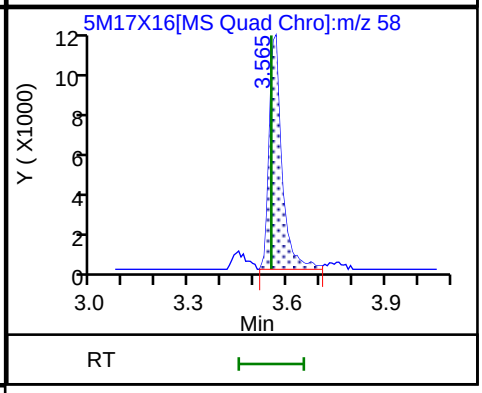
Injection Date:	17-Mar-2022 17:38:19	Instrument ID:	HP22820		
Lims ID:	410-76254-A-1	Lab Sample ID:	410-76254-1		
Client ID:	961				
Operator ID:	rrm00219	ALS Bottle#:	0	Worklist Smp#:	16
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	AirMS_TO15_HP22820	Limit Group:	MSV - TO15		
Column:	DB-624 30m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

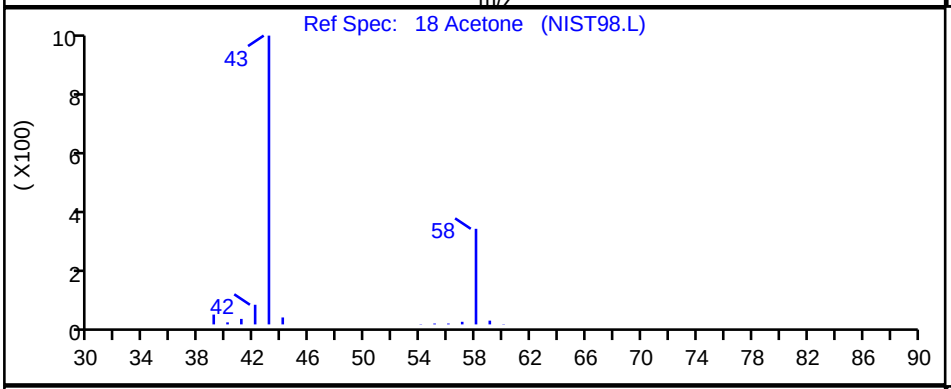
18 Acetone, CAS: 67-64-1

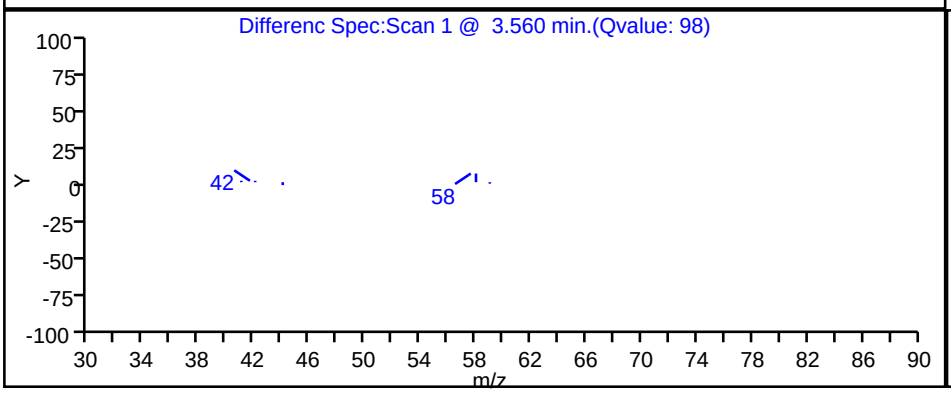


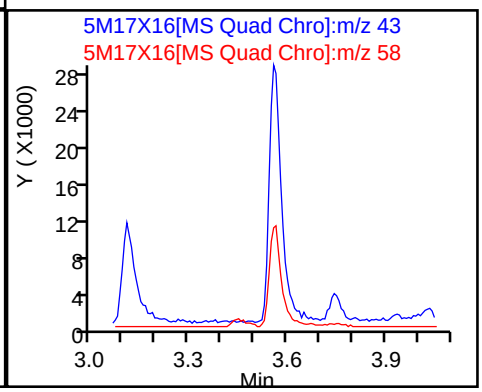










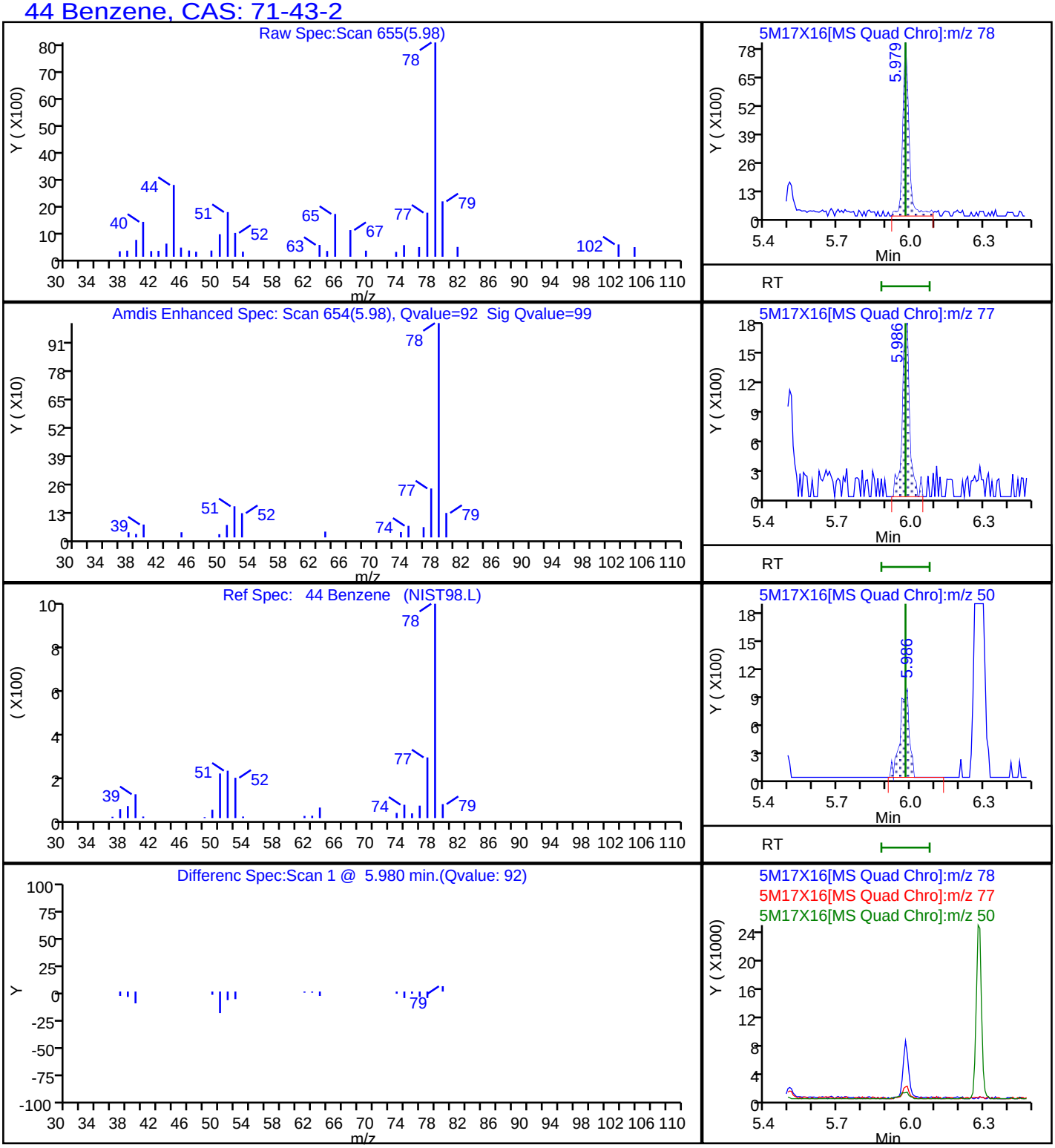


Report Date: 17-Mar-2022 19:30:27 Chrom Revision: 2.3 16-Feb-2022 17:52:00

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		

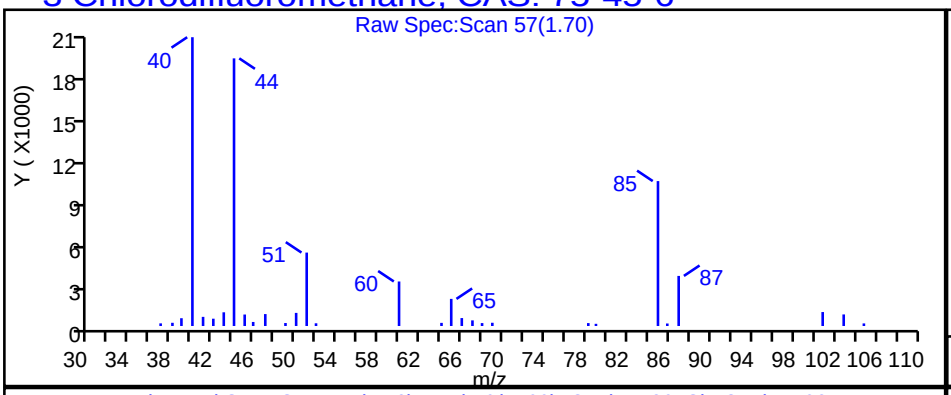
44 Benzene, CAS: 71-43-2

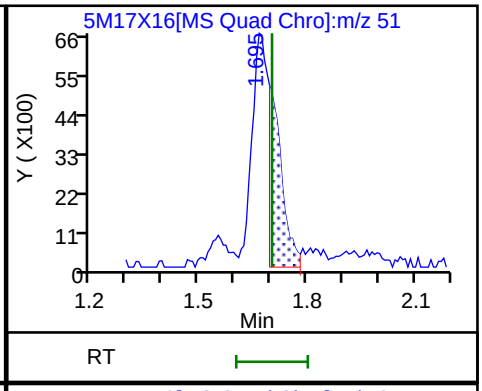


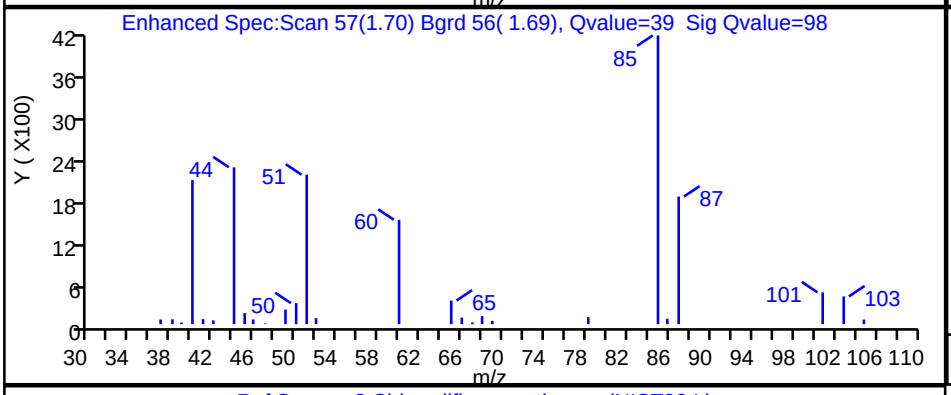
Eurofins Lancaster Laboratories Env, LLC

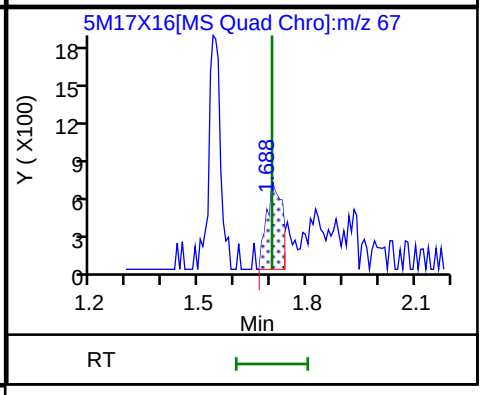
Data File:	\\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D				
Injection Date:	17-Mar-2022 17:38:19	Instrument ID:	HP22820		
Lims ID:	410-76254-A-1	Lab Sample ID:	410-76254-1		
Client ID:	961				
Operator ID:	rrm00219	ALS Bottle#:	0	Worklist Smp#:	16
Purge Vol:	200.000 mL	Dil. Factor: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

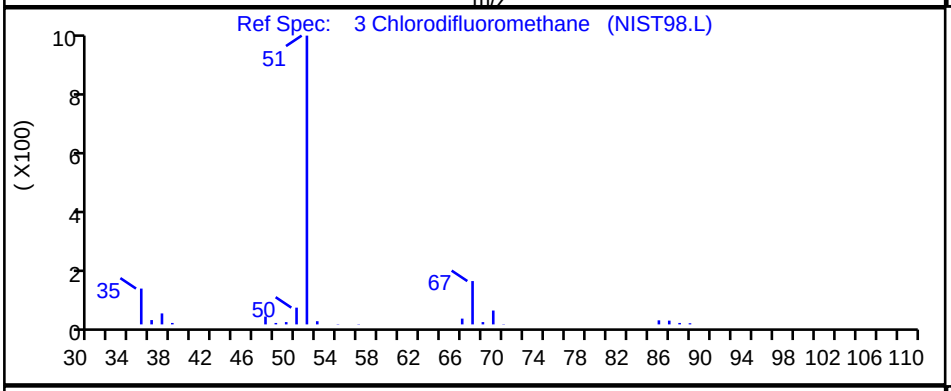
3 Chlorodifluoromethane, CAS: 75-45-6

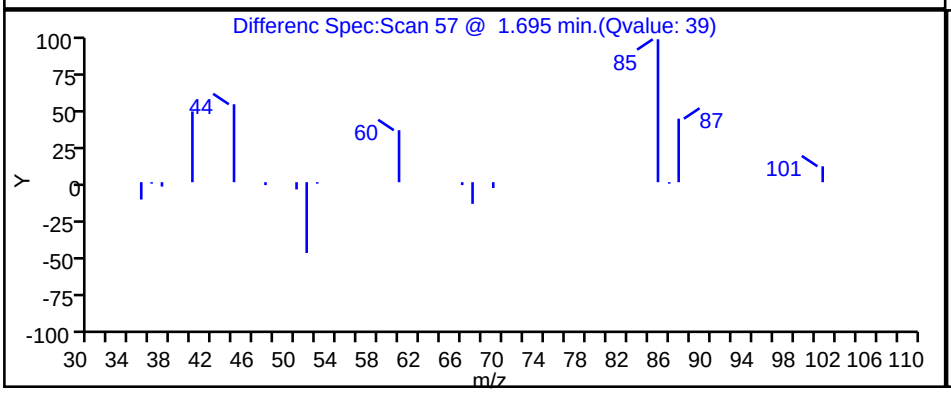


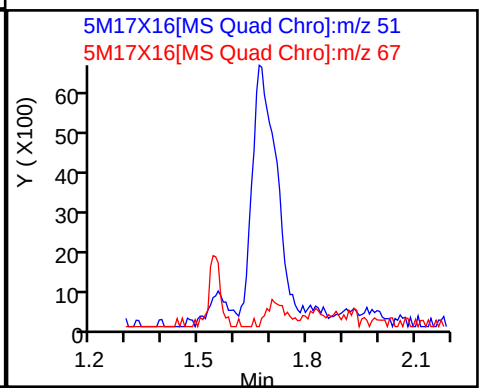












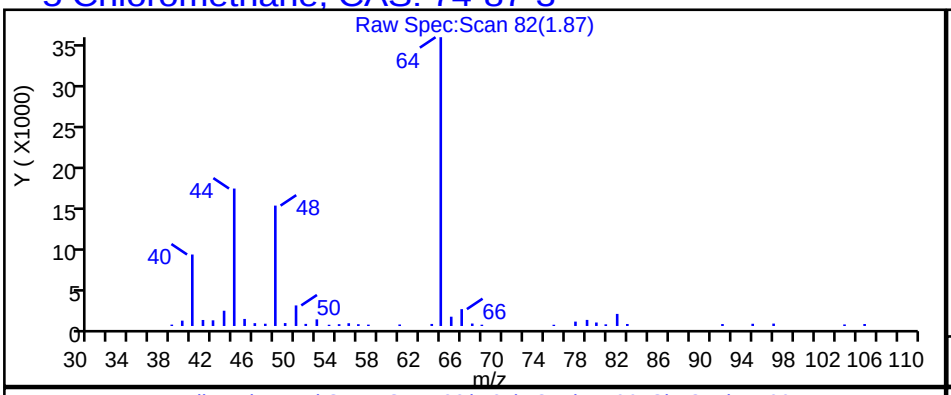
Report Date: 17-Mar-2022 19:30:27 Chrom Revision: 2.3 16-Feb-2022 17:52:00

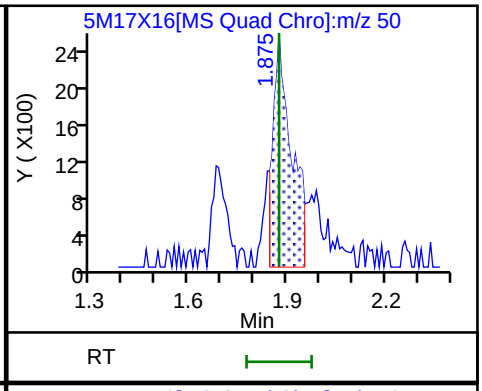
Eurofins Lancaster Laboratories Env, LLC

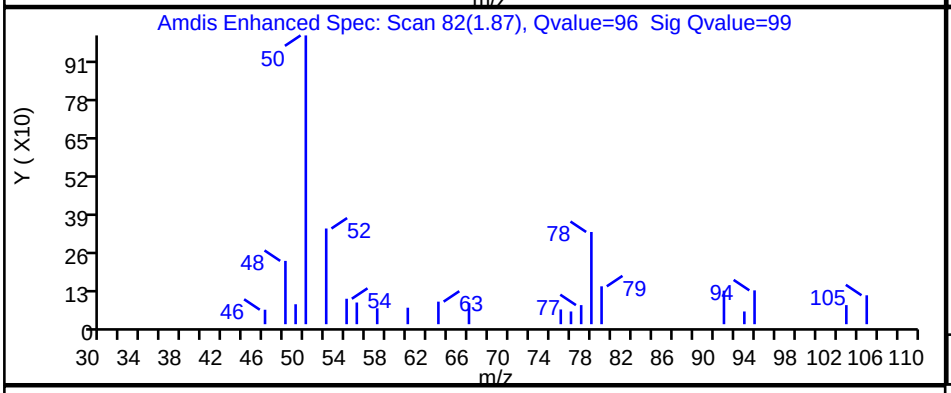
Data File: \\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D

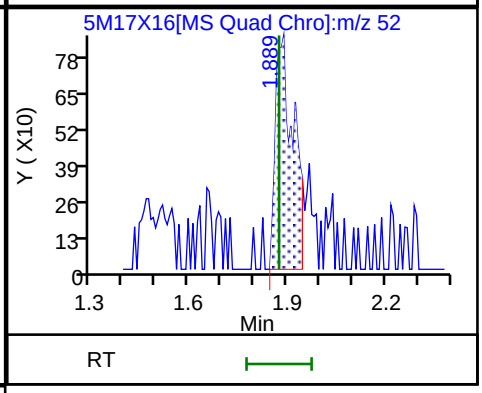
Injection Date:	17-Mar-2022 17:38:19	Instrument ID:	HP22820		
Lims ID:	410-76254-A-1	Lab Sample ID:	410-76254-1		
Client ID:	961				
Operator ID:	rrm00219	ALS Bottle#:	0	Worklist Smp#:	16
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	AirMS_TO15_HP22820	Limit Group:	MSV - TO15		
Column:	DB-624 30m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

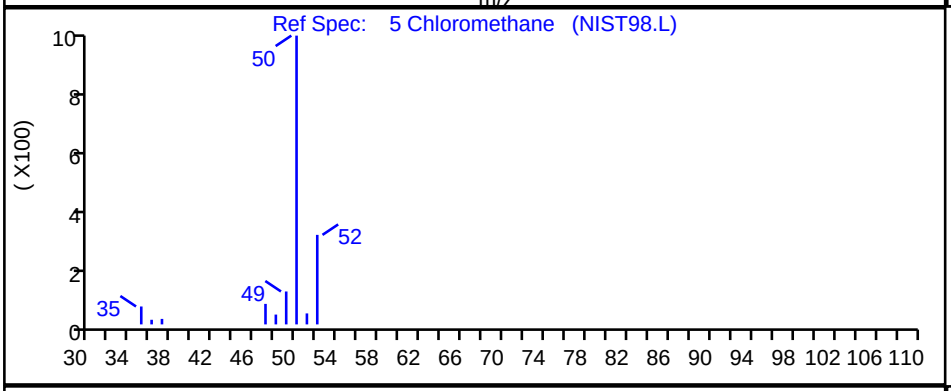
5 Chloromethane, CAS: 74-87-3

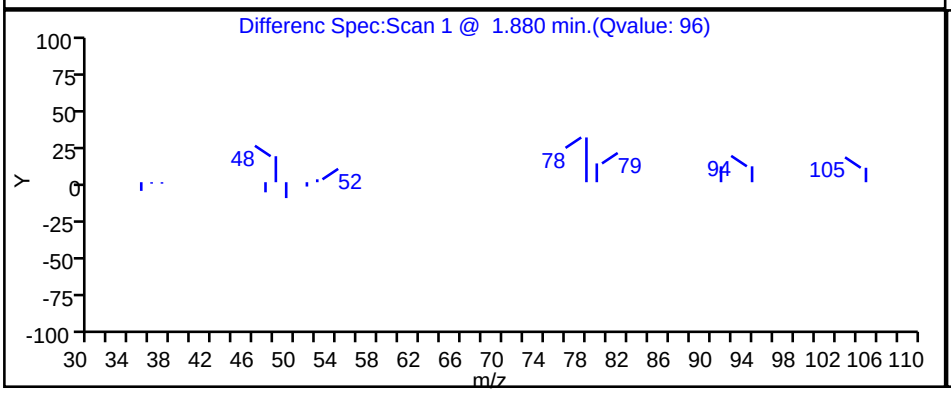


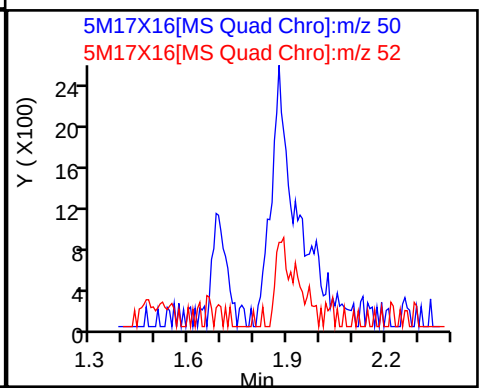












Report Date: 17-Mar-2022 19:30:27 Chrom Revision: 2.3 16-Feb-2022 17:52:00

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

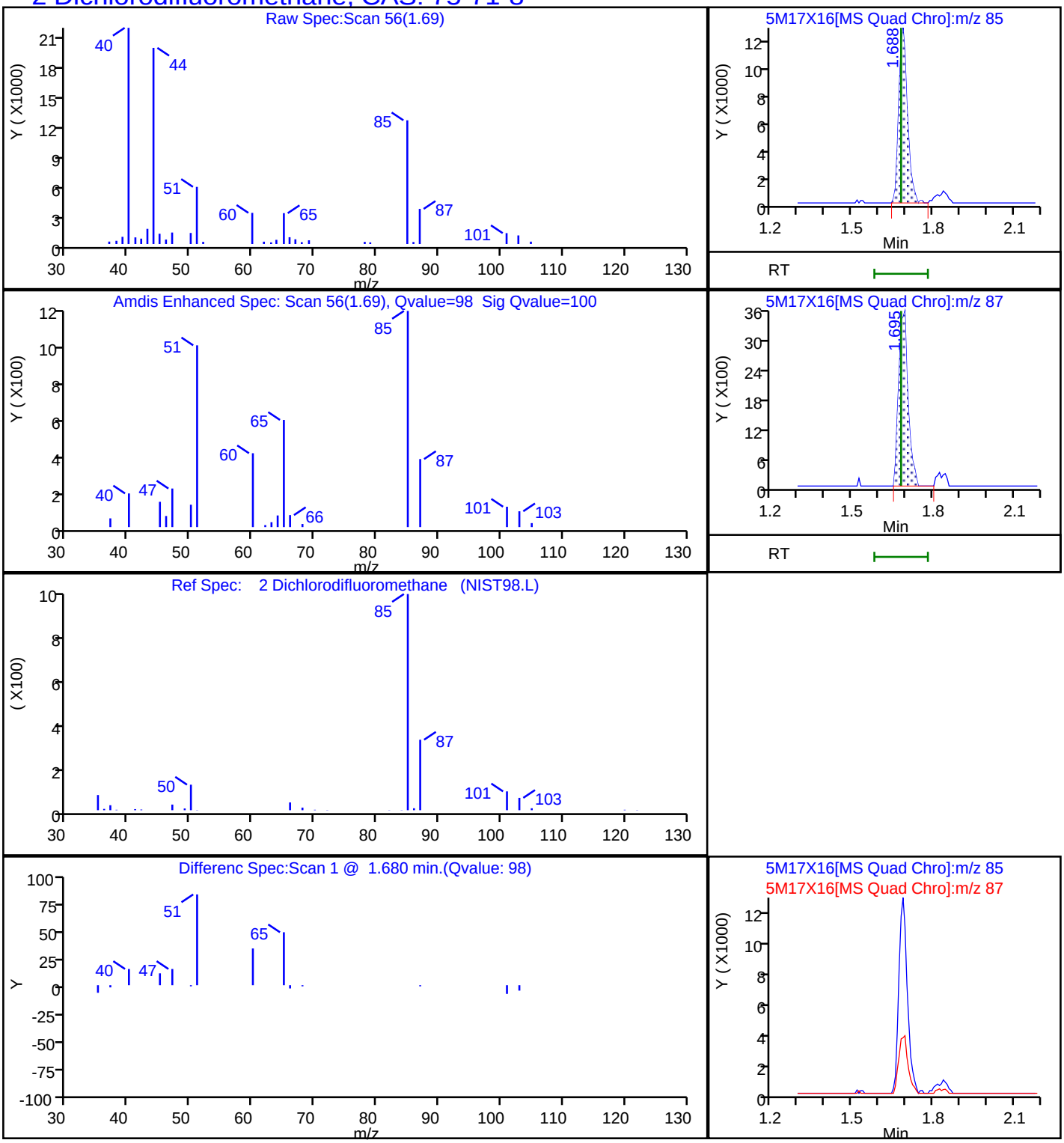
Operator ID: rrm00219 ALS Bottle#: 0 Worklist Smp#: 16

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



Report Date: 17-Mar-2022 19:30:27 Chrom Revision: 2.3 16-Feb-2022 17:52:00

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

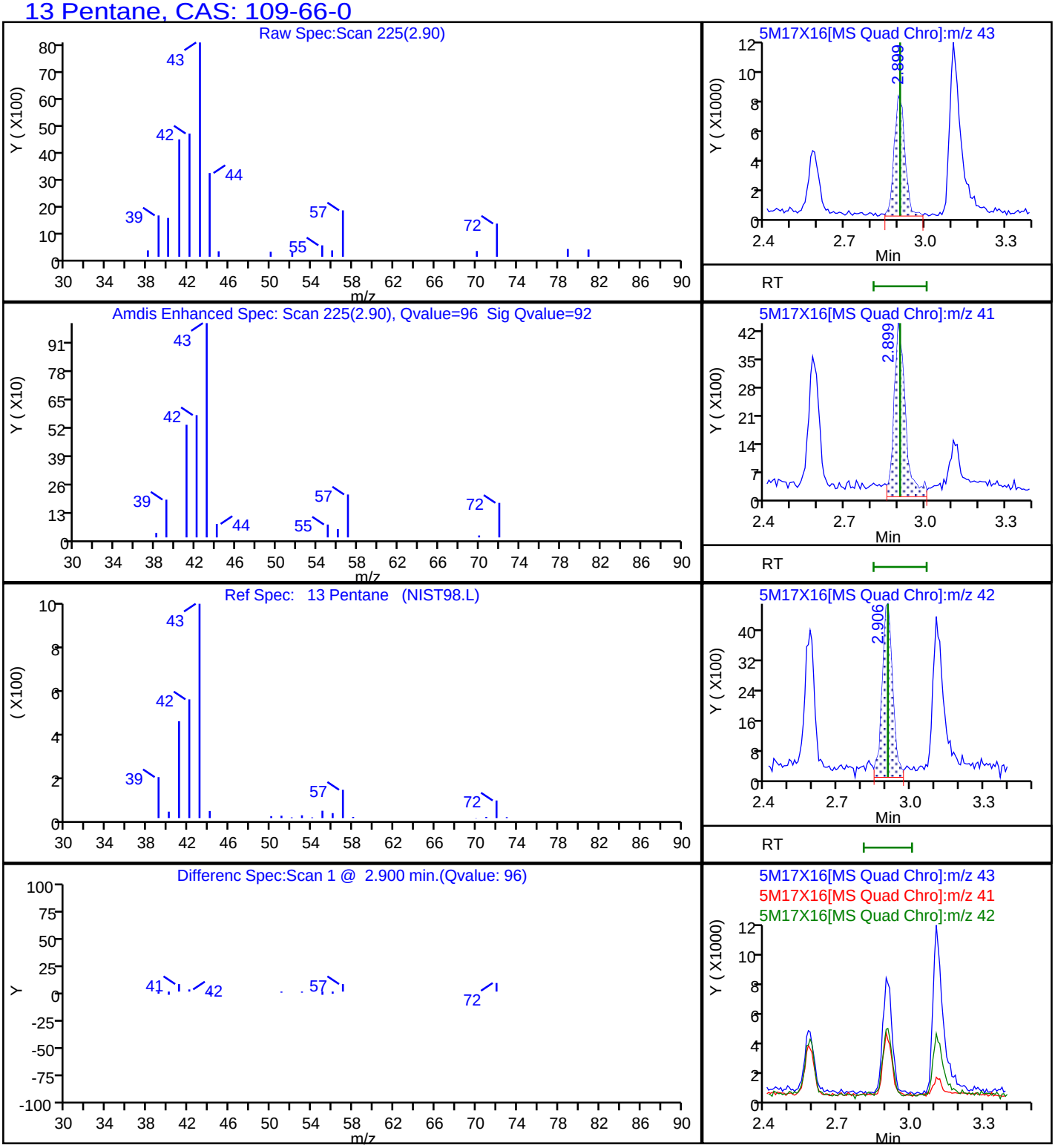
Operator ID: rrm00219 ALS Bottle#: 0 Worklist Smp#: 16

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

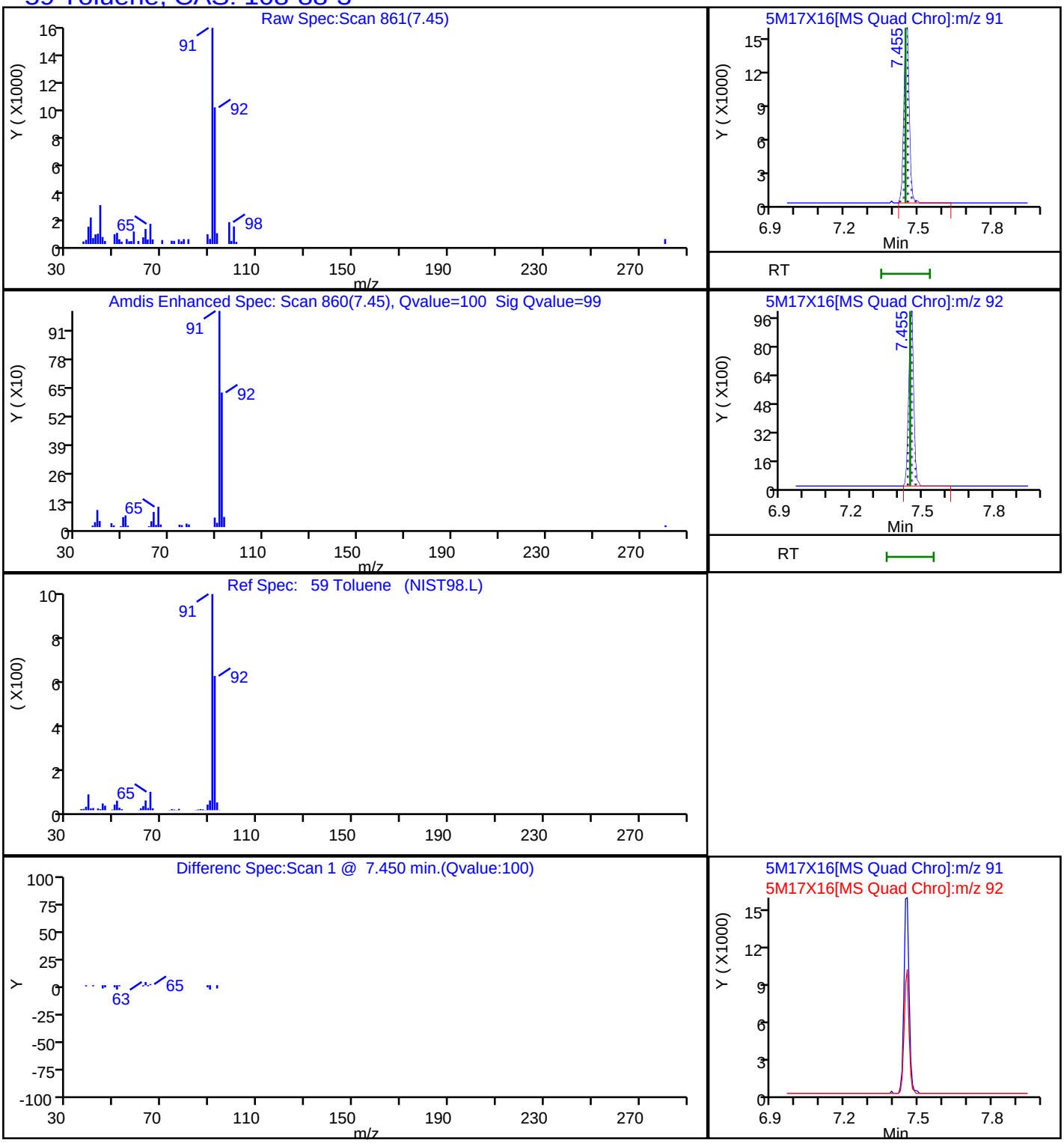
13 Pentane, CAS: 109-66-0



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



Report Date: 17-Mar-2022 19:30:27 Chrom Revision: 2.3 16-Feb-2022 17:52:00

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

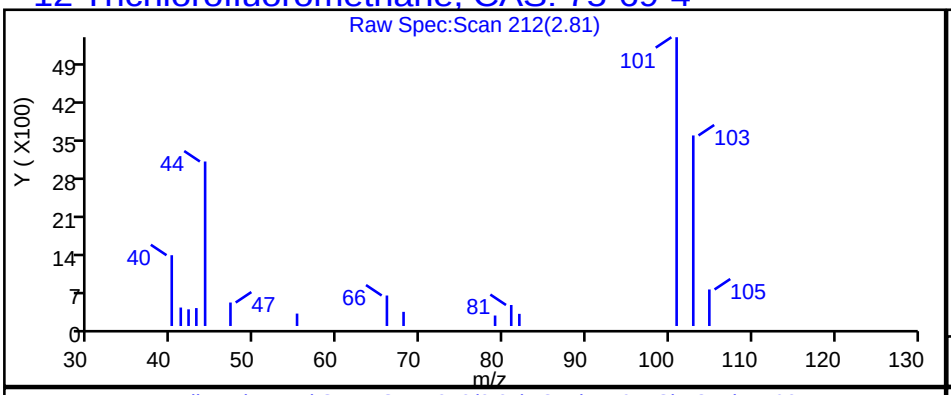
Operator ID: rrm00219 ALS Bottle#: 0 Worklist Smp#: 16

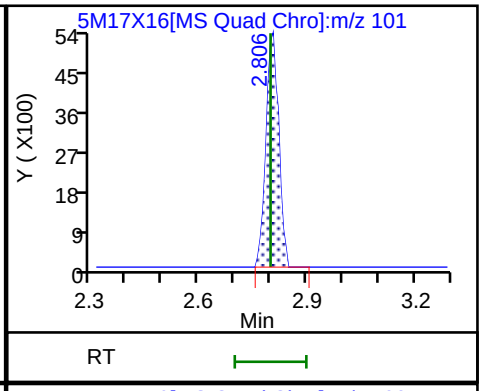
Purge Vol: 200.000 mL Dil. Factor: 1.0000

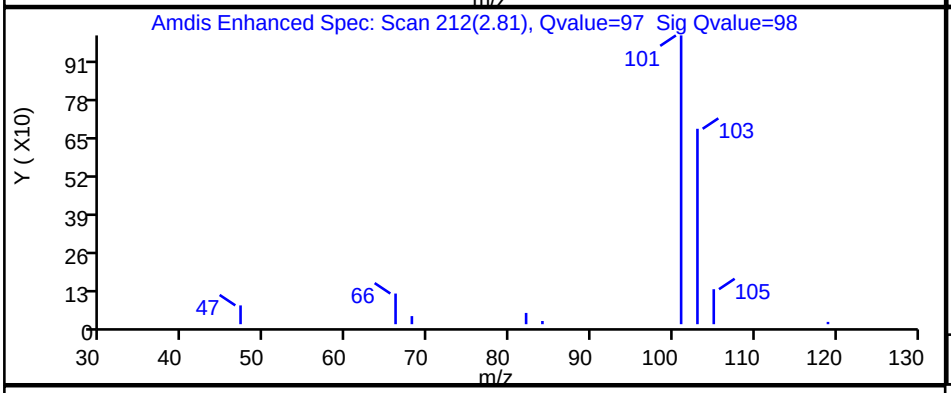
Method: AirMS_TO15_HP22820 Limit Group: MSV - TO15

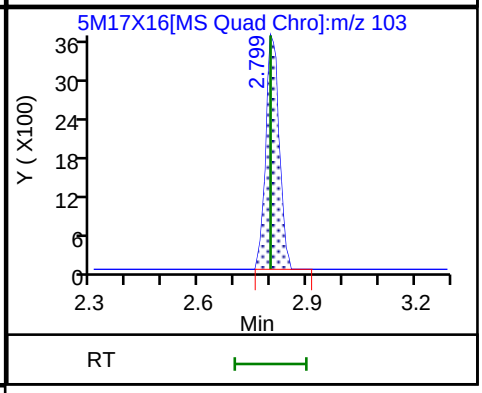
Column: DB-624 30m .25mm (0.25 mm) Detector MS Quad

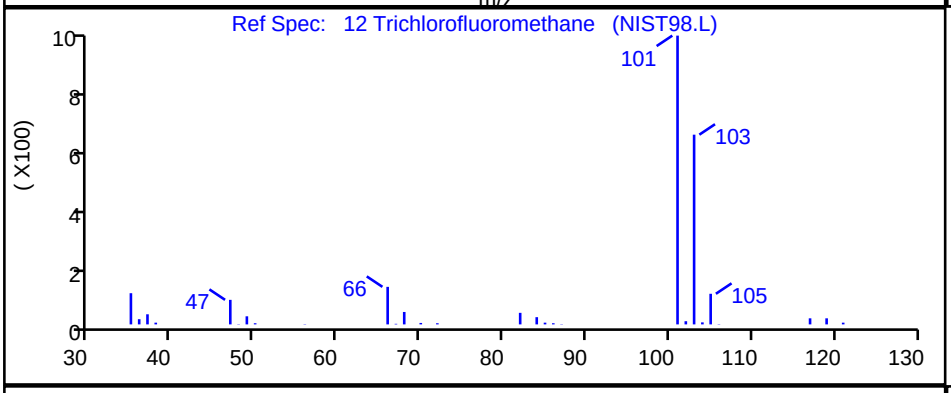
12 Trichlorofluoromethane, CAS: 75-69-4

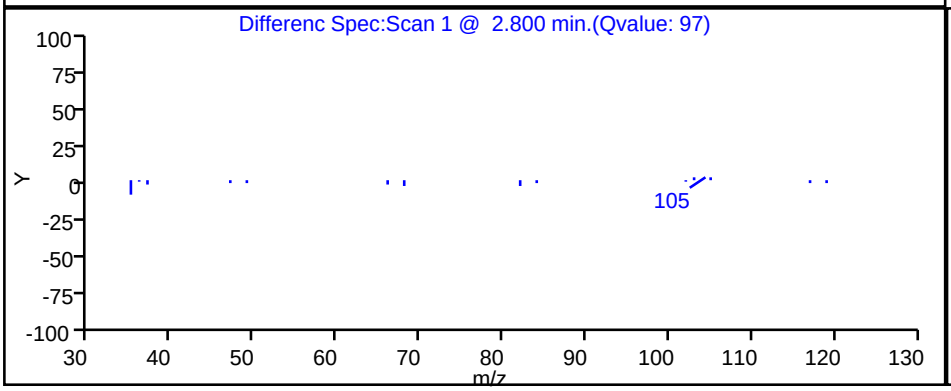


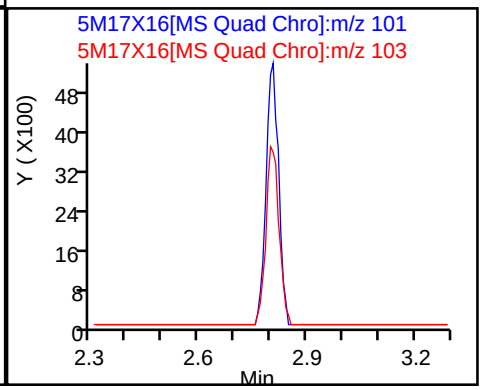












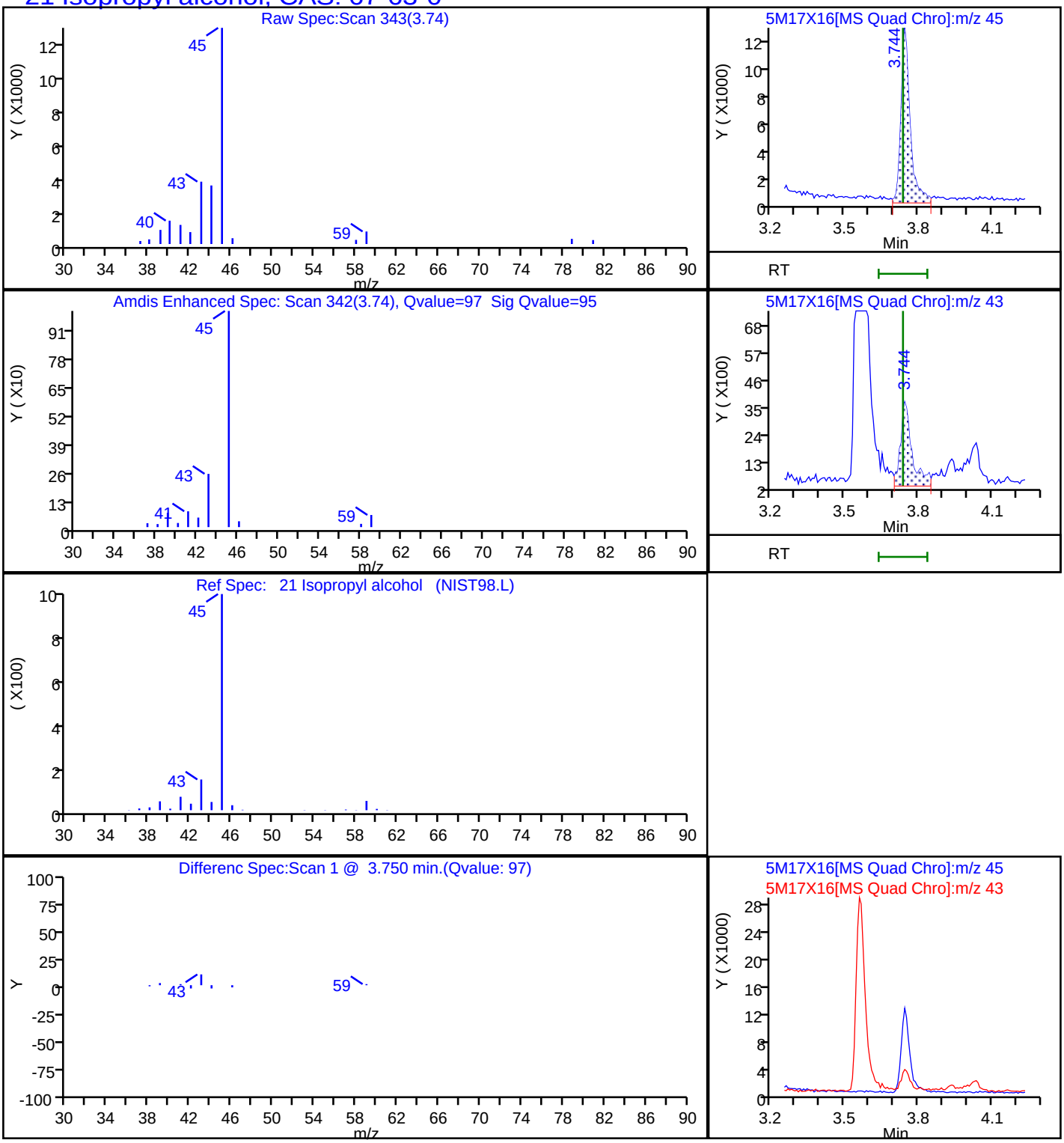
Report Date: 17-Mar-2022 19:30:27 Chrom Revision: 2.3 16-Feb-2022 17:52:00

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

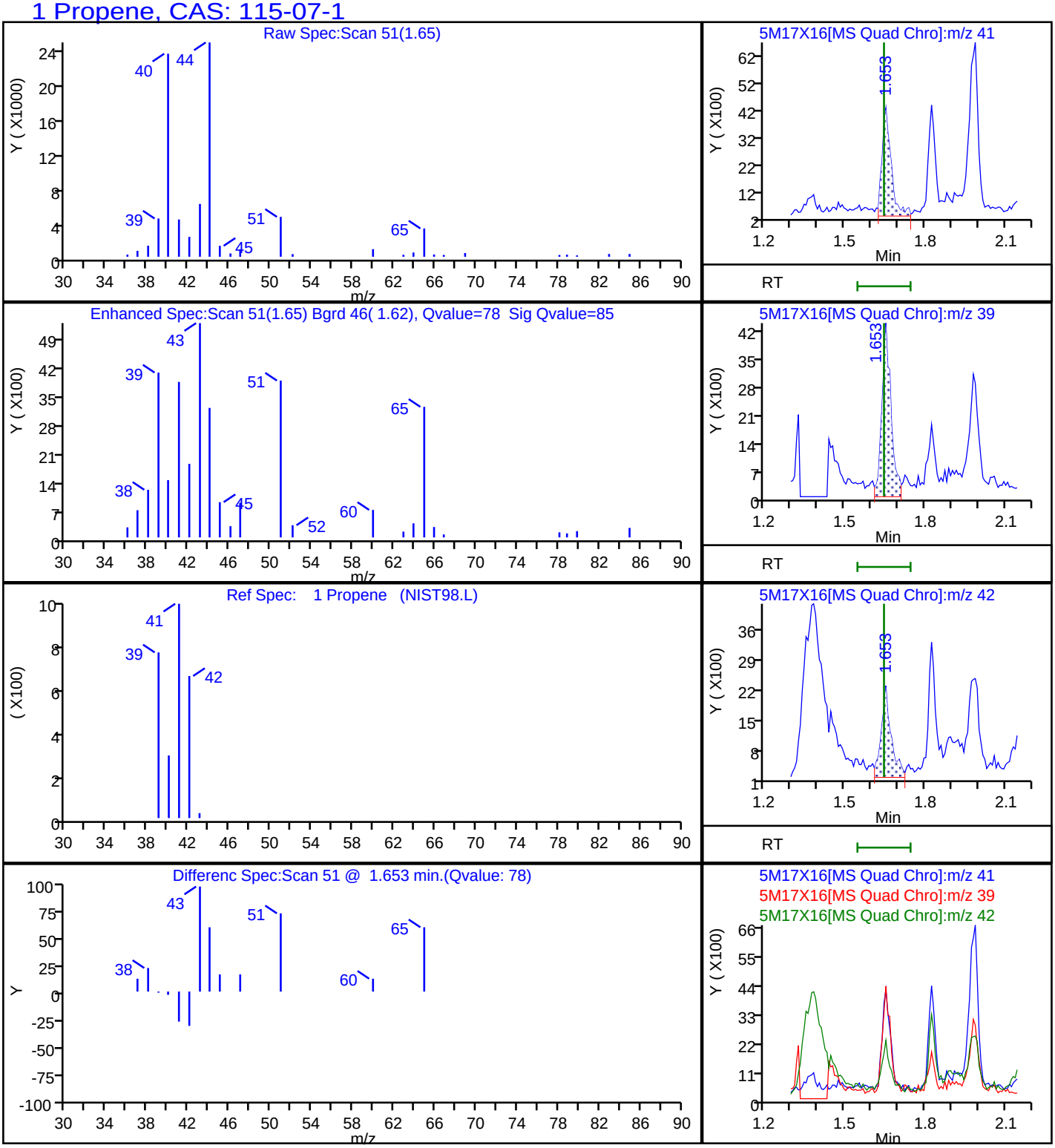


Report Date: 17-Mar-2022 19:30:27 Chrom Revision: 2.3 16-Feb-2022 17:52:00

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



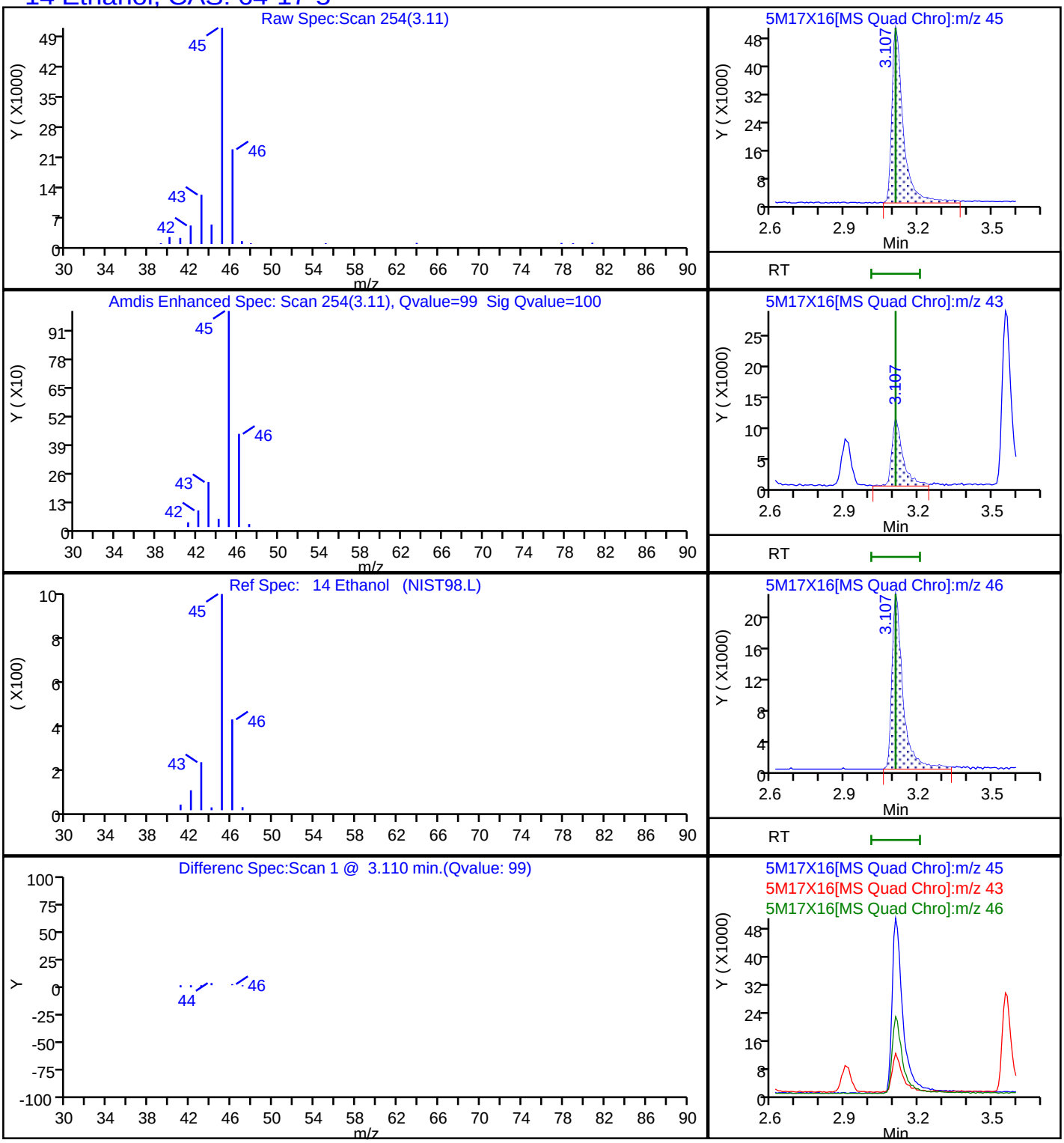
Report Date: 17-Mar-2022 19:30:27 Chrom Revision: 2.3 16-Feb-2022 17:52:00

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



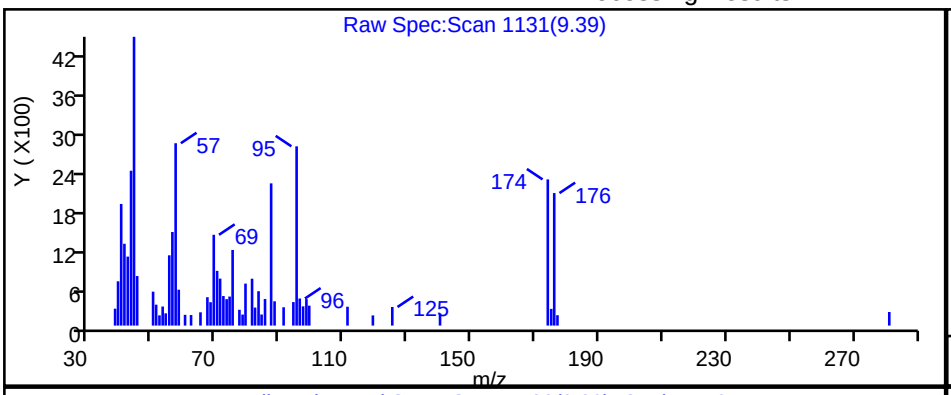
User Disabled Compound Report

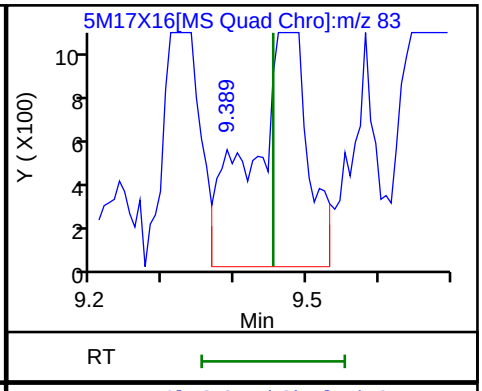
Eurofins Lancaster Laboratories Env, LLC

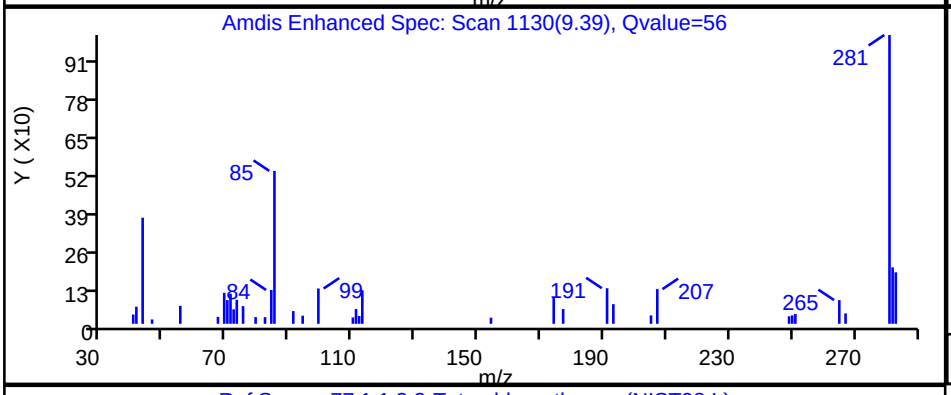
Data File:	\\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D				
Injection Date:	17-Mar-2022 17:38:19	Instrument ID:	HP22820		
Lims ID:	410-76254-A-1	Lab Sample ID:	410-76254-1		
Client ID:	961				
Operator ID:	rrm00219	ALS Bottle#:	0	Worklist Smp#:	16
Purge Vol:	200.000 mL	Dil. Factor: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

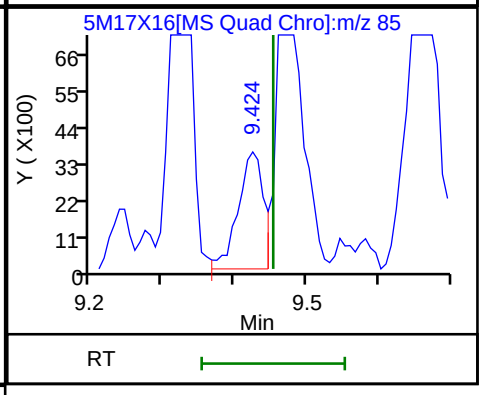
77 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

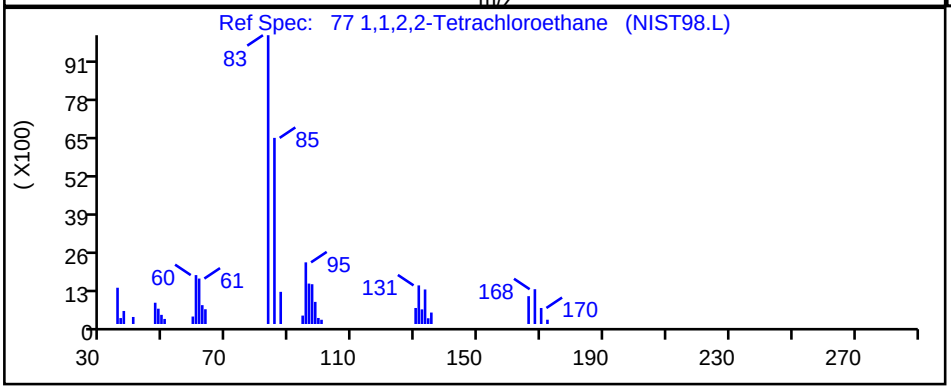
Processing Results











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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

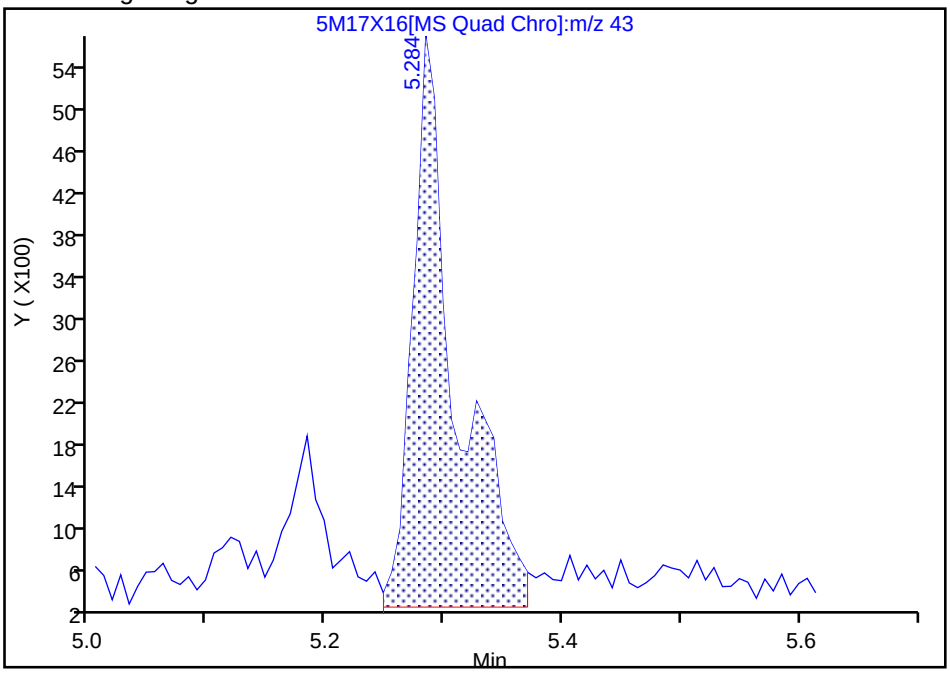
Data File:	\\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D				
Injection Date:	17-Mar-2022 17:38:19	Instrument ID:	HP22820		
Lims ID:	410-76254-A-1	Lab Sample ID:	410-76254-1		
Client ID:	961				
Operator ID:	rrm00219	ALS Bottle#:	0	Worklist Smp#:	16
Purge Vol:	200.000 mL	Dil. Factor:	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

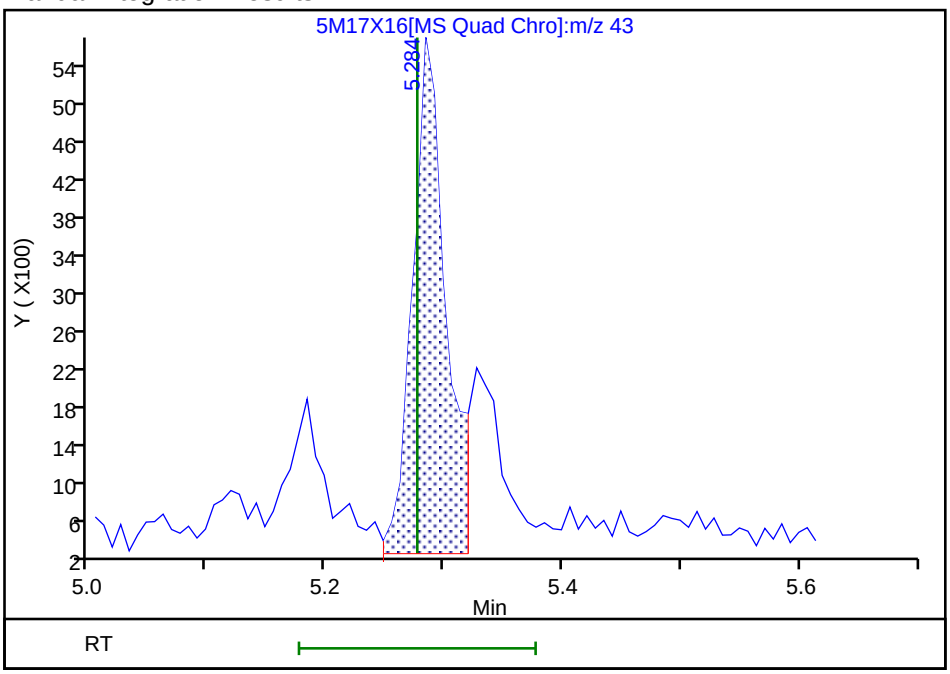
Processing Integration Results

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



Manual Integration Results

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



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

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

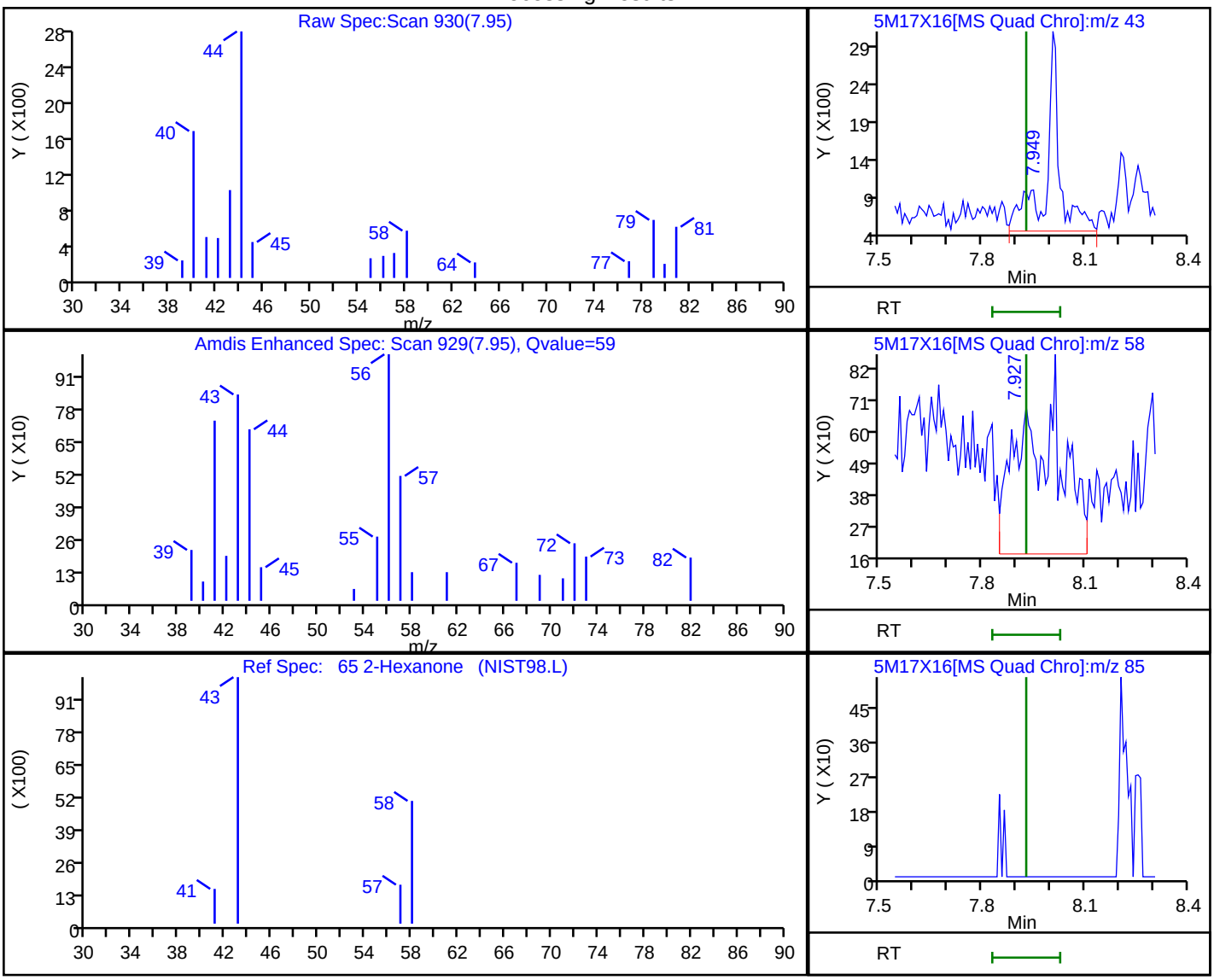
User Disabled Compound Report

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

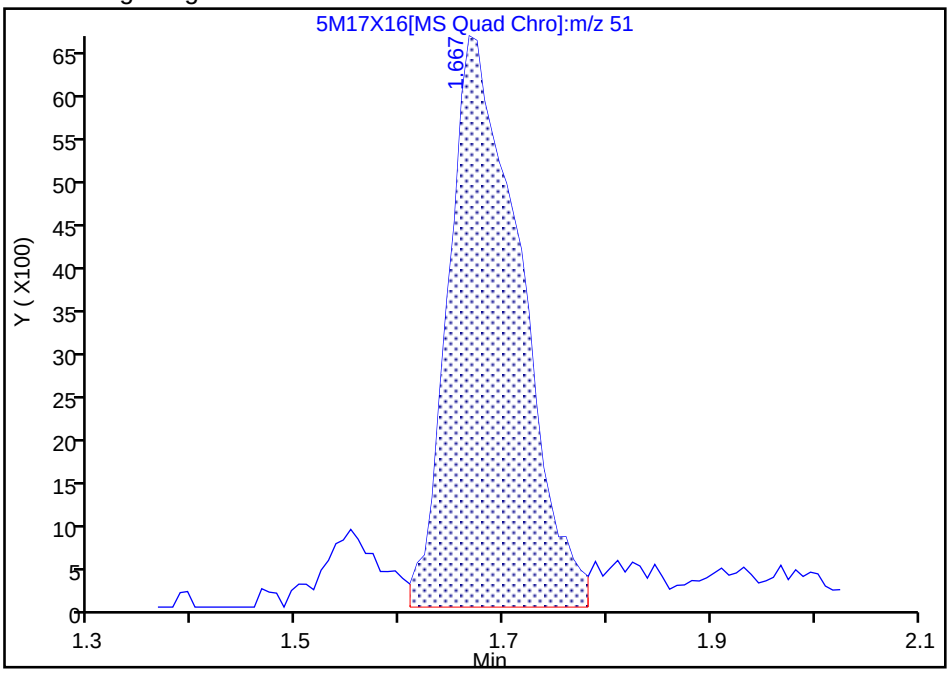
Data File:	\\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D				
Injection Date:	17-Mar-2022 17:38:19	Instrument ID:	HP22820		
Lims ID:	410-76254-A-1	Lab Sample ID:	410-76254-1		
Client ID:	961				
Operator ID:	rrm00219	ALS Bottle#:	0	Worklist Smp#:	16
Purge Vol:	200.000 mL	Dil. Factor:	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

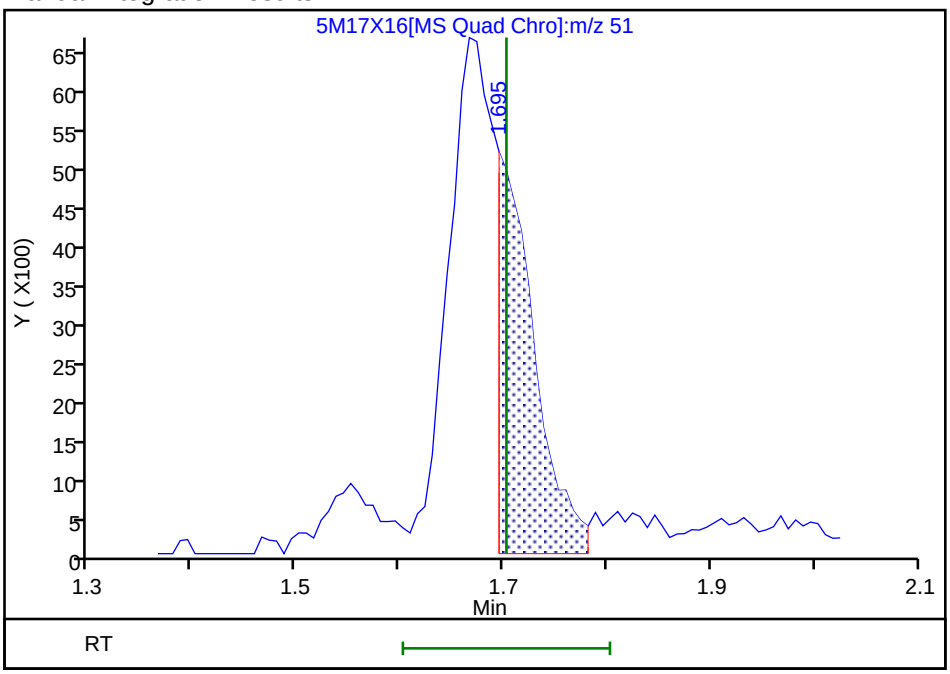
Processing Integration Results

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



Manual Integration Results

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



Reviewer: proctore, 17-Mar-2022 19:28:54
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

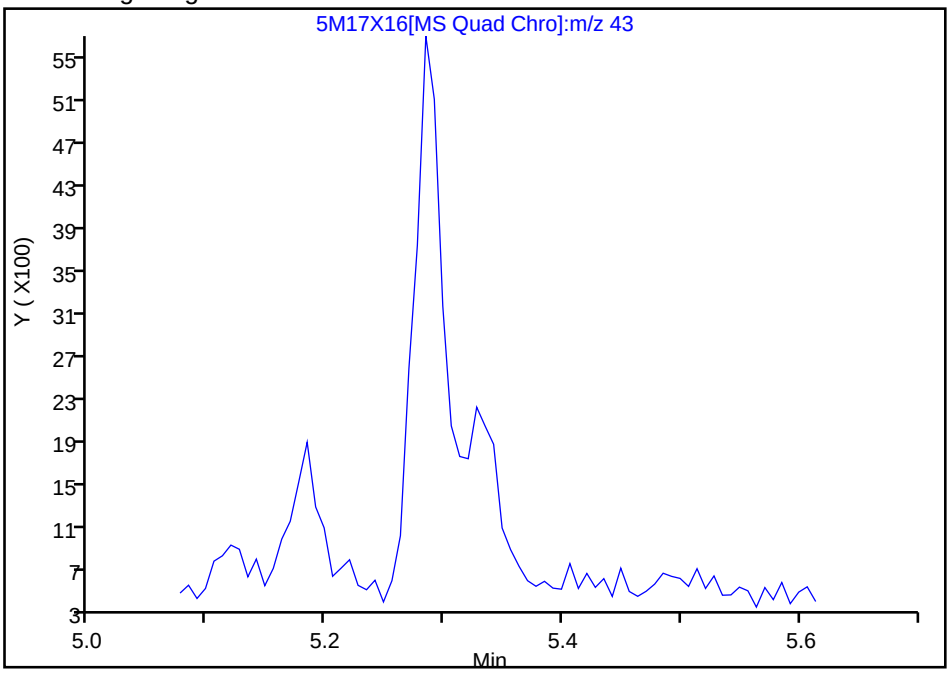
Data File:	\\chromfs\Lancaster\ChromData\HP22820\20220317-52711.b\5M17X16.D				
Injection Date:	17-Mar-2022 17:38:19	Instrument ID:	HP22820		
Lims ID:	410-76254-A-1	Lab Sample ID:	410-76254-1		
Client ID:	961				
Operator ID:	rrm00219	ALS Bottle#:	0	Worklist Smp#:	16
Purge Vol:	200.000 mL	Dil. Factor:	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

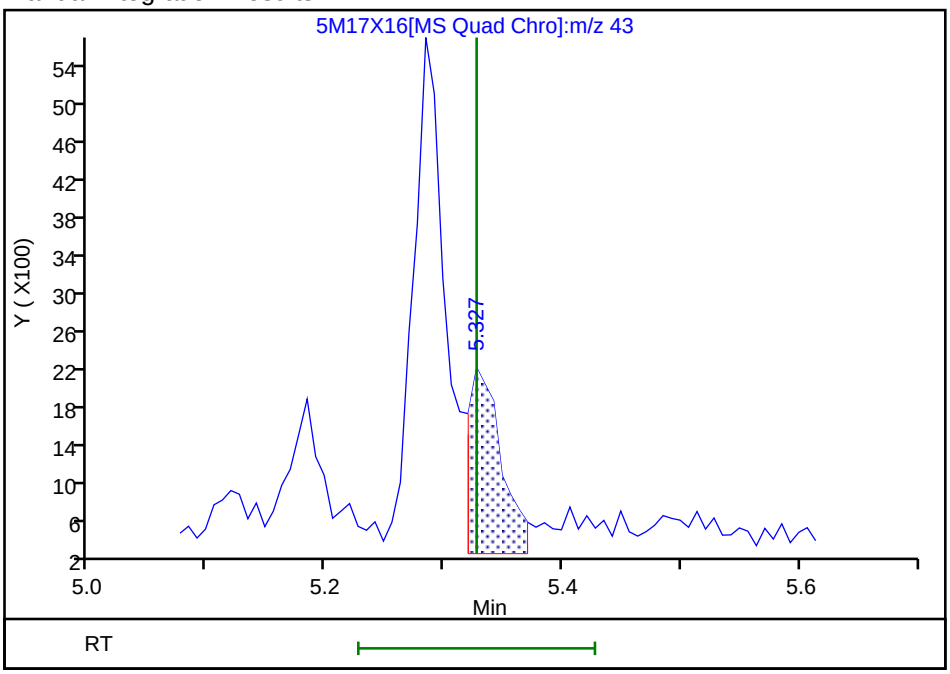
Processing Integration Results

Not Detected
Expected RT: 5.33



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

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

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. 413/525-2332

NYDEC_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	

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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

Naphthalene
22E0860-01[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

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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

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag/Qual**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
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

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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

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag/Qual**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Hexane	ND	8.0		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	V-05	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 Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
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-05
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-05
Propene	ND	0.80									
Styrene	ND	0.020									

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag/Qual
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										
Surrogate: 4-Bromofluorobenzene (1)	*6.94*				*8.00*		*86.7*		*70-130*			
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			L-01, V-36
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			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

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

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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	

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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 (#)
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 1	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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
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
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	06/30/2022
CT	Connecticut Department of Publilc 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

22E0 860

Pace Analytical®

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CHAIN OF CUSTODY RECORD (AIR)

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: Parsons
Address: 301 Plainfield RD Syracuse NY 13212
Phone: 315-715-2793
Project Name: Former Canada Dry #704250 (Coinmach)
Project Location: 7 Badger Ave, Endicott, NY
Project Number: 1102699/05/267
Project Manager: Robert Sichler RS.chler@GESonline.com
Pace Quote Name/Number:
Invoice Recipient:
Sampled By: Peter Lyon

Turnaround Time Required (TAT)
7-Day ☐ 10-Day ☐
Due Date:

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To:
Fax To #:

ANALYSIS REQUESTED

TO-15

" Hg

Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume							Summa Can ID	Flow Controller ID
Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	m³/min L/min	Code	☑ Liters ☐ m³				Initial Pressure	Final Pressure	Lab Receipt Pressure		
	SVESVSTEMAMBF050222	5/4/22 1500	5/5/22 1550	50		SG	6	1			-30		-8.6	1092	316 29M

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

Comments: Send LAB Report to JThomas@gesonline and GESInbox@gesonline.com

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

Matrix Codes:
SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other_____

Relinquished by: (signature)	Date/Time:
Peter Lyon	5/11/2022 1900
Received by: (signature) IR M PACE	Date/Time:
Face Vestibule	5/11/22 1900
Relinquished by: (signature)	Date/Time:
IR M PACE	5/12/22 1700
Received by: (signature)	Date/Time:
	5/13
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA MCP
RCP
Other

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ Other

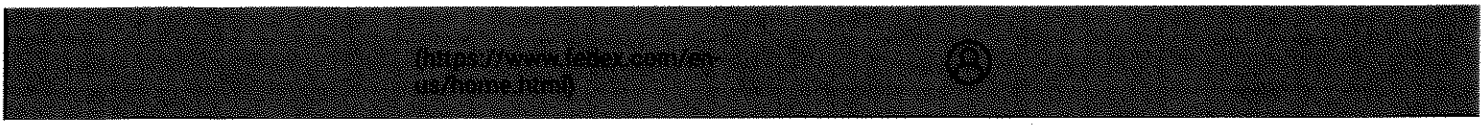
Pace Analytical®
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents



FedEx® Tracking

776846374707

ADD NICKNAME

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

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

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 Parsons

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 Pertinent Information?	Client	T	Analysis	T	Sampler Name	T	
	Project	T	ID's	T	Collection Dates/Times	T	
Are Sample Labels filled out and legible?	T						
Are there Rushes?	I=		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	1	6L	1	1 hr	Nut/Ferrule		IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/TO-11s					Tedlar			

Can #'s					Reg #'s				
1092					4549				
Unused Media					**Pufs/TO-17's**				

Comments: