June 20, 2023

Stora Enso C/O
John T. Kolaga, Esq.
Rupp Pfalzgraf, LLC
1600 Liberty Building
Buffalo, New York 14202

RE: PERIODIC REVIEW REPORT – June 2023
Vails Gate Manufacturing, LLC
Vails Gate, New York, NYSDEC Site No. 336065

Dear Mr. Kolaga:

In response to the New York State Department of Environmental Conservation ("NYSDEC") letter dated June 16, 2023, Leader Consulting Services, Inc. ("Leader") is pleased to provide Rupp Pfalzgraf, LLC, on behalf of Stora Enso, with this Site Management Plan ("SMP") Periodic Review Report summarizing the Remediation and Sampling Activities at the former Vails Gate Manufacturing ("VGM") faiility at 1073 Route 94 in Vails Gate, New York (hereafter referred to as "the Site") through May 2023. The Site is currently identified as the Vails Gate Business Center ("VGBC").

1.0 BACKGROUND

Leader was retained to implement the NYSDEC-approved Remedial Action Work Plan ("RAWP") that was developed for Area of Concern 6 ("AOC 6") at the Site. As identified in the approved RAWP, In-situ bioremediation was the selected remedial alternative identified in the NYSDEC-approved Corrective Measure Study ("CMS").

The Site-specific Standards, Criteria and Guidance ("SCGs") applicable to the RAWP were developed to meet the Remedial Action Objectives ("RAOs") of the CMS. An "unrestricted use remedy" has been established for the Site, which is based on the regulatory standard values for Class GA groundwater identified in 6 NYCRR Part 703.5. The RAWP was developed to address the SCGs and RAOs for the Site. The RAWP has been implemented in accordance with NYSDEC Department of Environmental Remediation ("DER") Guidance Document DER-10, *Technical Guidance for Site Investigation and Remediation*.

The In-Situ Bioremediation program identified in the RAWP was based on the March 2012 Phase II RCRA Facility Investigation ("RFI") and the 2013 CMS. Quarterly sampling and laboratory analyses of groundwater samples from four (4) groundwater monitoring wells (MW-14, MW-5A/AR, MW-16 and MW-CHA-RFI-7) was required per the RAWP.

A Site Management Plan ("SMP") was approved by NYSDEC after the final Quarterly Sampling event was completed. This SMP required the following to be completed during the 2020/2021 heating season: 1) Evaluation and repair (if needed) of existing Sub Slab Depressurization System ("SSDS") in Space 15; 2) Indoor Air Sampling and Testing in the Tesla Space (formerly Solar City); and 3) Groundwater sampling and testing of MW-5A/AR and MW-14.

A subsequent September 2021 Remedial Monitoring/Closure Assessment Work Plan was prepared by Leader and approved by NYSDEC. This Plan involved: 1) groundwater monitoring well assessment, sampling and testing; 2) SSDS air sampling and testing; and 3) assessment of SSDS pressures including deactivation/reactivation. This program was completed in the Spring of 2023.

2.0 SCOPE-OF-WORK

The scope of work for this Periodic Review Report was based on DER-10 and is to summarize the status of Remedial Actions accomplished through May 2023 and the results of the Remedial Monitoring/Closure Assessment Work Plan involving the activities conducted in the Spring of 2023.

3.0 PROGRESS THROUGH APRIL 2023

Groundwater sampling was conducted at the Site from June 2011 through February 2023. The sampling events were designed to evaluate the success of the Bioremediation Activities. The Post–Remediation sampling and analysis included the typical parameters of volatile organic compounds ("VOCs"), sulfate, total organic carbon ("TOC"), and dissolved iron ("DI") and the field parameters of dissolved oxygen ("DO"), pH, oxidation reduction potential ("redox"), temperature and turbidity. Groundwater sample locations at MW-CHA-RFI-7 meet the Class GA groundwater standards as of the August 2017 sampling event and were not sampled during subsequent sampling events.

For the purpose of assessing the continued viability of the bioremediation medium, periodic sampling of the groundwater was conducted. Laboratory data were reviewed to evaluate analyte concentrations from groundwater samples from three (3) of the on-Site monitoring wells. The results were compared to previous data generated during RAWP implementation (i.e, bioremediation sampling and analysis) and the SCGs.

The February 2023 sampling event involved the collection of groundwater samples from monitoring wells MW-5A/AR, MW-14 and MW-16. Each of the three (3) samples were analyzed by Pace Laboratories for Target Compound List ("TCL") VOCs and 1,4 Dioxane. The laboratory report is included in Attachment A. MW-5A/AR and MW-14 were in satisfactory operating condition; however, MW-14 is in a depressed area of the parking lot; however, appears to be functioning satisfactorily. The concrete floor above the area where bio-remediation material had been injected was in good condition.

Indoor Air Sampling is conducted periodically to assess the adequacy of the vapor mitigation system. Leader sampled the Indoor Air in February 2023 after the Sub Slab Depressurization System ("SDSS") had been off for over ten (10) months. Air sample results were below the NYSDOH 2003 Indoor Air Study of VOCs in Air of Oil Fueled Homes Guidelines for the contaminants potentially related to this Remedial Action. The laboratory results are included in Attachment B.

Engineering Controls include the SSDS which was installed in Space 15 in February 2010. The vapor mitigation system was inspected by Alpine Environmental Services, Inc. in June 2011, April 2012, February 2018, March 2020, January 2021, March 2022, March 2023 and April 2023. The March and April 2023 vapor mitigation system inspections assessed the operating conditions and

involved maintenance and repair of the system. The SSDS pressure readings from April 2023 are included in Attachment C.

During the March 2023 inspection, Alpine observed that the vacuum fan wasn't operating and rescheduled inspection and fan replacement for April 2023. Alpine replaced the fan with a new Radonaway GX5 and then started the system, followed by collection of pressure readings.

Institutional Controls ("IC") were previously implemented to prevent future exposure to the remaining contamination and limit the development of the Site.

4.0 REMEDIAL ACTION OBJECTIVES

The RAOs for the Site are listed in the CMS and RAWP dated February and July 2014, respectively. They identify the Site specific Standards, Criteria and Guidance ("SCGs") applicable to the Site and have been selected to meet the overall RAOs of the CMS. An unrestricted use remedy has been established for the Site, which is based on the regulatory standard values for Class GA groundwater identified in 6 NYCRR Part 703.5. This detailed In-situ bioremediation RAWP was designed to address the SCGs and the RAOs for the Site.

4.1 Groundwater - RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles from contaminated groundwater.

The groundwater is not used as a public drinking water supply or used as process water within the facility. Therefore, the above RAOs have been met.

4.2 Groundwater - RAOs for Environmental Protection

- Restore ground water aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Prevent the discharge of contaminants to surface water.
- Remove the source of ground or surface water contamination.

The Site is in the post-bioremediation phase. There is no release of groundwater into the surface waters.

4.3 Soil - RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

A portion of the oil/water separator and 500-gallon overflow tank was removed along with the excavation of the surrounding contaminated soils. The impact to the groundwater is being bio remediated and monitored.

4.4 Soil - RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.
- Prevent impacts to biota from ingestion/direct contact with soil causing toxicity or impacts from bioaccumulation through the terrestrial food chain.
- The area where the remediation activities occurred is covered in asphalt or concrete. There is no direct contact with or migration from the former remediation area.

4.5 Soil Vapor RAOs

The RAOs established for sub-slab and indoor air samples collected within the Main Building at the Site are based on the decision matrices that are presented in the New York State Department of Health ("NYSDOH") October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York, and screening levels specified in the 2001 USEPA Indoor Air Building Assessment and Survey Evaluation ("BASE") Database, 90th Percentile of Indoor Air Results. In general, the RAO for Public Health Protection is to mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a Site. The February 2023 Indoor Sir Sampling results in the Tesla Space indicate that levels are below applicable NYSDOH guidelines for the VOCs related to this Remedial Action. Because the SSDS had been off for over ten (10) months, it is recommended that the system be deactivated and closed.

Based on the activities conducted to date, all of the ROAs have been satisfied.

5.0 2023 GROUNDWATER AND INDOOR AIR SAMPLING RESULTS

This section includes the results related to the Groundwater and Indoor Air Sampling testing activities conducted in the Spring of 2023. All field activities were implemented in general accordance with the NYSDEC approved QAPP and HASP.

5.1 Groundwater Sampling Results

GWM Well MW-5A/AR

Chloroethane concentrations decreased from 35 parts per billion ("ppb") in the September 2022 groundwater sampling event to 7.1 ppb in the February 2023 groundwater sampling event. Chloroethane is above the GA groundwater standard of 5 ppb.

1,4-Dioxane concentrations decreased from 21.9 ppb in the September 2022 groundwater sampling event to 9.6 ppb in the February 2023 groundwater sampling event. 1,4-Dioxane is above the GA groundwater standard of 1ppb.

The no other VOC analytes were detected within the February 2023 sample.

GWM Well MW-14

Chloroethane concentrations increased from non-detected ("ND") in the September 2022 groundwater sampling event to 1.8 ppb in the February 2023 groundwater sampling event. This concentration is below the Class GA groundwater standard of 5 ppb.

1,1-dichloroethane concentrations decreased from 11.8 ppb in the September 2022 groundwater sampling event to 4.6 ppb in the February 2023 groundwater sampling event which is below the Class GA groundwater standard of 5 ppb.

1,1-dichloroethene concentrations decreased from 1.4 ppb in September 2022 groundwater sampling event to 1.0 ppb in the February 2023 groundwater sampling event which is below the Class GA groundwater standard of 5 ppb.

1,4-Dioxane concentrations decreased from 143 ppb in the September 2022 groundwater sampling event to 128 ppb in the February 2023 groundwater sampling event. 1,4-Dioxane is above the GA NYSDEC guidance values groundwater standard of 1 ppb.

No other VOC analytes were detected within the February 2023 samples.

GWM Well MW-16

The 1,1-dichloroethane concentration decreased from 2.6 ppb in September 2022 groundwater sampling event to 1.1 ppb in the February 2023 groundwater sampling event which is below the Class GA groundwater standards of 5 ppb.

1,4-Dioxane concentrations increased from 0.28 ppb in the September 2022 groundwater sampling event to 1.5 ppb in the February 2023 groundwater sampling event. 1,4-Dioxane is above the GA groundwater standard of 1 ppb.

No other VOC analytes were detected within the February 2023 samples.

GWM Well MW-CHA-RFI-7

This monitoring well was not sampled in February 2023 in the groundwater sampling event.

The updated Groundwater Sampling Results spreadsheet and an updated Figure 4 are included in Attachment D (Tables 1a, 1b, 1c, Table 2 Field Data, and Table 3 Reductive Dechlorination).

5.2 Indoor Air Quality Results

An indoor air sample was collected in the Tesla Space near MW-5R/AR. The sample was analyzed by Centek Laboratories (See Attachment C).

The February 2023 indoor air sampling results are summarized below in Table 1. All Levels detected were below applicable guidance values or standards.

Table 1 - February 2023 Indoor Air Quality Sampling Results

VOC	Vails Gate – Space 15 (µg/m^3)		Detection Limits	NYSDOH Indoor Air Guideline (µg/m^3)	NYSDOH 2003 BASE Levels (µg/m^3)
	1-VG-Dup Storage and Shelving Area	1-VG MS/MSD Storage and Shelving Area			
					95th Percentile
1,1-dichlorethene	ND	ND	0.16	NA	0.7
1,1,1-trichloroethane	ND	ND	0.82	NA	6.9
1,2,4-Trimethylbenzene	2.9	3.0	0.74	NA	18
1,3,5-Trimethylbenzene	0.98	0.98	0.74	NA	6.5
2,2,4-trimethylpentane	ND	ND	0.70J	NA	Not Established
4-ethyltoluene	1.3	1.4	0.74	NA	3.6
Acetone	18	14	NA	NA	140
Benzene	1.4	1.3	NA	NA	29
Carbon tetrachloride	0.44	0.44	NA	NA	1.1
Chloromethane	1.3	1.3	NA	NA	5.2
Cyclohexane	1.5	1.3	NA	NA	19
Ethyl acetate	ND	ND	NA	NA	Not established
Ethylbenzene	0.52	0.52	0.65	NA	13
Freon 11	1.3	1.4	NA	NA	Not Established
Freon 12	ND	ND	NA	NA	Not Established
Heptane	0.98	1.1	NA	NA	Not Established
Hexane	0.74	0.74	NA	NA	Not Established
Isopropyl alcohol	5.4	4.5	NA	NA	Not Established
m&p-Xylene	1.4	1.5	NA	NA	21
Methyl Ethyl Ketone	3.7	3.3	NA	NA	39
Methyl Isobutyl Ketone	ND	ND	1.2	NA	5.3
Methylene chloride	0.97	0.94	NA	60	45
o-Xylene	0.56	0.61	NA	NA	13
Styrene	0.85	0.85	NA	NA	2.3
Toluene	2.9	3.1	NA	NA	110

6.0 SUMMARY

The following summarizes the tasks that were completed in the Spring of 2023 and the Status of Remedial Actions:

1) The indoor air was sampled and a visual evaluation of the remedial measures was completed in February 21, 2023;
2) The SSDS system evaluation and repair was conducted on April 19, 2023; and,
3) The groundwater sampling and testing program was conducted on February 15, 2023.

Below is a summary of the contaminants that exceeded the GA groundwater standards in February 2023.

Monitoring Well	Analyte	Result	GA Standard
MW-5A/AR	Chloroethane	7.1 µg/l	5 µg/l
MW-5A/AR	1-4 Dioxane	9.6 µg/l	1 µg/l
MW-14	1-4 Dioxane	128 µg/l	1 µg/l
MW-16	1-4 Dioxane	1.5 µg/l	1 µg/l

The overall VOC levels have remained relatively constant since 2017 with only marginal exceedances. The remedial system is achieving the RAOs.

The Indoor Air Monitoring concentrations in the Tesla Space were below applicable guidance values. The indoor air at the facility satisfies the ROAs. The SSDS is currently in good operating condition; however, it appears unnecessary based on the indoor air quality data. Because the SSDS system had been off for over ten (10) months prior to the February 2023 sampling event, Leader recommended that the system be deactivated and closed. However, NYSDEC's June 16, 2023 letter requires concurrent indoor and subslab air samples to be collected in the winter heating season of 2023/2024 in the Unit 15 US Mint and Unit A1 Solar City/Tesla spaces, along with a completed Building Questionnaire and Product Inventory. An assessment of the need for the SSDS may be considered thereafter.

Additionally, the NYSDEC letter requires continued groundwater sampling and testing for volatile organic compounds, including 1,4-dioxane at MW-5/AR, MW-14 and MW-16. Groundwater and air sampling efforts are tentatively scheduled for February 2024. If you need any additional information, please contact the undersigned at (716) 565-0963.

Very truly yours,
Leader Consulting Services, Inc.

Jeffrey A. Wittlinger, P.E., BCEE
President

Attachment A

Groundwater Analytical Data

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody Is a LEGAL DOCUMENT- Complete all relevant fields

LAB USE ONLY- Affix Workorder Number or MTJL Log-

WO# : 70246603

70246603

USE ONLY

Company: Leader Professional Services	Billing Information:
Address: 2813 Wehrle Drive, Suite 1 Williamsville, NY 14221	
Report To: Brian Demme bdemme@leadercs.com	Email To: bdemme@leadercs.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: Vails Gate Manufacturing	State NY County/City Time Zone Collected EST
Phone: 716-565-0963 Fax:	Site/Facility ID # / Compliance Monitoring? [ ] Yes [ ] No
Collected by (print): Matt Broker (PACE)	Purchase Order # / DW PWS ID #:
Collected by (signature):	Quote # / DW Location Code #:
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive _____ [ ] Hold _____	Turnaround Date Required: _____2 Week_____ RUSH: Same Day Next Day 2 Day 3 Day 4 Day 5 Day (Expedite Charges Apply)
	Immediately Packed on Ice? [ ] Yes [ ] No
	Field Filtered (if applicable): [ ] Yes [ ] No
	Analysis:_____

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix*	Comp/ Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOC 8260 TCL	1,4 Dioxane	Field-pH,Temp,Eh,Spec. Conduct,Turbidity,DO	Lab Sample # / Comments
MW-5A/AR MS/MSD	GW	G	2/15/23	1205				5	X	X	X	
MW-14	GW	G	2/15/23	1235				5	X	X	X	
MW-16	GW	G	2/15/23	1230				5	X	X	X	
Trip Blank	W	G	2/15/23	—				2	X			

3	3									

Analyses

LAB Profile/Line:

LAB Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples received on ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in holding time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:_____			
Sample pH Acceptable	Y	N	NA
pH Strips:_____			
Sulfide Present	Y	N	NA
Lead Acetate Strips:_____			

↓ LAB USE ONLY: ↓

Customer Remarks/ Special Conditions/ Possible Hazards:
NYSDEC DER-10 EQUIS EDD. Category ASP B

6 Hrs

Type of Ice Used: Wet [ ] Blue [ ] Dry [ ] None [ ]

SHORT HOLDS PRESENT (< 72 hours): Y N N/A

Packing Material Used:

LAB Tracking #: 563156247626

Radchem sample(s) screened: (<500 cpm): [ ] Y [ ] N [ ] NA

Samples received via: FEDEX [ ] UPS [ ] Client [ ] Courier [ ] Pace Courier [ ]

MTJL LAB USE ONLY

Table #:_____

ACCT #:_____

Template:_____

Prelogin:_____

PM:_____

PB:_____

LAB Sample Temperature Info:

Temp Blank received: Y N NA

Therm ID#: T4148

Cooler 1 Temp Upon Receipt 3.2 oC

Cooler 1 Therm Corr. Factor .01 oC

Cooler 1 Corrected Temp 3.3 oC

Comments:_____

Trip Blank Received: Y N N/A

HCL MeOH TSP Other

NonConformance(s) YES / NO

Page _____ of _____

Relinquished by/Company : (Signature) PACE	Date/Time: 2/15/23 1600	Received by/Company : (Signature) PeeLT	Date/Time: 2/16/23 1000
Relinquished by/Company : (Signature)	Date/Time:	Received by/Company : (Signature)	Date/Time:
Relinquished by/Company : (Signature)	Date/Time:	Received by/Company : (Signature)	Date/Time:
Relinquished by/Company : (Signature)	Date/Time:	Received by/Company : (Signature)	Date/Time:

PACE Analytical Services, Inc. Ground water Field Log

Client: **Leader Consulting**

Project: **Vails Gate Manufacturing**

Well ID.: **MW-5A/AR MS/MSD**

PACE ID

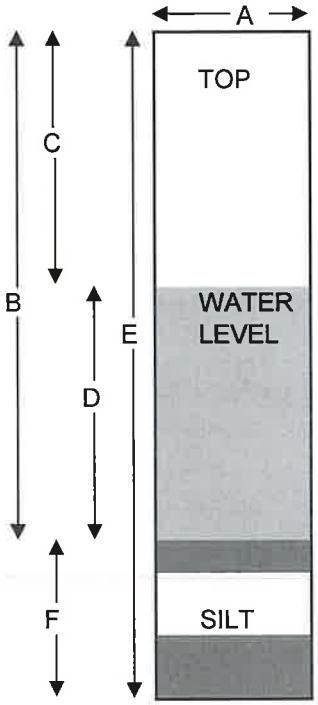
Condition of Well: Metal cap can't close

Locked: Yes

Method of Evacuation: Peristaltic Pump

Lock ID: Flush

Method of Sampling: Peristaltic Pump



A.	Diameter of Well	2.00	inches
B.	Well Depth Measured	6.50	feet
C.	Depth to Water	0.00	feet
D.	Length of Water Column (calculated)	6.50	feet
	Conversion Factor	0.16	------
	Well Volume (calculated)	1.04	gallons
	No. of Volumes to be Evacuated	3	------
	Total Volume to be Evacuated	3.12	gallons
	Actual Volume Evacuated	3.50	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling	
Date	2/15/23	2/15/23	
Time	11:40	12:05	
EH	-104	-87	mV
Temperature	12.1	11.7	C
pH	6.75	6.91	SU
Specific Cond.	1292	1392	uS
Turbidity	153	101	NTU
Dissolved Oxygen	2.72	3.13	
Appearance	cloudy	cloudy	

% Recharge:

Initial Depth to Water 0 feet

Recharge Depth to Water 6.41 feet

2nd water column height ____ %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 12C sunny

Observations: cloudy, was dry around well but had do dig out dirt

Sampler: Matt Broker

Signature:

WO#: 70246603

PM: GFD **Due Date: 03/02/23**

CLIENT: LCS

PACE Analytical Services, Inc. Ground water Field Log

Client: **Leader Consulting**

Project: **Vails Gate Manufacturing**

Well ID.: **MW-14**

PACE ID

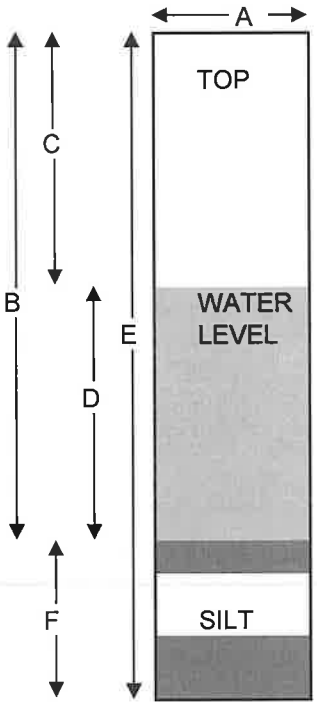
Condition of Well: Good

Locked: Yes

Method of Evacuation: Bailer

Lock ID: Flush

Method of Sampling: Bailer



A.	Diameter of Well	2.00	inches
B.	Well Depth Measured	13.00	feet
C.	Depth to Water	3.61	feet
D.	Length of Water Column (calculated)	9.39	feet
	Conversion Factor	0.16	------
	Well Volume (calculated)	1.50	gallons
	No. of Volumes to be Evacuated	3	------
	Total Volume to be Evacuated	4.50	gallons
	Actual Volume Evacuated	Dry @ 2	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling	
Date	2/15/23	2/15/23	
Time	11:15	12:35	
EH	-100	-45	mV
Temperature	17.2	17.8	C
pH	6.58	6.73	SU
Specific Cond.	1522	11467	uS
Turbidity	40.4	229	NTU
Dissolved Oxygen	2.43	2.73	
Appearance	cloudy	cloudy	

% Recharge:

Initial Depth to Water 3.61 feet

Recharge Depth to Water 7.92 feet

2nd water column height %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 12C sunny

Observations: Well between piller 2 and 3 Oil in well

Well located in Unit 4-5

Oil all over bailer. Changed bailers before sampling

Sampler: Matt Broker

Signature:

PACE Analytical Services, Inc. Ground water Field Log

Client: **Leader Consulting**

Project: **Vails Gate Manufacturing**

Well ID.: **MW-16**

PACE ID

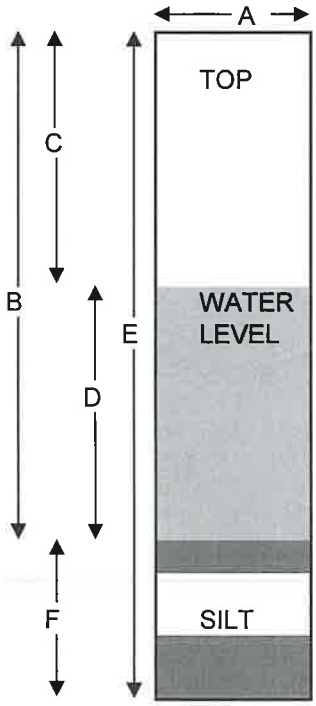
Condition of Well: Good

Locked: Yes

Method of Evacuation: Peristaltic Pump

Lock ID: Flush

Method of Sampling: Peristaltic Pump



A.	Diameter of Well	2.00	inches
B.	Well Depth Measured	13.63	feet
C.	Depth to Water	3.05	feet
D.	Length of Water Column (calculated)	10.58	feet
	Conversion Factor	0.16	------
	Well Volume (calculated)	1.69	gallons
	No. of Volumes to be Evacuated	3	------
	Total Volume to be Evacuated	5.07	gallons
	Actual Volume Evacuated	Dry @ 1.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling	
Date	2/15/23	2/15/23	
Time	12:10	12:30	
EH	31	44	mV
Temperature	14.3	12.4	C
pH	6.94	7.01	SU
Specific Cond.	1645	1629	uS
Turbidity	6.82	96	NTU
Dissolved Oxygen	2.23	2.14	
Appearance	clear	cloudy	

% Recharge:

Initial Depth to Water 3.05 feet

Recharge Depth to Water 13.27 feet

2nd water column height ____ %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 12C sunny

Observations: sample cloudy

Sampler: Matt Broker

Signature:

WO#: 70246603

PM: GFD **Due Date: 03/02/23**

CLIENT: LCS

PACE ANALYICAL INC.

FIELD CALIBRATION SHEET

DATE: 2/15/23 **SITE:** Vails Gate Manufacturing

TECHNICIAN: Matt Broker **WEATHER:** 12C sunny

INSTRUMENT:

PH	Myron Ultrameter II 6PFCe
CONDUCTIVITY	Myron Ultrameter II 6PFCe
TEMPERATURE	Myron Ultrameter II 6PFCe
DISSOLVED OXYGEN	Sper Scientific 850041
TURBIDITY	Hanna HI 98703

INSTRUMENT ANALYTE	STANDARD	INTIAL READING	ADJUSTED READING	TIME	NOTES
Ph	4.00	4.03	4.00	1102	
	7.00	7.03	7.00	1100	
	10.00	9.98	10.00	1104	
Conductivity	1413	1425	1413	1105	
Turbidity	<0.10	0.11	<0.10	1106	
	15	15.4	15	1107	
	100	107	100	1108	
	750	760	750	1109	

NOTES:

Attachment B

Indoor Air Data

Centek/SanAir Laboratories TO-15 Package Review CheckList

Client: **Leader Consulting** **Project:** **Vails Gate** SDG: **C2302047**

		YES	NO	NA
Analytical Results	Present and Complete	/		
TIC's Present	Present and Complete	/		
	Holdin Times Met	/		

Comments:

Chain of Custody	Present and Complete	/		
Surrogate	Present and Complete	/		
	Recoveries within Limits	/		
	Sample(s) reanalyzed			/
Internal Standards	Present and Complete	/		
Recovery	Recoveries within Limits	/		
	Sample(s) reanalyzed			/

Comments:

Lab Control Sample	Present and Complete	/		
(LCS)	Recoveries within Limits	/		
Lab Control Sample Dupe	Present and Complete	/		
(LCSD)	Recoveries within Limits	/		
MS/MSD	Present and Complete	/		
	Recoveries within Limits	/		

Comments:

Sample Raw Data	Present and Complete	/		
	Spectra present	/		

Comments:

Centek/SanAir Laboratories TO-15 Package Review CheckList

Client: Leader Consulting **Project:** Vails Gate **SDG:** C2302047

		YES	NO	NA
Standards Data				
Intial Calibration	Present and Complete	/		
	Calibration meets criteria	/		
Continuing Calibration	Present and Complete	/		
	Calibration meets criteria	/		
Standards Raw Data	Present and Complete	/		

Comments:

Raw Quality Control Data

Tune Criteria Report	Present and Complete	/		
Method Blank Data	MB Results <PQL	/		
	Associated results flagged "B"			/
LCS Sample Data	Present and Complete	/		
LCSD Sample Data	Present and Complete	/		
MS/MSD Sample Data	Present and Complete	/		

Comments:

Logbooks

Injection Log	/		
Standards Log	/		
Can Cleaning Log	/		
Calculation Sheet	/		
IDL's	/		
Canister Order Form	/		
Sample Tracking Form	/		

Additional Comments: SEE CASE NARRATIVE

Section Supervisor: [signature] Date: 3/30/23

QC Supervisor: [signature] Date: 3/30/2023

Centek/SanAir Technologies Laboratory
143 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752
NYSDOH ELAP Certificate No. 11830

Analytical Report

Brian Demme
Leader Consulting Services
305 Spindrift Drive
Williamsville, NY 14221

TEL: 716-565-0963
FAX
RE: Vails Gate - Tesla

Tuesday, February 28, 2023
Order No.: C2302047

Dear Brian Demme:

Centek/SanAir Technologies Laboratory received 3 sample(s) on 2/22/2023 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

Centek/SanAir Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Centek/SanAir Laboratories SOP TS-80

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Sincerely,

William Dobbin
Lead Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek/SanAir as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages. ELAP does not offer certification for the following parameters by this method at present time, they are: 4-ethyltoluene, ethyl acetate, propylene, tetrahydrofuran, 4-PCH, sulfur derived and silcon series compounds.

Centek/SanAir Laboratories - Terms and Conditions

Chain of Custody
Chain of Custody must be completed in full. Lack of any missing information will affect your Turn Around Times (TAT)
Internal Chain of Custody provided when you notify Centek/SanAir Laboratories

Sample Submission
All samples sent to Centek/SanAir Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.Centek/SanAirLabs.us. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media
Samples can be collected in a canister or a Tedlar bag. Depending on your analytical needs, Centek/SanAir Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks
Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment
Centek/SanAir Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any damages of equipment.

Any sampling equipment that exceeds holding times, cancellation of job or non-notice of rescheduling is subject to restocking fees

Turn Around time (TAT)
Centek/SanAir Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting
Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4 weeks from time of analysis (add 10%/sample for Cat B). Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms
Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples
Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:
Same day TAT = 200%
Next business day TAT by Noon = 150%
Next business day TAT by 6:00pm = 100%
Second business day TAT by 6:00pm = 75%
Third business day TAT by 6:00pm = 50%
Fourth business day TAT by 6:00pm = 35%
Fifth business day = Standard

Statement of Confidentiality
Centek/SanAir Laboratories is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability
Centek/SanAir Laboratories warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek/SanAir Laboratories. In no event shall Centek/SanAir Laboratories be liable for direct, indirect, special, punitive, incidental, exemplary

or consequential damages, or any damages whatsoever, even if Centek/SanAir Laboratories has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.

ASP CAT B DELIVERABLE PACKAGE
Table of Contents

Centek/SanAir Technologies Laboratory

Date: *30-Mar-23*

CLIENT: Leader Consulting Services

Project: Vails Gate - Tesla

Lab Order: C2302047

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Centek Laboratories, LLC SOP TS-80
Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

NYSDEC ASP samples:
Canisters should be evacuated to a reading of less than or equal to 50 millitorr prior to shipment to sampling personnel. The vacuum in the canister will be field checked prior to sampling, and must read 28" of Hg (±2", vacuum, absolute) before a sample can be collected. After the sample has been collected, the pressure of the canister will be read and recorded again, and must be 5" of Hg (±1", vacuum, absolute) for the sample to be valid. Once received at the laboratory, the canister vacuum should be confirmed to be 5" of Hg,±1". Please record and report the pressure/vacuum of received canisters on the sample receipt paperwork. A pressure/vacuum reading should also be taken just prior to the withdrawal of sample from the canister, and recorded on the sample preparation log sheet. All regulators are calibrated to meet these requirements before they leave the laboratory. However, due to environmental conditions and use of the equipment Centek can not guarantee that this criteria can always be achieved.

See Corrective Action: [4605] Regulator ID number not listed on COC.

Centek/SanAir Technologies Laboratory

Corrective Action Report

Date Initiated: 22-Feb-23
Initiated By: Robin Gushlaw
Corrective Action Report ID: 4605
Department: LOGIN

Corrective Action Description

CAR Summary: Regulator ID number not listed on COC.

Description of Nonconformance Root/Cause(s): Regulator #1149 was not listed on COC for C2302047, Leader Consulting services.

Description of Corrective Action w/Proposed C.A.: Called Brian Demme requested, regulator number (not listed on coc) 1149.

Performed By: Robin Gushlaw
Completion Date: 23-Feb-23

Client Notification

Client Notification Required: No
Notified By:
Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: Regulator #1149 written and initialed on COC.

Approval and Closure

Technical Director / Deputy Tech. Dir.: William Dobbin
Close Date: 30-Mar-23

QA Officer Approval: Russell Pellegrino
QA Date: 23-Feb-23

Last Updated BY robin
Updated: 30-Mar-2023 9:20 AM
Reported: 30-Mar-2023 9:20 AM

Centek/SanAir Technologies Laboratory - Chain of Custody

Centek Laboratories
SanAir Technologies Laboratory
143 Midler Park Drive
Syracuse, NY 13206
315-431-9730
www.CentekLabs.us
Vapor Intrusion & IAQ

Site Name:	Vails Gate
Project:	Tesla / Former Solar City
PO#:	
Quote #:	Q-3P
Canister Order #:	9673

Detection Limit	Report Level
☐ 5ppbv	☐ Level I
☒ 1ug/M3	☐ Level II
☒ 1ug/M3 + 0.2 NYS	☒ Cat "B" Like
☐	☐

TAT Turnaround Time:	Check One	Rush TAT Surcharge %	Due Date:
5 Business Days	☒	0%	
4 Business Days	☐	25%	
3 Business Days	☐	50%	
2 Business Days	☐	75%	
*Next Day by 5pm	☐	100%	
*Next Day by Noon	☐	150%	
*Same Day	☐	200%	

*For Same and Next Day TAT Please Notify Lab

Company:	LEADER Consulting Services
Report to:	
Address:	305 [illegible] Drive
City, State, Zip	[illegible] NY [illegible]
Email:	[illegible]
Phone:	856 [illegible]

Company:	
Check Here If Same:	☒
Invoice to:	
Address:	
City, State, Zip	
Email:	
Phone:	

Sample ID	Date Sampled	Canister Number	Regulator Number	Analysis Request	Field Vacuum Start / Stop	Labs Vacuum** RecV/Analysis	Comments
Summa #1-Dup	2-21-23	231	11498	TO-15	35 / 4	0 / -1	
Summa (MS-MSD)	2-21-23	1200		TO-15	35 / 4	-2 / -2	
Trip blank		483		TO-15	/	+24 / +24	
					/	/	
					/	/	
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Chain of Custody	Print Name	Signature	Date/Time	
Sampled by:	Brian Denman	Brian M. [illegible]	2/22/23	Courier: CIRCLE ONE FedEx UPS (Pickup/Dropoff)
Relinquished by:	Brian Denman			**For LAB USE ONLY
Received at Lab by:	Robin Gushlaw	[illegible]	2/22/23	Work Order # C2302047

****Chain of Custody must be completed in full. Lack of any missing information will affect your Turn Around Times (TAT)*

*** By signing Centek/SanAir Labs Chain of Custody, you are accepting the Terms and Conditions listed on the reverse side.

Date: *30-Mar-23*

Centek/SanAir Technologies Laboratory

CLIENT: Leader Consulting Services
Project: Vails Gate - Tesla
Lab Order: C2302047

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C2302047-001A	Summa #1 -Dup	211	2/21/2023	2/22/2023
C2302047-002A	Summa (MS-MSD)	1200	2/21/2023	2/22/2023
C2302047-003A	Trip Blank	483	2/21/2023	2/22/2023

Centek/SanAir Technologies Laboratory

Sample Receipt Checklist

Client Name **LEADER CONSULTING** Date and Time Receive **2/22/2023**

Work Order Number **C2302047** Received by: RG

Checklist completed by Robin Rushlow 2/23/23 (Signature / Date) Reviewed by NV (Initials) 2/23/23 (Date)

Matrix: Carrier name: Drop Off

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
COC signed when relinquished and received?	Yes ☑	No ☐	
COC agrees with sample labels?	Yes ☑	No ☐	
COC completely filled out?	Yes ☐	No ☑	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? ____ Checked by ____

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted yes Date contacted: 2/22/23 Person contacted Brian

Contacted by: Robin Regarding: Regulator # missing from COC.

Comments:

Corrective Action Called Brian, add Regulator # to COC. RR.

QC'd By: LD DATE: 3/30/2023

Lab Order: C2302047
Client: Leader Consulting Services
Project: Vails Gate - Tesla

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C2302047-001A	Summa #1 -Dup	2/21/2023	Air	1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			2/25/2023
				1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			2/25/2023
C2302047-002A	Summa (MS-MSD)			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			2/25/2023
				1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			2/25/2023
C2302047-003A	Trip Blank			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			2/24/2023

Centek/SanAir Technologies Laboratory
Air Quality Testing...It's a Gas
143 Midler Park Drive * Syracuse, NY 13206
TEL: 315-431-9730 * FAX: 315-431-9731

CANISTER ORDER

9673

30-Mar-23

SHIPPED TO:

Company: Leader Consulting Services
Contact: Brian Demme
Address: 305 Spindrift Drive
Williamsville, NY 14221
Phone: 716-565-0963
Quote ID: 0
Project:
PO:

Submitted By:
MadeBy: rjp
Ship Date: 2/20/2023
VIA: Pick Up
Due Date: 2/20/2023

Bottle Code	Bottle Type	TEST(s)	QTY
MC1400CC	1.4L Mini-Can	1ug/M3 by Method TO15	3

Can / Reg ID	Description
211	1.4L Mini-Can - 1117 VI
483	1.4L Mini-Can - 1365 VI
1149	Time-Set Reg-2833 IAQ
1200	1.4L Mini-Can - 1355 VI

Comments: 1 1.4L @ 24hr + 1 1.4L dupe (w/T) + TB + Will P/U around 11am WAC 123022 C-D

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT:	Leader Consulting Services	**Client Sample ID:**	Summa #1 -Dup
Lab Order:	C2302047	**Tag Number:**	211
Project:	Vails Gate - Tesla	**Collection Date:**	2/21/2023
Lab ID:	C2302047-001A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	0			"Hg		2/22/2023
Lab Vacuum Out	-30			"Hg		2/22/2023
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	2/25/2023 12:39:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,2,4-Trimethylbenzene	0.58	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,3,5-Trimethylbenzene	0.20	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/25/2023 12:39:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
4-ethyltoluene	0.26	0.15		ppbV	1	2/25/2023 12:39:00 AM
Acetone	7.6	3.0		ppbV	10	2/25/2023 2:59:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Benzene	0.43	0.15		ppbV	1	2/25/2023 12:39:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Bromoform	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Carbon tetrachloride	0.070	0.030		ppbV	1	2/25/2023 12:39:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Chloroform	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Chloromethane	0.61	0.15		ppbV	1	2/25/2023 12:39:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	2/25/2023 12:39:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Cyclohexane	0.43	0.15		ppbV	1	2/25/2023 12:39:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Ethyl acetate	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT: Leader Consulting Services
Lab Order: C2302047
Project: Vails Gate - Tesla
Lab ID: C2302047-001A

Client Sample ID: Summa #1 -Dup
Tag Number: 211
Collection Date: 2/21/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.12	0.15	J	ppbV	1	2/25/2023 12:39:00 AM
Freon 11	0.24	0.15		ppbV	1	2/25/2023 12:39:00 AM
Freon 113	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Freon 114	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Freon 12	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Heptane	0.24	0.15		ppbV	1	2/25/2023 12:39:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Hexane	0.21	0.15		ppbV	1	2/25/2023 12:39:00 AM
Isopropyl alcohol	2.2	1.5		ppbV	10	2/25/2023 2:59:00 PM
m&p-Xylene	0.32	0.30		ppbV	1	2/25/2023 12:39:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/25/2023 12:39:00 AM
Methyl Ethyl Ketone	1.3	0.30		ppbV	1	2/25/2023 12:39:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/25/2023 12:39:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Methylene chloride	0.28	0.15		ppbV	1	2/25/2023 12:39:00 AM
o-Xylene	0.13	0.15	J	ppbV	1	2/25/2023 12:39:00 AM
Propylene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Styrene	0.20	0.15		ppbV	1	2/25/2023 12:39:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Toluene	0.78	0.15		ppbV	1	2/25/2023 12:39:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Trichloroethene	< 0.030	0.030		ppbV	1	2/25/2023 12:39:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/25/2023 12:39:00 AM
Surr: Bromofluorobenzene	93.0	47-124		%REC	1	2/25/2023 12:39:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT: Leader Consulting Services
Lab Order: C2302047
Project: Vails Gate - Tesla
Lab ID: C2302047-001A

Client Sample ID: Summa #1 -Dup
Tag Number: 211
Collection Date: 2/21/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/25/2023 12:39:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/25/2023 12:39:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/25/2023 12:39:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/25/2023 12:39:00 AM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	2/25/2023 12:39:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/25/2023 12:39:00 AM
1,2,4-Trimethylbenzene	2.9	0.74		ug/m3	1	2/25/2023 12:39:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/25/2023 12:39:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/25/2023 12:39:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/25/2023 12:39:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/25/2023 12:39:00 AM
1,3,5-Trimethylbenzene	0.98	0.74		ug/m3	1	2/25/2023 12:39:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/25/2023 12:39:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/25/2023 12:39:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/25/2023 12:39:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/25/2023 12:39:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	2/25/2023 12:39:00 AM
4-ethyltoluene	1.3	0.74		ug/m3	1	2/25/2023 12:39:00 AM
Acetone	18	7.1		ug/m3	10	2/25/2023 2:59:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/25/2023 12:39:00 AM
Benzene	1.4	0.48		ug/m3	1	2/25/2023 12:39:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/25/2023 12:39:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/25/2023 12:39:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	2/25/2023 12:39:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	2/25/2023 12:39:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/25/2023 12:39:00 AM
Carbon tetrachloride	0.44	0.19		ug/m3	1	2/25/2023 12:39:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/25/2023 12:39:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	2/25/2023 12:39:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	2/25/2023 12:39:00 AM
Chloromethane	1.3	0.31		ug/m3	1	2/25/2023 12:39:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	2/25/2023 12:39:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/25/2023 12:39:00 AM
Cyclohexane	1.5	0.52		ug/m3	1	2/25/2023 12:39:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/25/2023 12:39:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	2/25/2023 12:39:00 AM
Ethylbenzene	0.52	0.65	J	ug/m3	1	2/25/2023 12:39:00 AM
Freon 11	1.3	0.84		ug/m3	1	2/25/2023 12:39:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	2/25/2023 12:39:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	2/25/2023 12:39:00 AM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT:	Leader Consulting Services	**Client Sample ID:**	Summa #1 -Dup
Lab Order:	C2302047	**Tag Number:**	211
Project:	Vails Gate - Tesla	**Collection Date:**	2/21/2023
Lab ID:	C2302047-001A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Freon 12	< 0.74	0.74		ug/m3	1	2/25/2023 12:39:00 AM
Heptane	0.98	0.61		ug/m3	1	2/25/2023 12:39:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/25/2023 12:39:00 AM
Hexane	0.74	0.53		ug/m3	1	2/25/2023 12:39:00 AM
Isopropyl alcohol	5.4	3.7		ug/m3	10	2/25/2023 2:59:00 PM
m&p-Xylene	1.4	1.3		ug/m3	1	2/25/2023 12:39:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/25/2023 12:39:00 AM
Methyl Ethyl Ketone	3.7	0.88		ug/m3	1	2/25/2023 12:39:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/25/2023 12:39:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/25/2023 12:39:00 AM
Methylene chloride	0.97	0.52		ug/m3	1	2/25/2023 12:39:00 AM
o-Xylene	0.56	0.65	J	ug/m3	1	2/25/2023 12:39:00 AM
Propylene	< 0.26	0.26		ug/m3	1	2/25/2023 12:39:00 AM
Styrene	0.85	0.64		ug/m3	1	2/25/2023 12:39:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/25/2023 12:39:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/25/2023 12:39:00 AM
Toluene	2.9	0.57		ug/m3	1	2/25/2023 12:39:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/25/2023 12:39:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/25/2023 12:39:00 AM
Trichloroethene	< 0.16	0.16		ug/m3	1	2/25/2023 12:39:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/25/2023 12:39:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/25/2023 12:39:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/25/2023 12:39:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT: Leader Consulting Services
Lab Order: C2302047
Project: Vails Gate - Tesla
Lab ID: C2302047-002A

Client Sample ID: Summa (MS-MSD)
Tag Number: 1200
Collection Date: 2/21/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		2/22/2023
Lab Vacuum Out	-30			"Hg		2/22/2023
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	2/25/2023 1:23:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,2,4-Trimethylbenzene	0.61	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,3,5-Trimethylbenzene	0.20	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/25/2023 1:23:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
4-ethyltoluene	0.28	0.15		ppbV	1	2/25/2023 1:23:00 AM
Acetone	6.1	3.0		ppbV	10	2/25/2023 3:43:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Benzene	0.42	0.15		ppbV	1	2/25/2023 1:23:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Bromoform	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Carbon tetrachloride	0.070	0.030		ppbV	1	2/25/2023 1:23:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Chloroform	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Chloromethane	0.64	0.15		ppbV	1	2/25/2023 1:23:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	2/25/2023 1:23:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Cyclohexane	0.39	0.15		ppbV	1	2/25/2023 1:23:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Ethyl acetate	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT:	Leader Consulting Services	**Client Sample ID:**	Summa (MS-MSD)
Lab Order:	C2302047	**Tag Number:**	1200
Project:	Vails Gate - Tesla	**Collection Date:**	2/21/2023
Lab ID:	C2302047-002A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.12	0.15	J	ppbV	1	2/25/2023 1:23:00 AM
Freon 11	0.25	0.15		ppbV	1	2/25/2023 1:23:00 AM
Freon 113	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Freon 114	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Freon 12	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Heptane	0.26	0.15		ppbV	1	2/25/2023 1:23:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Hexane	0.21	0.15		ppbV	1	2/25/2023 1:23:00 AM
Isopropyl alcohol	1.8	0.15		ppbV	1	2/25/2023 1:23:00 AM
m&p-Xylene	0.34	0.30		ppbV	1	2/25/2023 1:23:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/25/2023 1:23:00 AM
Methyl Ethyl Ketone	1.1	0.30		ppbV	1	2/25/2023 1:23:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/25/2023 1:23:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Methylene chloride	0.27	0.15		ppbV	1	2/25/2023 1:23:00 AM
o-Xylene	0.14	0.15	J	ppbV	1	2/25/2023 1:23:00 AM
Propylene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Styrene	0.20	0.15		ppbV	1	2/25/2023 1:23:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Toluene	0.82	0.15		ppbV	1	2/25/2023 1:23:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Trichloroethene	< 0.030	0.030		ppbV	1	2/25/2023 1:23:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/25/2023 1:23:00 AM
Surr: Bromofluorobenzene	93.0	47-124		%REC	1	2/25/2023 1:23:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT:	Leader Consulting Services	**Client Sample ID:**	Summa (MS-MSD)
Lab Order:	C2302047	**Tag Number:**	1200
Project:	Vails Gate - Tesla	**Collection Date:**	2/21/2023
Lab ID:	C2302047-002A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/25/2023 1:23:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/25/2023 1:23:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/25/2023 1:23:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/25/2023 1:23:00 AM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	2/25/2023 1:23:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/25/2023 1:23:00 AM
1,2,4-Trimethylbenzene	3.0	0.74		ug/m3	1	2/25/2023 1:23:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/25/2023 1:23:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/25/2023 1:23:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/25/2023 1:23:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/25/2023 1:23:00 AM
1,3,5-Trimethylbenzene	0.98	0.74		ug/m3	1	2/25/2023 1:23:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/25/2023 1:23:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/25/2023 1:23:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/25/2023 1:23:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/25/2023 1:23:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	2/25/2023 1:23:00 AM
4-ethyltoluene	1.4	0.74		ug/m3	1	2/25/2023 1:23:00 AM
Acetone	14	7.1		ug/m3	10	2/25/2023 3:43:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/25/2023 1:23:00 AM
Benzene	1.3	0.48		ug/m3	1	2/25/2023 1:23:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/25/2023 1:23:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/25/2023 1:23:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	2/25/2023 1:23:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	2/25/2023 1:23:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/25/2023 1:23:00 AM
Carbon tetrachloride	0.44	0.19		ug/m3	1	2/25/2023 1:23:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/25/2023 1:23:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	2/25/2023 1:23:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	2/25/2023 1:23:00 AM
Chloromethane	1.3	0.31		ug/m3	1	2/25/2023 1:23:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	2/25/2023 1:23:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/25/2023 1:23:00 AM
Cyclohexane	1.3	0.52		ug/m3	1	2/25/2023 1:23:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/25/2023 1:23:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	2/25/2023 1:23:00 AM
Ethylbenzene	0.52	0.65	J	ug/m3	1	2/25/2023 1:23:00 AM
Freon 11	1.4	0.84		ug/m3	1	2/25/2023 1:23:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	2/25/2023 1:23:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	2/25/2023 1:23:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT:	Leader Consulting Services	**Client Sample ID:**	Summa (MS-MSD)
Lab Order:	C2302047	**Tag Number:**	1200
Project:	Vails Gate - Tesla	**Collection Date:**	2/21/2023
Lab ID:	C2302047-002A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Freon 12	< 0.74	0.74		ug/m3	1	2/25/2023 1:23:00 AM
Heptane	1.1	0.61		ug/m3	1	2/25/2023 1:23:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/25/2023 1:23:00 AM
Hexane	0.74	0.53		ug/m3	1	2/25/2023 1:23:00 AM
Isopropyl alcohol	4.5	0.37		ug/m3	1	2/25/2023 1:23:00 AM
m&p-Xylene	1.5	1.3		ug/m3	1	2/25/2023 1:23:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/25/2023 1:23:00 AM
Methyl Ethyl Ketone	3.3	0.88		ug/m3	1	2/25/2023 1:23:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/25/2023 1:23:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/25/2023 1:23:00 AM
Methylene chloride	0.94	0.52		ug/m3	1	2/25/2023 1:23:00 AM
o-Xylene	0.61	0.65	J	ug/m3	1	2/25/2023 1:23:00 AM
Propylene	< 0.26	0.26		ug/m3	1	2/25/2023 1:23:00 AM
Styrene	0.85	0.64		ug/m3	1	2/25/2023 1:23:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/25/2023 1:23:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/25/2023 1:23:00 AM
Toluene	3.1	0.57		ug/m3	1	2/25/2023 1:23:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/25/2023 1:23:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/25/2023 1:23:00 AM
Trichloroethene	< 0.16	0.16		ug/m3	1	2/25/2023 1:23:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/25/2023 1:23:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/25/2023 1:23:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/25/2023 1:23:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT: Leader Consulting Services
Lab Order: C2302047
Project: Vails Gate - Tesla
Lab ID: C2302047-003A

Client Sample ID: Trip Blank
Tag Number: 483
Collection Date: 2/21/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	+24			"Hg		2/22/2023
Lab Vacuum Out	+24			"Hg		2/22/2023
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	2/24/2023 11:55:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/24/2023 11:55:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Acetone	0.12	0.30	J	ppbV	1	2/24/2023 11:55:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Benzene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Carbon tetrachloride	< 0.030	0.030		ppbV	1	2/24/2023 11:55:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Chloroform	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	2/24/2023 11:55:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT: Leader Consulting Services
Lab Order: C2302047
Project: Vails Gate - Tesla
Lab ID: C2302047-003A

Client Sample ID: Trip Blank
Tag Number: 483
Collection Date: 2/21/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Freon 11	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Freon 113	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Freon 12	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Heptane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Hexane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	2/24/2023 11:55:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/24/2023 11:55:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	2/24/2023 11:55:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/24/2023 11:55:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Styrene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Toluene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	2/24/2023 11:55:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/24/2023 11:55:00 PM
Surr: Bromofluorobenzene	75.0	47-124		%REC	1	2/24/2023 11:55:00 PM

Qualifiers:

*	Results reported are not blank corrected
DL	Detection Limit
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
E	Estimated Value above quantitation range
J	Analyte detected below quantitation limit
ND	Not Detected at the Limit of Detection
SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT: Leader Consulting Services
Lab Order: C2302047
Project: Vails Gate - Tesla
Lab ID: C2302047-003A

Client Sample ID: Trip Blank
Tag Number: 483
Collection Date: 2/21/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/24/2023 11:55:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/24/2023 11:55:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/24/2023 11:55:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/24/2023 11:55:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	2/24/2023 11:55:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/24/2023 11:55:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/24/2023 11:55:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/24/2023 11:55:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2023 11:55:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/24/2023 11:55:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/24/2023 11:55:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/24/2023 11:55:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/24/2023 11:55:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2023 11:55:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2023 11:55:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/24/2023 11:55:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	2/24/2023 11:55:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/24/2023 11:55:00 PM
Acetone	0.28	0.71	J	ug/m3	1	2/24/2023 11:55:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/24/2023 11:55:00 PM
Benzene	< 0.48	0.48		ug/m3	1	2/24/2023 11:55:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/24/2023 11:55:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/24/2023 11:55:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/24/2023 11:55:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/24/2023 11:55:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/24/2023 11:55:00 PM
Carbon tetrachloride	< 0.19	0.19		ug/m3	1	2/24/2023 11:55:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/24/2023 11:55:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/24/2023 11:55:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	2/24/2023 11:55:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	2/24/2023 11:55:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	2/24/2023 11:55:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/24/2023 11:55:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	2/24/2023 11:55:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/24/2023 11:55:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	2/24/2023 11:55:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	2/24/2023 11:55:00 PM
Freon 11	< 0.84	0.84		ug/m3	1	2/24/2023 11:55:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	2/24/2023 11:55:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/24/2023 11:55:00 PM

Qualifiers:

- `.` Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT: Leader Consulting Services
Lab Order: C2302047
Project: Vails Gate - Tesla
Lab ID: C2302047-003A

Client Sample ID: Trip Blank
Tag Number: 483
Collection Date: 2/21/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Freon 12	< 0.74	0.74		ug/m3	1	2/24/2023 11:55:00 PM
Heptane	< 0.61	0.61		ug/m3	1	2/24/2023 11:55:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/24/2023 11:55:00 PM
Hexane	< 0.53	0.53		ug/m3	1	2/24/2023 11:55:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	2/24/2023 11:55:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	2/24/2023 11:55:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/24/2023 11:55:00 PM
Methyl Ethyl Ketone	< 0.88	0.88		ug/m3	1	2/24/2023 11:55:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/24/2023 11:55:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/24/2023 11:55:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	2/24/2023 11:55:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	2/24/2023 11:55:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/24/2023 11:55:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/24/2023 11:55:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/24/2023 11:55:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/24/2023 11:55:00 PM
Toluene	< 0.57	0.57		ug/m3	1	2/24/2023 11:55:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/24/2023 11:55:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/24/2023 11:55:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	2/24/2023 11:55:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/24/2023 11:55:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/24/2023 11:55:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/24/2023 11:55:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Centek/SanAir Technologies Laboratory

Date: 23-Mar-23

QC SUMMARY REPORT
SURROGATE RECOVERIES

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla
Test No: TO-15 **Matrix:** A

Sample ID	BR4FBZ
ALCS1UG-022423	104
ALCS1UG-022523	105
ALCS1UGD-022423	103
AMB1UG-022423	82.0
AMB1UG-022523	80.0
C2302047-001A	93.0
C2302047-002A	93.0
C2302047-002A MS	107
C2302047-002A MSD	110
C2302047-003A	75.0

Acronym		Surrogate	QC Limits
BR4FBZ	=	Bromofluorobenzene	47-124

* Surrogate recovery outside acceptance limits

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\data2\AU022402.D
Tune Time : 24 Feb 2023 9:14 am

Daily Calibration File : C:\msdchem\1\data2\AU022402.D

File	Sample	Surrogate Recovery % (BFB)	Internal Standard Responses (IS1) 63299	(IS2) 380547	(IS3) 313937
AU022403.D	ALCS1UG-022423	104	64082	381255	306499
AU022404.D	AMB1UG-022423	82	59155	331717	245093
AU022422.D	C2302047-003A	75	54664	303851	216169
AU022423.D	C2302047-002A	93	61532	331931	261837
AU022424.D	C2302047-001A	93	61681	338112	260262
AU022425.D	C2302047-001A MS	107	64490	360651	298299
AU022426.D	C2302047-001A MSD	110	64945	365660	300494
AU022427.D	ALCS1UGD-022423	103	61494	351305	292575

(fails) - fails 24hr time check * - fails criteria

Created: Thu Mar 23 08:43:44 2023 Instrument 1

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\data2\AU022502.D
Tune Time : 25 Feb 2023 10:44 am

Daily Calibration File : C:\msdchem\1\data2\AU022502.D

File	Sample	Surrogate Recovery % (BFB)	Internal Standard Responses (IS1) 57826	(IS2) 326838	(IS3) 276201
AU022503.D	ALCS1UG-022523	105	57978	324992	273447
AU022504.D	AMB1UG-022523	80	52114	273032	217883
AU022508.D	C2302047-001 10X	86	53202	282214	228712
AU022509.D	C2302047-002 10X	85	52746	271711	214717

(fails) - fails 24hr time check * - fails criteria

Created: Thu Mar 23 08:49:16 2023 Instrument 1

CENTEK LABORATORIES, LLC

Date: *23-Mar-23*

ANALYTICAL QC SUMMARY REPORT

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: **AMB1UG-022423** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **ZZZZZ** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/24/2023** SeqNo: **229636**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.040	0.040									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: AMB1UG-022423	SampType: MBLK	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 20049
Client ID: ZZZZZ	Batch ID: R20049	TestNo: TO-15		Analysis Date: 2/24/2023	SeqNo: 229636

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.030	0.030									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.040	0.040									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: **AMB1UG-022423** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **ZZZZZ** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/24/2023** SeqNo: **229636**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.030	0.030									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

Sample ID: **AMB1UG-022523** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20051**
Client ID: **ZZZZZ** Batch ID: **R20051** TestNo: **TO-15** Analysis Date: **2/25/2023** SeqNo: **229657**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.040	0.040									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: AMB1UG-022523	SampType: MBLK	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 20051
Client ID: ZZZZZ	Batch ID: R20051	TestNo: TO-15		Analysis Date: 2/25/2023	SeqNo: 229657

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.030	0.030									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.040	0.040									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:
- . Results reported are not blank corrected
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- DL Detection Limit
- J Analyte detected below quantitation limit
- S Spike Recovery outside accepted recovery limits
- E Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: AMB1UG-022523	SampType: MBLK	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 20051
Client ID: ZZZZZ	Batch ID: R20051	TestNo: TO-15		Analysis Date: 2/25/2023	SeqNo: 229657

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.030	0.030									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

Qualifiers:

*	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CENTEK LABORATORIES, LLC

Date: *23-Mar-23*

ANALYTICAL QC SUMMARY REPORT

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: **ALCS1UG-022423** SampType: **LCS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **ZZZZZ** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/24/2023** SeqNo: **229637**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9900	0.15	1	0	99.0	63.7	152				
1,1,2,2-Tetrachloroethane	0.9900	0.15	1	0	99.0	62.1	132				
1,1,2-Trichloroethane	0.9800	0.15	1	0	98.0	64.3	132				
1,1-Dichloroethane	0.9800	0.15	1	0	98.0	67.9	123				
1,1-Dichloroethene	1.000	0.040	1	0	100	59.4	122				
1,2,4-Trichlorobenzene	1.090	0.15	1	0	109	55	133				
1,2,4-Trimethylbenzene	1.000	0.15	1	0	100	64.1	128				
1,2-Dibromoethane	1.000	0.15	1	0	100	64.9	134				
1,2-Dichlorobenzene	0.9600	0.15	1	0	96.0	57.8	158				
1,2-Dichloroethane	0.9800	0.15	1	0	98.0	78.8	127				
1,2-Dichloropropane	0.9800	0.15	1	0	98.0	59.9	128				
1,3,5-Trimethylbenzene	1.060	0.15	1	0	106	70	133				
1,3-butadiene	0.9100	0.15	1	0	91.0	71.1	138				
1,3-Dichlorobenzene	1.000	0.15	1	0	100	66.2	137				
1,4-Dichlorobenzene	1.120	0.15	1	0	112	68.2	139				
1,4-Dioxane	0.9400	0.30	1	0	94.0	67.7	119				
2,2,4-trimethylpentane	0.9900	0.15	1	0	99.0	57	127				
4-ethyltoluene	1.040	0.15	1	0	104	67.9	131				
Acetone	1.120	0.30	1	0	112	47.6	146				
Allyl chloride	1.000	0.15	1	0	100	56.1	116				
Benzene	0.9900	0.15	1	0	99.0	66.2	126				
Benzyl chloride	0.8900	0.15	1	0	89.0	34.9	155				
Bromodichloromethane	1.000	0.15	1	0	100	69.6	133				
Bromoform	1.040	0.15	1	0	104	44.1	152				
Bromomethane	0.9900	0.15	1	0	99.0	64.9	155				

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla **TestCode: 0.20_NYS**

Sample ID: ALCS1UG-022423	SampType: LCS	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 20049
Client ID: ZZZZZ	Batch ID: R20049	TestNo: TO-15		Analysis Date: 2/24/2023	SeqNo: 229637

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9600	0.15	1	0	96.0	64	111				
Carbon tetrachloride	1.020	0.030	1	0	102	41.3	166				
Chlorobenzene	0.9900	0.15	1	0	99.0	66.3	129				
Chloroethane	0.9900	0.15	1	0	99.0	62.7	148				
Chloroform	0.9800	0.15	1	0	98.0	77.1	126				
Chloromethane	1.010	0.15	1	0	101	74.9	146				
cis-1,2-Dichloroethene	1.080	0.040	1	0	108	57.7	131				
cis-1,3-Dichloropropene	1.000	0.15	1	0	100	57.4	136				
Cyclohexane	0.9600	0.15	1	0	96.0	59.8	124				
Dibromochloromethane	1.060	0.15	1	0	106	58.8	139				
Ethyl acetate	0.9800	0.15	1	0	98.0	56.5	129				
Ethylbenzene	1.020	0.15	1	0	102	66.8	125				
Freon 11	1.050	0.15	1	0	105	75.5	146				
Freon 113	0.9700	0.15	1	0	97.0	71.5	128				
Freon 114	0.9600	0.15	1	0	96.0	71.3	151				
Freon 12	0.9600	0.15	1	0	96.0	73	141				
Heptane	0.9900	0.15	1	0	99.0	64.1	120				
Hexachloro-1,3-butadiene	0.9600	0.15	1	0	96.0	67.9	135				
Hexane	0.9800	0.15	1	0	98.0	57.3	125				
Isopropyl alcohol	1.120	0.15	1	0	112	60.3	139				
m&p-Xylene	2.060	0.30	2	0	103	71	127				
Methyl Butyl Ketone	0.9900	0.30	1	0	99.0	42.5	149				
Methyl Ethyl Ketone	0.9900	0.30	1	0	99.0	56	131				
Methyl Isobutyl Ketone	1.000	0.30	1	0	100	50.8	133				
Methyl tert-butyl ether	0.9800	0.15	1	0	98.0	61.2	130				
Methylene chloride	0.9400	0.15	1	0	94.0	58.2	125				
o-Xylene	1.020	0.15	1	0	102	72.4	129				
Propylene	1.010	0.15	1	0	101	45.7	127				
Styrene	1.040	0.15	1	0	104	67	132				
Tetrachloroethylene	0.9900	0.15	1	0	99.0	65.6	133				
Tetrahydrofuran	0.9900	0.15	1	0	99.0	54.4	120				

Qualifiers:
. Results reported are not blank corrected
DL Detection Limit
E Estimated Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: ALCS1UG-022423	SampType: LCS	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 20049
Client ID: ZZZZZ	Batch ID: R20049	TestNo: TO-15		Analysis Date: 2/24/2023	SeqNo: 229637

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.000	0.15	1	0	100	62.5	128				
trans-1,2-Dichloroethene	1.000	0.15	1	0	100	63.6	126				
trans-1,3-Dichloropropene	0.9900	0.15	1	0	99.0	41	155				
Trichloroethene	0.8600	0.030	1	0	86.0	54.2	140				
Vinyl acetate	1.010	0.15	1	0	101	49	122				
Vinyl Bromide	1.150	0.15	1	0	115	65.8	150				
Vinyl chloride	1.010	0.040	1	0	101	62.7	146				

Sample ID: ALCS1UG-022523	SampType: LCS	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 20051
Client ID: ZZZZZ	Batch ID: R20051	TestNo: TO-15		Analysis Date: 2/25/2023	SeqNo: 229658

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.090	0.15	1	0	109	63.7	152				
1,1,2,2-Tetrachloroethane	1.080	0.15	1	0	108	62.1	132				
1,1,2-Trichloroethane	1.100	0.15	1	0	110	64.3	132				
1,1-Dichloroethane	1.050	0.15	1	0	105	67.9	123				
1,1-Dichloroethene	1.090	0.040	1	0	109	59.4	122				
1,2,4-Trichlorobenzene	1.050	0.15	1	0	105	55	133				
1,2,4-Trimethylbenzene	0.9700	0.15	1	0	97.0	64.1	128				
1,2-Dibromoethane	1.040	0.15	1	0	104	64.9	134				
1,2-Dichlorobenzene	1.050	0.15	1	0	105	57.8	158				
1,2-Dichloroethane	1.040	0.15	1	0	104	78.8	127				
1,2-Dichloropropane	1.080	0.15	1	0	108	59.9	128				
1,3,5-Trimethylbenzene	0.9800	0.15	1	0	98.0	70	133				
1,3-butadiene	1.070	0.15	1	0	107	71.1	138				
1,3-Dichlorobenzene	1.040	0.15	1	0	104	66.2	137				
1,4-Dichlorobenzene	1.110	0.15	1	0	111	68.2	139				
1,4-Dioxane	0.9700	0.30	1	0	97.0	67.7	119				
2,2,4-trimethylpentane	1.060	0.15	1	0	106	57	127				
4-ethyltoluene	1.010	0.15	1	0	101	67.9	131				

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: ALCS1UG-022523	SampType: LCS	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 20051
Client ID: ZZZZZ	Batch ID: R20051	TestNo: TO-15		Analysis Date: 2/25/2023	SeqNo: 229658

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.020	0.30	1	0	102	47.6	146				
Allyl chloride	0.9700	0.15	1	0	97.0	56.1	116				
Benzene	1.060	0.15	1	0	106	66.2	126				
Benzyl chloride	1.010	0.15	1	0	101	34.9	155				
Bromodichloromethane	1.080	0.15	1	0	108	69.6	133				
Bromoform	0.9700	0.15	1	0	97.0	44.1	152				
Bromomethane	1.060	0.15	1	0	106	64.9	155				
Carbon disulfide	1.000	0.15	1	0	100	64	111				
Carbon tetrachloride	1.030	0.030	1	0	103	41.3	166				
Chlorobenzene	1.000	0.15	1	0	100	66.3	129				
Chloroethane	1.130	0.15	1	0	113	62.7	148				
Chloroform	1.030	0.15	1	0	103	77.1	126				
Chloromethane	1.120	0.15	1	0	112	74.9	146				
cis-1,2-Dichloroethene	0.9700	0.040	1	0	97.0	57.7	131				
cis-1,3-Dichloropropene	1.050	0.15	1	0	105	57.4	136				
Cyclohexane	1.000	0.15	1	0	100	59.8	124				
Dibromochloromethane	0.9700	0.15	1	0	97.0	58.8	139				
Ethyl acetate	1.050	0.15	1	0	105	56.5	129				
Ethylbenzene	1.010	0.15	1	0	101	66.8	125				
Freon 11	1.100	0.15	1	0	110	75.5	146				
Freon 113	1.040	0.15	1	0	104	71.5	128				
Freon 114	1.090	0.15	1	0	109	71.3	151				
Freon 12	1.090	0.15	1	0	109	73	141				
Heptane	1.060	0.15	1	0	106	64.1	120				
Hexachloro-1,3-butadiene	1.020	0.15	1	0	102	67.9	135				
Hexane	0.9900	0.15	1	0	99.0	57.3	125				
Isopropyl alcohol	1.080	0.15	1	0	108	60.3	139				
m&p-Xylene	2.050	0.30	2	0	103	71	127				
Methyl Butyl Ketone	1.060	0.30	1	0	106	42.5	149				
Methyl Ethyl Ketone	1.000	0.30	1	0	100	56	131				
Methyl Isobutyl Ketone	1.060	0.30	1	0	106	50.8	133				

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: ALCS1UG-022523	SampType: LCS	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 20051
Client ID: ZZZZZ	Batch ID: R20051	TestNo: TO-15		Analysis Date: 2/25/2023	SeqNo: 229658

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.9900	0.15	1	0	99.0	61.2	130				
Methylene chloride	1.000	0.15	1	0	100	58.2	125				
o-Xylene	0.9900	0.15	1	0	99.0	72.4	129				
Propylene	1.100	0.15	1	0	110	45.7	127				
Styrene	1.040	0.15	1	0	104	67	132				
Tetrachloroethylene	1.020	0.15	1	0	102	65.6	133				
Tetrahydrofuran	1.050	0.15	1	0	105	54.4	120				
Toluene	0.9900	0.15	1	0	99.0	62.5	128				
trans-1,2-Dichloroethene	1.070	0.15	1	0	107	63.6	126				
trans-1,3-Dichloropropene	1.050	0.15	1	0	105	41	155				
Trichloroethene	0.9100	0.030	1	0	91.0	54.2	140				
Vinyl acetate	0.9900	0.15	1	0	99.0	49	122				
Vinyl Bromide	1.090	0.15	1	0	109	65.8	150				
Vinyl chloride	1.160	0.040	1	0	116	62.7	146				

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CENTEK LABORATORIES, LLC

Date: *23-Mar-23*

ANALYTICAL QC SUMMARY REPORT

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: **ALCS1UGD-022423** SampType: **LCSD** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **ZZZZZ** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/25/2023** SeqNo: **229638**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.070	0.15	1	0	107	64.3	142	0.99	7.77	20.6	
1,1,2,2-Tetrachloroethane	1.020	0.15	1	0	102	57.4	134	0.99	2.99	24.7	
1,1,2-Trichloroethane	1.060	0.15	1	0	106	62.8	133	0.98	7.84	22.5	
1,1-Dichloroethane	1.040	0.15	1	0	104	64.1	123	0.98	5.94	15.9	
1,1-Dichloroethene	1.040	0.040	1	0	104	55	126	1	3.92	19.1	
1,2,4-Trichlorobenzene	1.160	0.15	1	0	116	56.6	129	1.09	6.22	34.6	
1,2,4-Trimethylbenzene	1.020	0.15	1	0	102	62.6	127	1	1.98	20.4	
1,2-Dibromoethane	1.010	0.15	1	0	101	62.7	134	1	0.995	16.3	
1,2-Dichlorobenzene	0.9800	0.15	1	0	98.0	62.3	144	0.96	2.06	25	
1,2-Dichloroethane	1.050	0.15	1	0	105	64.2	134	0.98	6.90	19.5	
1,2-Dichloropropane	1.030	0.15	1	0	103	55	132	0.98	4.98	24.1	
1,3,5-Trimethylbenzene	1.030	0.15	1	0	103	71.3	133	1.06	2.87	26.9	
1,3-butadiene	1.070	0.15	1	0	107	54.8	148	0.91	16.2	26.4	
1,3-Dichlorobenzene	1.020	0.15	1	0	102	68.1	134	1	1.98	19.7	
1,4-Dichlorobenzene	1.160	0.15	1	0	116	67.7	138	1.12	3.51	21.6	
1,4-Dioxane	1.010	0.30	1	0	101	51	144	0.94	7.18	22	
2,2,4-trimethylpentane	1.060	0.15	1	0	106	57.6	125	0.99	6.83	15.7	
4-ethyltoluene	1.050	0.15	1	0	105	67	131	1.04	0.957	26.5	
Acetone	1.190	0.30	1	0	119	50.4	148	1.12	6.06	49.5	
Allyl chloride	1.080	0.15	1	0	108	50.7	120	1	7.69	20	
Benzene	1.040	0.15	1	0	104	65.4	124	0.99	4.93	12.8	
Benzyl chloride	0.9300	0.15	1	0	93.0	29.1	153	0.89	4.40	29.3	
Bromodichloromethane	1.080	0.15	1	0	108	60.4	138	1	7.69	24	
Bromoform	1.000	0.15	1	0	100	30.8	160	1.04	3.92	23.7	
Bromomethane	1.070	0.15	1	0	107	55.8	153	0.99	7.77	22.7	

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: ALCS1UGD-022423	SampType: LCSD	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 20049
Client ID: ZZZZZ	Batch ID: R20049	TestNo: TO-15		Analysis Date: 2/25/2023	SeqNo: 229638

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.000	0.15	1	0	100	63.4	110	0.96	4.08	15.4	
Carbon tetrachloride	1.050	0.030	1	0	105	30	170	1.02	2.90	22.3	
Chlorobenzene	0.9900	0.15	1	0	99.0	66.5	126	0.99	0	13.1	
Chloroethane	1.140	0.15	1	0	114	55.3	145	0.99	14.1	22.4	
Chloroform	1.040	0.15	1	0	104	68.2	128	0.98	5.94	14.2	
Chloromethane	1.100	0.15	1	0	110	60.2	146	1.01	8.53	20.6	
cis-1,2-Dichloroethene	1.130	0.040	1	0	113	51.8	131	1.08	4.52	15.8	
cis-1,3-Dichloropropene	1.070	0.15	1	0	107	54.7	139	1	6.76	20.3	
Cyclohexane	1.040	0.15	1	0	104	61.2	122	0.96	8.00	16.3	
Dibromochloromethane	1.010	0.15	1	0	101	47.8	145	1.05	4.83	20.1	
Ethyl acetate	1.040	0.15	1	0	104	52.8	129	0.98	5.94	18.4	
Ethylbenzene	1.020	0.15	1	0	102	64.5	126	1.02	0	14.4	
Freon 11	1.100	0.15	1	0	110	60.7	152	1.05	4.65	21.8	
Freon 113	1.000	0.15	1	0	100	67.8	129	0.97	3.05	14.3	
Freon 114	1.100	0.15	1	0	110	58.6	153	0.96	13.6	23.2	
Freon 12	1.100	0.15	1	0	110	65.6	143	0.96	13.6	19.7	
Heptane	1.090	0.15	1	0	109	59.4	123	0.99	9.62	21.5	
Hexachloro-1,3-butadiene	0.9600	0.15	1	0	96.0	53	155	0.96	0	24.6	
Hexane	1.020	0.15	1	0	102	55.4	123	0.98	4.00	22.5	
Isopropyl alcohol	1.230	0.15	1	0	123	56.6	147	1.12	9.36	49.3	
m&p-Xylene	2.070	0.30	2	0	104	70.3	127	2.06	0.484	17.5	
Methyl Butyl Ketone	1.030	0.30	1	0	103	55.1	123	0.99	3.96	25.7	
Methyl Ethyl Ketone	1.020	0.30	1	0	102	51.5	132	0.99	2.99	18.3	
Methyl Isobutyl Ketone	1.050	0.30	1	0	105	41.6	137	1	4.88	26.8	
Methyl tert-butyl ether	1.020	0.15	1	0	102	52	138	0.98	4.00	21.9	
Methylene chloride	0.9700	0.15	1	0	97.0	55.9	129	0.94	3.14	18.5	
o-Xylene	1.050	0.15	1	0	105	71	130	1.02	2.90	22.2	
Propylene	1.150	0.15	1	0	115	49.2	128	1.01	13.0	26.8	
Styrene	1.050	0.15	1	0	105	67.9	131	1.04	0.957	23.3	
Tetrachloroethylene	1.000	0.15	1	0	100	66.2	132	0.99	1.01	13.9	
Tetrahydrofuran	1.020	0.15	1	0	102	47	124	0.99	2.99	20.2	

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: ALCS1UGD-022423	SampType: LCSD	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 20049
Client ID: ZZZZZ	Batch ID: R20049	TestNo: TO-15		Analysis Date: 2/25/2023	SeqNo: 229638

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.010	0.15	1	0	101	62.6	126	1	0.995	17.2	
trans-1,2-Dichloroethene	1.050	0.15	1	0	105	60.2	125	1	4.88	16.8	
trans-1,3-Dichloropropene	1.060	0.15	1	0	106	34.2	157	0.99	6.83	21.5	
Trichloroethene	0.9000	0.030	1	0	90.0	57.8	133	0.86	4.55	21.8	
Vinyl acetate	1.040	0.15	1	0	104	42.5	127	1.01	2.93	23	
Vinyl Bromide	1.220	0.15	1	0	122	55.1	148	1.15	5.91	22	
Vinyl chloride	1.130	0.040	1	0	113	51.9	146	1.01	11.2	22	

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CENTEK LABORATORIES, LLC

Date: *23-Mar-23*

ANALYTICAL QC SUMMARY REPORT

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: **C2302047-002A MS** SampType: **MS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **Summa (MS-MSD)** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/25/2023** SeqNo: **229654**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.100	0.15	1	0	110	51.3	146				
1,1,2,2-Tetrachloroethane	1.050	0.15	1	0	105	59.4	121				
1,1,2-Trichloroethane	1.060	0.15	1	0	106	59.1	128				
1,1-Dichloroethane	1.040	0.15	1	0	104	67.5	118				
1,1-Dichloroethene	1.020	0.040	1	0	102	55.3	121				
1,2,4-Trichlorobenzene	1.280	0.15	1	0	128	72	184				
1,2,4-Trimethylbenzene	1.890	0.15	1	0.61	128	55.1	165				
1,2-Dibromoethane	1.040	0.15	1	0	104	61.9	124				
1,2-Dichlorobenzene	1.140	0.15	1	0	114	47.6	157				
1,2-Dichloroethane	1.070	0.15	1	0	107	67.5	122				
1,2-Dichloropropane	1.050	0.15	1	0	105	57.6	127				
1,3,5-Trimethylbenzene	1.310	0.15	1	0.2	111	54.6	146				
1,3-butadiene	1.350	0.15	1	0	135	62	174				
1,3-Dichlorobenzene	1.150	0.15	1	0	115	67.7	134				
1,4-Dichlorobenzene	1.230	0.15	1	0	123	64.1	136				
1,4-Dioxane	1.020	0.30	1	0	102	62	125				
2,2,4-trimethylpentane	1.110	0.15	1	0	111	65	128				
4-ethyltoluene	1.500	0.15	1	0.28	122	32.2	179				
Acetone	8.600	0.30	1	7.8	80.0	30.4	160				
Allyl chloride	1.040	0.15	1	0	104	47.5	142				
Benzene	1.460	0.15	1	0.42	104	42.1	152				
Benzyl chloride	1.170	0.15	1	0	117	35.4	181				
Bromodichloromethane	1.040	0.15	1	0	104	54.5	133				
Bromoform	0.9700	0.15	1	0	97.0	25.8	146				
Bromomethane	1.000	0.15	1	0	100	63.9	125				

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: **C2302047-002A MS** SampType: **MS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **Summa (MS-MSD)** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/25/2023** SeqNo: **229654**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.000	0.15	1	0	100	56	115				
Carbon tetrachloride	1.080	0.030	1	0.07	101	20.3	172				
Chlorobenzene	0.9900	0.15	1	0	99.0	65.9	117				
Chloroethane	1.050	0.15	1	0	105	50.7	140				
Chloroform	1.020	0.15	1	0	102	64.6	126				
Chloromethane	1.620	0.15	1	0.64	98.0	35.4	148				
cis-1,2-Dichloroethene	0.9900	0.040	1	0	99.0	59.6	119				
cis-1,3-Dichloropropene	1.070	0.15	1	0	107	55.5	133				
Cyclohexane	1.430	0.15	1	0.39	104	23	168				
Dibromochloromethane	1.020	0.15	1	0	102	44.5	143				
Ethyl acetate	1.170	0.15	1	0	117	57.1	129				
Ethylbenzene	1.140	0.15	1	0.12	102	61.3	130				
Freon 11	1.320	0.15	1	0.25	107	14.7	173				
Freon 113	1.030	0.15	1	0	103	71.4	127				
Freon 114	1.020	0.15	1	0	102	52.6	153				
Freon 12	1.020	0.15	1	0	102	47.5	133				
Heptane	1.350	0.15	1	0.26	109	49.9	137				
Hexachloro-1,3-butadiene	1.120	0.15	1	0	112	56.7	149				
Hexane	1.190	0.15	1	0.21	98.0	40.7	152				
Isopropyl alcohol	2.950	0.15	1	1.82	113	8.56	176				
m&p-Xylene	2.480	0.30	2	0.34	107	54.5	138				
Methyl Butyl Ketone	1.200	0.30	1	0	120	41.5	156				
Methyl Ethyl Ketone	2.260	0.30	1	1.11	115	26.1	145				
Methyl Isobutyl Ketone	1.180	0.30	1	0	118	48.7	129				
Methyl tert-butyl ether	0.9700	0.15	1	0	97.0	57	129				
Methylene chloride	1.180	0.15	1	0.27	91.0	49.6	120				
o-Xylene	1.210	0.15	1	0.14	107	55.1	142				
Propylene	2.070	0.15	1	0	207	64.8	224				
Styrene	1.330	0.15	1	0.2	113	60.3	132				
Tetrachloroethylene	1.030	0.15	1	0	103	68.1	126				
Tetrahydrofuran	1.080	0.15	1	0	108	27.9	162				

Qualifiers:
. Results reported are not blank corrected
DL Detection Limit
E Estimated Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: **C2302047-002A MS** SampType: **MS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **Summa (MS-MSD)** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/25/2023** SeqNo: **229654**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.860	0.15	1	0.82	104	41.2	147				
trans-1,2-Dichloroethene	1.000	0.15	1	0	100	46.3	148				
trans-1,3-Dichloropropene	1.090	0.15	1	0	109	50.1	146				
Trichloroethene	0.9100	0.030	1	0	91.0	46	136				
Vinyl acetate	1.120	0.15	1	0	112	8.27	177				
Vinyl Bromide	1.060	0.15	1	0	106	57.1	141				
Vinyl chloride	1.050	0.040	1	0	105	54.5	130				

Sample ID: **C2302047-002A MS** SampType: **MSD** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **Summa (MS-MSD)** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/25/2023** SeqNo: **229655**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.070	0.15	1	0	107	50.5	144	1.1	2.76	12.3	
1,1,2,2-Tetrachloroethane	1.050	0.15	1	0	105	61.9	117	1.05	0	11	
1,1,2-Trichloroethane	1.020	0.15	1	0	102	59.5	124	1.06	3.85	13.9	
1,1-Dichloroethane	1.030	0.15	1	0	103	68.4	117	1.04	0.966	9.68	
1,1-Dichloroethene	1.050	0.040	1	0	105	57.6	115	1.02	2.90	16.8	
1,2,4-Trichlorobenzene	1.300	0.15	1	0	130	37.5	248	1.28	1.55	19	
1,2,4-Trimethylbenzene	1.890	0.15	1	0.61	128	58.6	162	1.89	0	16.6	
1,2-Dibromoethane	1.010	0.15	1	0	101	61.3	120	1.04	2.93	6.77	
1,2-Dichlorobenzene	1.150	0.15	1	0	115	35.6	169	1.14	0.873	41.1	
1,2-Dichloroethane	1.040	0.15	1	0	104	71.8	117	1.07	2.84	9.42	
1,2-Dichloropropane	1.020	0.15	1	0	102	56.3	127	1.05	2.90	11.3	
1,3,5-Trimethylbenzene	1.300	0.15	1	0.2	110	59.4	147	1.31	0.766	14.9	
1,3-butadiene	1.200	0.15	1	0	120	24.6	233	1.35	11.8	29.1	
1,3-Dichlorobenzene	1.160	0.15	1	0	116	73.3	127	1.15	0.866	11.8	
1,4-Dichlorobenzene	1.210	0.15	1	0	121	70.1	129	1.23	1.64	11.8	
1,4-Dioxane	1.020	0.30	1	0	102	64.4	124	1.02	0	13.7	
2,2,4-trimethylpentane	1.100	0.15	1	0	110	72.2	121	1.11	0.905	13.1	
4-ethyltoluene	1.490	0.15	1	0.28	121	27.2	167	1.5	0.669	18.7	

Qualifiers:
. Results reported are not blank corrected
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
DL Detection Limit
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits
E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: C2302047-002A MS	SampType: MSD	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 20049
Client ID: Summa (MS-MSD)	Batch ID: R20049	TestNo: TO-15		Analysis Date: 2/25/2023	SeqNo: 229655

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	8.360	0.30	1	7.8	56.0	-3.52	152	8.6	2.83	18.7	
Allyl chloride	1.090	0.15	1	0	109	63	124	1.04	4.69	12.1	
Benzene	1.430	0.15	1	0.42	101	50	143	1.46	2.08	20.8	
Benzyl chloride	1.220	0.15	1	0	122	36.9	180	1.17	4.18	18.7	
Bromodichloromethane	1.020	0.15	1	0	102	55.5	131	1.04	1.94	13.2	
Bromoform	0.9900	0.15	1	0	99.0	27.8	144	0.97	2.04	7.99	
Bromomethane	1.010	0.15	1	0	101	57.3	131	1	0.995	16.2	
Carbon disulfide	0.9900	0.15	1	0	99.0	53.8	120	1	1.01	10.2	
Carbon tetrachloride	1.070	0.030	1	0.07	100	28.9	156	1.08	0.930	14.4	
Chlorobenzene	1.010	0.15	1	0	101	68.4	112	0.99	2.00	6.19	
Chloroethane	1.050	0.15	1	0	105	47.7	145	1.05	0	18.6	
Chloroform	1.000	0.15	1	0	100	64.1	123	1.02	1.98	8.53	
Chloromethane	1.590	0.15	1	0.64	95.0	36.8	143	1.62	1.87	21.2	
cis-1,2-Dichloroethene	0.9800	0.040	1	0	98.0	64.6	115	0.99	1.02	8.13	
cis-1,3-Dichloropropene	1.030	0.15	1	0	103	53.3	135	1.07	3.81	12.8	
Cyclohexane	1.410	0.15	1	0.39	102	22.8	171	1.43	1.41	38.2	
Dibromochloromethane	1.060	0.15	1	0	106	44.5	140	1.02	3.85	6.88	
Ethyl acetate	1.180	0.15	1	0	118	64.4	124	1.17	0.851	11.6	
Ethylbenzene	1.160	0.15	1	0.12	104	65.3	125	1.14	1.74	11.1	
Freon 11	1.280	0.15	1	0.25	103	57.1	130	1.32	3.08	10.4	
Freon 113	1.020	0.15	1	0	102	70.9	122	1.03	0.976	11.7	
Freon 114	1.010	0.15	1	0	101	46.7	158	1.02	0.985	14.9	
Freon 12	1.010	0.15	1	0	101	48.2	132	1.02	0.985	14.4	
Heptane	1.320	0.15	1	0.26	106	43.6	143	1.35	2.25	13.3	
Hexachloro-1,3-butadiene	1.100	0.15	1	0	110	65.2	135	1.12	1.80	12.6	
Hexane	1.150	0.15	1	0.21	94.0	57.2	136	1.19	3.42	10.9	
Isopropyl alcohol	2.850	0.15	1	1.82	103	32.5	143	2.95	3.45	38.2	
m&p-Xylene	2.490	0.30	2	0.34	108	60	130	2.48	0.402	15.8	
Methyl Butyl Ketone	1.150	0.30	1	0	115	46.2	153	1.2	4.26	10.1	
Methyl Ethyl Ketone	1.590	0.30	1	1.11	48.0	55.6	113	2.26	34.8	18.5	SR
Methyl Isobutyl Ketone	1.170	0.30	1	0	117	63	119	1.18	0.851	25.9	

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: C2302047-002A MS	SampType: MSD	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 20049
Client ID: Summa (MS-MSD)	Batch ID: R20049	TestNo: TO-15		Analysis Date: 2/25/2023	SeqNo: 229655

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.9600	0.15	1	0	96.0	64.6	123	0.97	1.04	15.6	
Methylene chloride	1.200	0.15	1	0.27	93.0	50.1	118	1.18	1.68	10.4	
o-Xylene	1.230	0.15	1	0.14	109	54.8	138	1.21	1.64	16.8	
Propylene	1.860	0.15	1	0	186	82.3	249	2.07	10.7	9.07	R
Styrene	1.360	0.15	1	0.2	116	64	127	1.33	2.23	12	
Tetrachloroethylene	1.010	0.15	1	0	101	55.2	130	1.03	1.96	9.19	
Tetrahydrofuran	1.100	0.15	1	0	110	17.5	154	1.08	1.83	14.2	
Toluene	1.830	0.15	1	0.82	101	21.3	164	1.86	1.63	22.9	
trans-1,2-Dichloroethene	0.9200	0.15	1	0	92.0	39.2	153	1	8.33	34.5	
trans-1,3-Dichloropropene	1.060	0.15	1	0	106	43.5	152	1.09	2.79	8.82	
Trichloroethene	0.9000	0.030	1	0	90.0	50.1	128	0.91	1.10	9.89	
Vinyl acetate	1.110	0.15	1	0	111	65.6	136	1.12	0.897	27.2	
Vinyl Bromide	1.050	0.15	1	0	105	51.4	147	1.06	0.948	18.3	
Vinyl chloride	1.040	0.040	1	0	104	48	135	1.05	0.957	14.5	

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Compound	Amt	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	AVG	StdDev	%Rec	IDL
Propylene	0.3	0.31	0.33	0.32	0.26	0.3	0.31	0.33	0.31	0.02	102.9%	0.076
Freon 12	0.3	0.33	0.31	0.31	0.31	0.32	0.31	0.31	0.31	0.01	104.8%	0.025
Chloromethane	0.3	0.31	0.31	0.3	0.26	0.31	0.34	0.33	0.31	0.03	102.9%	0.080
Freon 114	0.3	0.32	0.32	0.32	0.32	0.34	0.32	0.33	0.32	0.01	108.1%	0.025
Vinyl Chloride	0.3	0.34	0.32	0.31	0.33	0.31	0.31	0.3	0.32	0.01	105.7%	0.043
Butane	0.3	0.31	0.32	0.33	0.3	0.31	0.32	0.33	0.32	0.01	105.7%	0.035
1,3-butadiene	0.3	0.33	0.33	0.33	0.28	0.39	0.36	0.35	0.34	0.03	112.9%	0.106
Bromomethane	0.3	0.33	0.31	0.33	0.33	0.36	0.34	0.31	0.33	0.02	110.0%	0.054
Chloroethane	0.3	0.39	0.29	0.29	0.35	0.28	0.32	0.34	0.32	0.04	107.6%	0.125
Ethanol	0.3	0.34	0.3	0.3	0.26	0.35	0.28	0.34	0.31	0.03	103.3%	0.107
Acrolein	0.3	0.33	0.28	0.27	0.28	0.25	0.3	0.23	0.28	0.03	92.4%	0.102
Vinyl Bromide	0.3	0.34	0.35	0.33	0.34	0.35	0.33	0.32	0.34	0.01	112.4%	0.035
Freon 11	0.3	0.32	0.33	0.34	0.31	0.34	0.31	0.32	0.32	0.01	108.1%	0.040
Acetone	0.3	0.39	0.27	0.31	0.3	0.27	0.33	0.26	0.30	0.05	101.4%	0.143
Pentane	0.3	0.29	0.29	0.29	0.27	0.31	0.39	0.29	0.30	0.04	101.4%	0.124
Isopropyl alcohol	0.3	0.3	0.28	0.28	0.28	0.26	0.27	0.26	0.28	0.01	91.9%	0.044
1,1-dichloroethene	0.3	0.3	0.31	0.32	0.3	0.34	0.31	0.32	0.31	0.01	104.8%	0.044
Freon 113	0.3	0.32	0.31	0.32	0.31	0.32	0.31	0.31	0.31	0.01	104.8%	0.017
t-Butyl alcohol	0.3	0.28	0.3	0.29	0.26	0.29	0.27	0.3	0.28	0.02	94.8%	0.048
Methylene chloride	0.3	0.35	0.35	0.31	0.33	0.33	0.34	0.33	0.33	0.01	111.4%	0.044
Allyl chloride	0.3	0.29	0.29	0.29	0.27	0.26	0.23	0.29	0.27	0.02	91.4%	0.072
Carbon disulfide	0.3	0.34	0.33	0.33	0.33	0.33	0.3	0.31	0.32	0.01	108.1%	0.044
trans-1,2-dichloroethene	0.3	0.28	0.3	0.31	0.29	0.31	0.28	0.3	0.30	0.01	98.6%	0.040
methyl tert-butyl ether	0.3	0.28	0.3	0.29	0.27	0.3	0.27	0.29	0.29	0.01	95.2%	0.040
1,1-dichloroethane	0.3	0.31	0.27	0.28	0.29	0.31	0.29	0.28	0.29	0.02	96.7%	0.048
Vinyl acetate	0.3	0.28	0.28	0.29	0.27	0.29	0.26	0.29	0.28	0.01	93.3%	0.036
Methyl Ethyl Ketone	0.3	0.31	0.3	0.34	0.3	0.28	0.29	0.25	0.30	0.03	98.6%	0.087
cis-1,2-dichloroethene	0.3	0.35	0.34	0.34	0.26	0.35	0.27	0.27	0.31	0.04	103.8%	0.133
Hexane	0.3	0.28	0.29	0.27	0.25	0.26	0.24	0.27	0.27	0.02	88.6%	0.054
Ethyl acetate	0.3	0.28	0.28	0.29	0.26	0.29	0.24	0.27	0.27	0.02	91.0%	0.057
Chloroform	0.3	0.31	0.3	0.31	0.3	0.32	0.29	0.29	0.30	0.01	101.0%	0.035
Tetrahydrofuran	0.3	0.29	0.3	0.29	0.29	0.27	0.27	0.31	0.29	0.01	96.2%	0.046

Compound	Amt	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	AVG	StdDev	%Rec	IDL
1,2-dichloroethane	0.3	0.3	0.26	0.3	0.29	0.32	0.28	0.29	0.29	0.02	97.1%	0.059
1,1,1-trichloroethane	0.3	0.3	0.29	0.29	0.32	0.31	0.34	0.32	0.31	0.02	103.3%	0.057
Cyclohexane	0.3	0.27	0.29	0.29	0.3	0.29	0.31	0.31	0.29	0.01	98.1%	0.044
Carbon tetrachloride	0.3	0.31	0.3	0.29	0.34	0.31	0.36	0.32	0.32	0.02	106.2%	0.076
Benzene	0.3	0.32	0.3	0.3	0.32	0.32	0.34	0.32	0.32	0.01	105.7%	0.043
Methyl methacrylate	0.3	0.31	0.31	0.3	0.31	0.31	0.27	0.26	0.30	0.02	98.6%	0.068
1,4-dioxane	0.3	0.28	0.29	0.29	0.28	0.29	0.29	0.28	0.29	0.01	95.2%	0.017
2,2,4-trimethylpentane	0.3	0.29	0.29	0.28	0.3	0.29	0.3	0.3	0.29	0.01	97.6%	0.024
Heptane	0.3	0.28	0.27	0.27	0.26	0.29	0.29	0.29	0.28	0.01	92.9%	0.038
Trichloroethene	0.3	0.33	0.32	0.3	0.34	0.32	0.35	0.32	0.33	0.02	108.6%	0.051
1,2-dichloropropane	0.3	0.31	0.3	0.29	0.33	0.31	0.34	0.32	0.31	0.02	104.8%	0.054
Bromodichloromethane	0.3	0.31	0.29	0.28	0.32	0.3	0.34	0.31	0.31	0.02	102.4%	0.062
cis-1,3-dichloropropene	0.3	0.28	0.25	0.25	0.27	0.26	0.29	0.26	0.27	0.02	88.6%	0.048
trans-1,3-dichloropropene	0.3	0.27	0.25	0.25	0.25	0.26	0.27	0.28	0.26	0.01	87.1%	0.038
1,1,2-trichloroethane	0.3	0.31	0.31	0.31	0.32	0.32	0.33	0.31	0.32	0.01	105.2%	0.025
Toluene	0.3	0.29	0.3	0.3	0.3	0.29	0.31	0.3	0.30	0.01	99.5%	0.022
Methyl Isobutyl Ketone	0.3	0.29	0.27	0.29	0.29	0.28	0.31	0.32	0.29	0.02	97.6%	0.054
Dibromochloromethane	0.3	0.31	0.28	0.28	0.32	0.27	0.33	0.32	0.30	0.02	100.5%	0.076
Methyl Butyl Ketone	0.3	0.27	0.28	0.29	0.27	0.28	0.26	0.27	0.27	0.01	91.4%	0.031
1,2-dibromoethane	0.3	0.28	0.3	0.28	0.31	0.27	0.33	0.33	0.30	0.02	100.0%	0.077
Tetrachloroethylene	0.3	0.35	0.33	0.32	0.35	0.31	0.36	0.36	0.34	0.02	113.3%	0.063
Chlorobenzene	0.3	0.32	0.31	0.29	0.31	0.3	0.32	0.33	0.31	0.01	103.8%	0.042
Ethylbenzene	0.3	0.28	0.29	0.26	0.27	0.28	0.28	0.29	0.28	0.01	92.9%	0.034
m&p-xylene	0.6	0.56	0.55	0.52	0.53	0.55	0.56	0.55	0.55	0.02	91.0%	0.048
Nonane	0.3	0.27	0.26	0.25	0.26	0.26	0.27	0.28	0.26	0.01	88.1%	0.031
Styrene	0.3	0.28	0.24	0.25	0.25	0.25	0.28	0.3	0.26	0.02	88.1%	0.070
Bromoform	0.3	0.32	0.25	0.25	0.3	0.26	0.33	0.32	0.29	0.04	96.7%	0.112
o-xylene	0.3	0.3	0.27	0.25	0.31	0.27	0.32	0.33	0.29	0.03	97.6%	0.094
Cumene	0.3	0.27	0.23	0.23	0.27	0.23	0.27	0.27	0.25	0.02	84.3%	0.067
1,1,2,2-tetrachloroethane	0.3	0.32	0.29	0.29	0.34	0.29	0.34	0.34	0.32	0.03	105.2%	0.079
Propylbenzene	0.3	0.26	0.23	0.22	0.26	0.23	0.27	0.27	0.25	0.02	82.9%	0.066
2-Chlorotoluene	0.3	0.27	0.24	0.25	0.29	0.24	0.29	0.3	0.27	0.03	89.5%	0.080
4-ethyltoluene	0.3	0.25	0.22	0.23	0.26	0.21	0.27	0.27	0.24	0.02	81.4%	0.077

SanAir/Centek Laboratory
IDL Study

1ug/m3 Detection Limit
January 2023

Method TO-15
Units=ppb

Compound	Amt	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	AVG	StdDev	%Rec	IDL
1,3,5-trimethylbenzene	0.3	0.28	0.24	0.26	0.28	0.24	0.29	0.31	0.27	0.03	90.5%	0.082
1,2,4-trimethylbenzene	0.3	0.28	0.22	0.23	0.26	0.22	0.26	0.27	0.25	0.02	82.9%	0.078
1,3-dichlorobenzene	0.3	0.29	0.26	0.27	0.29	0.25	0.3	0.32	0.28	0.02	94.3%	0.076
benzyl chloride	0.3	0.24	0.28	0.32	0.29	0.23	0.27	0.29	0.27	0.03	91.4%	0.097
1,4-dichlorobenzene	0.3	0.28	0.24	0.26	0.31	0.23	0.29	0.32	0.28	0.03	91.9%	0.107
1,2,3-trimethylbenzene	0.3	0.26	0.25	0.24	0.24	0.19	0.27	0.27	0.25	0.03	81.9%	0.087
1,2-dichlorobenzene	0.3	0.32	0.27	0.26	0.3	0.25	0.32	0.32	0.29	0.03	97.1%	0.097
1,2,4-trichlorobenzene	0.3	0.26	0.31	0.3	0.28	0.3	0.3	0.31	0.29	0.02	98.1%	0.057
Naphthalene	0.3	0.27	0.32	0.26	0.26	0.29	0.28	0.26	0.28	0.02	92.4%	0.070
Hexachloro-1,3-butadiene	0.3	0.35	0.31	0.33	0.34	0.31	0.36	0.37	0.34	0.02	112.9%	0.074

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{Ax * Cis}{Ais * Cx}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Cx = concentration of the compound being measured (ppbv)
Cis = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\% D = \frac{(RRFc - \text{mean RRFi}) * 100}{\text{mean RRFi}}$$

where: RRFc = relative response factor from the continuing calibration
mean RRFi = mean relative response factor from the initial calibration

Sample Calculations

$$ppbv = \frac{Ax * Is * Df}{Ais * RRF}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Is = Concentration of the internal standard injected (ppbv)
RRF= relative response factor for the compound being measured
Df = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT:	Leader Consulting Services	**Client Sample ID:**	Summa #1 -Dup
Lab Order:	C2302047	**Tag Number:**	211
Project:	Vails Gate - Tesla	**Collection Date:**	2/21/2023
Lab ID:	C2302047-001A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	0			"Hg		2/22/2023
Lab Vacuum Out	-30			"Hg		2/22/2023
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	2/25/2023 12:39:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,2,4-Trimethylbenzene	0.58	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,3,5-Trimethylbenzene	0.20	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/25/2023 12:39:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
4-ethyltoluene	0.26	0.15		ppbV	1	2/25/2023 12:39:00 AM
Acetone	7.6	3.0		ppbV	10	2/25/2023 2:59:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Benzene	0.43	0.15		ppbV	1	2/25/2023 12:39:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Bromoform	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Carbon tetrachloride	0.070	0.030		ppbV	1	2/25/2023 12:39:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Chloroform	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Chloromethane	0.61	0.15		ppbV	1	2/25/2023 12:39:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	2/25/2023 12:39:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Cyclohexane	0.43	0.15		ppbV	1	2/25/2023 12:39:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Ethyl acetate	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT:	Leader Consulting Services	**Client Sample ID:**	Summa #1 -Dup
Lab Order:	C2302047	**Tag Number:**	211
Project:	Vails Gate - Tesla	**Collection Date:**	2/21/2023
Lab ID:	C2302047-001A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: RJP
Ethylbenzene	0.12	0.15	J	ppbV	1	2/25/2023 12:39:00 AM
Freon 11	0.24	0.15		ppbV	1	2/25/2023 12:39:00 AM
Freon 113	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Freon 114	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Freon 12	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Heptane	0.24	0.15		ppbV	1	2/25/2023 12:39:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Hexane	0.21	0.15		ppbV	1	2/25/2023 12:39:00 AM
Isopropyl alcohol	2.2	1.5		ppbV	10	2/25/2023 2:59:00 PM
m&p-Xylene	0.32	0.30		ppbV	1	2/25/2023 12:39:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/25/2023 12:39:00 AM
Methyl Ethyl Ketone	1.3	0.30		ppbV	1	2/25/2023 12:39:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/25/2023 12:39:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Methylene chloride	0.28	0.15		ppbV	1	2/25/2023 12:39:00 AM
o-Xylene	0.13	0.15	J	ppbV	1	2/25/2023 12:39:00 AM
Propylene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Styrene	0.20	0.15		ppbV	1	2/25/2023 12:39:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Toluene	0.78	0.15		ppbV	1	2/25/2023 12:39:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Trichloroethene	< 0.030	0.030		ppbV	1	2/25/2023 12:39:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/25/2023 12:39:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/25/2023 12:39:00 AM
Surr: Bromofluorobenzene	93.0	47-124		%REC	1	2/25/2023 12:39:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT:	Leader Consulting Services	**Client Sample ID:**	Summa #1 -Dup
Lab Order:	C2302047	**Tag Number:**	211
Project:	Vails Gate - Tesla	**Collection Date:**	2/21/2023
Lab ID:	C2302047-001A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/25/2023 12:39:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/25/2023 12:39:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/25/2023 12:39:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/25/2023 12:39:00 AM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	2/25/2023 12:39:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/25/2023 12:39:00 AM
1,2,4-Trimethylbenzene	2.9	0.74		ug/m3	1	2/25/2023 12:39:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/25/2023 12:39:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/25/2023 12:39:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/25/2023 12:39:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/25/2023 12:39:00 AM
1,3,5-Trimethylbenzene	0.98	0.74		ug/m3	1	2/25/2023 12:39:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/25/2023 12:39:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/25/2023 12:39:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/25/2023 12:39:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/25/2023 12:39:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	2/25/2023 12:39:00 AM
4-ethyltoluene	1.3	0.74		ug/m3	1	2/25/2023 12:39:00 AM
Acetone	18	7.1		ug/m3	10	2/25/2023 2:59:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/25/2023 12:39:00 AM
Benzene	1.4	0.48		ug/m3	1	2/25/2023 12:39:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/25/2023 12:39:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/25/2023 12:39:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	2/25/2023 12:39:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	2/25/2023 12:39:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/25/2023 12:39:00 AM
Carbon tetrachloride	0.44	0.19		ug/m3	1	2/25/2023 12:39:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/25/2023 12:39:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	2/25/2023 12:39:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	2/25/2023 12:39:00 AM
Chloromethane	1.3	0.31		ug/m3	1	2/25/2023 12:39:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	2/25/2023 12:39:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/25/2023 12:39:00 AM
Cyclohexane	1.5	0.52		ug/m3	1	2/25/2023 12:39:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/25/2023 12:39:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	2/25/2023 12:39:00 AM
Ethylbenzene	0.52	0.65	J	ug/m3	1	2/25/2023 12:39:00 AM
Freon 11	1.3	0.84		ug/m3	1	2/25/2023 12:39:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	2/25/2023 12:39:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	2/25/2023 12:39:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT:	Leader Consulting Services	**Client Sample ID:**	Summa #1 -Dup
Lab Order:	C2302047	**Tag Number:**	211
Project:	Vails Gate - Tesla	**Collection Date:**	2/21/2023
Lab ID:	C2302047-001A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Freon 12	< 0.74	0.74		ug/m3	1	2/25/2023 12:39:00 AM
Heptane	0.98	0.61		ug/m3	1	2/25/2023 12:39:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/25/2023 12:39:00 AM
Hexane	0.74	0.53		ug/m3	1	2/25/2023 12:39:00 AM
Isopropyl alcohol	5.4	3.7		ug/m3	10	2/25/2023 2:59:00 PM
m&p-Xylene	1.4	1.3		ug/m3	1	2/25/2023 12:39:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/25/2023 12:39:00 AM
Methyl Ethyl Ketone	3.7	0.88		ug/m3	1	2/25/2023 12:39:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/25/2023 12:39:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/25/2023 12:39:00 AM
Methylene chloride	0.97	0.52		ug/m3	1	2/25/2023 12:39:00 AM
o-Xylene	0.56	0.65	J	ug/m3	1	2/25/2023 12:39:00 AM
Propylene	< 0.26	0.26		ug/m3	1	2/25/2023 12:39:00 AM
Styrene	0.85	0.64		ug/m3	1	2/25/2023 12:39:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/25/2023 12:39:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/25/2023 12:39:00 AM
Toluene	2.9	0.57		ug/m3	1	2/25/2023 12:39:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/25/2023 12:39:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/25/2023 12:39:00 AM
Trichloroethene	< 0.16	0.16		ug/m3	1	2/25/2023 12:39:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/25/2023 12:39:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/25/2023 12:39:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/25/2023 12:39:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022423.D
Acq On : 25 Feb 2023 12:39 am
Operator : RJP
Sample : C2302047-001A
Misc : A223_1UG
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 25 09:29:48 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

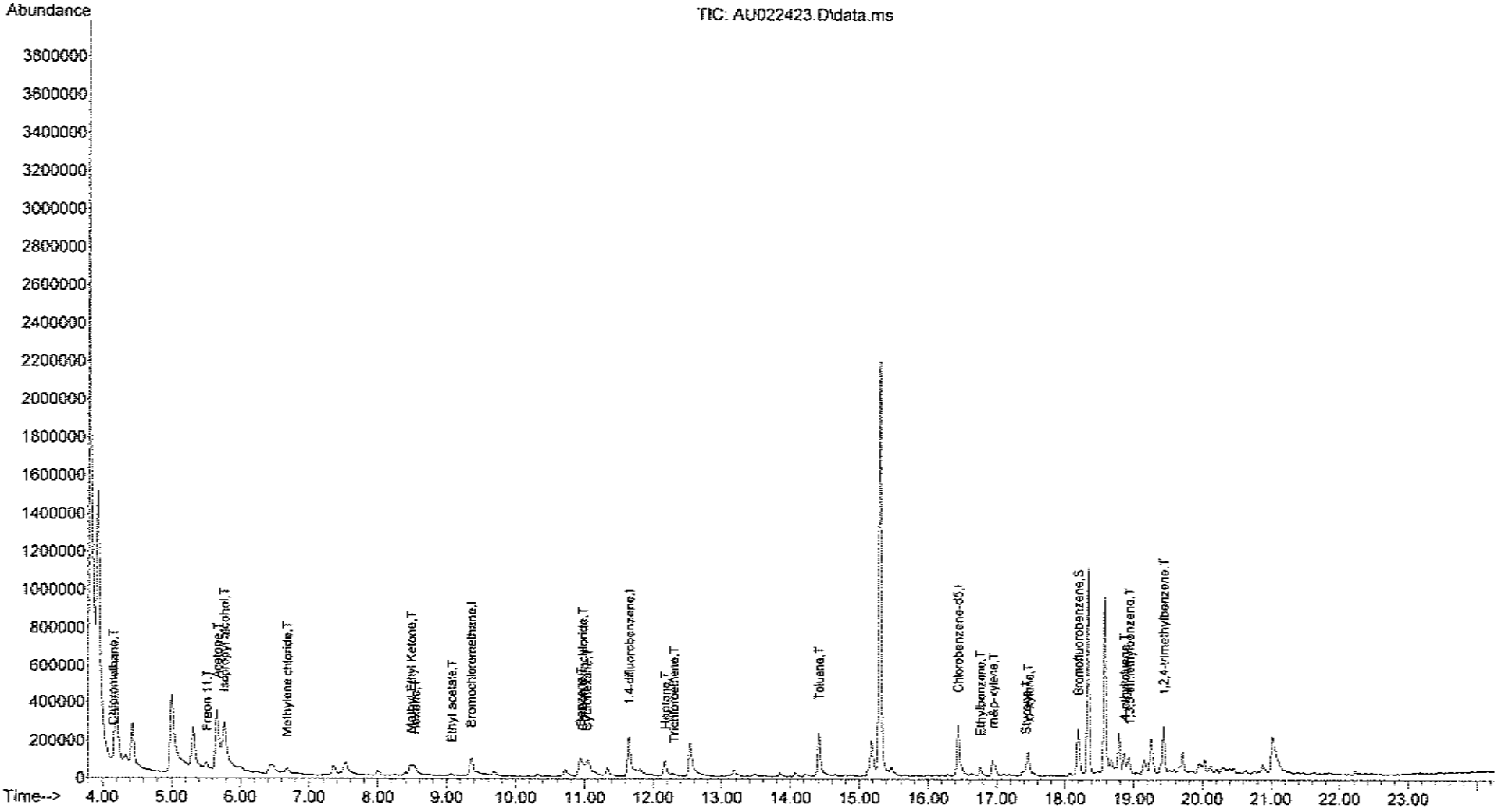
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.349	128	61532	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.646	114	331931	1.00	ppb		0.00
50) Chlorobenzene-d5	16.434	117	261837	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.190	95	144973	0.93	ppb		0.03
Spiked Amount 1.000	Range 70 - 130		Recovery = 93.00%				
Target Compounds							Qvalue
4) Chloromethane	4.150	50	55882	0.61	ppb		93
14) Freon 11	5.510	101	63504	0.24	ppb		99
15) Acetone	5.660	58	388981	8.10	ppb		95
17) Isopropyl alcohol	5.759	45	281289	2.35	ppb	#	1
21) Methylene chloride	6.675	84	29477	0.28	ppb		97
28) Methyl Ethyl Ketone	8.479	72	60837	1.26	ppb	#	85
30) Hexane	8.536	57	40260	0.21	ppb	#	79
31) Ethyl acetate	9.067	43	24905	0.11	ppb		93
37) Cyclohexane	11.027	56	72870m	0.43	ppb		
38) Carbon tetrachloride	10.964	117	12781	0.07	ppb		91
39) Benzene	10.934	78	145485	0.43	ppb		94
43) Heptane	12.174	43	39277	0.24	ppb		81
44) Trichloroethene	12.300	130	3617	0.02	ppb	#	80
51) Toluene	14.411	92	172681	0.78	ppb		93
58) Ethylbenzene	16.758	91	53862	0.12	ppb		98
59) m&p-xylene	16.944	91	110702	0.32	ppb		97
61) Styrene	17.425	104	47861	0.20	ppb		86
63) o-xylene	17.461	91	53716	0.13	ppb		97
69) 4-ethyltoluene	18.860	105	106685m	0.26	ppb		
70) 1,3,5-trimethylbenzene	18.929	105	84277m	0.20	ppb		
71) 1,2,4-trimethylbenzene	19.430	105	201455	0.58	ppb		99

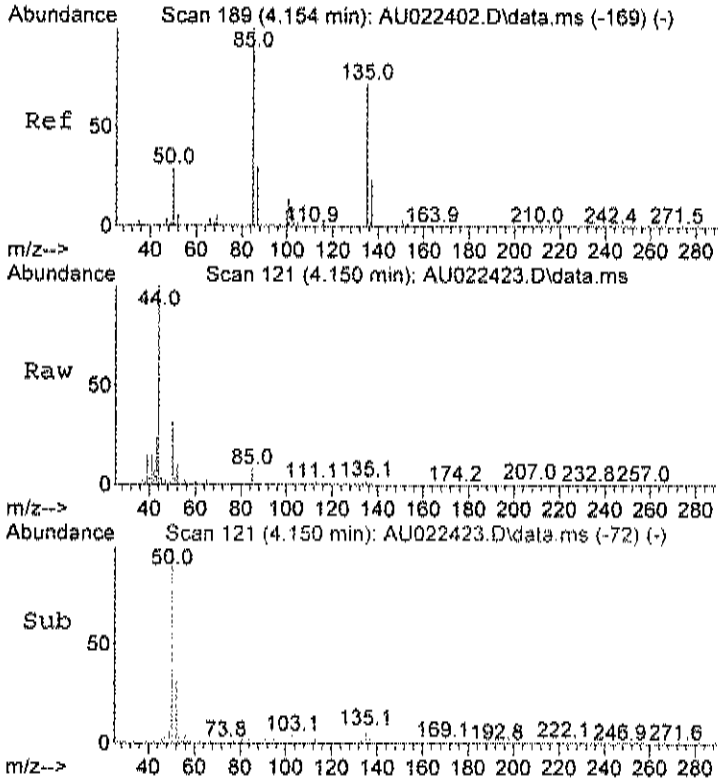
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022423.D
Acq On : 25 Feb 2023 12:39 am
Operator : RJP
Sample : C2302047-001A
Misc : A223_1UG
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 25 09:29:48 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

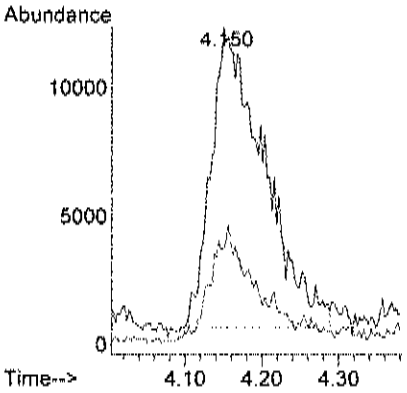


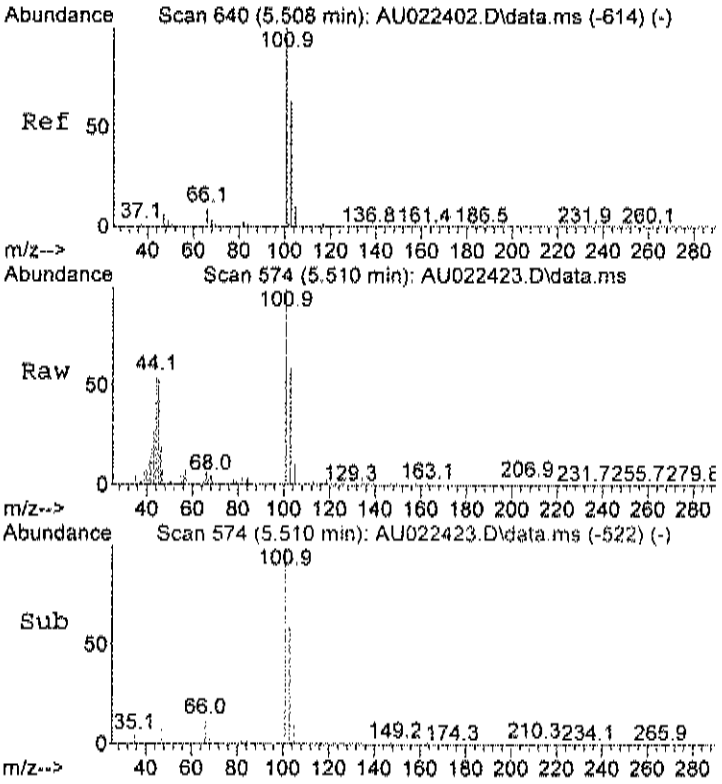


#4
Chloromethane
Concen: 0.61 ppb
RT: 4.150 min Scan# 121
Delta R.T. -0.004 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion: 50 Resp: 55882

Ion	Ratio	Lower	Upper
50	100		
52	30.0	6.5	46.5

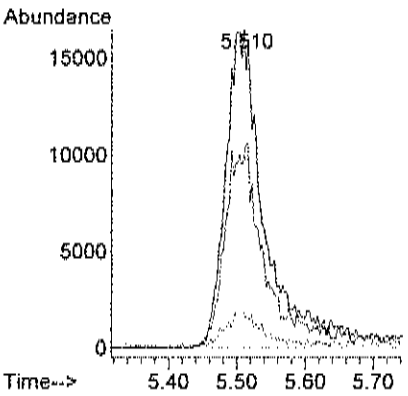


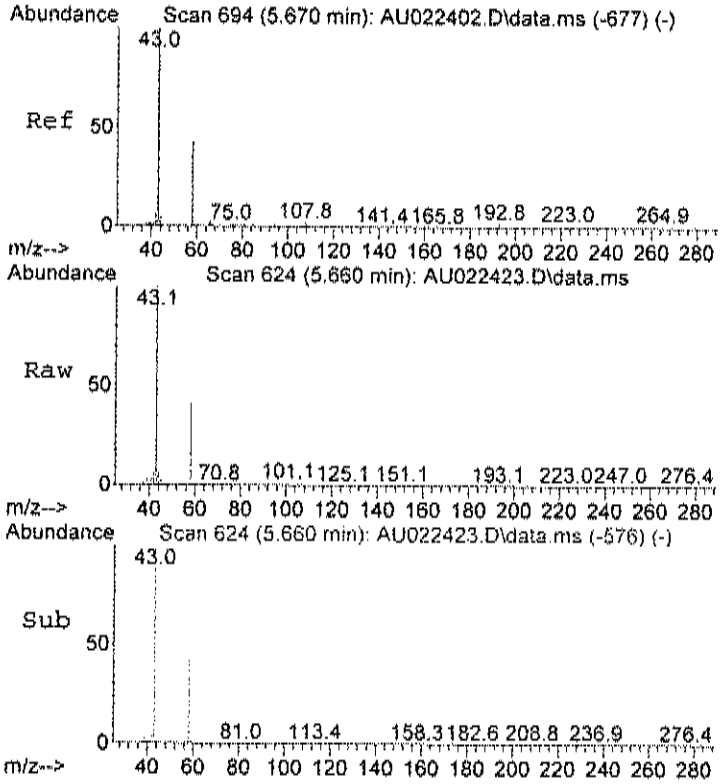


#14
Freon 11
Concen: 0.24 ppb
RT: 5.510 min Scan# 574
Delta R.T. 0.005 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion:101 Resp: 63504

Ion	Ratio	Lower	Upper
101	100		
103	64.8	44.9	84.9
105	12.2	0.0	30.8

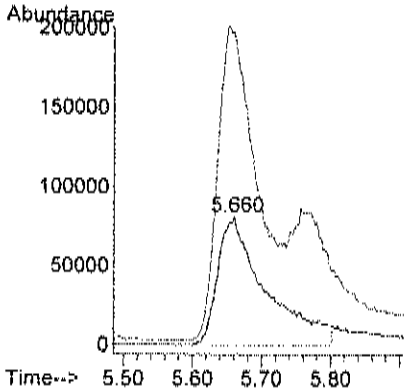


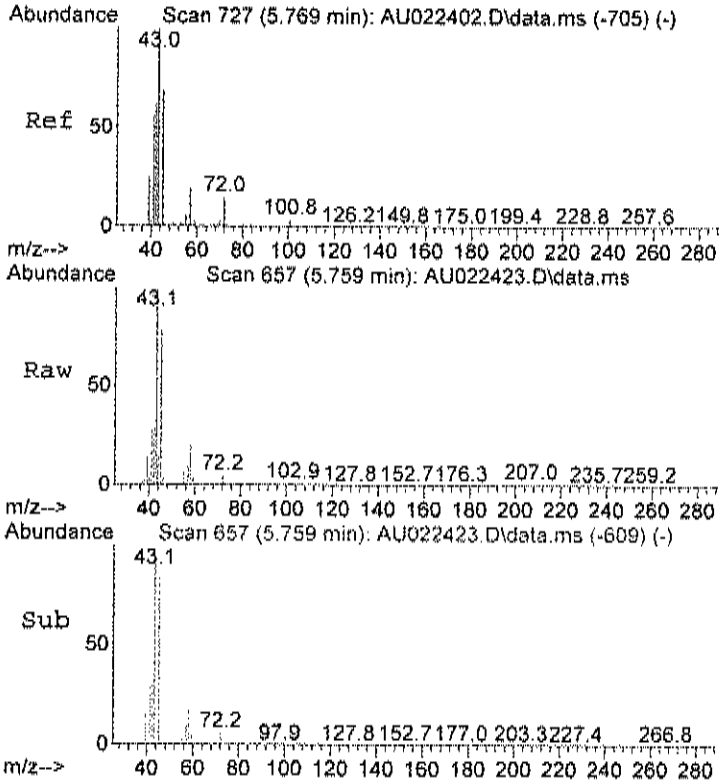


#15
Acetone
Concen: 8.10 ppb
RT: 5.660 min Scan# 624
Delta R.T. -0.007 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion: 58 Resp: 388981

Ion	Ratio	Lower	Upper
58	100		
43	275.9	236.4	296.4

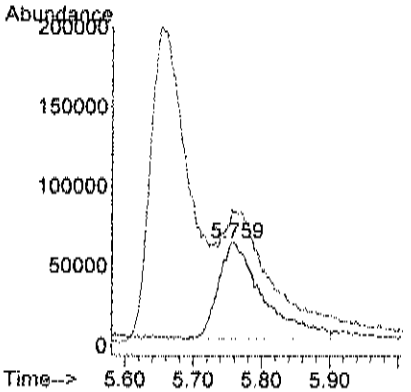


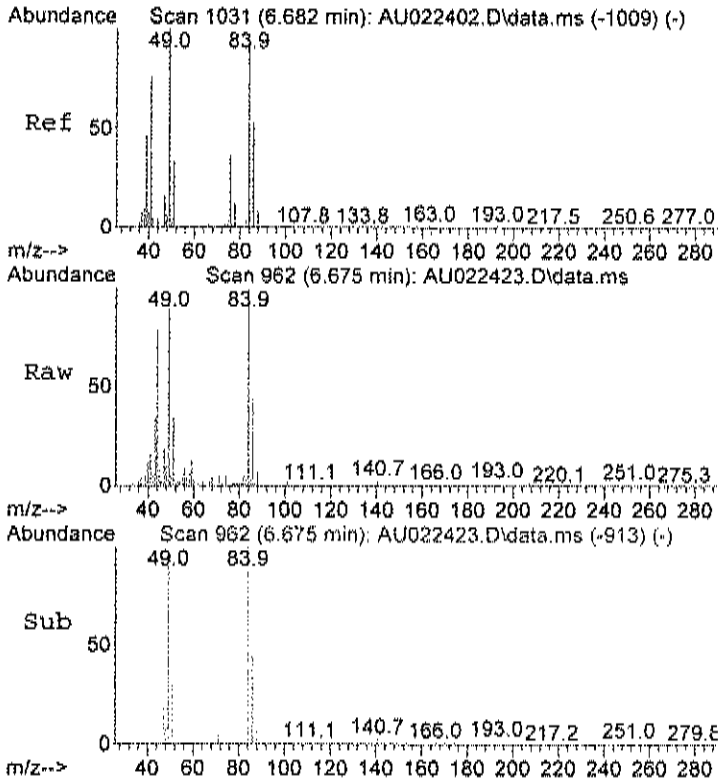


#17
Isopropyl alcohol
Concen: 2.35 ppb
RT: 5.759 min Scan# 657
Delta R.T. -0.007 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion: 45 Resp: 281289

Ion	Ratio	Lower	Upper
45	100		
43	0.0	150.3	190.3#

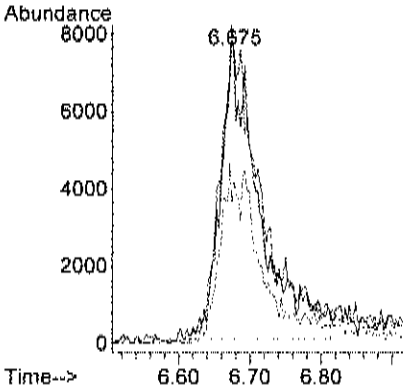


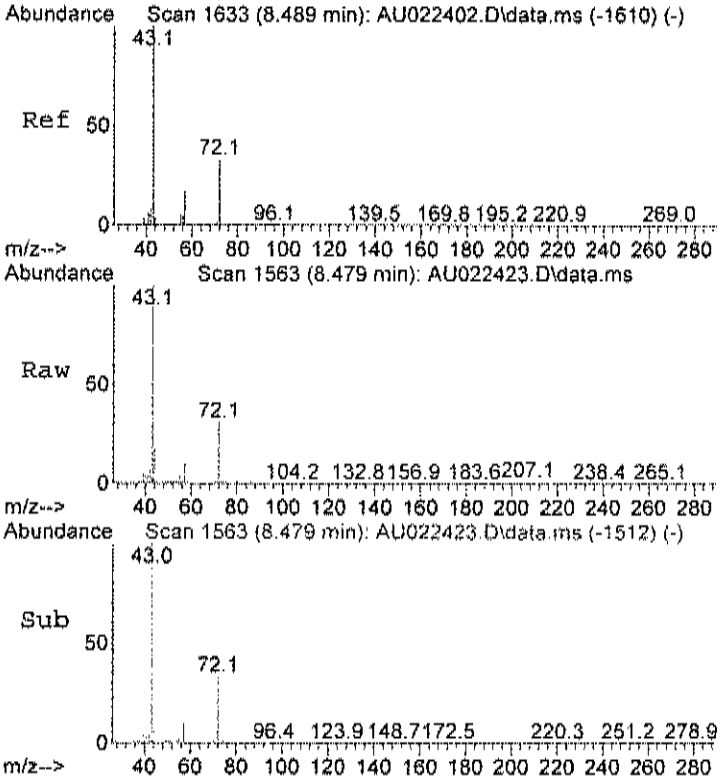


#21
Methylene chloride
Concen: 0.28 ppb
RT: 6.675 min Scan# 962
Delta R.T. -0.004 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion: 84 Resp: 29477

Ion	Ratio	Lower	Upper
84	100		
49	111.8	87.2	127.2
86	62.7	43.1	83.1

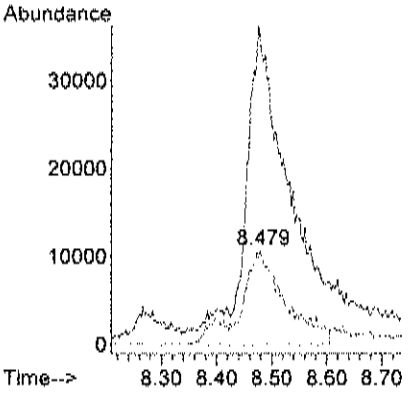


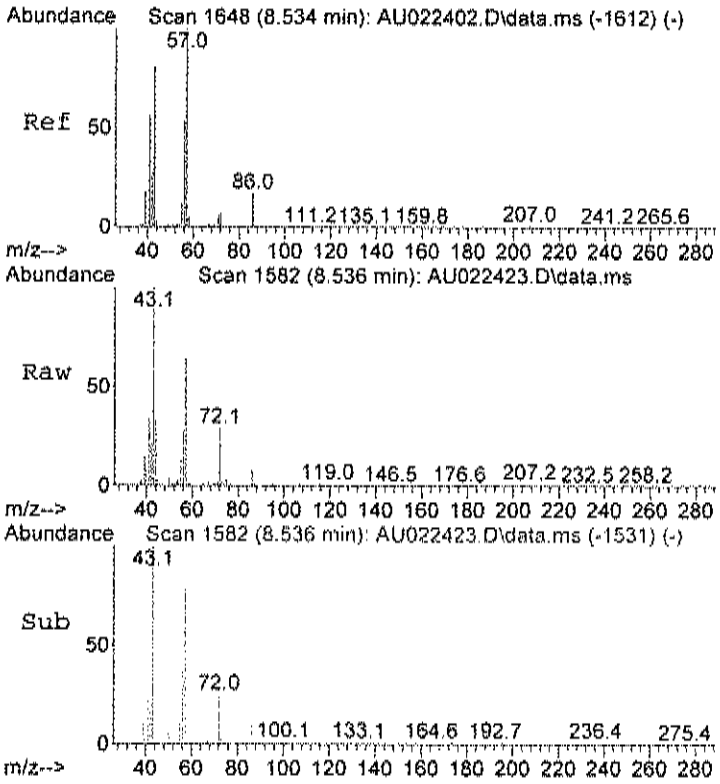


#28
Methyl Ethyl Ketone
Concen: 1.26 ppb
RT: 8.479 min Scan# 1563
Delta R.T. 0.002 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion: 72 Resp: 60837

Ion	Ratio	Lower	Upper
72	100		
43	288.6	308.8	348.8#
72	100.0	80.0	120.0

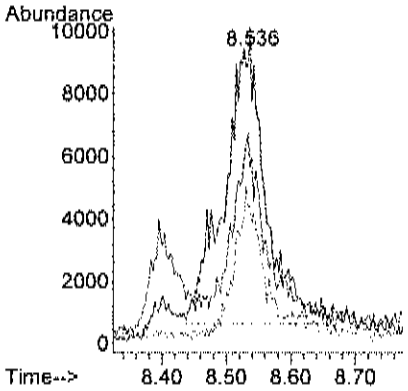


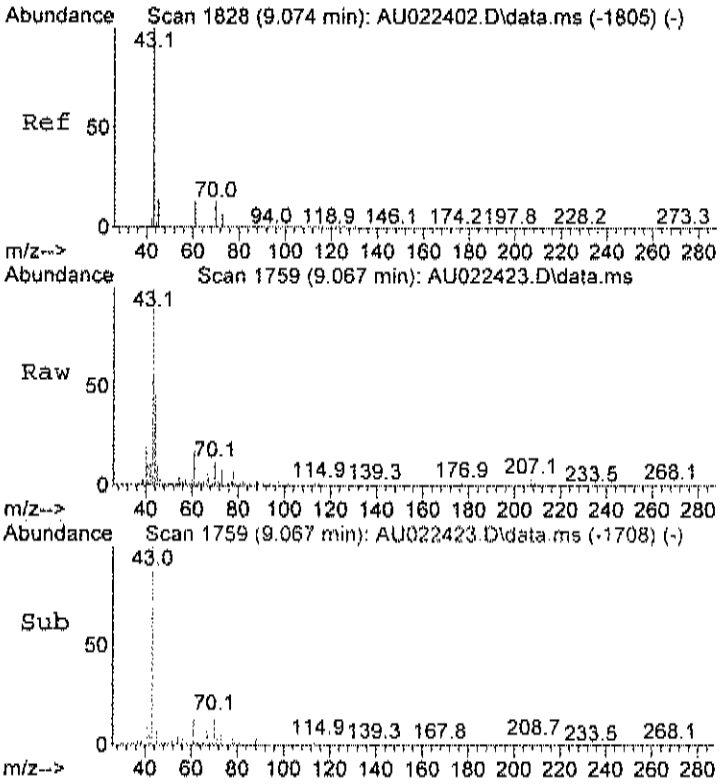


#30
Hexane
Concen: 0.21 ppb
RT: 8.536 min Scan# 1582
Delta R.T. 0.002 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion: 57 Resp: 40260

Ion	Ratio	Lower	Upper
57	100		
41	78.3	36.9	76.9#
56	39.8	27.7	67.7

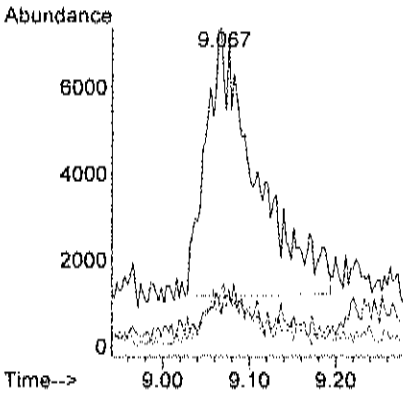


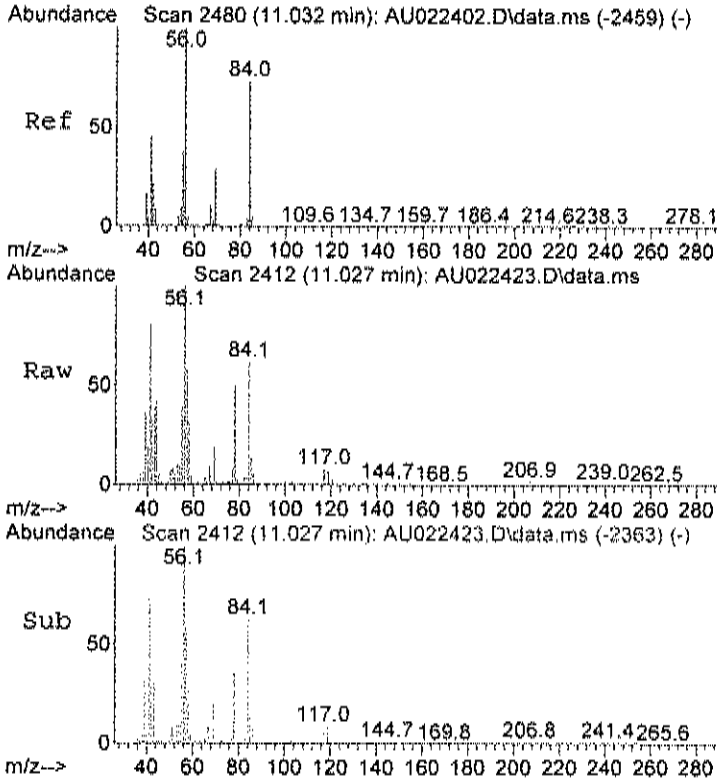


#31
Ethyl acetate
Concen: 0.11 ppb
RT: 9.067 min Scan# 1759
Delta R.T. 0.002 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion: 43 Resp: 24905

Ion	Ratio	Lower	Upper
43	100		
45	11.6	0.0	33.7
61	15.6	0.0	39.2

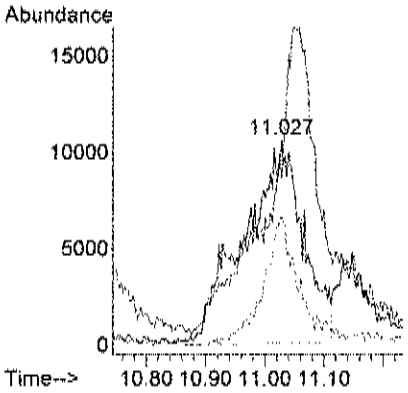


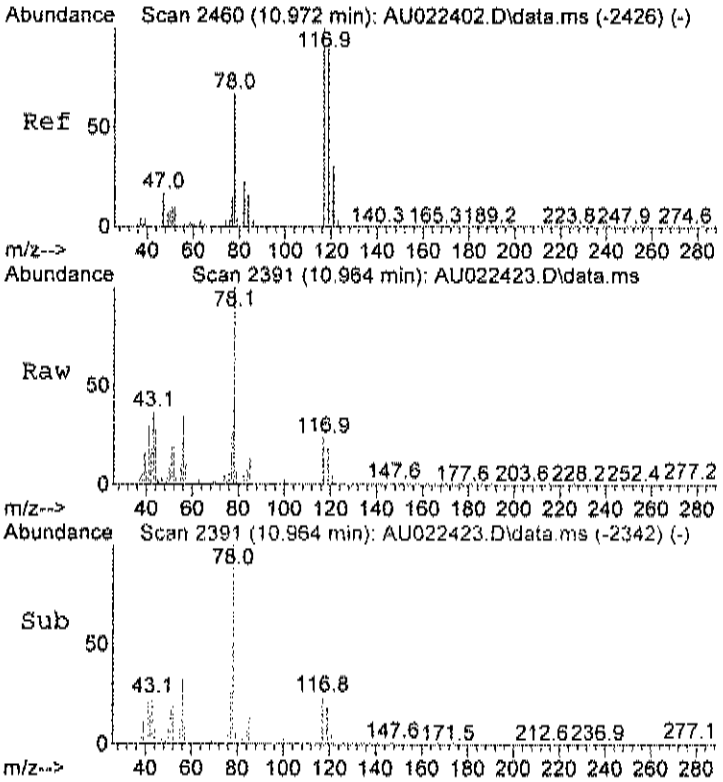


#37
Cyclohexane
Concen: 0.43 ppb m
RT: 11.027 min Scan# 2412
Delta R.T. -0.004 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion: 56 Resp: 72870

Ion	Ratio	Lower	Upper
56	100		
41	131.0	29.7	69.7#
84	37.5	68.3	108.3#

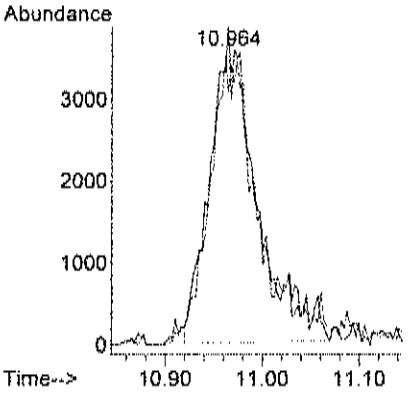


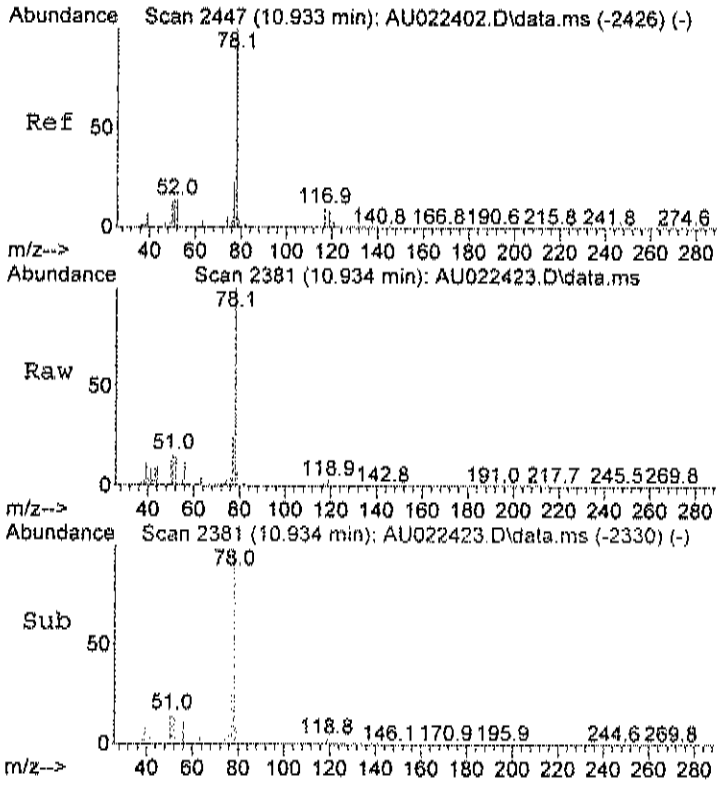


#38
Carbon tetrachloride
Concen: 0.07 ppb
RT: 10.964 min Scan# 2391
Delta R.T. -0.004 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion:117 Resp: 12781

Ion	Ratio	Lower	Upper
117	100		
119	97.5	69.2	109.2

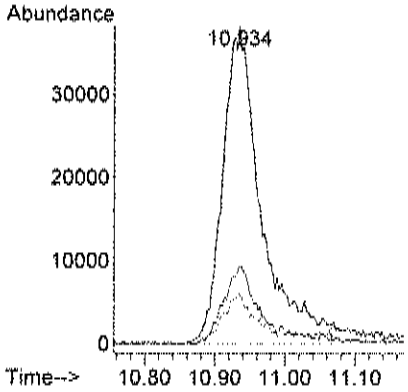


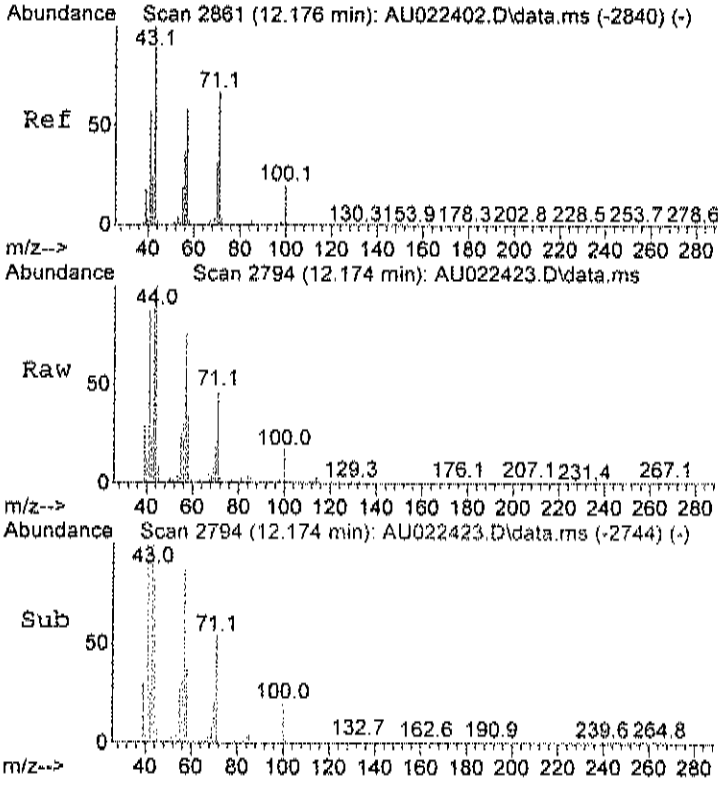


#39
Benzene
Concen: 0.43 ppb
RT: 10.934 min Scan# 2381
Delta R.T. 0.002 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion: 78 Resp: 145485

Ion	Ratio	Lower	Upper
78	100		
77	23.9	1.1	41.1
51	16.8	0.0	34.7

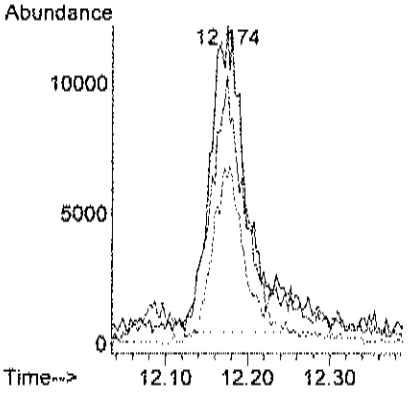


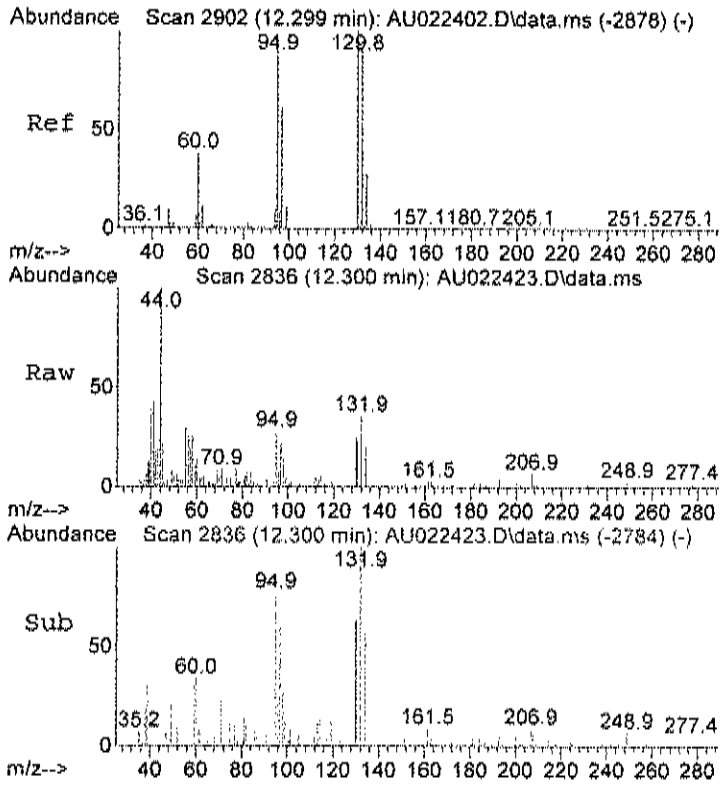


#43
Heptane
Concen: 0.24 ppb
RT: 12.174 min Scan# 2794
Delta R.T. -0.001 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion: 43 Resp: 39277

Ion	Ratio	Lower	Upper
43	100		
57	73.9	40.8	80.8
71	52.2	48.5	88.5

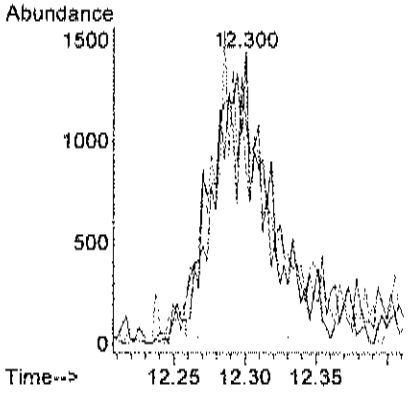


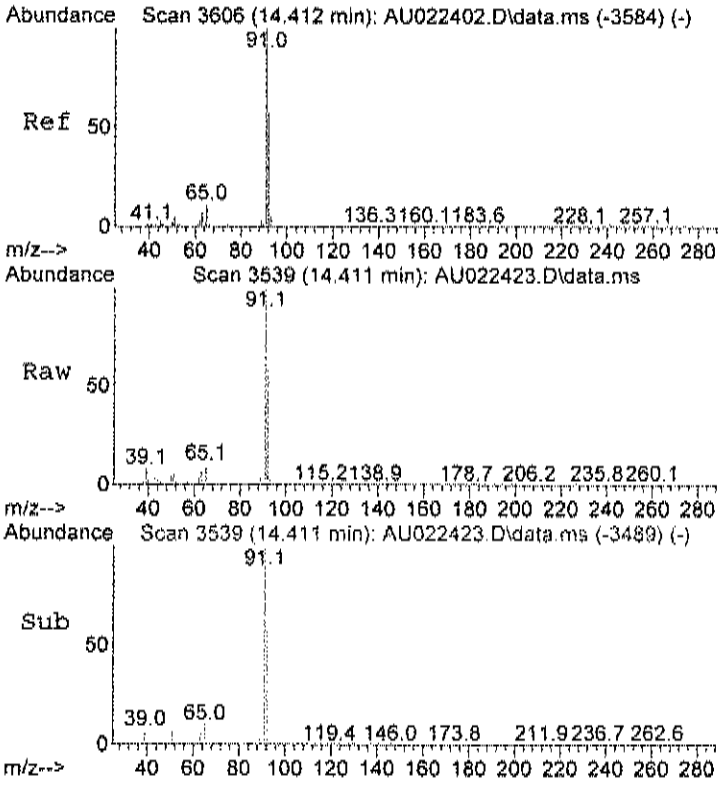


#44
Trichloroethene
Concen: 0.02 ppb
RT: 12.300 min Scan# 2836
Delta R.T. 0.005 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion:130 Resp: 3617

Ion	Ratio	Lower	Upper
130	100		
132	110.9	75.8	115.8
95	112.2	69.5	109.5#

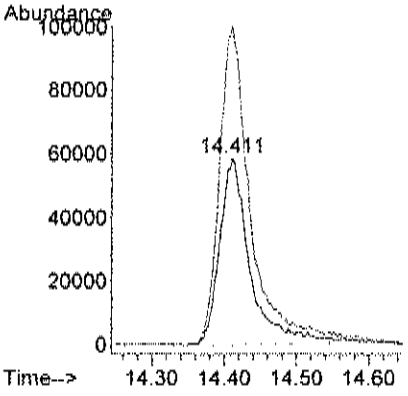


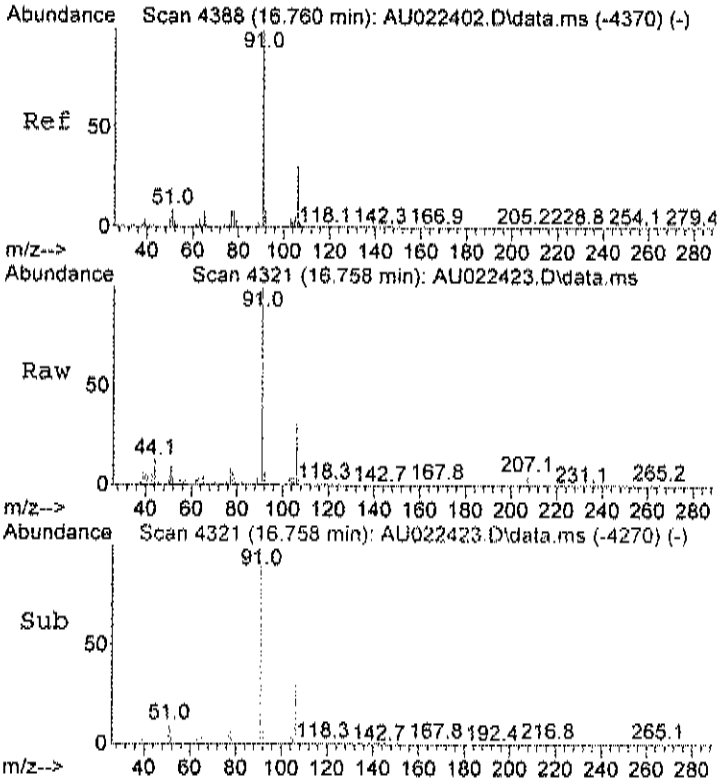


#51
Toluene
Concen: 0.78 ppb
RT: 14.411 min Scan# 3539
Delta R.T. -0.001 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion: 92 Resp: 172681

Ion	Ratio	Lower	Upper
92	100		
91	173.3	144.4	184.4

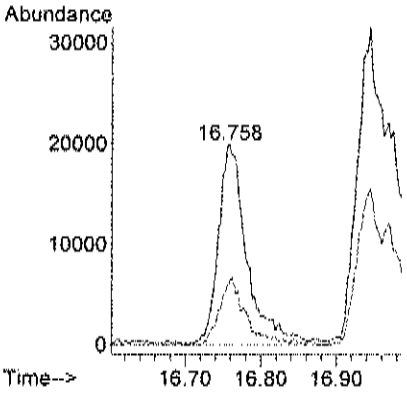


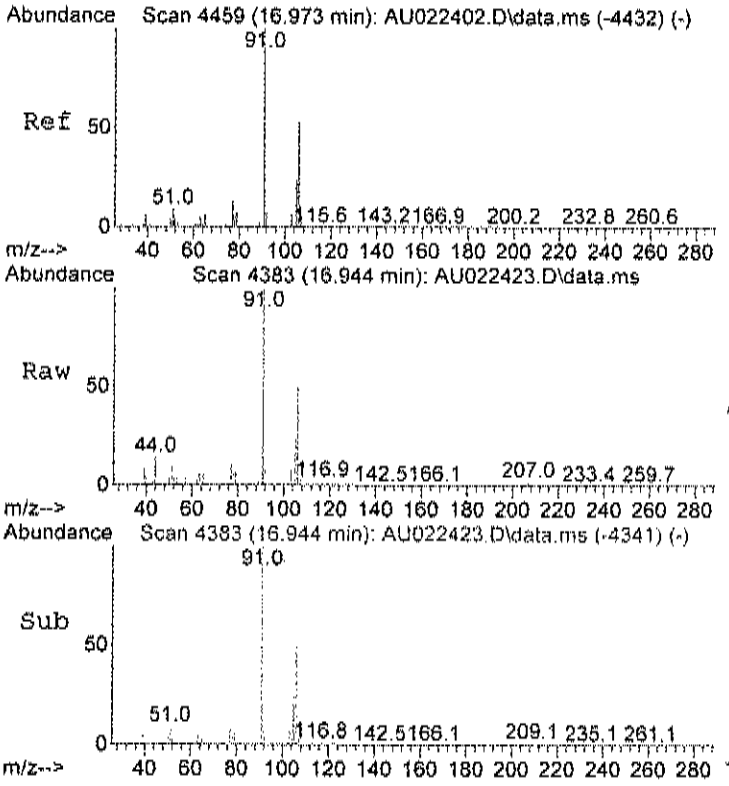


#58
Ethylbenzene
Concen: 0.12 ppb
RT: 16.758 min Scan# 4321
Delta R.T. 0.002 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion: 91 Resp: 53862

Ion	Ratio	Lower	Upper
91	100		
106	30.9	12.2	52.2

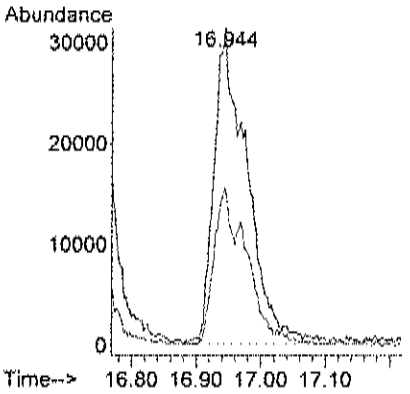


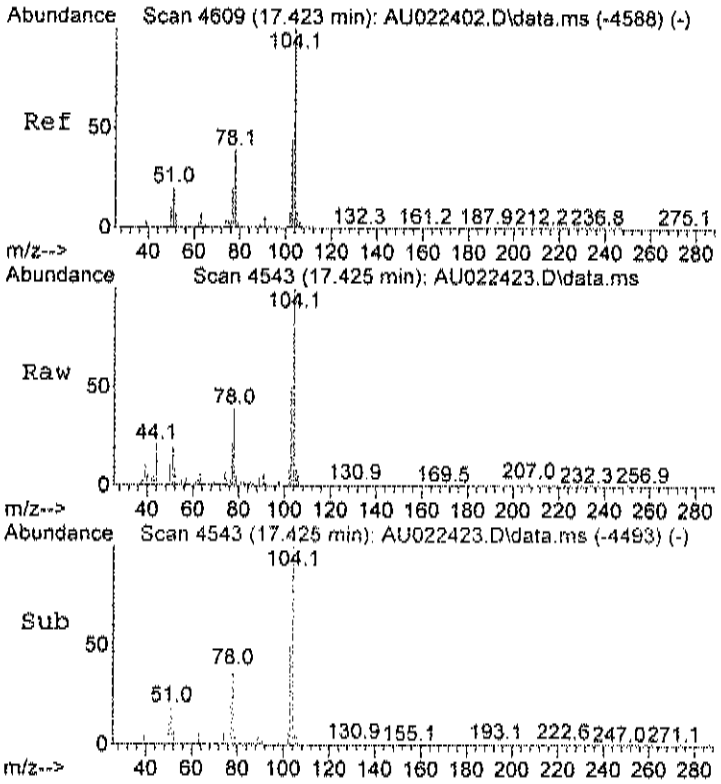


#59
m&p-xylene
Concen: 0.32 ppb
RT: 16.944 min Scan# 4383
Delta R.T. -0.025 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion: 91 Resp: 110702

Ion	Ratio	Lower	Upper
91	100		
106	50.0	32.1	72.1

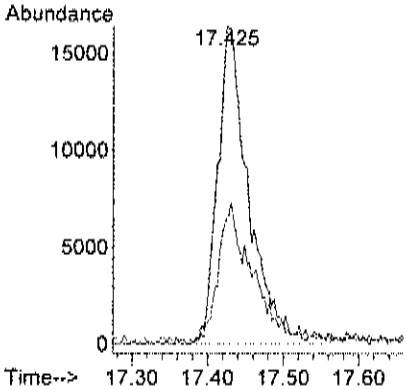


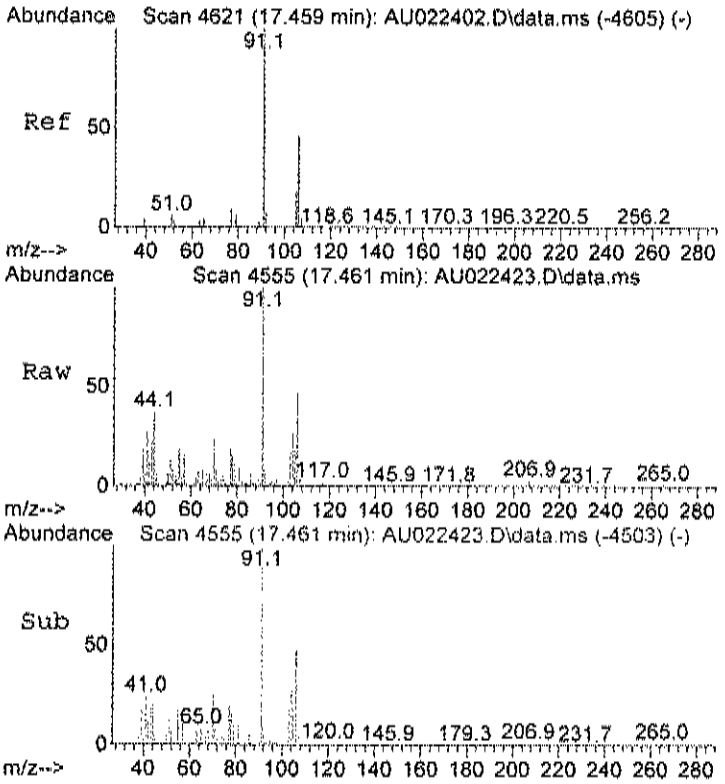


#61
Styrene
Concen: 0.20 ppb
RT: 17.425 min Scan# 4543
Delta R.T. -0.001 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion:104 Resp: 47861

Ion	Ratio	Lower	Upper
104	100		
78	48.4	19.9	59.9

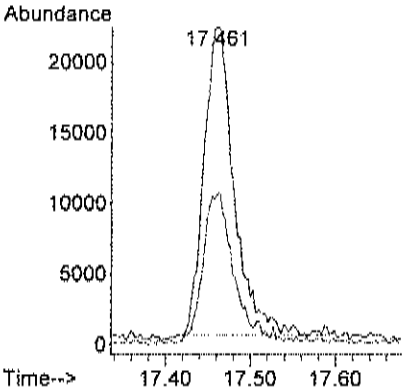


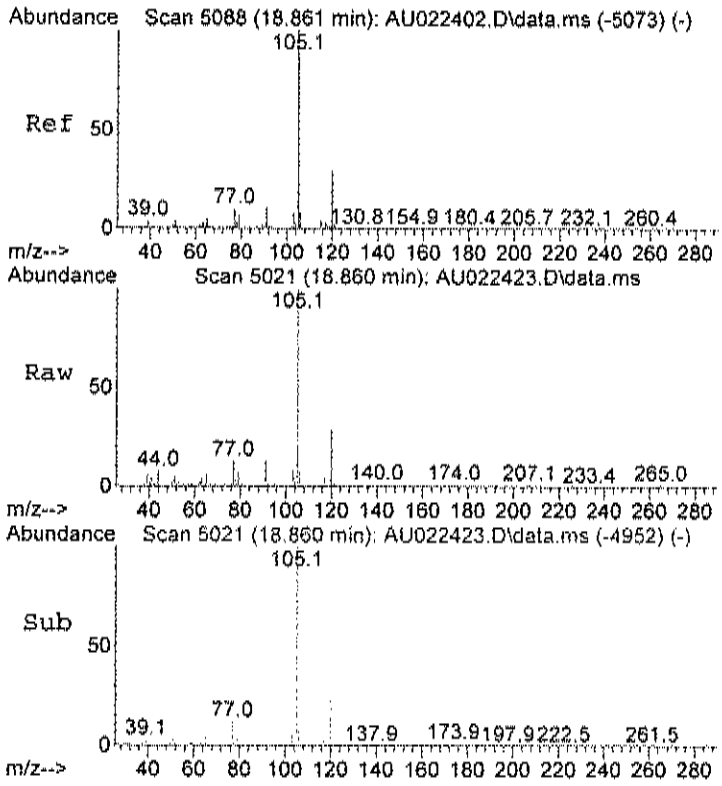


#63
o-xylene
Concen: 0.13 ppb
RT: 17.461 min Scan# 4555
Delta R.T. 0.005 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion: 91 Resp: 53716

Ion	Ratio	Lower	Upper
91	100		
106	50.7	28.7	68.7

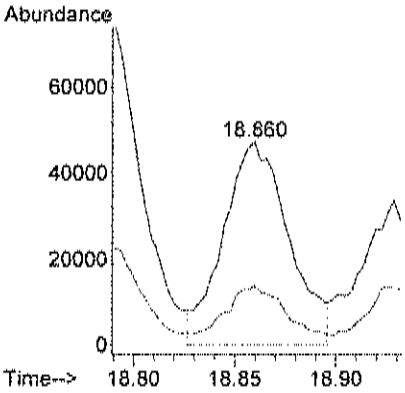


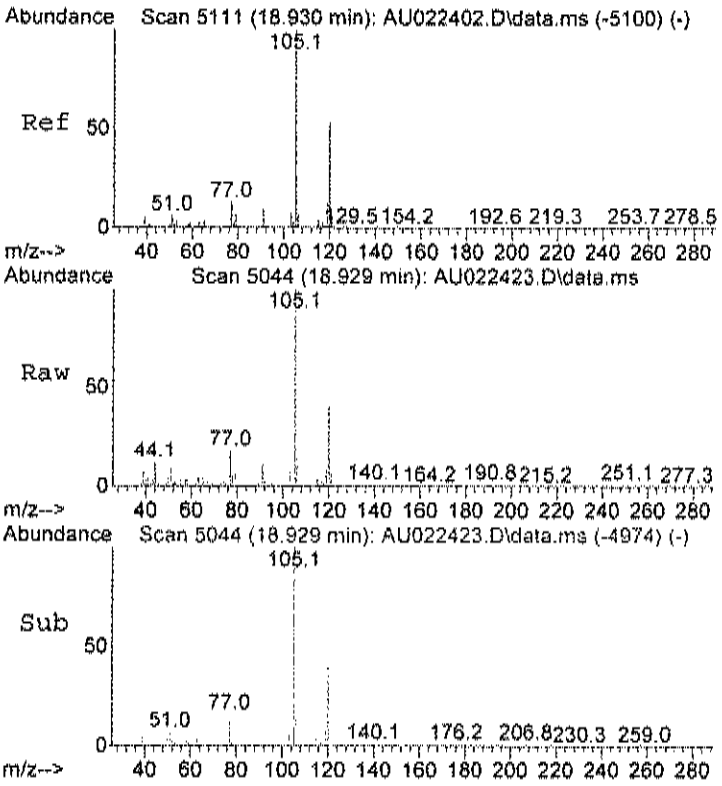


#69
4-ethyltoluene
Concen: 0.26 ppb m
RT: 18.860 min Scan# 5021
Delta R.T. 0.056 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion:105 Resp: 106685

Ion	Ratio	Lower	Upper
105	100		
120	103.3	10.3	50.3#

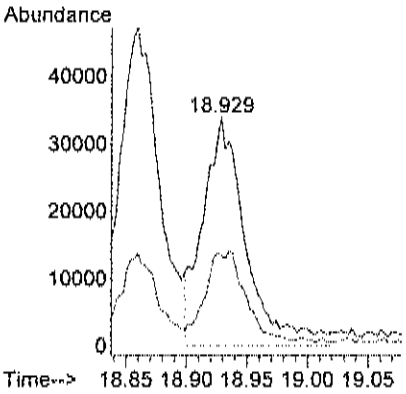


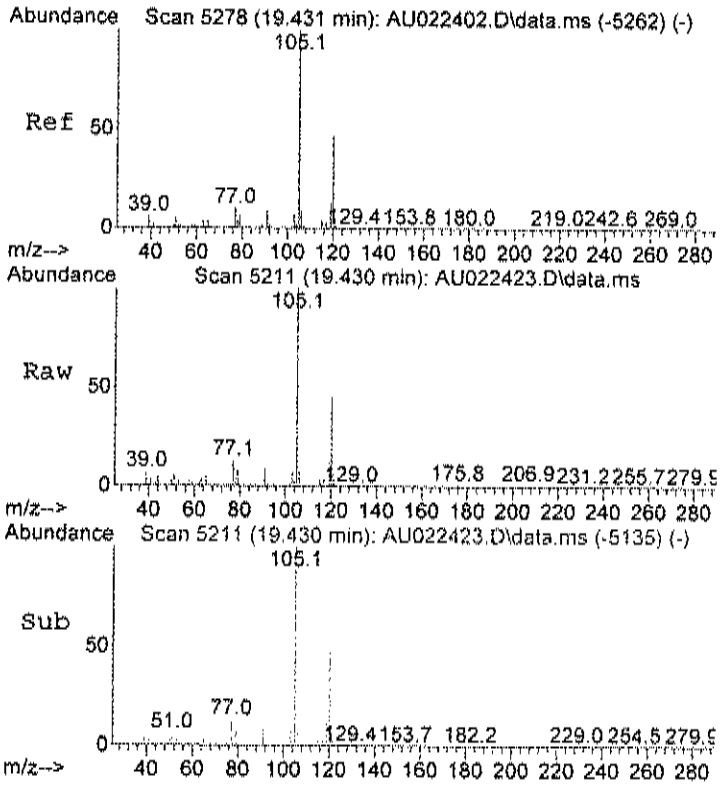


#70
1,3,5-trimethylbenzene
Concen: 0.20 ppb m
RT: 18.929 min Scan# 5044
Delta R.T. 0.059 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion:105 Resp: 84277

Ion	Ratio	Lower	Upper
105	100		
120	142.8	27.6	67.6#

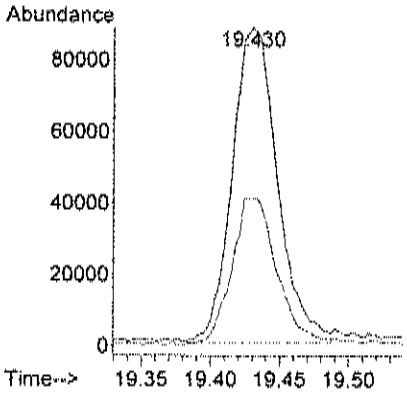




#71
1,2,4-trimethylbenzene
Concen: 0.58 ppb
RT: 19.430 min Scan# 5211
Delta R.T. 0.077 min
Lab File: AU022423.D
Acq: 25 Feb 2023 12:39 am

Tgt Ion:105 Resp: 201455

Ion	Ratio	Lower	Upper
105	100		
120	46.5	25.7	65.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022508.D
Acq On : 25 Feb 2023 2:59 pm
Operator : RJP
Sample : C2302047-001A 10X
Misc : A223_1UG
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 27 07:05:57 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

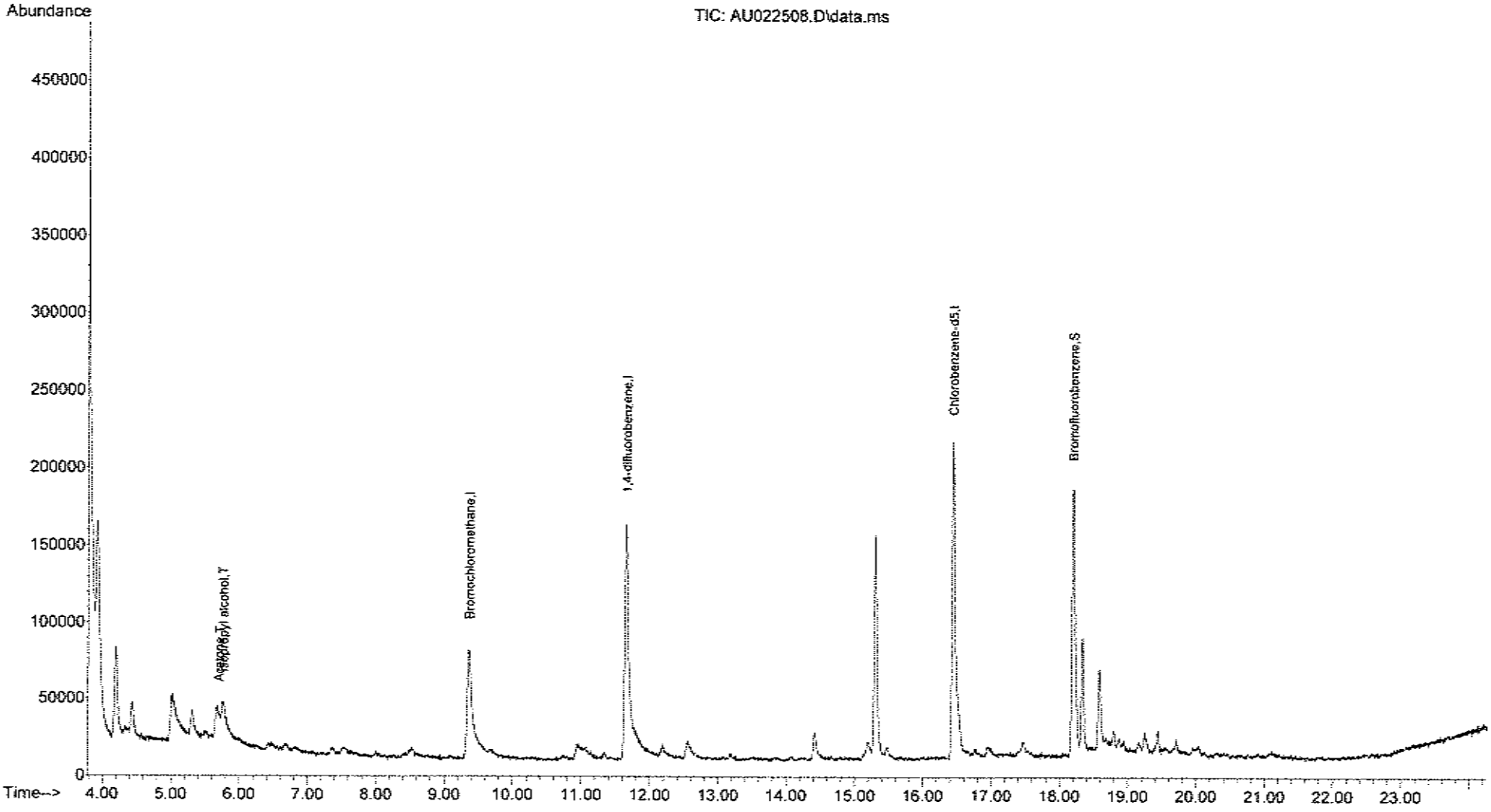
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.365	128	53202	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.658	114	282214	1.00	ppb		0.00
50) Chlorobenzene-d5	16.437	117	228712	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.193	95	117494	0.86	ppb		0.03
Spiked Amount 1.000	Range 70 - 130		Recovery = 86.00%				
Target Compounds							Qvalue
15) Acetone	5.705	58	31548	0.76	ppb		97
17) Isopropyl alcohol	5.765	45	23166	0.22	ppb	#	1

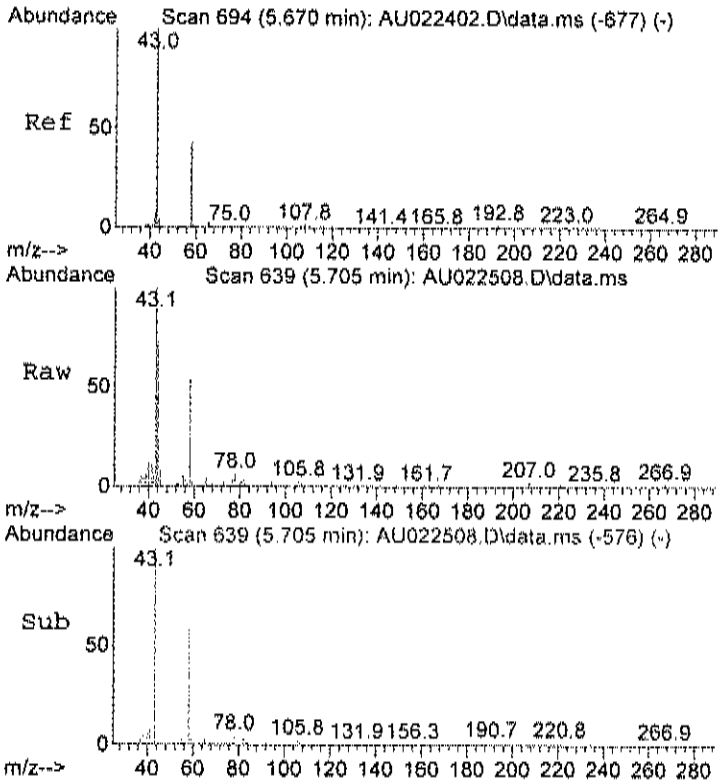
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022508.D
Acq On : 25 Feb 2023 2:59 pm
Operator : RJP
Sample : C2302047-001A 10X
Misc : A223_1UG
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 27 07:05:57 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

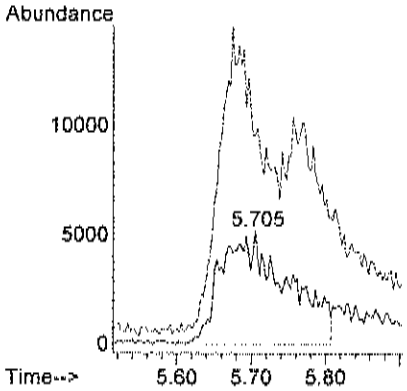


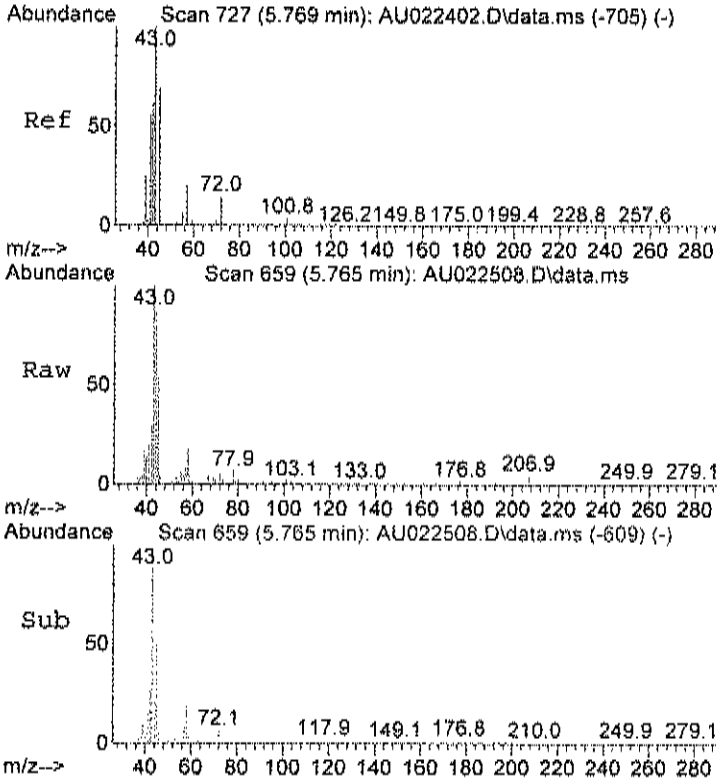


#15
Acetone
Concen: 0.76 ppb
RT: 5.705 min Scan# 639
Delta R.T. 0.038 min
Lab File: AU022508.D
Acq: 25 Feb 2023 2:59 pm

Tgt Ion: 58 Resp: 31548

Ion	Ratio	Lower	Upper
58	100		
43	271.6	236.4	296.4

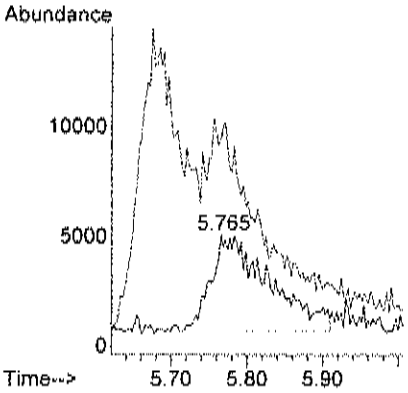




#17
Isopropyl alcohol
Concen: 0.22 ppb
RT: 5.765 min Scan# 659
Delta R.T. -0.001 min
Lab File: AU022508.D
Acq: 25 Feb 2023 2:59 pm

Tgt Ion: 45 Resp: 23166

Ion	Ratio	Lower	Upper
45	100		
43	0.0	150.3	190.3#



Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT: Leader Consulting Services
Lab Order: C2302047
Project: Vails Gate - Tesla
Lab ID: C2302047-002A

Client Sample ID: Summa (MS-MSD)
Tag Number: 1200
Collection Date: 2/21/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		2/22/2023
Lab Vacuum Out	-30			"Hg		2/22/2023
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	2/25/2023 1:23:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,2,4-Trimethylbenzene	0.61	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,3,5-Trimethylbenzene	0.20	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/25/2023 1:23:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
4-ethyltoluene	0.28	0.15		ppbV	1	2/25/2023 1:23:00 AM
Acetone	6.1	3.0		ppbV	10	2/25/2023 3:43:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Benzene	0.42	0.15		ppbV	1	2/25/2023 1:23:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Bromoform	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Carbon tetrachloride	0.070	0.030		ppbV	1	2/25/2023 1:23:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Chloroform	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Chloromethane	0.64	0.15		ppbV	1	2/25/2023 1:23:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	2/25/2023 1:23:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Cyclohexane	0.39	0.15		ppbV	1	2/25/2023 1:23:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Ethyl acetate	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT: Leader Consulting Services
Lab Order: C2302047
Project: Vails Gate - Tesla
Lab ID: C2302047-002A

Client Sample ID: Summa (MS-MSD)
Tag Number: 1200
Collection Date: 2/21/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: RJP
Ethylbenzene	0.12	0.15	J	ppbV	1	2/25/2023 1:23:00 AM
Freon 11	0.26	0.15		ppbV	1	2/25/2023 1:23:00 AM
Freon 113	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Freon 114	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Freon 12	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Heptane	0.26	0.15		ppbV	1	2/25/2023 1:23:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Hexane	0.21	0.15		ppbV	1	2/25/2023 1:23:00 AM
Isopropyl alcohol	1.8	0.15		ppbV	1	2/25/2023 1:23:00 AM
m&p-Xylene	0.34	0.30		ppbV	1	2/25/2023 1:23:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/25/2023 1:23:00 AM
Methyl Ethyl Ketone	1.1	0.30		ppbV	1	2/25/2023 1:23:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/25/2023 1:23:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Methylene chloride	0.27	0.15		ppbV	1	2/25/2023 1:23:00 AM
o-Xylene	0.14	0.15	J	ppbV	1	2/25/2023 1:23:00 AM
Propylene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Styrene	0.20	0.15		ppbV	1	2/25/2023 1:23:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Toluene	0.82	0.15		ppbV	1	2/25/2023 1:23:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Trichloroethene	< 0.030	0.030		ppbV	1	2/25/2023 1:23:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/25/2023 1:23:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/25/2023 1:23:00 AM
Surr: Bromofluorobenzene	93.0	47-124		%REC	1	2/25/2023 1:23:00 AM

Qualifiers:

.	Results reported are not blank corrected
DL	Detection Limit
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
E	Estimated Value above quantitation range
J	Analyte detected below quantitation limit
ND	Not Detected at the Limit of Detection
SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT: Leader Consulting Services
Lab Order: C2302047
Project: Vails Gate - Tesla
Lab ID: C2302047-002A

Client Sample ID: Summa (MS-MSD)
Tag Number: 1200
Collection Date: 2/21/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/25/2023 1:23:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/25/2023 1:23:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/25/2023 1:23:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/25/2023 1:23:00 AM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	2/25/2023 1:23:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/25/2023 1:23:00 AM
1,2,4-Trimethylbenzene	3.0	0.74		ug/m3	1	2/25/2023 1:23:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/25/2023 1:23:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/25/2023 1:23:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/25/2023 1:23:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/25/2023 1:23:00 AM
1,3,5-Trimethylbenzene	0.98	0.74		ug/m3	1	2/25/2023 1:23:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/25/2023 1:23:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/25/2023 1:23:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/25/2023 1:23:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/25/2023 1:23:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	2/25/2023 1:23:00 AM
4-ethyltoluene	1.4	0.74		ug/m3	1	2/25/2023 1:23:00 AM
Acetone	14	7.1		ug/m3	10	2/25/2023 3:43:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/25/2023 1:23:00 AM
Benzene	1.3	0.48		ug/m3	1	2/25/2023 1:23:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/25/2023 1:23:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/25/2023 1:23:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	2/25/2023 1:23:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	2/25/2023 1:23:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/25/2023 1:23:00 AM
Carbon tetrachloride	0.44	0.19		ug/m3	1	2/25/2023 1:23:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/25/2023 1:23:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	2/25/2023 1:23:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	2/25/2023 1:23:00 AM
Chloromethane	1.3	0.31		ug/m3	1	2/25/2023 1:23:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	2/25/2023 1:23:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/25/2023 1:23:00 AM
Cyclohexane	1.3	0.52		ug/m3	1	2/25/2023 1:23:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/25/2023 1:23:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	2/25/2023 1:23:00 AM
Ethylbenzene	0.52	0.65	J	ug/m3	1	2/25/2023 1:23:00 AM
Freon 11	1.4	0.84		ug/m3	1	2/25/2023 1:23:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	2/25/2023 1:23:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	2/25/2023 1:23:00 AM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT: Leader Consulting Services
Lab Order: C2302047
Project: Vails Gate - Tesla
Lab ID: C2302047-002A

Client Sample ID: Summa (MS-MSD)
Tag Number: 1200
Collection Date: 2/21/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: RJP
Freon 12	< 0.74	0.74		ug/m3	1	2/25/2023 1:23:00 AM
Heptane	1.1	0.61		ug/m3	1	2/25/2023 1:23:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/25/2023 1:23:00 AM
Hexane	0.74	0.53		ug/m3	1	2/25/2023 1:23:00 AM
Isopropyl alcohol	4.6	0.37		ug/m3	1	2/25/2023 1:23:00 AM
m&p-Xylene	1.5	1.3		ug/m3	1	2/25/2023 1:23:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/25/2023 1:23:00 AM
Methyl Ethyl Ketone	3.3	0.88		ug/m3	1	2/25/2023 1:23:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/25/2023 1:23:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/25/2023 1:23:00 AM
Methylene chloride	0.94	0.52		ug/m3	1	2/25/2023 1:23:00 AM
o-Xylene	0.61	0.65	J	ug/m3	1	2/25/2023 1:23:00 AM
Propylene	< 0.26	0.26		ug/m3	1	2/25/2023 1:23:00 AM
Styrene	0.85	0.64		ug/m3	1	2/25/2023 1:23:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/25/2023 1:23:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/25/2023 1:23:00 AM
Toluene	3.1	0.57		ug/m3	1	2/25/2023 1:23:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/25/2023 1:23:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/25/2023 1:23:00 AM
Trichloroethene	< 0.16	0.16		ug/m3	1	2/25/2023 1:23:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/25/2023 1:23:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/25/2023 1:23:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/25/2023 1:23:00 AM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022424.D
Acq On : 25 Feb 2023 1:23 am
Operator : RJP
Sample : C2302047-002A
Misc : A223_1UG
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 25 09:29:50 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

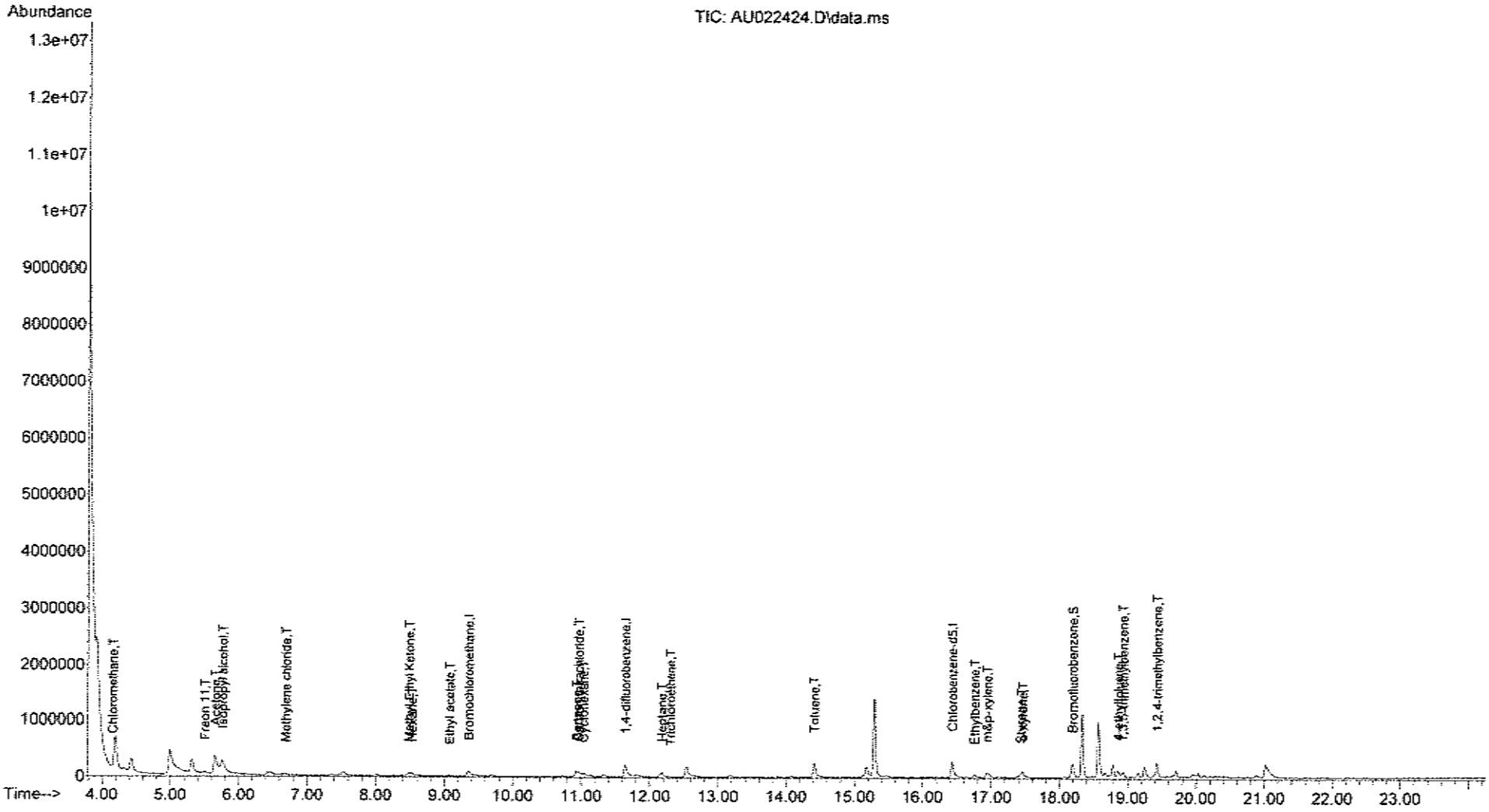
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.356	128	61681	1.00	ppb	#	0.00
35) 1,4-difluorobenzene	11.643	114	338112	1.00	ppb		0.00
50) Chlorobenzene-d5	16.434	117	260262	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.190	95	143853	0.93	ppb		0.03
Spiked Amount 1.000	Range 70 - 130		Recovery = 93.00%				
Target Compounds							Qvalue
4) Chloromethane	4.153	50	59376	0.64	ppb		99
14) Freon 11	5.501	101	65970	0.25	ppb		100
15) Acetone	5.660	58	375169	7.80	ppb		91
17) Isopropyl alcohol	5.762	45	217729	1.82	ppb	#	1
21) Methylene chloride	6.690	84	28571	0.27	ppb		89
28) Methyl Ethyl Ketone	8.485	72	53801	1.11	ppb	#	1
30) Hexane	8.527	57	39469	0.21	ppb		93
31) Ethyl acetate	9.076	43	27485	0.12	ppb		96
37) Cyclohexane	11.031	56	68880m	0.39	ppb		
38) Carbon tetrachloride	10.962	117	11993	0.07	ppb	#	78
39) Benzene	10.938	78	147808	0.42	ppb		94
43) Heptane	12.174	43	42348	0.26	ppb		77
44) Trichloroethene	12.301	130	3861	0.02	ppb	#	86
51) Toluene	14.408	92	180589	0.82	ppb		93
58) Ethylbenzene	16.755	91	53512	0.12	ppb		100
59) m&p-xylene	16.942	91	114920	0.34	ppb		98
61) Styrene	17.434	104	48821	0.20	ppb		91
63) o-xylene	17.458	91	58147	0.14	ppb		97
69) 4-ethyltoluene	18.863	105	114195m	0.28	ppb		
70) 1,3,5-trimethylbenzene	18.929	105	83859m	0.20	ppb		
71) 1,2,4-trimethylbenzene	19.430	105	213243	0.61	ppb		99

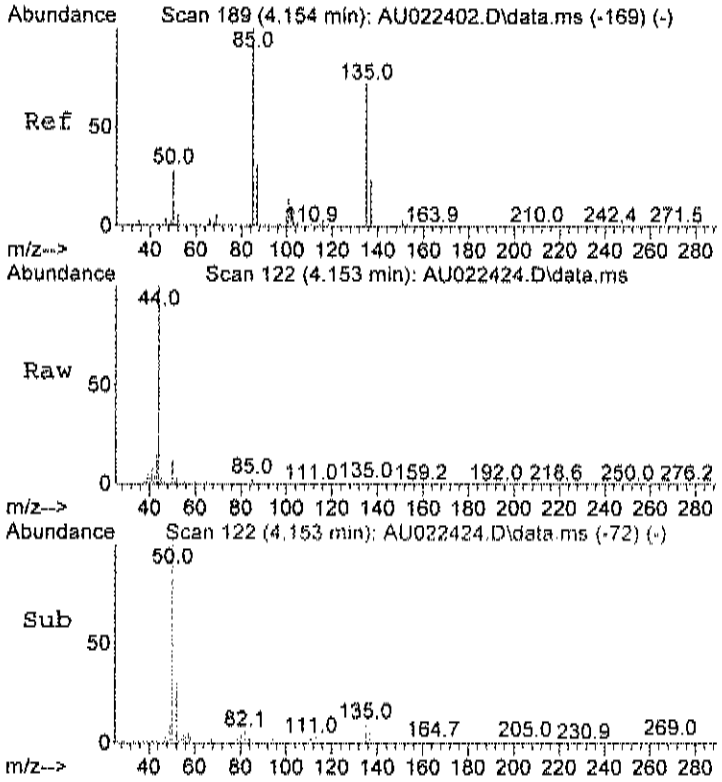
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022424.D
Acq On : 25 Feb 2023 1:23 am
Operator : RJP
Sample : C2302047-002A
Misc : A223_1UG
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 25 09:29:50 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

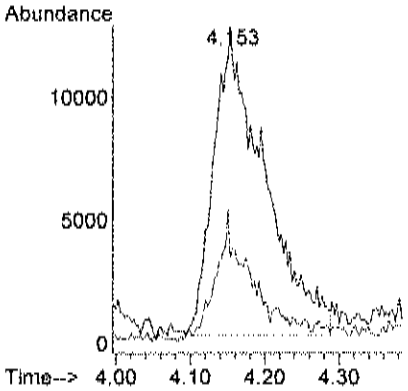


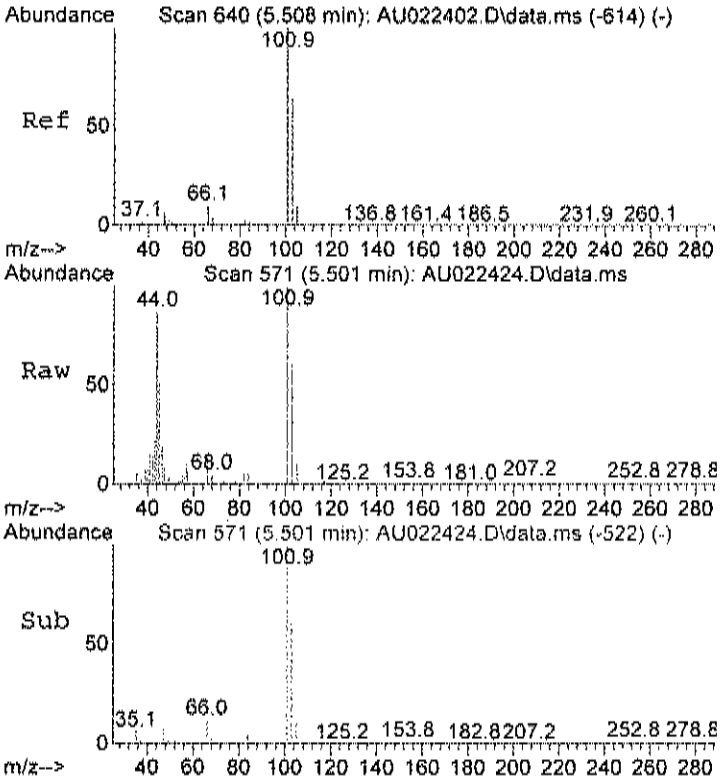


#4
Chloromethane
Concen: 0.64 ppb
RT: 4.153 min Scan# 122
Delta R.T. -0.001 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion: 50 Resp: 59376

Ion	Ratio	Lower	Upper
50	100		
52	26.9	6.5	46.5

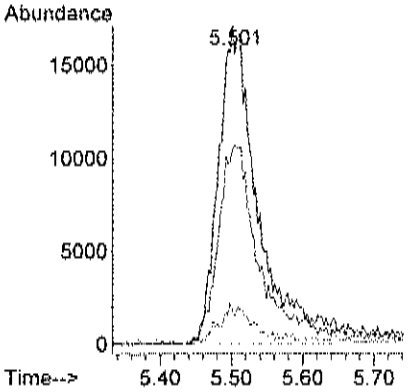


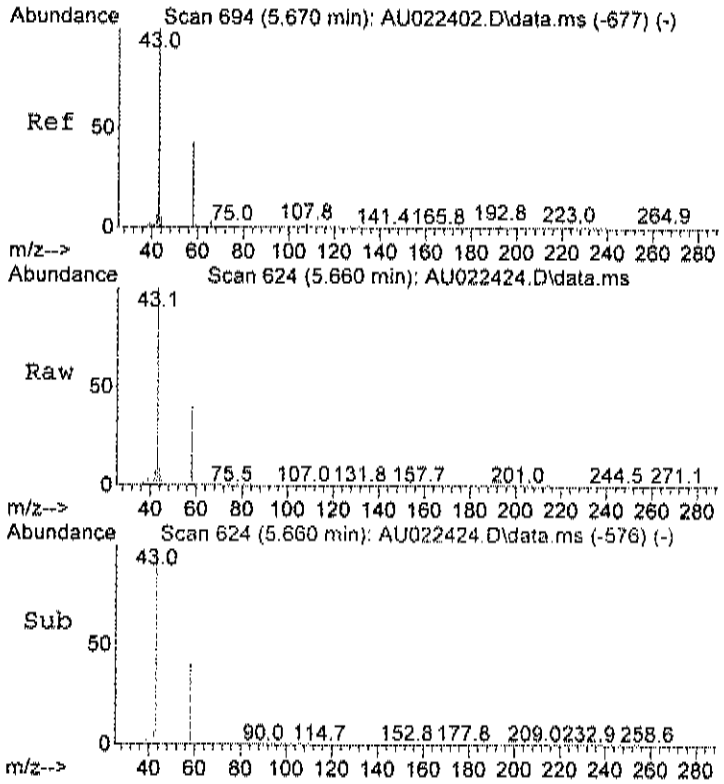


#14
Freon 11
Concen: 0.25 ppb
RT: 5.501 min Scan# 571
Delta R.T. -0.004 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion:101 Resp: 65970

Ion	Ratio	Lower	Upper
101	100		
103	64.9	44.9	84.9
105	10.4	0.0	30.8

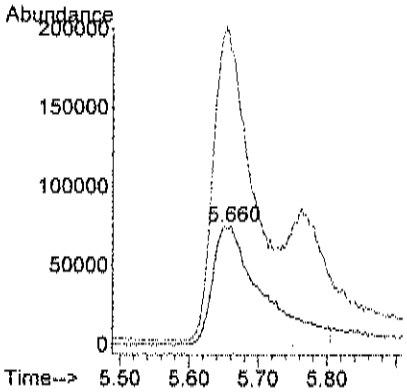


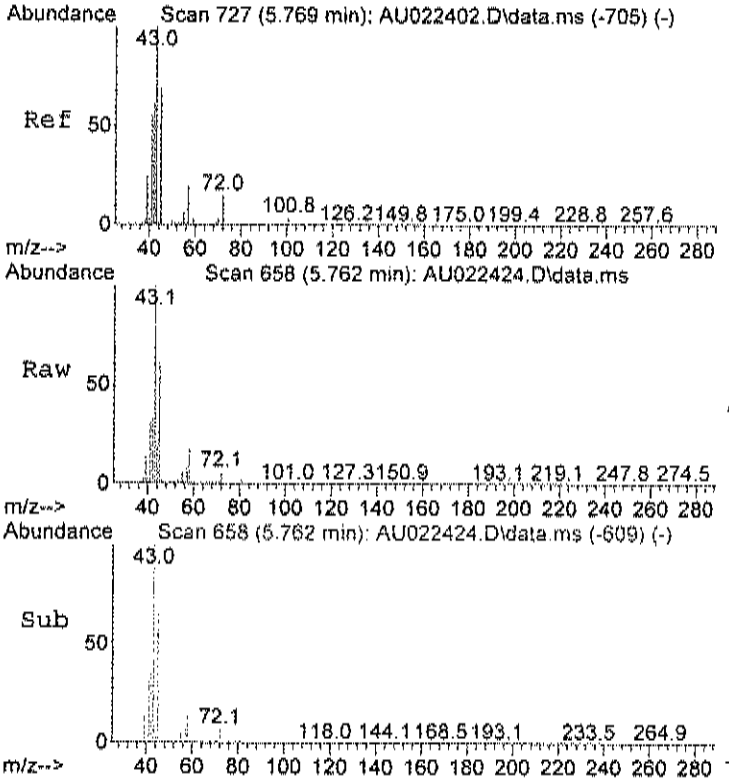


#15
Acetone
Concen: 7.80 ppb
RT: 5.660 min Scan# 624
Delta R.T. -0.007 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion: 58 Resp: 375169

Ion	Ratio	Lower	Upper
58	100		
43	283.2	236.4	296.4

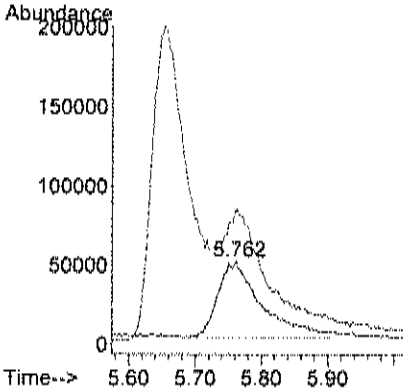


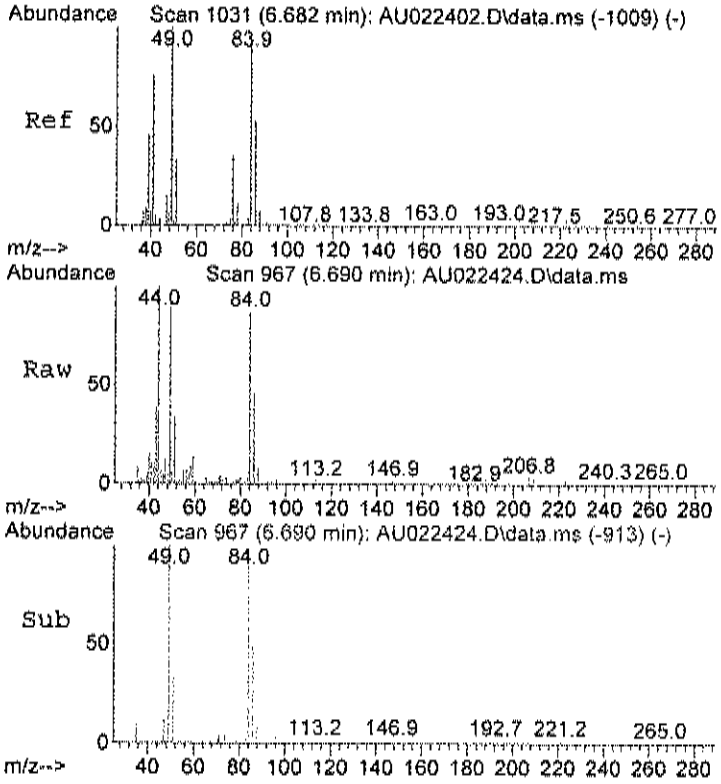


#17
Isopropyl alcohol
Concen: 1.82 ppb
RT: 5.762 min Scan# 658
Delta R.T. -0.004 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion: 45 Resp: 217729

Ion	Ratio	Lower	Upper
45	100		
43	0.0	150.3	190.3#

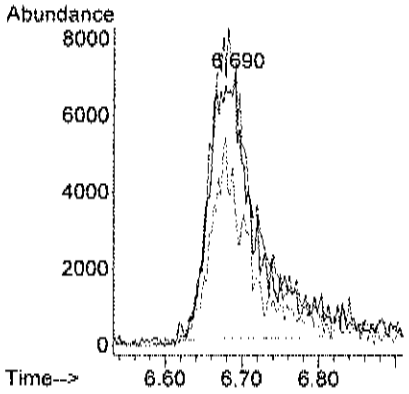


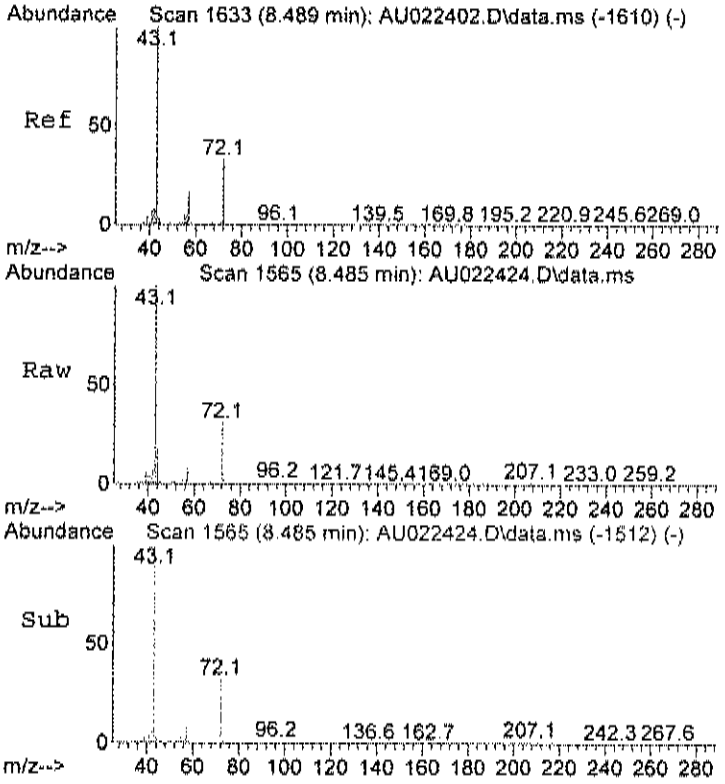


#21
Methylene chloride
Concen: 0.27 ppb
RT: 6.690 min Scan# 967
Delta R.T. 0.011 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion: 84 Resp: 28571

Ion	Ratio	Lower	Upper
84	100		
49	122.7	87.2	127.2
86	67.1	43.1	83.1

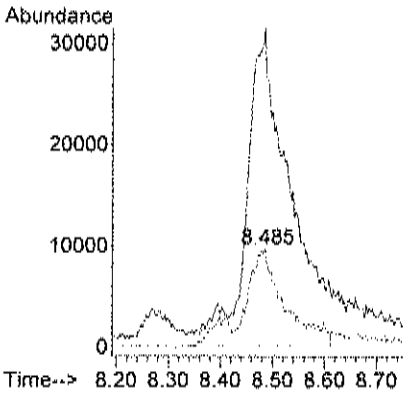


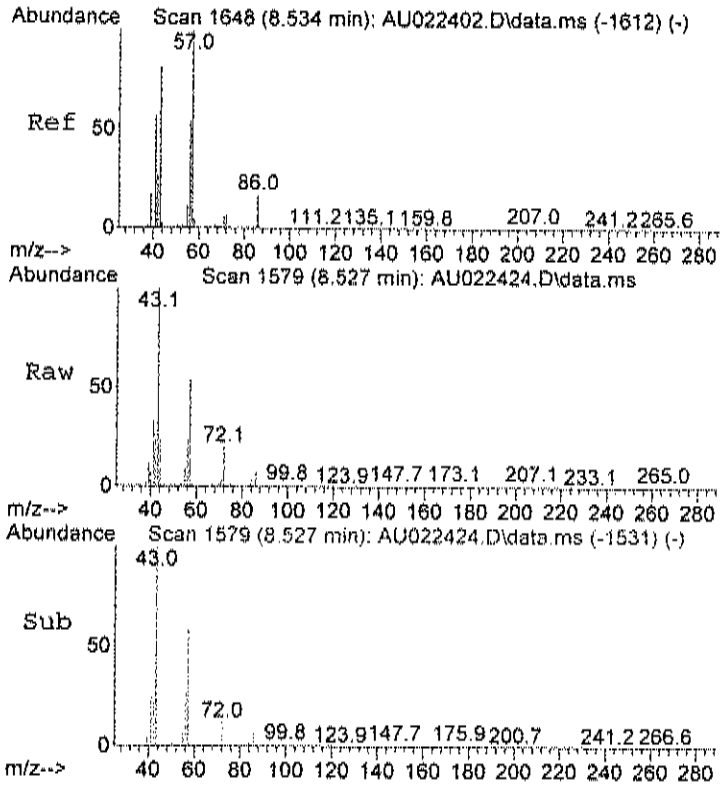


#28
Methyl Ethyl Ketone
Concen: 1.11 ppb
RT: 8.485 min Scan# 1565
Delta R.T. 0.008 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion: 72 Resp: 53801

Ion	Ratio	Lower	Upper
72	100		
43	0.0	308.8	348.8#
72	100.0	80.0	120.0

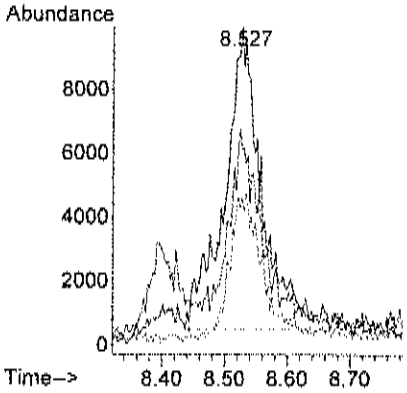


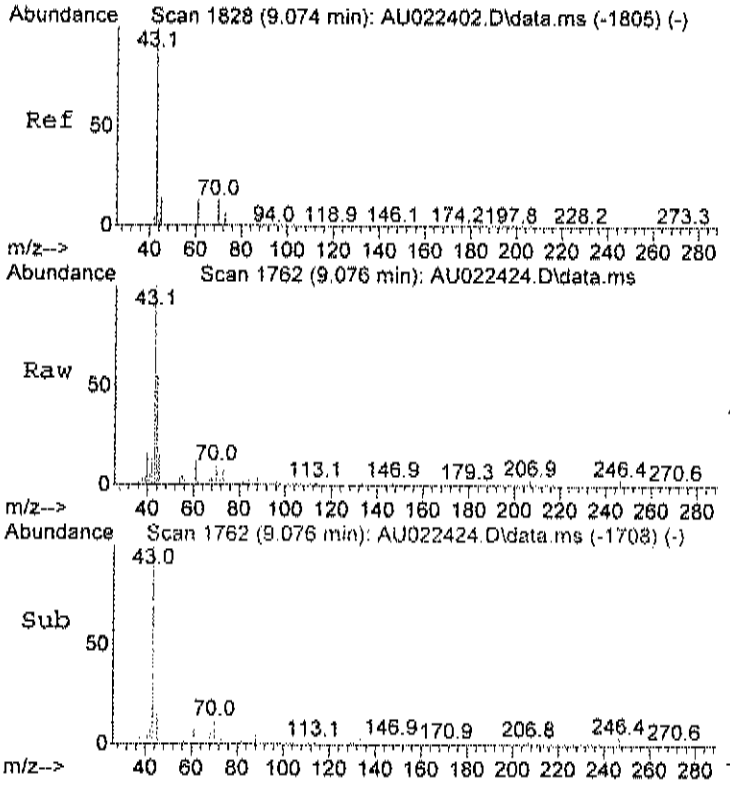


#30
Hexane
Concen: 0.21 ppb
RT: 8.527 min Scan# 1579
Delta R.T. -0.007 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion: 57 Resp: 39469

Ion	Ratio	Lower	Upper
57	100		
41	51.2	36.9	76.9
56	42.9	27.7	67.7

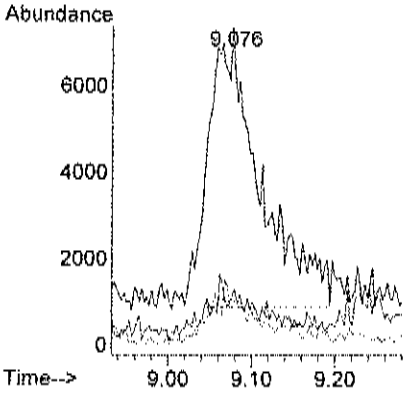


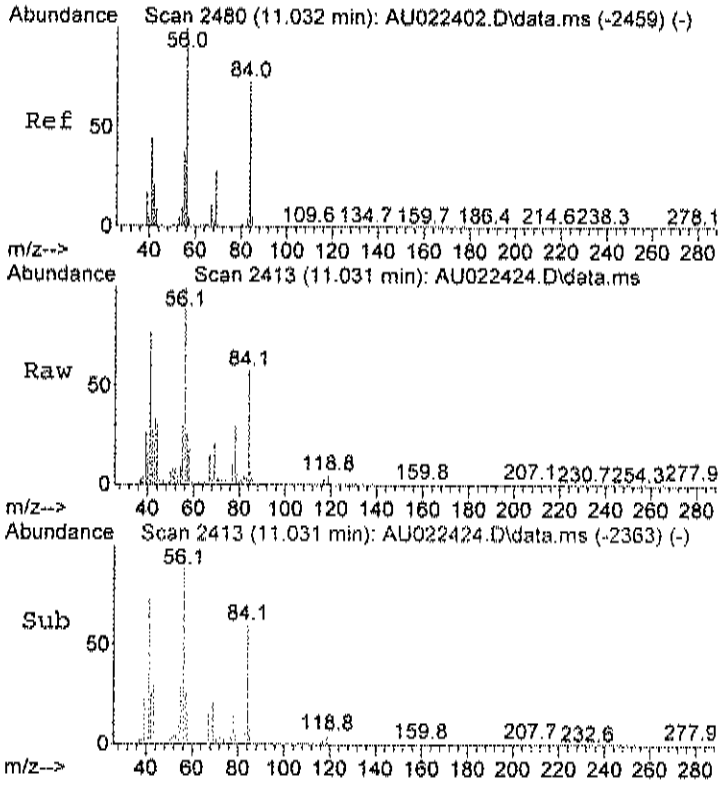


#31
Ethyl acetate
Concen: 0.12 ppb
RT: 9.076 min Scan# 1762
Delta R.T. 0.011 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion: 43 Resp: 27485

Ion	Ratio	Lower	Upper
43	100		
45	11.6	0.0	33.7
61	18.0	0.0	39.2

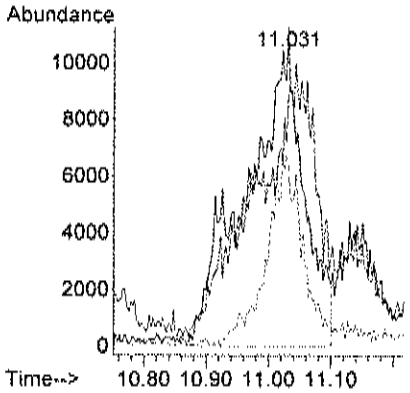


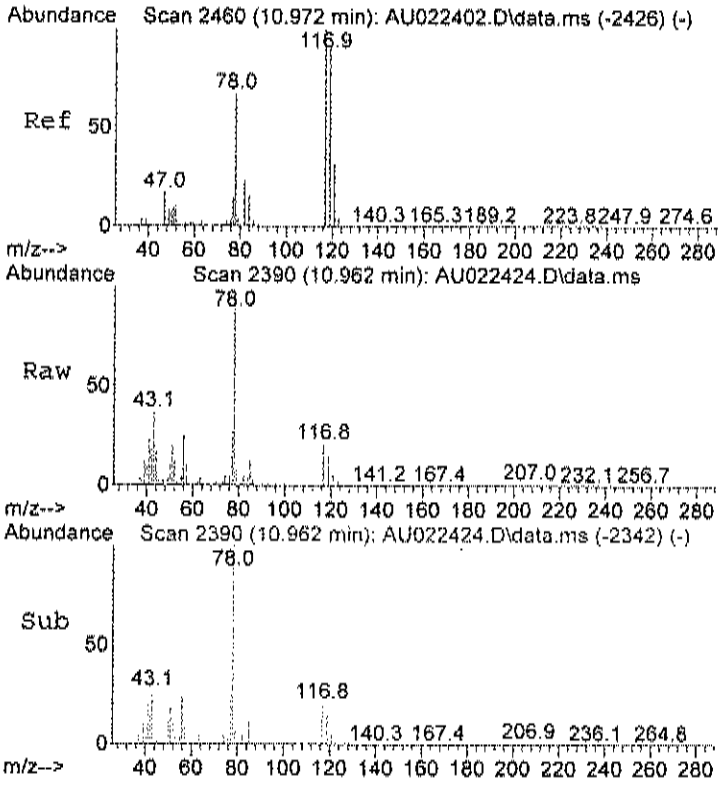


#37
Cyclohexane
Concen: 0.39 ppb m
RT: 11.031 min Scan# 2413
Delta R.T. -0.001 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion: 56 Resp: 68880

Ion	Ratio	Lower	Upper
56	100		
41	93.9	29.7	69.7#
84	40.4	68.3	108.3#

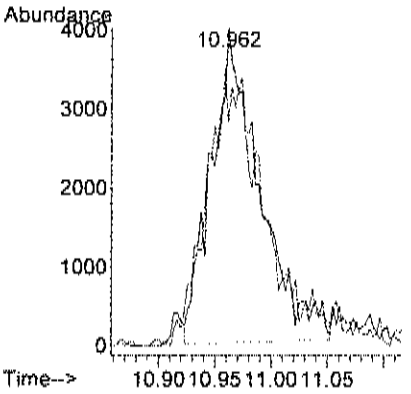


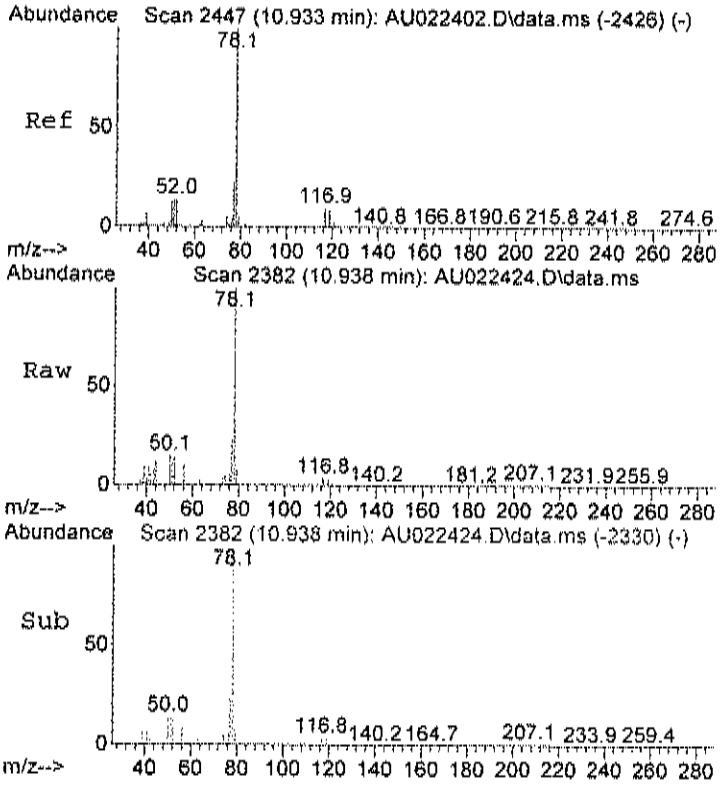


#38
Carbon tetrachloride
Concen: 0.07 ppb
RT: 10.962 min Scan# 2390
Delta R.T. -0.007 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion:117 Resp: 11993

Ion	Ratio	Lower	Upper
117	100		
119	109.6	69.2	109.2#

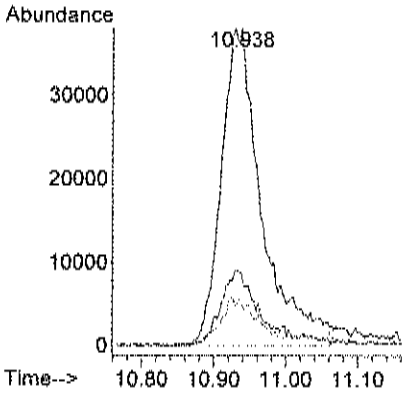


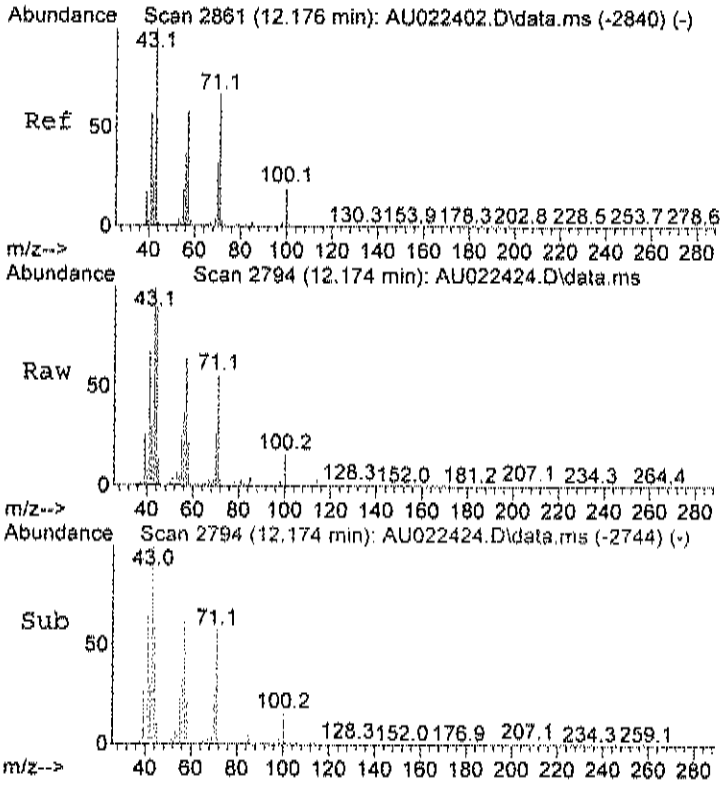


#39
Benzene
Concen: 0.42 ppb
RT: 10.938 min Scan# 2382
Delta R.T. 0.005 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion: 78 Resp: 147808

Ion	Ratio	Lower	Upper
78	100		
77	24.7	1.1	41.1
51	16.7	0.0	34.7

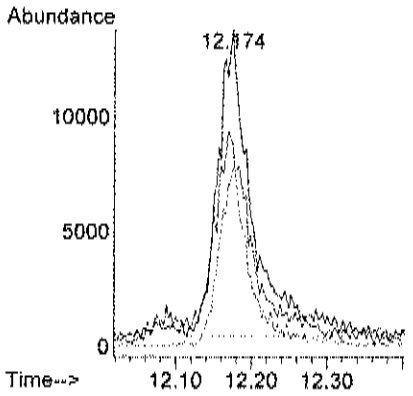


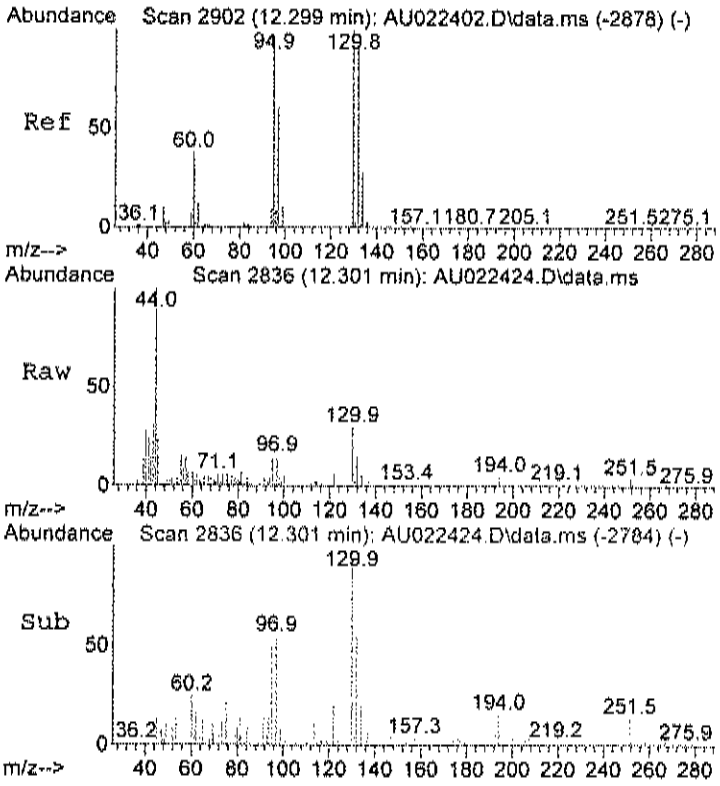


#43
Heptane
Concen: 0.26 ppb
RT: 12.174 min Scan# 2794
Delta R.T. -0.001 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion: 43 Resp: 42348

Ion	Ratio	Lower	Upper
43	100		
57	80.4	40.8	80.8
71	52.0	48.5	88.5

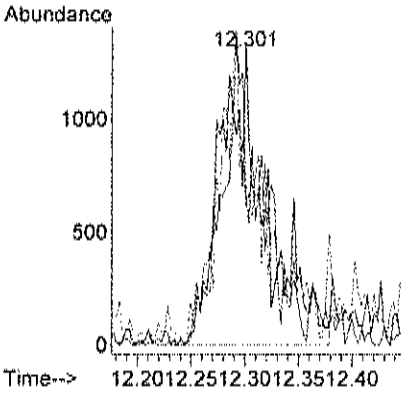


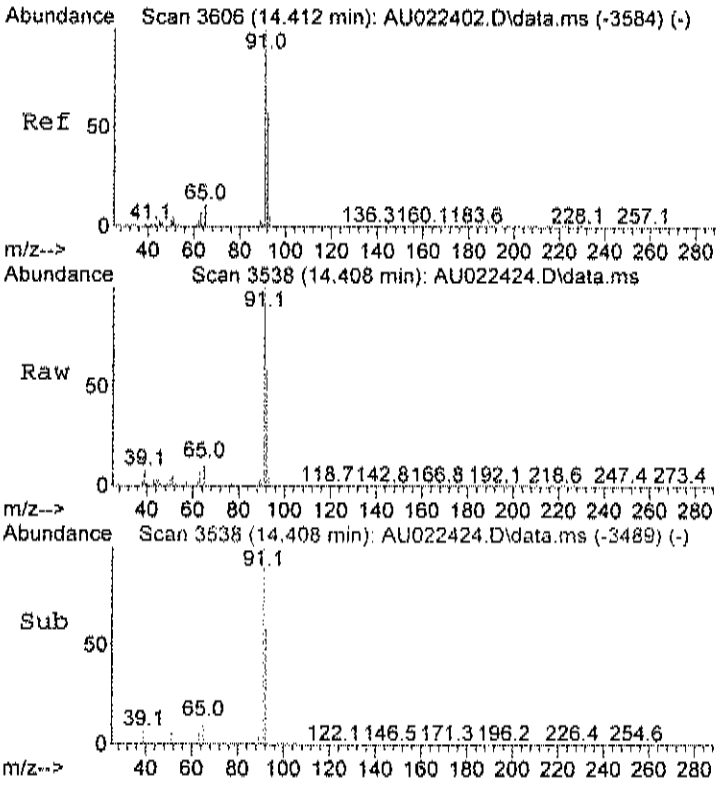


#44
Trichloroethene
Concen: 0.02 ppb
RT: 12.301 min Scan# 2836
Delta R.T. 0.005 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion:130 Resp: 3861

Ion	Ratio	Lower	Upper
130	100		
132	73.5	75.8	115.8#
95	93.1	69.5	109.5

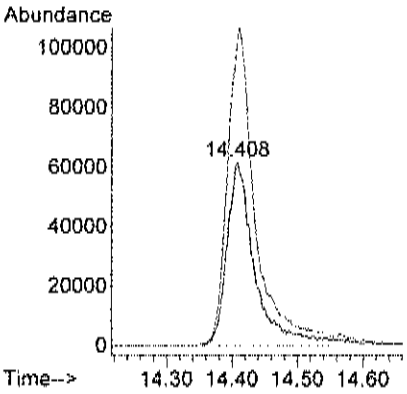


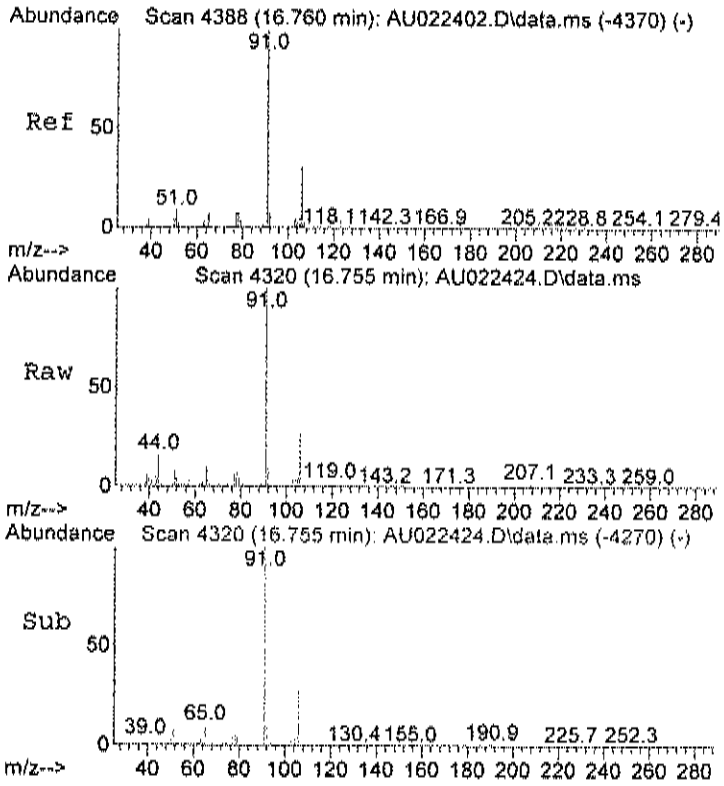


#51
Toluene
Concen: 0.82 ppb
RT: 14.408 min Scan# 3538
Delta R.T. -0.004 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion: 92 Resp: 180589

Ion	Ratio	Lower	Upper
92	100		
91	173.7	144.4	184.4

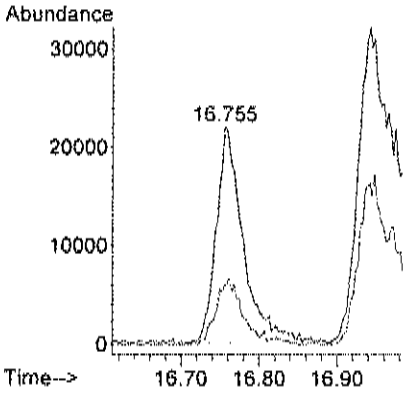


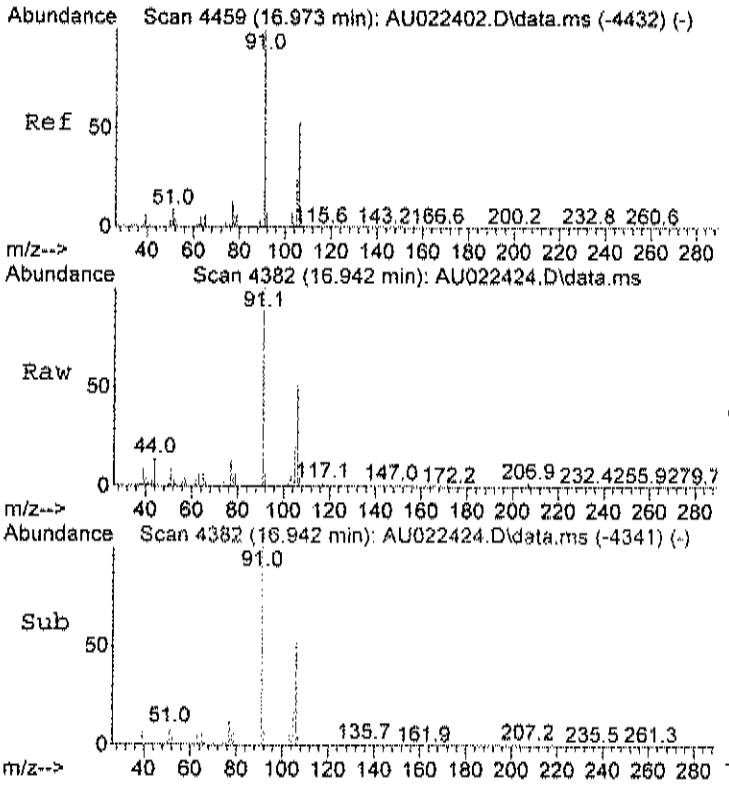


#58
Ethylbenzene
Concen: 0.12 ppb
RT: 16.755 min Scan# 4320
Delta R.T. -0.001 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion: 91 Resp: 53512

Ion	Ratio	Lower	Upper
91	100		
106	32.1	12.2	52.2

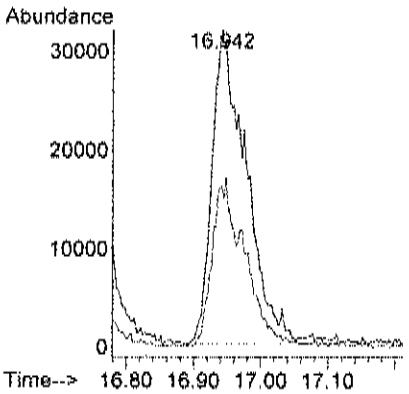


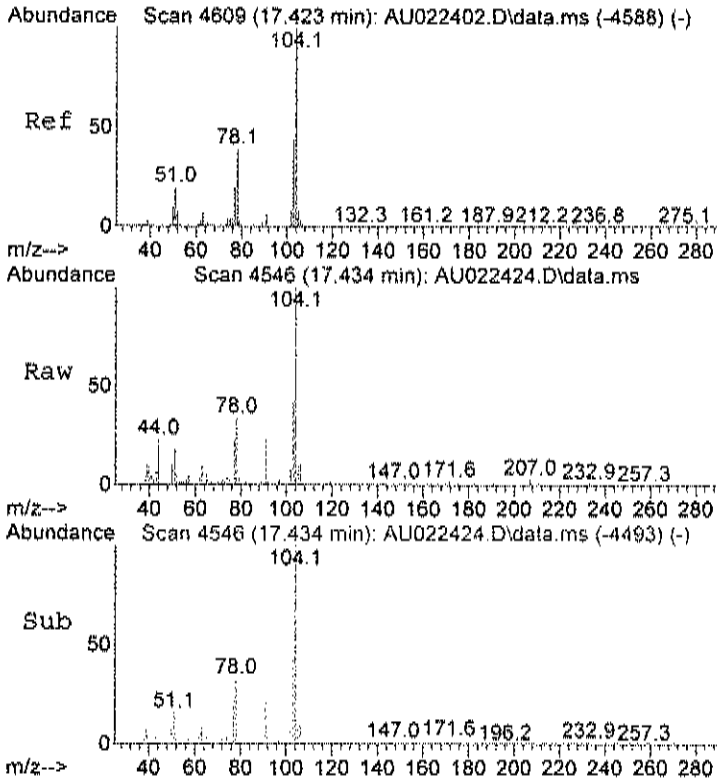


#59
m&p-xylene
Concen: 0.34 ppb
RT: 16.942 min Scan# 4382
Delta R.T. -0.028 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion: 91 Resp: 114920

Ion	Ratio	Lower	Upper
91	100		
106	50.6	32.1	72.1

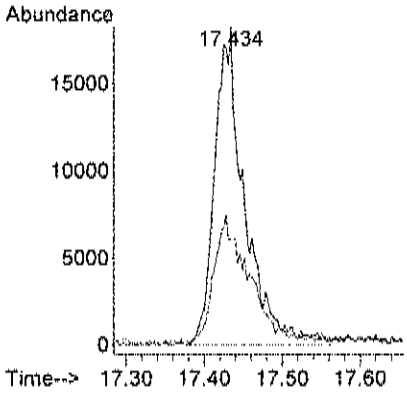


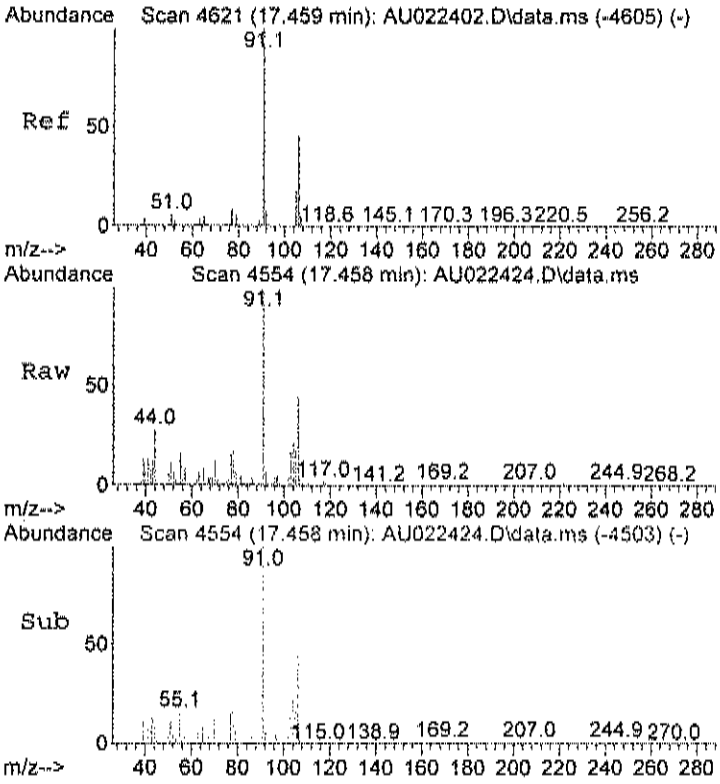


#61
Styrene
Concen: 0.20 ppb
RT: 17.434 min Scan# 4546
Delta R.T. 0.008 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion:104 Resp: 48821

Ion	Ratio	Lower	Upper
104	100		
78	45.6	19.9	59.9

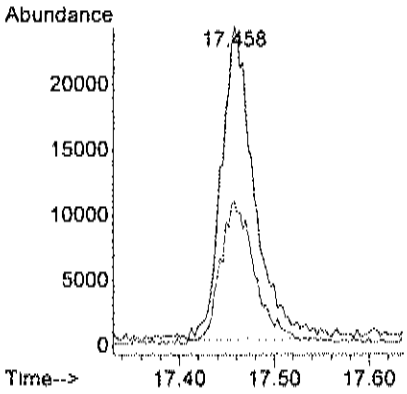


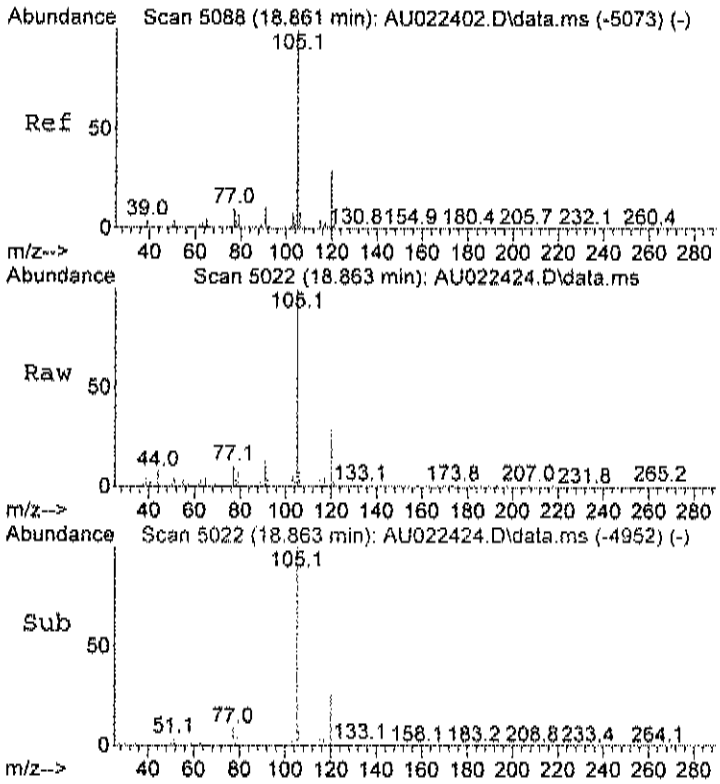


#63
o-xylene
Concen: 0.14 ppb
RT: 17.458 min Scan# 4554
Delta R.T. 0.002 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion: 91 Resp: 58147

Ion	Ratio	Lower	Upper
91	100		
106	50.5	28.7	68.7

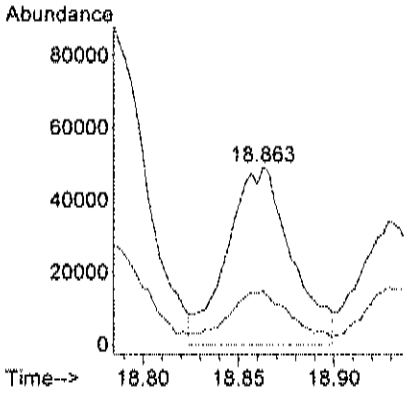


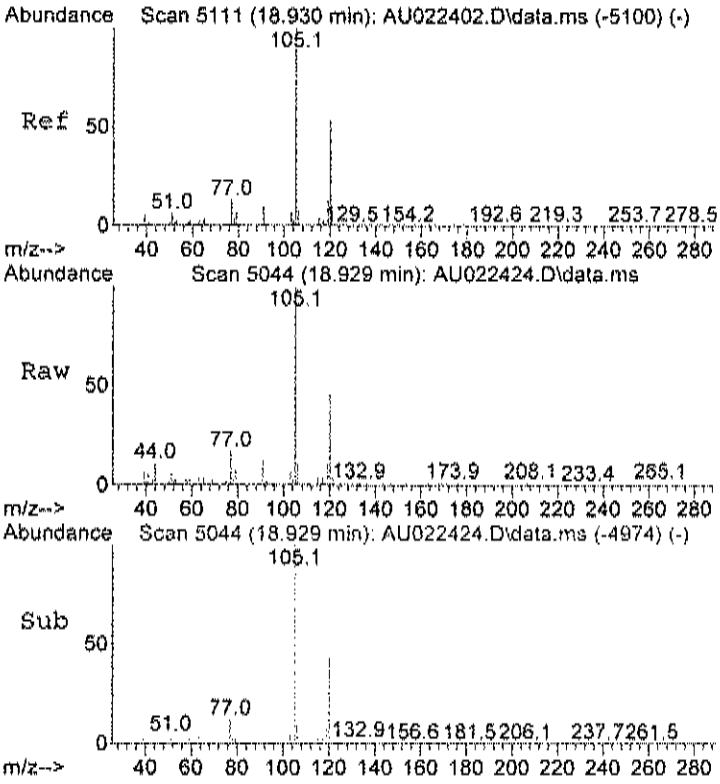


#69
4-ethyltoluene
Concen: 0.28 ppb m
RT: 18.863 min Scan# 5022
Delta R.T. 0.059 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion:105 Resp: 114195

Ion	Ratio	Lower	Upper
105	100		
120	81.9	10.3	50.3#

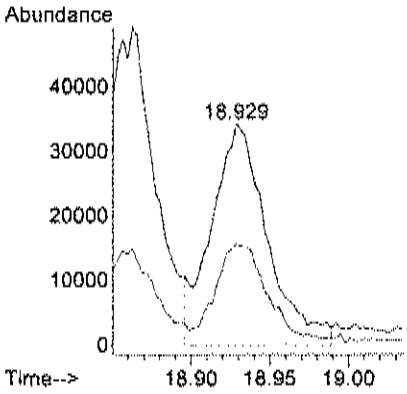


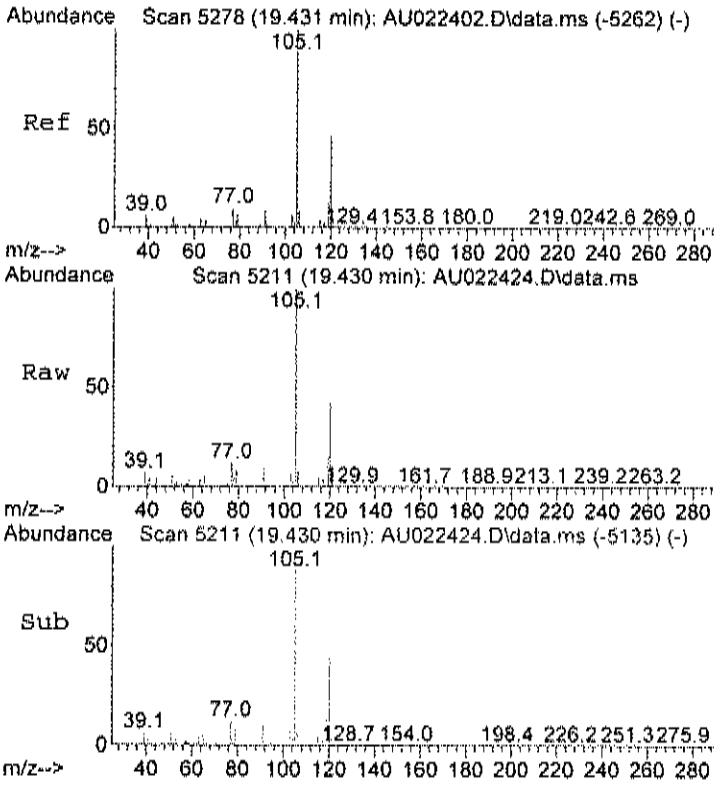


#70
1,3,5-trimethylbenzene
Concen: 0.20 ppb m
RT: 18.929 min Scan# 5044
Delta R.T. 0.059 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion:105 Resp: 83859

Ion	Ratio	Lower	Upper
105	100		
120	111.6	27.6	67.6#

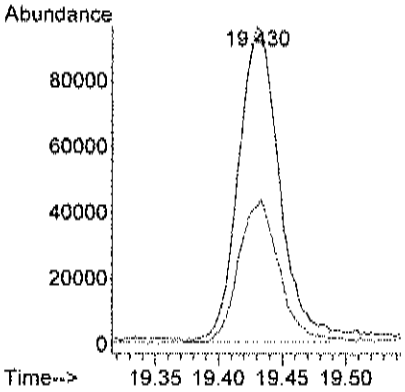




#71
1,2,4-trimethylbenzene
Concen: 0.61 ppb
RT: 19.430 min Scan# 5211
Delta R.T. 0.077 min
Lab File: AU022424.D
Acq: 25 Feb 2023 1:23 am

Tgt Ion:105 Resp: 213243

Ion	Ratio	Lower	Upper
105	100		
120	44.7	25.7	65.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022509.D
Acq On : 25 Feb 2023 3:43 pm
Operator : RJP
Sample : C2302047-002A 10X
Misc : A223_1UG
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 27 07:06:11 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

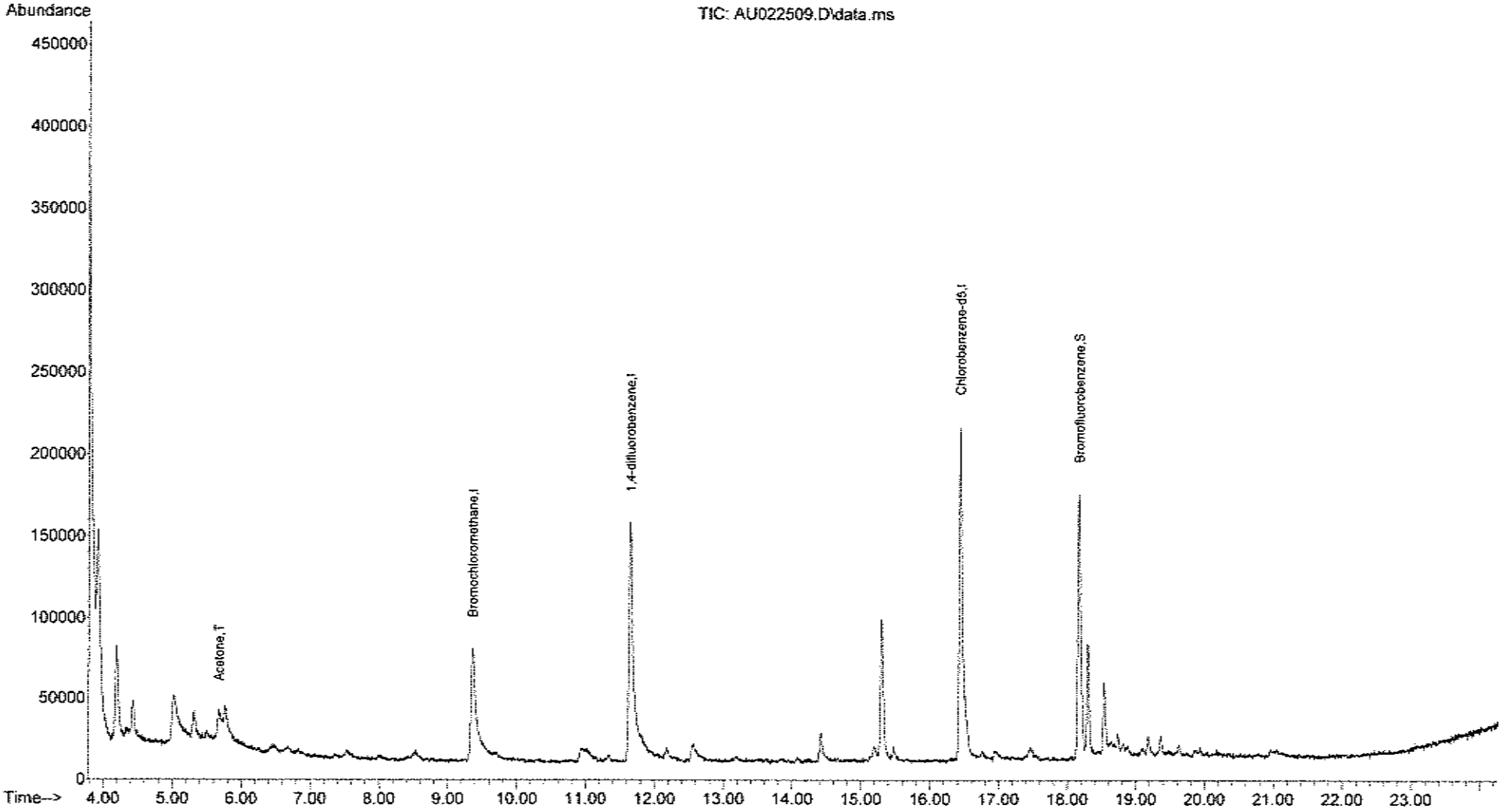
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.359	128	52746	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.649	114	271711	1.00	ppb	0.00
50) Chlorobenzene-d5	16.440	117	214717	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.172	95	108162	0.85	ppb	0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue
15) Acetone	5.672	58	25234	0.61	ppb	# 82

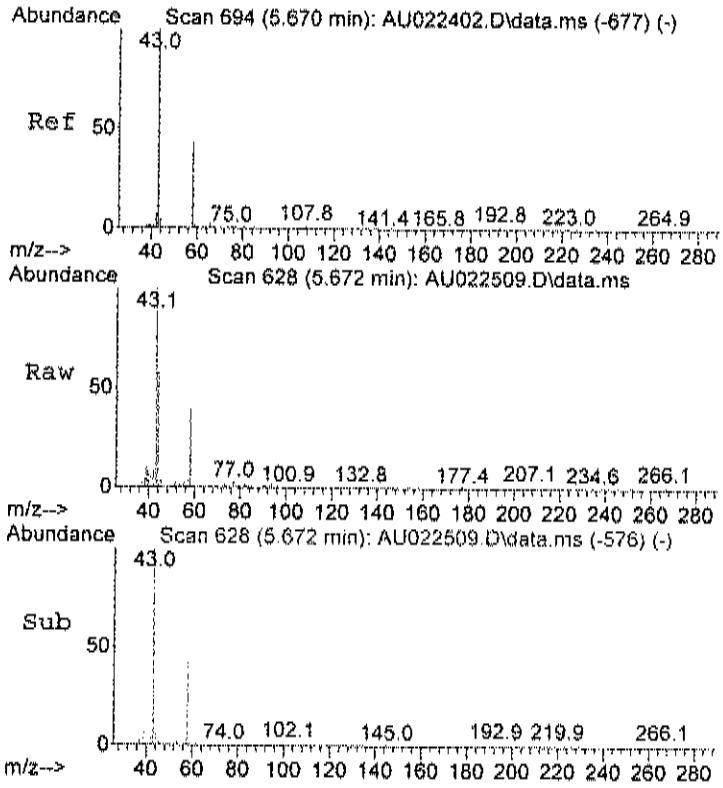
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022509.D
Acq On : 25 Feb 2023 3:43 pm
Operator : RJP
Sample : C2302047-002A 10X
Misc : A223_1UG
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 27 07:06:11 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

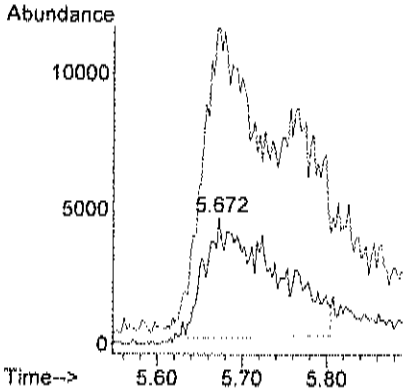




#15
Acetone
Concen: 0.61 ppb
RT: 5.672 min Scan# 628
Delta R.T. 0.005 min
Lab File: AU022509.D
Acq: 25 Feb 2023 3:43 pm

Tgt Ion: 58 Resp: 25234

Ion	Ratio	Lower	Upper
58	100		
43	298.5	236.4	296.4#



Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT: Leader Consulting Services
Lab Order: C2302047
Project: Vails Gate - Tesla
Lab ID: C2302047-003A

Client Sample ID: Trip Blank
Tag Number: 483
Collection Date: 2/21/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	+24			"Hg		2/22/2023
Lab Vacuum Out	+24			"Hg		2/22/2023
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	2/24/2023 11:55:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/24/2023 11:55:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Acetone	0.12	0.30	J	ppbV	1	2/24/2023 11:55:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Benzene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Carbon tetrachloride	< 0.030	0.030		ppbV	1	2/24/2023 11:55:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Chloroform	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	2/24/2023 11:55:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM

Qualifiers:

- . Results reported are not blank corrected
- B Analyte detected in the associated Method Blank
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Limit of Detection
- S Spike Recovery outside accepted recovery limits
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT: Leader Consulting Services
Lab Order: C2302047
Project: Vails Gate - Tesla
Lab ID: C2302047-003A

Client Sample ID: Trip Blank
Tag Number: 483
Collection Date: 2/21/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Freon 11	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Freon 113	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Freon 12	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Heptane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Hexane	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	2/24/2023 11:55:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/24/2023 11:55:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	2/24/2023 11:55:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/24/2023 11:55:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Styrene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Toluene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	2/24/2023 11:55:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/24/2023 11:55:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/24/2023 11:55:00 PM
Surr: Bromofluorobenzene	75.0	47-124		%REC	1	2/24/2023 11:55:00 PM

Qualifiers:

- `*` Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: *23-Mar-23*

CLIENT:	Leader Consulting Services	**Client Sample ID:**	Trip Blank
Lab Order:	C2302047	**Tag Number:**	483
Project:	Vails Gate - Tesla	**Collection Date:**	2/21/2023
Lab ID:	C2302047-003A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/24/2023 11:55:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/24/2023 11:55:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/24/2023 11:55:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/24/2023 11:55:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	2/24/2023 11:55:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/24/2023 11:55:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/24/2023 11:55:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/24/2023 11:55:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2023 11:55:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/24/2023 11:55:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/24/2023 11:55:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/24/2023 11:55:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/24/2023 11:55:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2023 11:55:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2023 11:55:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/24/2023 11:55:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	2/24/2023 11:55:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/24/2023 11:55:00 PM
Acetone	0.28	0.71	J	ug/m3	1	2/24/2023 11:55:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/24/2023 11:55:00 PM
Benzene	< 0.48	0.48		ug/m3	1	2/24/2023 11:55:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/24/2023 11:55:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/24/2023 11:55:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/24/2023 11:55:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/24/2023 11:55:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/24/2023 11:55:00 PM
Carbon tetrachloride	< 0.19	0.19		ug/m3	1	2/24/2023 11:55:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/24/2023 11:55:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/24/2023 11:55:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	2/24/2023 11:55:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	2/24/2023 11:55:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	2/24/2023 11:55:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/24/2023 11:55:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	2/24/2023 11:55:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/24/2023 11:55:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	2/24/2023 11:55:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	2/24/2023 11:55:00 PM
Freon 11	< 0.84	0.84		ug/m3	1	2/24/2023 11:55:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	2/24/2023 11:55:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/24/2023 11:55:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

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1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		**TO-15**				Analyst: **RJP**
Freon 12	< 0.74	0.74		ug/m3	1	2/24/2023 11:55:00 PM
Heptane	< 0.61	0.61		ug/m3	1	2/24/2023 11:55:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/24/2023 11:55:00 PM
Hexane	< 0.53	0.53		ug/m3	1	2/24/2023 11:55:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	2/24/2023 11:55:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	2/24/2023 11:55:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/24/2023 11:55:00 PM
Methyl Ethyl Ketone	< 0.88	0.88		ug/m3	1	2/24/2023 11:55:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/24/2023 11:55:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/24/2023 11:55:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	2/24/2023 11:55:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	2/24/2023 11:55:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/24/2023 11:55:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/24/2023 11:55:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/24/2023 11:55:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/24/2023 11:55:00 PM
Toluene	< 0.57	0.57		ug/m3	1	2/24/2023 11:55:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/24/2023 11:55:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/24/2023 11:55:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	2/24/2023 11:55:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/24/2023 11:55:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/24/2023 11:55:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/24/2023 11:55:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
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- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022422.D
Acq On : 24 Feb 2023 11:55 pm
Operator : RJP
Sample : C2302047-003A
Misc : A223_1UG
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 25 09:29:46 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

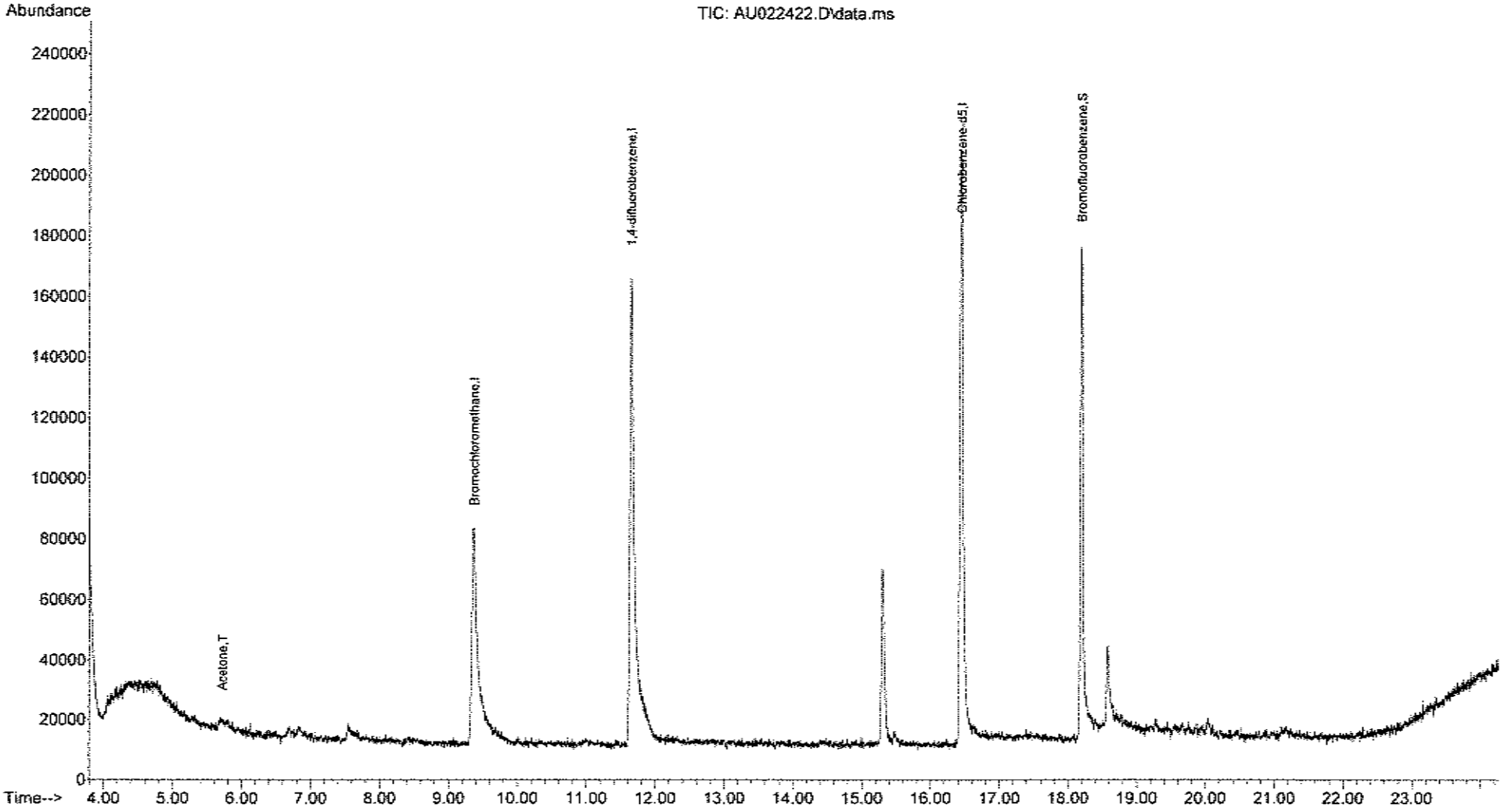
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.370	128	54664	1.00	ppb	# 0.01
35) 1,4-difluorobenzene	11.649	114	303851	1.00	ppb	0.00
50) Chlorobenzene-d5	16.443	117	216169	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.190	95	96399	0.75	ppb	0.03
Spiked Amount 1.000	Range 70 - 130		Recovery = 75.00%			
Target Compounds						Qvalue
15) Acetone	5.717	58	5300	0.12	ppb	87

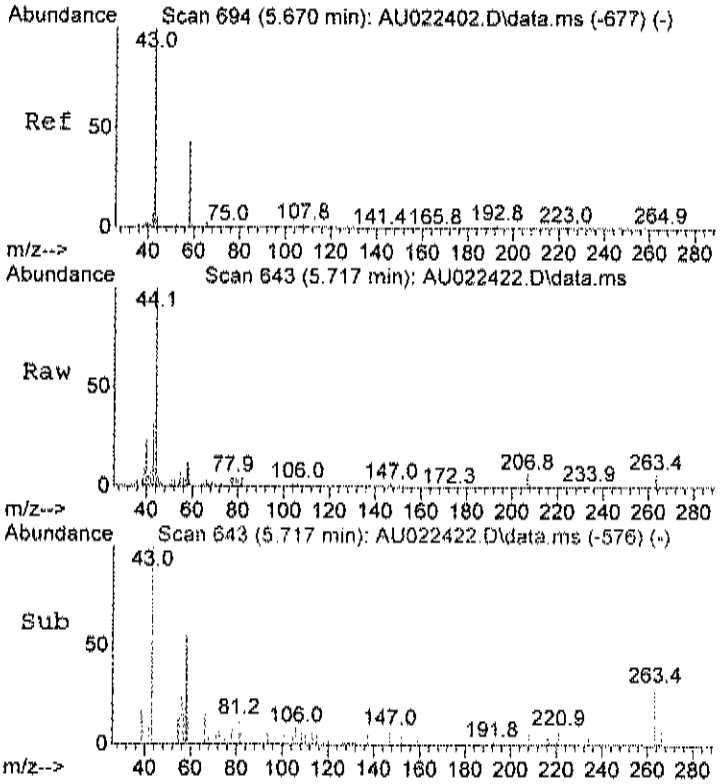
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022422.D
Acq On : 24 Feb 2023 11:55 pm
Operator : RJP
Sample : C2302047-003A
Misc : A223_1UG
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 25 09:29:46 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

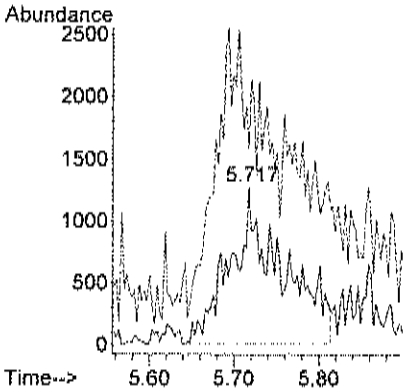




#15
Acetone
Concen: 0.12 ppb
RT: 5.717 min Scan# 643
Delta R.T. 0.050 min
Lab File: AU022422.D
Acq: 24 Feb 2023 11:55 pm

Tgt Ion: 58 Resp: 5300

Ion	Ratio	Lower	Upper
58	100		
43	242.0	236.4	296.4



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report Instrument 1

Method Path : C:\msdchem\1\methods\
Method File : A223_1UG.M
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 03 13:46:17 2023
Response Via : Initial Calibration

Calibration Files
0.03=AU023219.D 0.04=AU023218.D 0.10=AU023217.D 0.15=AU023220.D 0.30=AU023221.D 0.50=AU023222.D 0.75=AU023223.D
1.0 =AU023224.D 1.25=AU023225.D 1.50=AU023226.D 2.0 =AU023227.D

		Compound	0.03	0.04	0.10	0.15	0.30	0.50	0.75	1.0	1.25	1.50	2.0	Avg	%RSD
1)	I	Bromochloromethane	ISTD												
2)	T	Propylene			1.107	1.303	1.251	1.260	1.211	1.196	1.180	1.154	1.208		5.20
3)	T	Freon 12			4.874	4.901	4.547	4.680	4.340	4.294	4.349	4.303	4.536		5.62
4)	T	Chloromethane			1.548	1.591	1.564	1.518	1.464	1.423	1.460	1.423	1.499		4.36
5)	T	Freon 114			4.874	4.901	4.547	4.680	4.340	4.294	4.349	4.303	4.536		5.62
6)	T	Vinyl Chloride	1.168	1.486	1.581	1.513	1.483	1.471	1.420	1.258	1.385	1.378	1.414		8.73
7)	T	Butane			1.714	1.681	1.476	1.560	1.555	1.363	1.392	1.448	1.524		8.40
8)	T	1,3-butadiene			1.154	1.061	0.997	0.856	0.916	0.985	0.939	0.941	0.981		9.44
9)	T	Bromomethane			1.522	1.578	1.476	1.407	1.446	1.391	1.417	1.353	1.449		5.10
10)	T	Chloroethane			0.663	0.627	0.648	0.688	0.663	0.642	0.640	0.621	0.649		3.36
11)	T	Ethanol			1.971	2.338	2.198	2.125	1.909	1.908	1.813	1.872	2.017		9.10
12)	T	Acrolein			0.219	0.301	0.289	0.263	0.239	0.269	0.242	0.252	0.259		10.35
13)	T	Vinyl Bromide			1.466	1.317	1.512	1.338	1.329	1.314	1.318	1.299	1.362		5.90
14)	T	Freon 11			4.945	4.870	4.834	3.821	4.159	4.161	4.086	4.018	4.362		10.22
15)	T	Acetone			1.029	0.864	0.909	0.786	0.690	0.679	0.627	0.655	0.780		18.33
16)	T	Pentane			1.610	1.554	1.430	1.315	1.309	1.286	1.164	1.172	1.355		12.11
17)	T	Isopropyl alcohol			1.971	2.338	2.198	1.545	1.909	1.908	1.813	1.872	1.944		12.37
18)	T	1,1-dichloroet...	1.443	1.566	1.583	1.898	1.814	1.894	1.832	1.742	1.817	1.791	1.738		8.88
19)	T	Freon 113			4.371	4.327	4.280	4.216	4.170	4.090	4.098	4.028	4.198		2.92
20)	t	t-Butyl alcohol			3.376	3.249	3.370	3.342	3.320	3.302	3.335	3.270	3.321		1.36
21)	T	Methylene chlo...			2.049	1.822	1.723	1.668	1.645	1.588	1.609	1.561	1.708		9.41
22)	T	Allyl chloride			1.555	1.588	1.696	1.714	1.635	1.669	1.658	1.654	1.646		3.22
23)	T	Carbon disulfide			5.513	4.846	4.525	4.057	4.416	4.443	4.376	4.273	4.556		9.80
24)	T	trans-1,2-dich...			2.076	2.177	2.147	1.787	2.121	2.151	2.150	2.134	2.093		6.06
25)	T	methyl tert-bu...			4.942	5.098	4.818	5.001	4.993	4.953	4.945	4.892	4.955		1.65
26)	T	1,1-dichloroet...			3.492	3.377	3.328	3.494	3.343	3.329	3.357	3.332	3.381		2.09
27)	T	Vinyl acetate			1.432	1.526	1.491	1.745	1.705	1.686	1.730	1.748	1.633		7.86
28)	T	Methyl Ethyl K...			0.686	0.695	0.823	0.821	0.775	0.825	0.814	0.837	0.785		7.74
29)	T	cis-1,2-dichlo...	2.403	2.218	2.138	2.007	2.182	1.835	1.972	1.958	1.976	1.983	2.067		8.02
30)	T	Hexane			3.035	3.038	3.044	3.143	3.069	3.107	3.123	3.119	3.085		1.40
31)	T	Ethyl acetate			3.525	3.475	3.764	3.847	3.839	3.781	3.889	3.929	3.756		4.45
32)	T	Chloroform			3.872	3.823	3.867	3.842	3.730	3.760	3.757	3.686	3.792		1.81
33)	T	Tetrahydrofuran			1.632	1.476	1.408	1.580	1.446	1.577	1.573	1.545	1.530		5.06
34)	T	1,2-dichloroet...			2.045	2.058	2.049	2.086	2.056	2.039	2.081	2.061	2.059		0.80
35)	I	1,4-difluorobenzene	ISTD												
36)	T	1,1,1-trichlor...			0.594	0.638	0.602	0.608	0.596	0.602	0.600	0.591	0.604		2.41
37)	T	Cyclohexane			0.547	0.538	0.514	0.507	0.492	0.516	0.510	0.508	0.516		3.43

Method Path : C:\msdchem\1\methods\
Method File : A223_1UG.M
Title : TO-15 VOA Standards for 5 point calibration

38)	T	Carbon tetrach...	0.466	0.522	0.516	0.513	0.540	0.531	0.526	0.524	0.521	0.533	0.530	0.520	3.75
39)	T	Benzene				1.062	1.034	1.031	1.024	1.031	1.024	1.022	1.023	1.031	1.28
40)	T	Methyl methacr...				0.251	0.361	0.274	0.286	0.307	0.301	0.309	0.311	0.300	10.73
41)	T	1,4-dioxane				0.238	0.225	0.211	0.215	0.221	0.214	0.219	0.215	0.220	3.95
42)	T	2,2,4-trimethy...				1.498	1.637	1.629	1.606	1.601	1.589	1.603	1.598	1.595	2.65
43)	T	Heptane				0.455	0.502	0.476	0.486	0.499	0.492	0.503	0.508	0.490	3.62
44)	T	Trichloroethene	0.549	0.754	0.607	0.439	0.434	0.427	0.426	0.423	0.415	0.417	0.419	0.483	22.73
45)	T	1,2-dichloropr...				0.434	0.418	0.407	0.390	0.402	0.387	0.391	0.391	0.403	4.10
46)	T	Bromodichlorom...				0.546	0.599	0.588	0.584	0.575	0.591	0.592	0.596	0.584	2.93
47)	T	cis-1,3-dichlo...				0.384	0.397	0.396	0.406	0.420	0.424	0.433	0.443	0.413	4.89
48)	T	trans-1,3-dich...				0.278	0.282	0.279	0.300	0.305	0.313	0.327	0.332	0.302	7.00
49)	T	1,1,2-trichlor...				0.423	0.421	0.427	0.417	0.413	0.416	0.415	0.408	0.418	1.42
50)	I	Chlorobenzene-d5	----------			ISTD	----------								
51)	T	Toluene				0.868	0.868	0.848	0.840	0.826	0.843	0.847	0.852	0.849	1.66
52)	T	Methyl Isobuty...				0.714	0.722	0.742	0.733	0.723	0.730	0.744	0.734	0.730	1.41
53)	T	Dibromochlorom...				0.524	0.564	0.576	0.583	0.574	0.584	0.602	0.611	0.577	4.57
54)	T	Methyl Butyl K...				0.539	0.491	0.538	0.541	0.561	0.568	0.591	0.586	0.552	5.81
55)	T	1,2-dibromoethane				0.677	0.632	0.659	0.656	0.644	0.653	0.657	0.645	0.653	2.03
56)	T	Tetrachloroeth...				0.603	0.617	0.596	0.579	0.556	0.554	0.556	0.546	0.576	4.64
57)	T	Chlorobenzene				1.116	1.103	1.100	1.092	1.085	1.085	1.104	1.086	1.096	1.02
58)	T	Ethylbenzene				1.615	1.710	1.745	1.753	1.763	1.779	1.836	1.824	1.753	3.95
59)	T	m&p-xylene				1.145	1.254	1.283	1.328	1.334	1.351	1.379	1.399	1.309	6.22
60)	T	Nonane				0.739	0.793	0.823	0.841	0.835	0.853	0.875	0.874	0.829	5.47
61)	T	Styrene				0.766	0.823	0.907	0.933	0.931	0.964	1.004	1.045	0.922	9.88
62)	T	Bromoform				0.418	0.435	0.457	0.469	0.479	0.494	0.516	0.538	0.476	8.40
63)	T	o-xylene				1.407	1.504	1.600	1.567	1.568	1.554	1.591	1.623	1.552	4.40
64)	T	Cumene				1.779	1.896	1.932	1.972	1.948	2.001	2.050	2.124	1.963	5.26
65)	S	Bromofluoroben...	0.533	0.530	0.539	0.558	0.571	0.596	0.626	0.631	0.624	0.661	0.676	0.595	8.76
66)	T	1,1,2,2-tetrac...				0.999	1.008	1.044	1.036	1.038	1.037	1.067	1.062	1.036	2.27
67)	T	Propylbenzene				0.430	0.426	0.482	0.512	0.503	0.521	0.535	0.567	0.497	9.87
68)	T	2-Chlorotoluene				0.415	0.453	0.464	0.474	0.475	0.480	0.490	0.521	0.472	6.49
69)	T	4-ethyltoluene				1.245	1.360	1.521	1.648	1.674	1.667	1.780	1.854	1.594	12.95
70)	T	1,3,5-trimethy...				1.754	1.553	1.450	1.635	1.647	1.669	1.538	1.642	1.611	5.81
71)	T	1,2,4-trimethy...				1.040	1.198	1.291	1.364	1.358	1.396	1.465	1.576	1.336	12.26
72)	T	1,3-dichlorobe...				0.521	0.608	0.702	0.757	0.773	0.802	0.847	0.901	0.739	16.92
73)	T	benzyl chloride				0.193	0.176	0.188	0.238	0.295	0.330	0.369	0.329	0.265	28.44
74)	T	1,4-dichlorobe...				0.444	0.540	0.620	0.692	0.710	0.724	0.792	0.865	0.674	20.10
75)	T	1,2,3-trimethy...				1.042	1.212	1.355	1.432	1.430	1.453	1.530	1.631	1.386	13.33
76)	T	1,2-dichlorobe...				0.515	0.617	0.700	0.748	0.752	0.806	0.853	0.850	0.730	16.06
77)	T	1,2,4-trichlor...				0.104	0.126	0.181	0.143	0.191	0.174	0.211	0.208	0.167	23.42
78)	T	Naphthalene			0.346	0.314	0.314	0.397	0.347	0.332	0.376	0.456	0.457	0.371	14.96
79)	T	Hexachloro-1,3...				0.655	0.652	0.675	0.684	0.675	0.686	0.713	0.738	0.685	4.20

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022317.D
Acq On : 23 Feb 2023 10:25 pm
Operator : RJP
Sample : A1UG_0.10
Misc : A223_1UG
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 24 07:50:22 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D

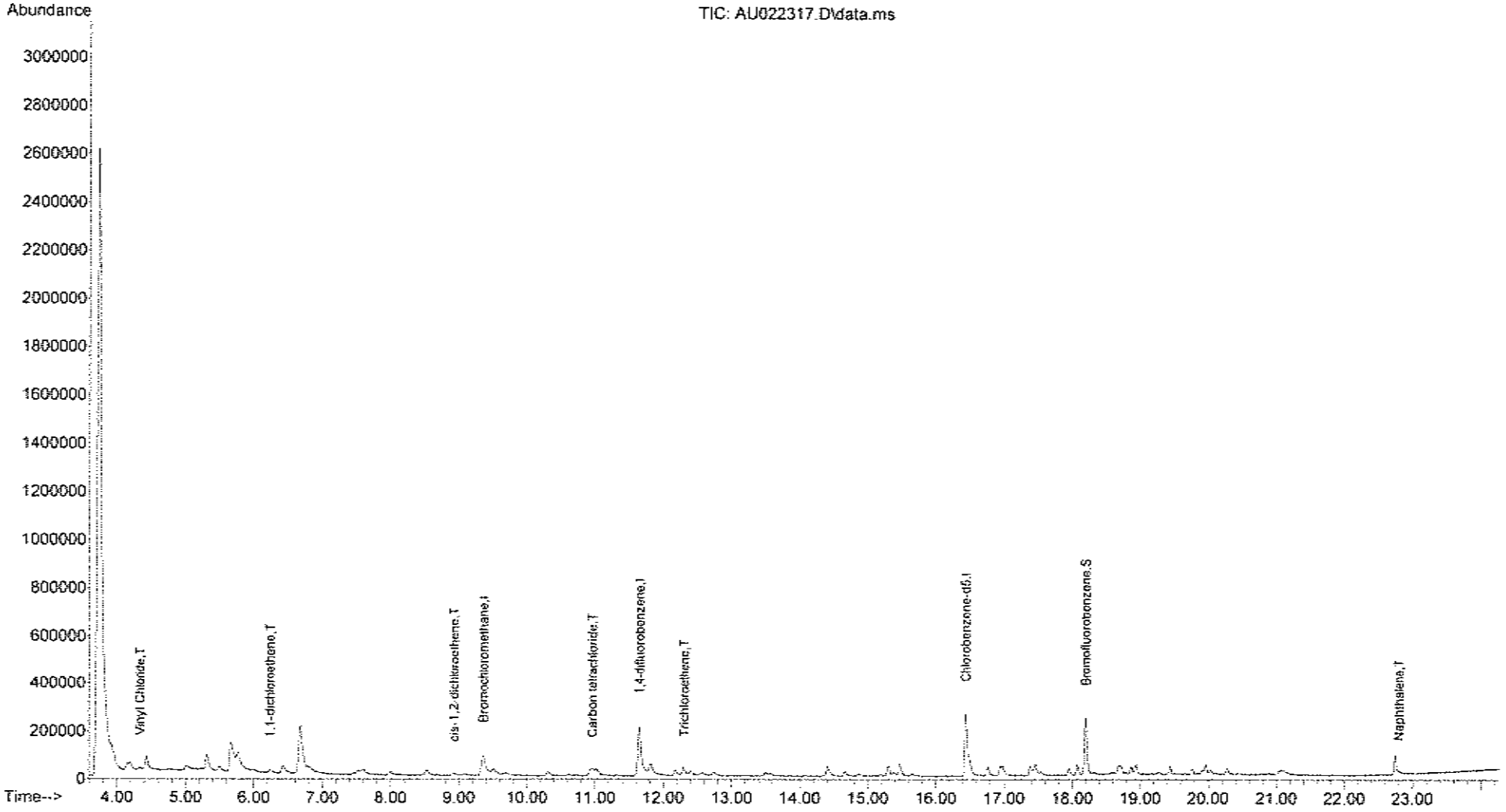
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.360	128	63211	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.650	114	364973	1.00	ppb	0.00
50) Chlorobenzene-d5	16.435	117	280628	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.194	95	151390	0.90	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	4.331	62	9391	0.12	ppb	96
18) 1,1-dichloroethene	6.231	96	9897	0.10	ppb	93
29) cis-1,2-dichloroethene	8.927	61	14023m	0.12	ppb	
38) Carbon tetrachloride	10.963	117	18824	0.10	ppb	93
44) Trichloroethene	12.301	130	22153m	0.14	ppb	
78) Naphthalene	22.796	128	9697m	0.10	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022317.D
Acq On : 23 Feb 2023 10:25 pm
Operator : RJP
Sample : A1UG_0.10
Misc : A223_1UG
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 24 07:50:22 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022318.D
Acq On : 23 Feb 2023 11:07 pm
Operator : RJP
Sample : A1UG_0.04
Misc : A223_1UG
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 24 07:49:58 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D

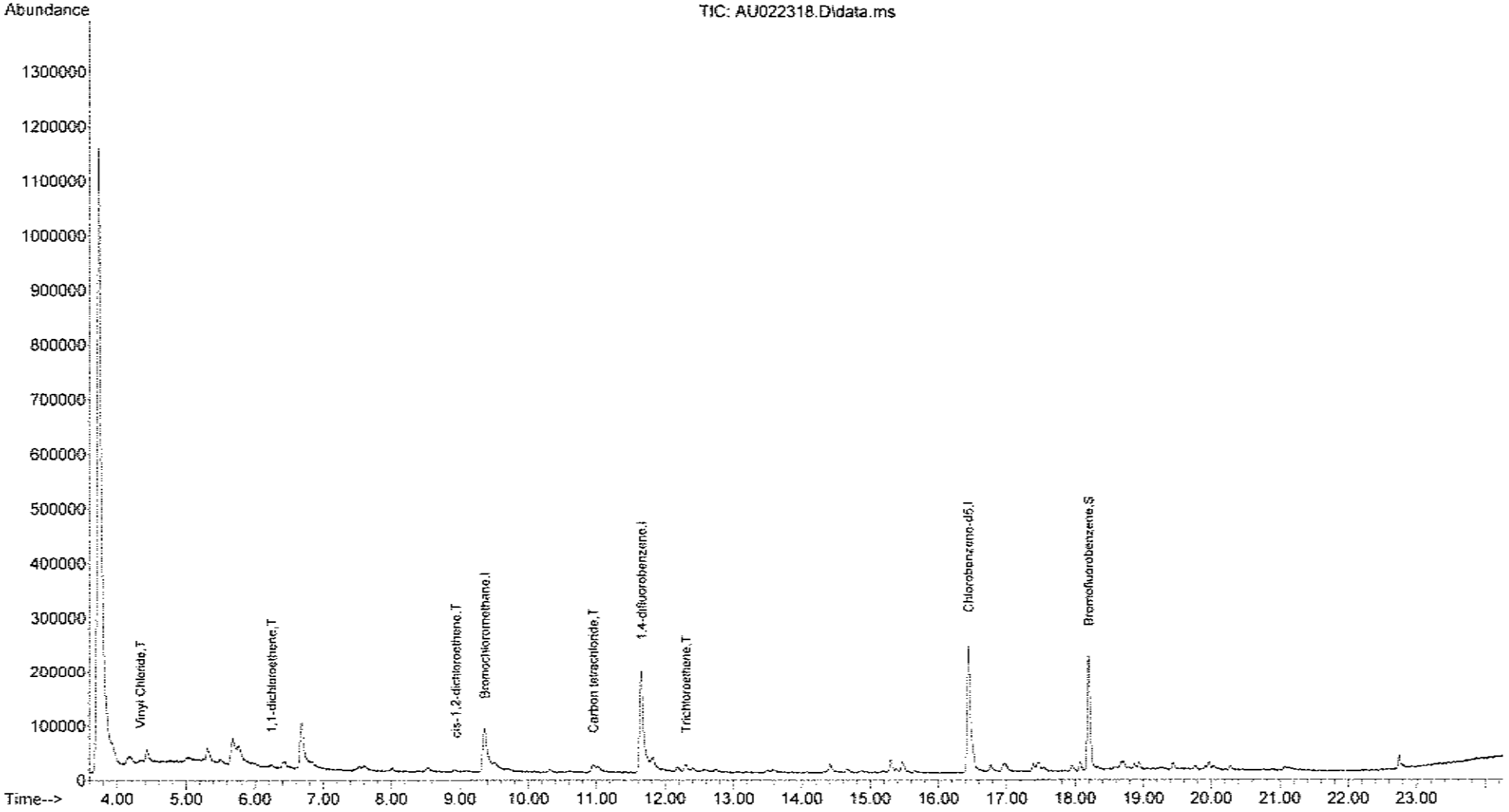
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.365	128	59612	1.00	ppb	0.01
35) 1,4-difluorobenzene	11.653	114	347162	1.00	ppb	0.00
50) Chlorobenzene-d5	16.441	117	267185	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.197	95	141518	0.88	ppb	0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	4.334	62	2786	0.04	ppb	72
18) 1,1-dichloroethene	6.246	96	3441	0.04	ppb	95
29) cis-1,2-dichloroethene	8.942	61	5729m	0.05	ppb	
38) Carbon tetrachloride	10.954	117	7255	0.04	ppb	96
44) Trichloroethene	12.301	130	10465	0.07	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022318.D
Acq On : 23 Feb 2023 11:07 pm
Operator : RJP
Sample : A1UG_0.04
Misc : A223_1UG
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 24 07:49:58 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022319.D
Acq On : 23 Feb 2023 11:49 pm
Operator : RJP
Sample : A1UG_0.03
Misc : A223_1UG
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 24 07:49:19 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D

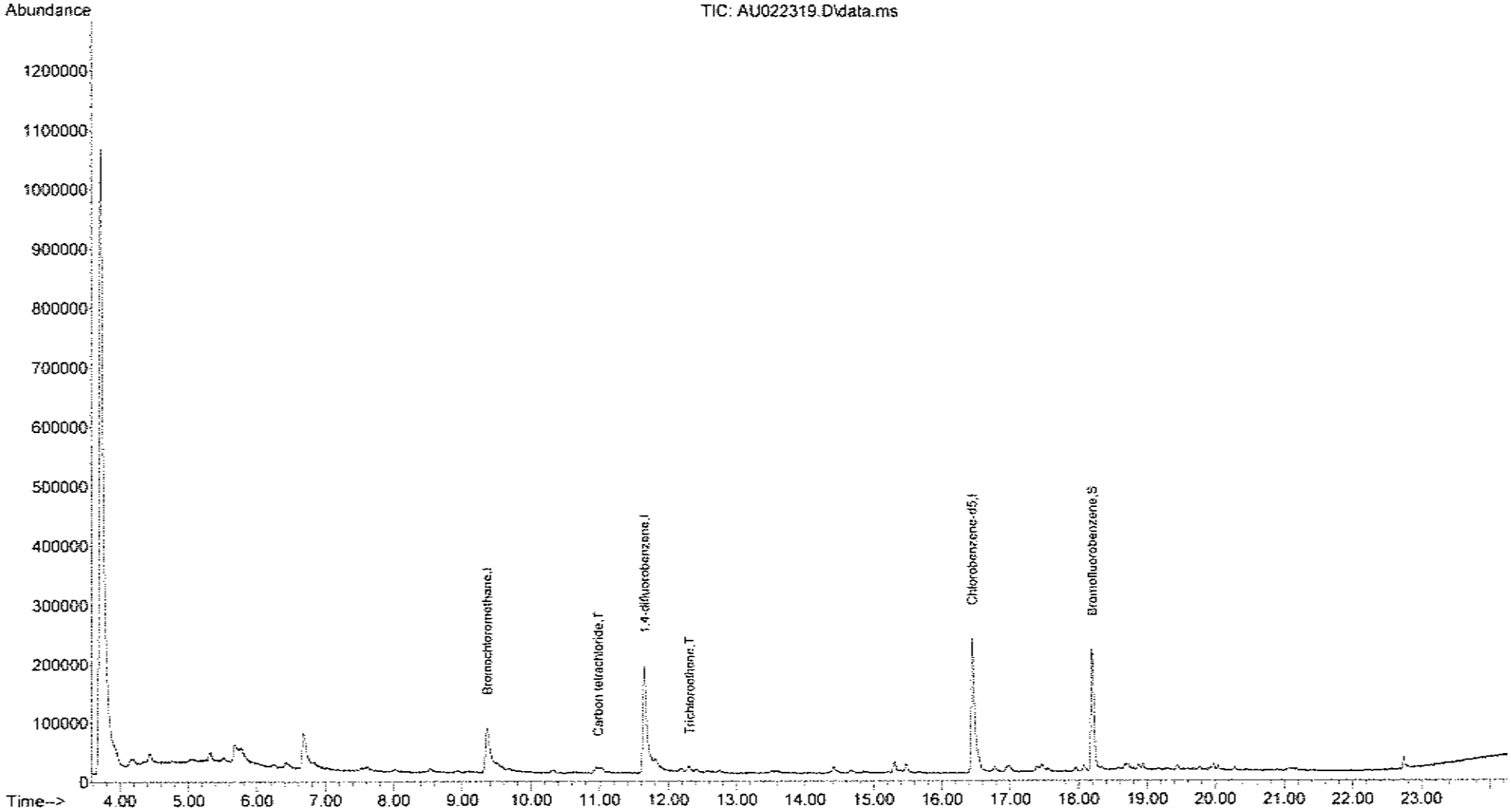
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.363	128	59534	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.653	114	342642	1.00	ppb	0.00
50) Chlorobenzene-d5	16.441	117	262998	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.200	95	140089	0.89	ppb	0.02
Spiked Amount 1.000	Range 70 - 130		Recovery = 89.00%			
Target Compounds						Qvalue
38) Carbon tetrachloride	10.978	117	4794	0.03	ppb	82
44) Trichloroethene	12.311	130	5642m	0.04	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022319.D
Acq On : 23 Feb 2023 11:49 pm
Operator : RJP
Sample : A1UG_0.03
Misc : A223_1UG
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 24 07:49:19 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022320.D
Acq On : 24 Feb 2023 12:32 am
Operator : RJP
Sample : A1UG_0.15
Misc : A223_1UG
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 24 07:48:58 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.363	128	63111	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.647	114	358589	1.00	ppb		0.00
50) Chlorobenzene-d5	16.438	117	275654	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.191	95	153867	0.93	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93.00%				
Target Compounds							Qvalue
2) Propylene	3.908	41	10483m	0.15	ppb		
3) Freon 12	4.151	85	46139	0.18	ppb		97
4) Chloromethane	4.157	50	14651	0.18	ppb		100
5) Freon 114	4.151	85	46139	0.18	ppb		98
6) Vinyl Chloride	4.340	62	14966	0.19	ppb		93
7) Butane	4.436	43	16228	0.20	ppb	#	88
8) 1,3-butadiene	4.439	39	10929	0.22	ppb		91
9) Bromomethane	4.758	94	14404	0.18	ppb		87
10) Chloroethane	4.920	64	6280	0.17	ppb	#	81
11) Ethanol	5.772	45	18661	0.14	ppb	#	13
12) Acrolein	5.625	56	2074m	0.14	ppb		
13) Vinyl Bromide	5.244	106	13880	0.19	ppb		100
14) Freon 11	5.502	101	46809	0.20	ppb		94
15) Acetone	5.697	58	9744	0.20	ppb	#	1
16) Pentane	5.772	42	15240	0.21	ppb	#	14
17) Isopropyl alcohol	5.772	45	18661	0.18	ppb	#	11
18) 1,1-dichloroethene	6.241	96	14990	0.15	ppb	#	83
19) Freon 113	6.433	101	41380	0.18	ppb		94
20) t-Butyl alcohol	6.466	59	31964	0.17	ppb	#	91
21) Methylene chloride	6.673	84	19400	0.21	ppb		92
22) Allyl chloride	6.652	41	14718	0.16	ppb		87
23) Carbon disulfide	6.838	76	52191	0.21	ppb		99
24) trans-1,2-dichloroethene	7.597	61	19650	0.17	ppb		91
25) methyl tert-butyl ether	7.603	73	46780	0.17	ppb	#	58
26) 1,1-dichloroethane	8.009	63	33054	0.17	ppb		97
27) Vinyl acetate	8.009	43	13555	0.14	ppb		83
28) Methyl Ethyl Ketone	8.531	72	6495	0.15	ppb	#	20
29) cis-1,2-dichloroethene	8.924	61	20237	0.18	ppb		97
30) Hexane	8.531	57	28727	0.16	ppb		98
31) Ethyl acetate	9.077	43	33370	0.15	ppb		91
32) Chloroform	9.519	83	36654	0.17	ppb		98
33) Tetrahydrofuran	9.696	42	15448	0.19	ppb		94
34) 1,2-dichloroethane	10.614	62	19359	0.16	ppb		85
36) 1,1,1-trichloroethane	10.311	97	31961	0.15	ppb		95
37) Cyclohexane	11.020	56	29408	0.17	ppb		95
38) Carbon tetrachloride	10.972	117	27616	0.15	ppb		87
39) Benzene	10.933	78	57110	0.16	ppb		93
40) Methyl methacrylate	12.545	41	13497	0.12	ppb	#	72
41) 1,4-dioxane	12.581	88	12810	0.16	ppb		92
42) 2,2,4-trimethylpentane	11.815	57	80589	0.14	ppb		94
43) Heptane	12.172	43	24455	0.14	ppb		98
44) Trichloroethene	12.299	130	23607	0.16	ppb		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022320.D
Acq On : 24 Feb 2023 12:32 am
Operator : RJP
Sample : A1UG_0.15
Misc : A223_1UG
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 24 07:48:58 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D

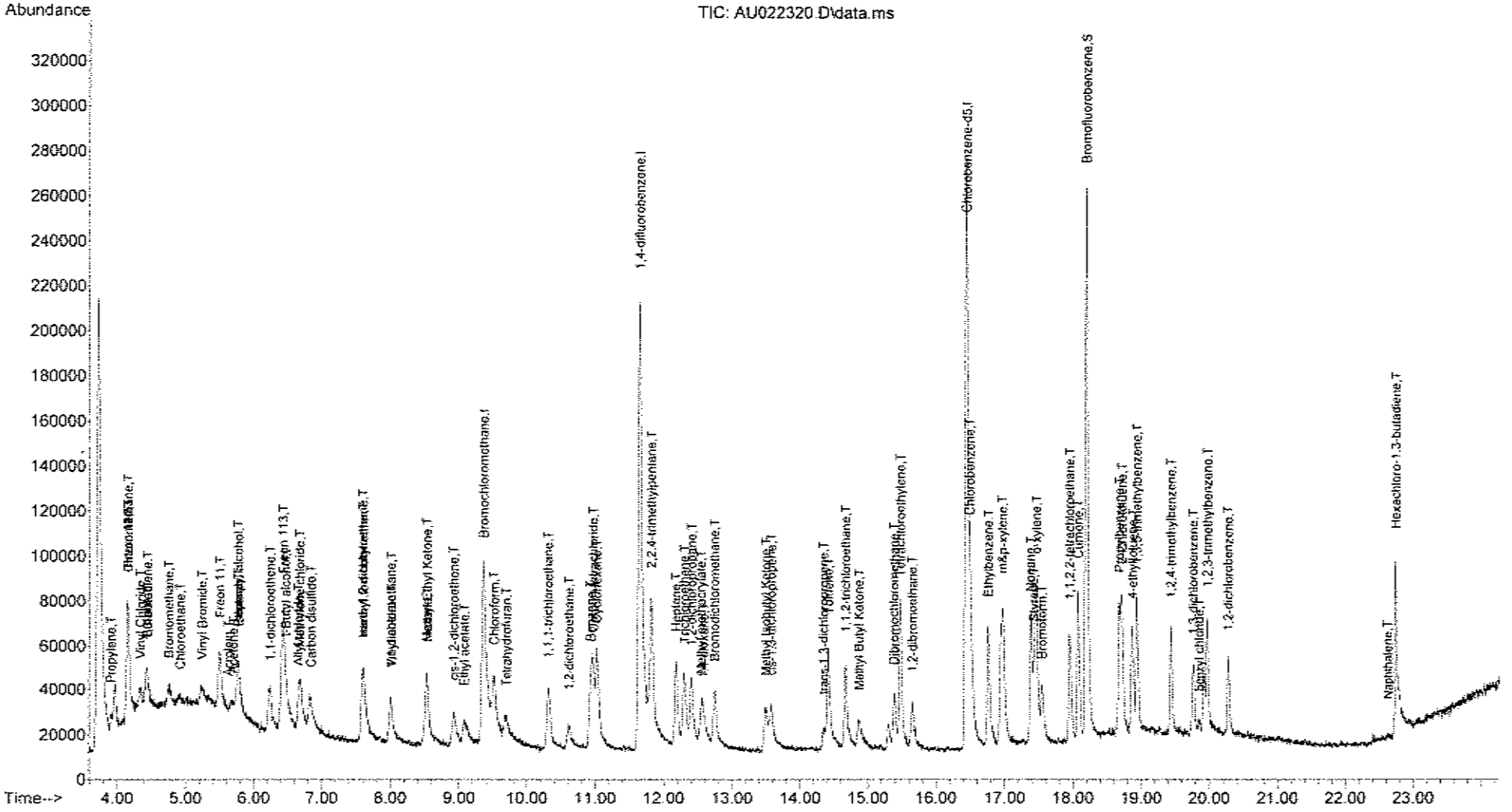
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	1,2-dichloropropane	12.407	63	23367	0.16	ppb		94
46)	Bromodichloromethane	12.743	83	29344	0.14	ppb		97
47)	cis-1,3-dichloropropene	13.577	75	20656	0.13	ppb		93
48)	trans-1,3-dichloropropene	14.346	75	14971	0.13	ppb		87
49)	1,1,2-trichloroethane	14.670	97	22777	0.15	ppb		97
51)	Toluene	14.418	92	35904	0.17	ppb		97
52)	Methyl Isobutyl Ketone	13.496	43	29518	0.16	ppb		97
53)	Dibromochloromethane	15.382	129	21660m	0.14	ppb		
54)	Methyl Butyl Ketone	14.865	43	22297	0.16	ppb		91
55)	1,2-dibromoethane	15.652	107	28006	0.17	ppb		95
56)	Tetrachloroethylene	15.478	164	24924	0.17	ppb		92
57)	Chlorobenzene	16.489	112	46150	0.16	ppb		99
58)	Ethylbenzene	16.759	91	66778	0.14	ppb		99
59)	m&p-xylene	16.970	91	94718	0.27	ppb		100
60)	Nonane	17.375	43	30544	0.14	ppb		99
61)	Styrene	17.426	104	31682	0.13	ppb		84
62)	Bromoform	17.543	173	17296	0.14	ppb		91
63)	o-xylene	17.462	91	58194	0.14	ppb		98
64)	Cumene	18.074	105	73577	0.14	ppb		99
66)	1,1,2,2-tetrachloroethane	17.948	83	41305	0.15	ppb		94
67)	Propylbenzene	18.678	120	17780	0.13	ppb	#	1
68)	2-Chlorotoluene	18.717	126	17145	0.14	ppb	#	1
69)	4-ethyltoluene	18.870	105	51495m	0.12	ppb		
70)	1,3,5-trimethylbenzene	18.936	105	72545m	0.17	ppb		
71)	1,2,4-trimethylbenzene	19.437	105	43015	0.12	ppb		96
72)	1,3-dichlorobenzene	19.761	146	21555	0.11	ppb		97
73)	benzyl chloride	19.848	91	7975m	0.10	ppb		
75)	1,2,3-trimethylbenzene	19.969	105	43087	0.11	ppb		97
76)	1,2-dichlorobenzene	20.275	146	21275	0.11	ppb		80
78)	Naphthalene	22.619	128	12994m	0.13	ppb		
79)	Hexachloro-1,3-butadiene	22.739	225	27069	0.15	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022320.D
Acq On : 24 Feb 2023 12:32 am
Operator : RJP
Sample : A1UG_0.15
Misc : A223_1UG
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 24 07:48:58 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022321.D
Acq On : 24 Feb 2023 1:13 am
Operator : RJP
Sample : A1UG_0.30
Misc : A223_1UG
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 24 07:48:34 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.357	128	62245	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.644	114	359447	1.00	ppb		0.00
50) Chlorobenzene-d5	16.438	117	281451	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.186	95	160728	0.95	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%				
Target Compounds							Qvalue
2) Propylene	3.911	41	24339	0.36	ppb		98
3) Freon 12	4.154	85	91513	0.37	ppb		99
4) Chloromethane	4.151	50	29718	0.36	ppb		94
5) Freon 114	4.154	85	91513	0.37	ppb		99
6) Vinyl Chloride	4.325	62	28244	0.37	ppb		95
7) Butane	4.427	43	31397	0.38	ppb		96
8) 1,3-butadiene	4.436	39	19821	0.40	ppb		81
9) Bromomethane	4.752	94	29475	0.38	ppb		96
10) Chloroethane	4.911	64	11701m	0.32	ppb		
11) Ethanol	5.775	45	43656	0.34	ppb	#	40
12) Acrolein	5.592	56	5612m	0.37	ppb		
13) Vinyl Bromide	5.244	106	24589m	0.34	ppb		
14) Freon 11	5.508	101	90945	0.39	ppb		99
15) Acetone	5.700	58	16141	0.34	ppb	#	1
16) Pentane	5.778	42	29021	0.40	ppb	#	15
17) Isopropyl alcohol	5.775	45	43656	0.43	ppb	#	38
18) 1,1-dichloroethene	6.238	96	35444	0.35	ppb		96
19) Freon 113	6.424	101	80797	0.35	ppb		96
20) t-Butyl alcohol	6.457	59	60670	0.34	ppb		97
21) Methylene chloride	6.694	84	34019	0.38	ppb		93
22) Allyl chloride	6.670	41	29654	0.33	ppb	#	51
23) Carbon disulfide	6.838	76	90499	0.38	ppb		97
24) trans-1,2-dichloroethene	7.592	61	40644	0.35	ppb		96
25) methyl tert-butyl ether	7.610	73	95193	0.34	ppb		98
26) 1,1-dichloroethane	8.006	63	63060	0.34	ppb		95
27) Vinyl acetate	8.000	43	28492	0.30	ppb	#	71
28) Methyl Ethyl Ketone	8.504	72	12983	0.30	ppb	#	1
29) cis-1,2-dichloroethene	8.918	61	37487m	0.33	ppb		
30) Hexane	8.528	57	56736	0.33	ppb		99
31) Ethyl acetate	9.078	43	64893	0.30	ppb		94
32) Chloroform	9.519	83	71391	0.34	ppb		96
33) Tetrahydrofuran	9.681	42	27569	0.34	ppb		88
34) 1,2-dichloroethane	10.618	62	38431	0.32	ppb		94
36) 1,1,1-trichloroethane	10.311	97	68759	0.33	ppb		98
37) Cyclohexane	11.026	56	58040	0.33	ppb		89
38) Carbon tetrachloride	10.963	117	58263	0.32	ppb		92
39) Benzene	10.927	78	111550	0.31	ppb		94
40) Methyl methacrylate	12.542	41	38916m	0.35	ppb		
41) 1,4-dioxane	12.554	88	24261	0.30	ppb		98
42) 2,2,4-trimethylpentane	11.815	57	176501	0.31	ppb		99
43) Heptane	12.173	43	54159	0.31	ppb		96
44) Trichloroethene	12.302	130	46748	0.31	ppb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022321.D
Acq On : 24 Feb 2023 1:13 am
Operator : RJP
Sample : A1UG_0.30
Misc : A223_1UG
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 24 07:48:34 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D

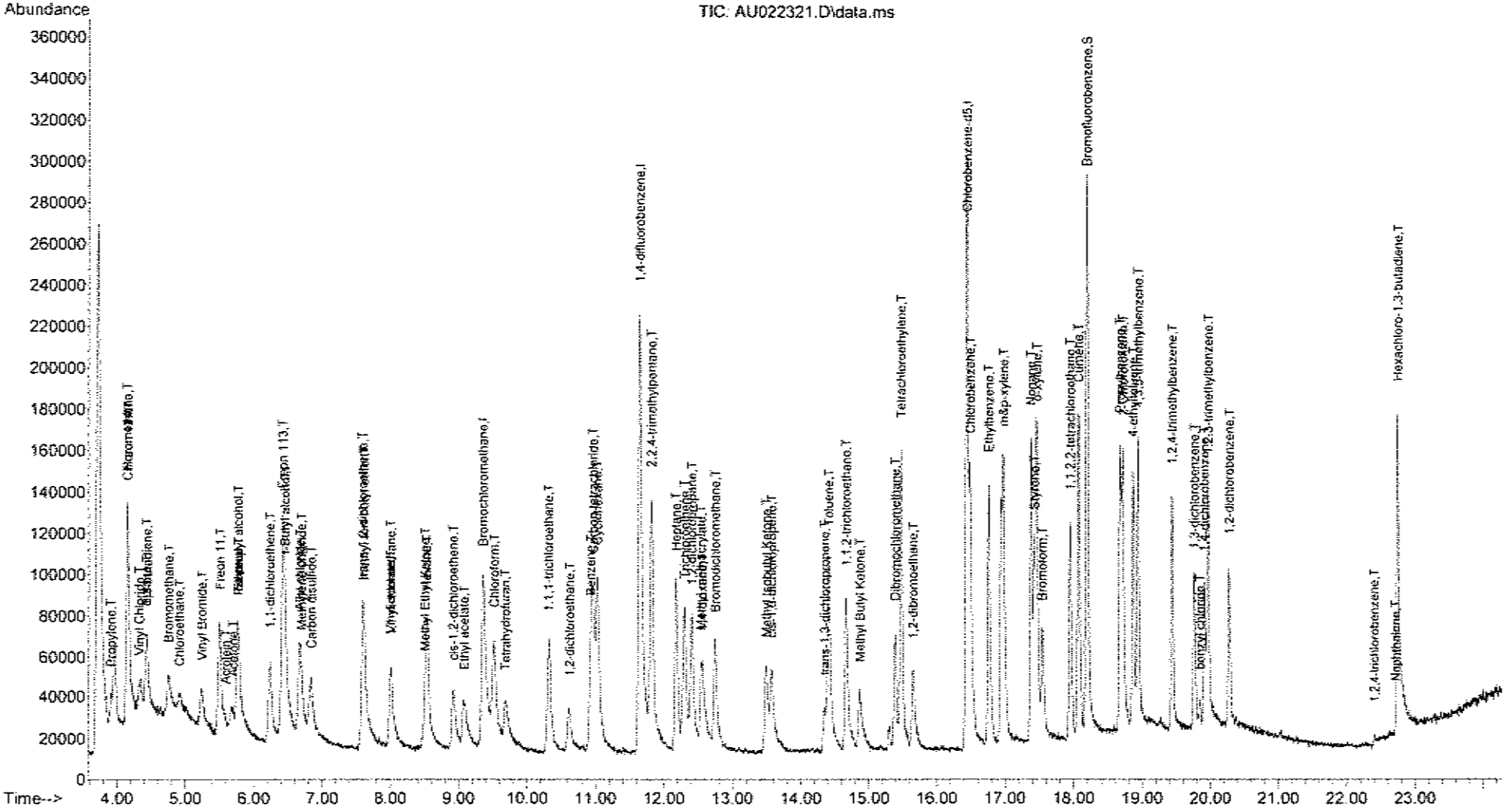
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 1,2-dichloropropane	12.407	63	45078	0.32	ppb		93
46) Bromodichloromethane	12.746	83	64628	0.32	ppb		99
47) cis-1,3-dichloropropene	13.575	75	42847	0.28	ppb		97
48) trans-1,3-dichloropropene	14.352	75	30367	0.26	ppb		90
49) 1,1,2-trichloroethane	14.667	97	45427	0.30	ppb		97
51) Toluene	14.412	92	73258	0.33	ppb		93
52) Methyl Isobutyl Ketone	13.496	43	60960	0.32	ppb		98
53) Dibromochloromethane	15.388	129	47635m	0.30	ppb		
54) Methyl Butyl Ketone	14.868	43	41458	0.28	ppb		90
55) 1,2-dibromoethane	15.649	107	53355	0.32	ppb		99
56) Tetrachloroethylene	15.472	164	52088	0.35	ppb		96
57) Chlorobenzene	16.489	112	93118	0.32	ppb		98
58) Ethylbenzene	16.760	91	144384	0.31	ppb		99
59) m&p-xylene	16.976	91	211758	0.59	ppb		96
60) Nonane	17.378	43	66929	0.30	ppb		100
61) Styrene	17.432	104	69509	0.28	ppb		80
62) Bromoform	17.540	173	36706	0.29	ppb		94
63) o-xylene	17.465	91	126969	0.30	ppb		94
64) Cumene	18.068	105	160078	0.31	ppb		99
66) 1,1,2,2-tetrachloroethane	17.951	83	85090	0.31	ppb		95
67) Propylbenzene	18.675	120	36008	0.27	ppb	#	1
68) 2-Chlorotoluene	18.714	126	38220	0.30	ppb	#	1
69) 4-ethyltoluene	18.861	105	114855m	0.27	ppb		
70) 1,3,5-trimethylbenzene	18.933	105	131167m	0.31	ppb		
71) 1,2,4-trimethylbenzene	19.431	105	101127	0.28	ppb		97
72) 1,3-dichlorobenzene	19.756	146	51311	0.25	ppb		99
73) benzyl chloride	19.843	91	14857m	0.19	ppb		
74) 1,4-dichlorobenzene	19.906	146	45619	0.24	ppb		97
75) 1,2,3-trimethylbenzene	19.960	105	102314	0.27	ppb		97
76) 1,2-dichlorobenzene	20.269	146	52126	0.26	ppb		98
77) 1,2,4-trichlorobenzene	22.400	180	10666m	0.24	ppb		
78) Naphthalene	22.712	128	26473m	0.27	ppb		
79) Hexachloro-1,3-butadiene	22.740	225	55048	0.30	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022321.D
Acq On : 24 Feb 2023 1:13 am
Operator : RJP
Sample : A1UG_0.30
Misc : A223_1UG
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 24 07:48:34 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022322.D
Acq On : 24 Feb 2023 1:55 am
Operator : RJP
Sample : A1UG_0.50
Misc : A223_1UG
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 24 07:48:16 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.360	128	63571	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.644	114	372947	1.00	ppb		0.00
50) Chlorobenzene-d5	16.435	117	294935	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.191	95	175722	0.99	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99.00%				
Target Compounds							Qvalue
2) Propylene	3.911	41	39757	0.58	ppb		100
3) Freon 12	4.154	85	144540	0.57	ppb		99
4) Chloromethane	4.151	50	49715	0.59	ppb		94
5) Freon 114	4.154	85	144540	0.57	ppb		95
6) Vinyl Chloride	4.331	62	47138	0.60	ppb		96
7) Butane	4.427	43	46918	0.56	ppb		97
8) 1,3-butadiene	4.427	39	31680	0.63	ppb		92
9) Bromomethane	4.758	94	46917	0.59	ppb		99
10) Chloroethane	4.914	64	20603	0.56	ppb		98
11) Ethanol	5.769	45	69879	0.54	ppb	#	49
12) Acrolein	5.574	56	9183m	0.60	ppb		
13) Vinyl Bromide	5.238	106	48048	0.65	ppb		91
14) Freon 11	5.502	101	153645	0.65	ppb		99
15) Acetone	5.679	58	28886	0.60	ppb	#	1
16) Pentane	5.763	42	45469m	0.61	ppb		
17) Isopropyl alcohol	5.769	45	69879	0.67	ppb	#	48
18) 1,1-dichloroethene	6.237	96	57650	0.56	ppb		94
19) Freon 113	6.427	101	136044	0.57	ppb		96
20) t-Butyl alcohol	6.451	59	107124	0.58	ppb		95
21) Methylene chloride	6.676	84	54762	0.60	ppb		95
22) Allyl chloride	6.661	41	53903	0.58	ppb	#	50
23) Carbon disulfide	6.832	76	143842	0.59	ppb		96
24) trans-1,2-dichloroethene	7.597	61	68231	0.57	ppb		96
25) methyl tert-butyl ether	7.600	73	153153	0.54	ppb		98
26) 1,1-dichloroethane	8.006	63	105782	0.55	ppb		92
27) Vinyl acetate	8.000	43	47390	0.49	ppb		90
28) Methyl Ethyl Ketone	8.498	72	26167	0.59	ppb	#	1
29) cis-1,2-dichloroethene	8.918	61	69354	0.61	ppb		95
30) Hexane	8.534	57	96767	0.55	ppb		96
31) Ethyl acetate	9.077	43	119628	0.54	ppb		99
32) Chloroform	9.516	83	122900	0.57	ppb		99
33) Tetrahydrofuran	9.672	42	44763	0.54	ppb		84
34) 1,2-dichloroethane	10.605	62	65123	0.54	ppb		93
36) 1,1,1-trichloroethane	10.320	97	112312	0.52	ppb		100
37) Cyclohexane	11.035	56	95873	0.53	ppb		88
38) Carbon tetrachloride	10.969	117	99057	0.52	ppb		94
39) Benzene	10.939	78	192253	0.51	ppb		93
40) Methyl methacrylate	12.539	41	51037	0.45	ppb	#	80
41) 1,4-dioxane	12.557	88	39294	0.47	ppb		96
42) 2,2,4-trimethylpentane	11.815	57	303702	0.51	ppb		100
43) Heptane	12.178	43	88718	0.48	ppb		96
44) Trichloroethene	12.295	130	79532	0.51	ppb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022322.D
Acq On : 24 Feb 2023 1:55 am
Operator : RJP
Sample : A1UG_0.50
Misc : A223_1UG
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 24 07:48:16 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D

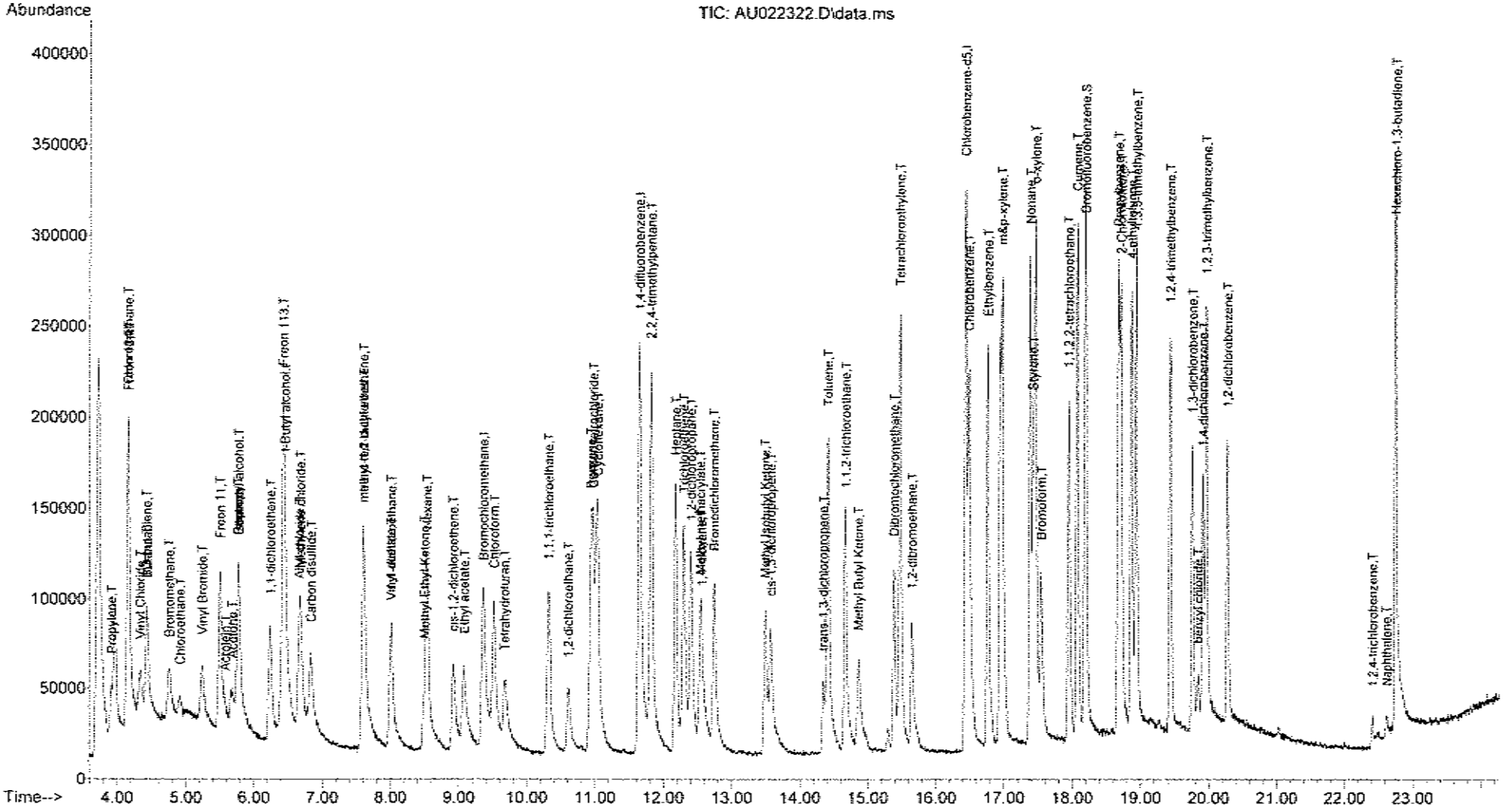
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 1,2-dichloropropane	12.401	63	75883	0.51	ppb		93
46) Bromodichloromethane	12.743	83	109554	0.51	ppb		97
47) cis-1,3-dichloropropene	13.571	75	73898	0.46	ppb		97
48) trans-1,3-dichloropropene	14.343	75	52116	0.43	ppb		87
49) 1,1,2-trichloroethane	14.670	97	79574	0.51	ppb		95
51) Toluene	14.412	92	125047	0.54	ppb		94
52) Methyl Isobutyl Ketone	13.487	43	109414	0.55	ppb		99
53) Dibromochloromethane	15.384	129	84921m	0.51	ppb		
54) Methyl Butyl Ketone	14.862	43	79310	0.52	ppb		92
55) 1,2-dibromoethane	15.646	107	97154	0.55	ppb		99
56) Tetrachloroethylene	15.472	164	87933	0.57	ppb		96
57) Chlorobenzene	16.486	112	162155	0.53	ppb		98
58) Ethylbenzene	16.762	91	257275	0.52	ppb		99
59) m&p-xylene	16.973	91	378441	1.01	ppb		99
60) Nonane	17.381	43	121392	0.52	ppb		98
61) Styrene	17.426	104	133727	0.51	ppb		88
62) Bromoform	17.546	173	67450	0.50	ppb		93
63) o-xylene	17.459	91	235965	0.54	ppb		94
64) Cumene	18.071	105	284955	0.52	ppb		98
66) 1,1,2,2-tetrachloroethane	17.945	83	153896	0.53	ppb		95
67) Propylbenzene	18.672	120	71034	0.50	ppb	#	1
68) 2-Chlorotoluene	18.711	126	68446	0.51	ppb	#	1
69) 4-ethyltoluene	18.864	105	224342	0.50	ppb		99
70) 1,3,5-trimethylbenzene	18.936	105	213817	0.48	ppb		94
71) 1,2,4-trimethylbenzene	19.431	105	190349	0.50	ppb		99
72) 1,3-dichlorobenzene	19.758	146	103512	0.48	ppb		99
73) benzyl chloride	19.839	91	27793	0.34	ppb		96
74) 1,4-dichlorobenzene	19.911	146	91502	0.46	ppb		98
75) 1,2,3-trimethylbenzene	19.962	105	199808	0.50	ppb		97
76) 1,2-dichlorobenzene	20.272	146	103261	0.49	ppb		94
77) 1,2,4-trichlorobenzene	22.409	180	26740m	0.57	ppb		
78) Naphthalene	22.613	128	58541m	0.56	ppb		
79) Hexachloro-1,3-butadiene	22.742	225	99588	0.51	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022322.D
Acq On : 24 Feb 2023 1:55 am
Operator : RJP
Sample : A1UG_0.50
Misc : A223_1UG
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 24 07:48:16 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022323.D
Acq On : 24 Feb 2023 2:38 am
Operator : RJP
Sample : A1UG_0.75
Misc : A223_1UG
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 24 07:47:46 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.363	128	63315	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.650	114	381458	1.00	ppb		0.00
50) Chlorobenzene-d5	16.435	117	309815	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.188	95	193805	1.04	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 104.00%				
Target Compounds							Qvalue
2) Propylene	3.923	41	59845	0.88	ppb		95
3) Freon 12	4.157	85	222235	0.89	ppb		99
4) Chloromethane	4.154	50	72083	0.86	ppb		99
5) Freon 114	4.157	85	222235	0.89	ppb		97
6) Vinyl Chloride	4.337	62	69835	0.89	ppb		98
7) Butane	4.436	43	74075	0.89	ppb		94
8) 1,3-butadiene	4.436	39	40625m	0.80	ppb		
9) Bromomethane	4.761	94	66799	0.85	ppb		97
10) Chloroethane	4.920	64	32653	0.88	ppb		98
11) Ethanol	5.760	45	100915	0.78	ppb	#	64
12) Acrolein	5.583	56	12503	0.82	ppb		87
13) Vinyl Bromide	5.238	106	63526	0.86	ppb		97
14) Freon 11	5.502	101	181446m	0.77	ppb		
15) Acetone	5.682	58	37339	0.78	ppb	#	1
16) Pentane	5.766	42	62452m	0.85	ppb		
17) Isopropyl alcohol	5.760	45	73344m	0.71	ppb		
18) 1,1-dichloroethene	6.241	96	89929	0.87	ppb		96
19) Freon 113	6.427	101	200201	0.85	ppb		92
20) t-Butyl alcohol	6.460	59	158691	0.86	ppb		95
21) Methylene chloride	6.682	84	79217	0.87	ppb		94
22) Allyl chloride	6.670	41	81411	0.89	ppb	#	50
23) Carbon disulfide	6.835	76	192652m	0.79	ppb		
24) trans-1,2-dichloroethene	7.591	61	84870m	0.72	ppb		
25) methyl tert-butyl ether	7.603	73	237482	0.84	ppb		99
26) 1,1-dichloroethane	8.009	63	165907	0.87	ppb		97
27) Vinyl acetate	8.003	43	82858	0.87	ppb		96
28) Methyl Ethyl Ketone	8.480	72	38983	0.88	ppb	#	1
29) cis-1,2-dichloroethene	8.915	61	87141m	0.76	ppb		
30) Hexane	8.531	57	149268	0.85	ppb		97
31) Ethyl acetate	9.074	43	182703	0.83	ppb		96
32) Chloroform	9.519	83	182457	0.84	ppb		99
33) Tetrahydrofuran	9.675	42	75032	0.90	ppb		93
34) 1,2-dichloroethane	10.611	62	99042	0.82	ppb		94
36) 1,1,1-trichloroethane	10.323	97	173985	0.78	ppb		98
37) Cyclohexane	11.032	56	145031	0.79	ppb		89
38) Carbon tetrachloride	10.963	117	150584	0.77	ppb		94
39) Benzene	10.939	78	292961	0.76	ppb		95
40) Methyl methacrylate	12.542	41	81829	0.70	ppb		85
41) 1,4-dioxane	12.551	88	61506	0.72	ppb		96
42) 2,2,4-trimethylpentane	11.818	57	459472	0.76	ppb		100
43) Heptane	12.175	43	139112	0.74	ppb		97
44) Trichloroethene	12.293	130	121813	0.76	ppb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022323.D
Acq On : 24 Feb 2023 2:38 am
Operator : RJP
Sample : A1UG_0.75
Misc : A223_1UG
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 24 07:47:46 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D

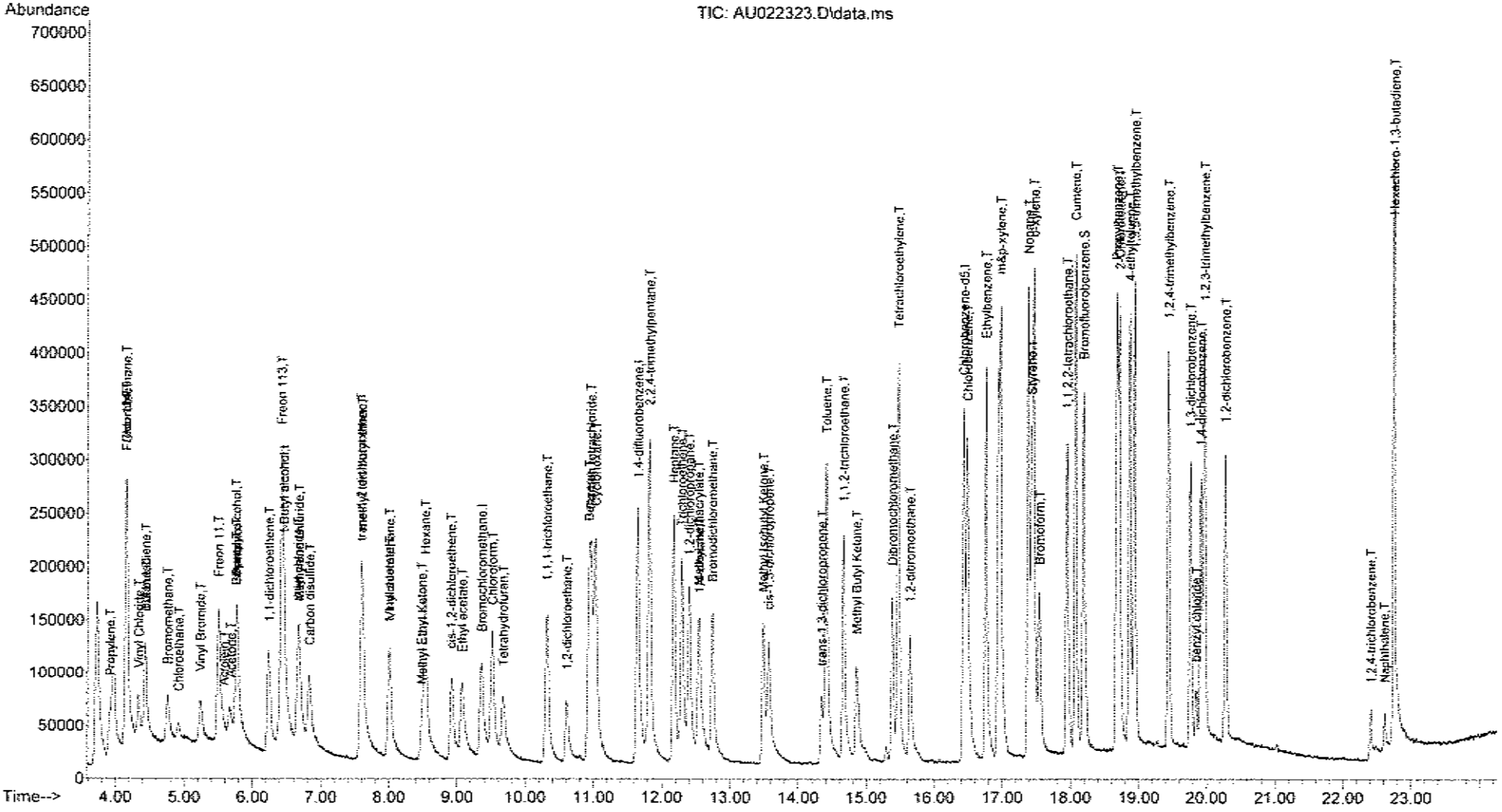
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 1,2-dichloropropane	12.401	63	111676	0.74	ppb		98
46) Bromodichloromethane	12.743	83	167141	0.77	ppb		99
47) cis-1,3-dichloropropene	13.565	75	116161	0.71	ppb		98
48) trans-1,3-dichloropropene	14.343	75	85962	0.70	ppb		97
49) 1,1,2-trichloroethane	14.667	97	119186	0.75	ppb		98
51) Toluene	14.412	92	195085	0.81	ppb		95
52) Methyl Isobutyl Ketone	13.484	43	170420	0.82	ppb		99
53) Dibromochloromethane	15.385	129	135400	0.77	ppb		100
54) Methyl Butyl Ketone	14.856	43	125807	0.79	ppb		92
55) 1,2-dibromoethane	15.646	107	152386	0.82	ppb		97
56) Tetrachloroethylene	15.472	164	134457	0.82	ppb		99
57) Chlorobenzene	16.489	112	253738	0.80	ppb		98
58) Ethylbenzene	16.759	91	407383	0.79	ppb		99
59) m&p-xylene	16.973	91	617154	1.57	ppb		99
60) Nonane	17.378	43	195345	0.79	ppb		98
61) Styrene	17.429	104	216678	0.79	ppb		89
62) Bromoform	17.546	173	109071	0.77	ppb		94
63) o-xylene	17.459	91	364062	0.79	ppb		95
64) Cumene	18.068	105	458241	0.80	ppb		99
66) 1,1,2,2-tetrachloroethane	17.948	83	240631	0.79	ppb		97
67) Propylbenzene	18.672	120	118925	0.80	ppb	#	1
68) 2-Chlorotoluene	18.711	126	110122	0.79	ppb	#	1
69) 4-ethyltoluene	18.861	105	382835m	0.82	ppb		
70) 1,3,5-trimethylbenzene	18.930	105	379855m	0.80	ppb		
71) 1,2,4-trimethylbenzene	19.434	105	317007	0.79	ppb		98
72) 1,3-dichlorobenzene	19.755	146	175788	0.77	ppb		99
73) benzyl chloride	19.845	91	55305	0.64	ppb		94
74) 1,4-dichlorobenzene	19.912	146	160778	0.76	ppb		98
75) 1,2,3-trimethylbenzene	19.963	105	332815	0.79	ppb		96
76) 1,2-dichlorobenzene	20.269	146	173776	0.78	ppb		95
77) 1,2,4-trichlorobenzene	22.409	180	33148m	0.67	ppb		
78) Naphthalene	22.607	128	80600m	0.73	ppb		
79) Hexachloro-1,3-butadiene	22.739	225	159006	0.78	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022323.D
Acq On : 24 Feb 2023 2:38 am
Operator : RJP
Sample : A1UG_0.75
Misc : A223_1UG
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 24 07:47:46 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022324.D
Acq On : 24 Feb 2023 3:22 am
Operator : RJP
Sample : A1UG_1.0
Misc : A223_1UG
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 24 07:46:11 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.354	128	65617	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.647	114	390251	1.00	ppb		0.00
50) Chlorobenzene-d5	16.432	117	324683	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.185	95	204910	1.05	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 105.00%				
Target Compounds							Qvalue
2) Propylene	3.917	41	79459	1.12	ppb		95
3) Freon 12	4.157	85	284761	1.09	ppb		98
4) Chloromethane	4.154	50	96063	1.11	ppb		96
5) Freon 114	4.157	85	284761	1.09	ppb		95
6) Vinyl Chloride	4.334	62	93171	1.14	ppb		98
7) Butane	4.433	43	102025	1.19	ppb		91
8) 1,3-butadiene	4.430	39	60135	1.15	ppb		78
9) Bromomethane	4.764	94	94859	1.16	ppb		98
10) Chloroethane	4.923	64	43503	1.14	ppb		97
11) Ethanol	5.763	45	125250	0.93	ppb	#	62
12) Acrolein	5.562	56	15693m	0.99	ppb		
13) Vinyl Bromide	5.238	106	87188	1.14	ppb		99
14) Freon 11	5.499	101	272872	1.12	ppb		99
15) Acetone	5.661	58	45251	0.91	ppb	#	1
16) Pentane	5.769	42	85921	1.12	ppb	#	49
17) Isopropyl alcohol	5.763	45	125250	1.16	ppb	#	61
18) 1,1-dichloroethene	6.229	96	120221	1.12	ppb		95
19) Freon 113	6.427	101	273627	1.12	ppb		95
20) t-Butyl alcohol	6.448	59	217863	1.14	ppb		97
21) Methylene chloride	6.685	84	107953	1.14	ppb		96
22) Allyl chloride	6.667	41	107306	1.13	ppb	#	51
23) Carbon disulfide	6.829	76	289750	1.15	ppb		97
24) trans-1,2-dichloroethene	7.585	61	139201	1.14	ppb		94
25) methyl tert-butyl ether	7.600	73	327657	1.12	ppb		98
26) 1,1-dichloroethane	8.003	63	219382	1.11	ppb		95
27) Vinyl acetate	7.997	43	111904	1.13	ppb		100
28) Methyl Ethyl Ketone	8.480	72	50881	1.10	ppb	#	1
29) cis-1,2-dichloroethene	8.915	61	129369m	1.09	ppb		
30) Hexane	8.531	57	201408	1.11	ppb		97
31) Ethyl acetate	9.068	43	251928	1.10	ppb		98
32) Chloroform	9.513	83	244769	1.09	ppb		99
33) Tetrahydrofuran	9.675	42	94863	1.10	ppb		85
34) 1,2-dichloroethane	10.611	62	134926	1.08	ppb		98
36) 1,1,1-trichloroethane	10.314	97	232661	1.02	ppb		99
37) Cyclohexane	11.032	56	192166	1.02	ppb		87
38) Carbon tetrachloride	10.966	117	204658	1.02	ppb		93
39) Benzene	10.930	78	402156	1.02	ppb		95
40) Methyl methacrylate	12.539	41	119684	1.00	ppb		87
41) 1,4-dioxane	12.548	88	86434	0.99	ppb		99
42) 2,2,4-trimethylpentane	11.815	57	624856	1.01	ppb		100
43) Heptane	12.176	43	194818	1.01	ppb		98
44) Trichloroethene	12.296	130	165070	1.01	ppb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022324.D
Acq On : 24 Feb 2023 3:22 am
Operator : RJP
Sample : A1UG_1.0
Misc : A223_1UG
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 24 07:46:11 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D

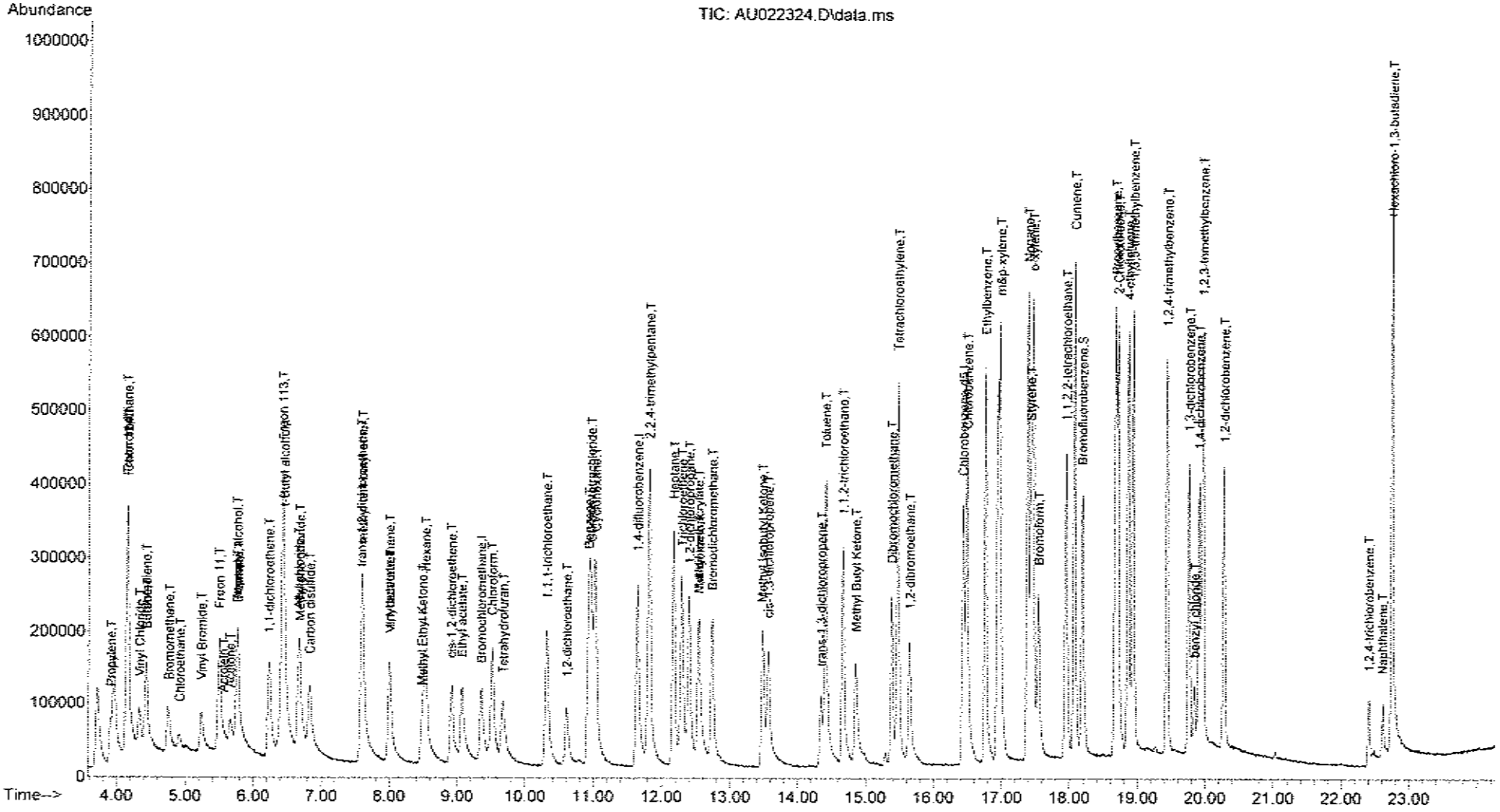
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 1,2-dichloropropane	12.401	63	156741	1.01	ppb		97
46) Bromodichloromethane	12.743	83	224553	1.01	ppb		98
47) cis-1,3-dichloropropene	13.565	75	163807	0.98	ppb		99
48) trans-1,3-dichloropropene	14.343	75	118863	0.94	ppb		93
49) 1,1,2-trichloroethane	14.664	97	161283	0.99	ppb		97
51) Toluene	14.409	92	268191	1.06	ppb		93
52) Methyl Isobutyl Ketone	13.478	43	234713	1.08	ppb		99
53) Dibromochloromethane	15.385	129	186422m	1.01	ppb		
54) Methyl Butyl Ketone	14.856	43	182006	1.08	ppb		91
55) 1,2-dibromoethane	15.646	107	209088	1.07	ppb		99
56) Tetrachloroethylene	15.472	164	180468	1.05	ppb		98
57) Chlorobenzene	16.489	112	352391	1.05	ppb		99
58) Ethylbenzene	16.759	91	572297	1.05	ppb		100
59) m&p-xylene	16.976	91	866296	2.11	ppb		98
60) Nonane	17.381	43	271153	1.05	ppb		97
61) Styrene	17.426	104	302269	1.05	ppb		85
62) Bromoform	17.546	173	155525	1.05	ppb		93
63) o-xylene	17.459	91	509011	1.05	ppb		94
64) Cumene	18.071	105	632343	1.05	ppb		98
66) 1,1,2,2-tetrachloroethane	17.948	83	336897	1.05	ppb		96
67) Propylbenzene	18.672	120	163381	1.05	ppb	#	1
68) 2-Chlorotoluene	18.708	126	154357	1.05	ppb	#	1
69) 4-ethyltoluene	18.861	105	543639m	1.11	ppb		
70) 1,3,5-trimethylbenzene	18.930	105	534851m	1.08	ppb		
71) 1,2,4-trimethylbenzene	19.434	105	441006	1.05	ppb		99
72) 1,3-dichlorobenzene	19.755	146	250949	1.05	ppb		99
73) benzyl chloride	19.846	91	95749	1.05	ppb		92
74) 1,4-dichlorobenzene	19.909	146	230534	1.05	ppb		99
75) 1,2,3-trimethylbenzene	19.960	105	464174	1.05	ppb		99
76) 1,2-dichlorobenzene	20.272	146	244195	1.04	ppb		97
77) 1,2,4-trichlorobenzene	22.406	180	61988m	1.19	ppb		
78) Naphthalene	22.607	128	107772	0.94	ppb		96
79) Hexachloro-1,3-butadiene	22.736	225	219235	1.03	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022324.D
Acq On : 24 Feb 2023 3:22 am
Operator : RJP
Sample : A1UG_1.0
Misc : A223_1UG
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 24 07:46:11 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022325.D
Acq On : 24 Feb 2023 4:07 am
Operator : RJP
Sample : A1UG_1.25
Misc : A223_1UG
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 24 07:46:35 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.357	128	65527	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.650	114	394374	1.00	ppb		0.00
50) Chlorobenzene-d5	16.432	117	326617	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.188	95	203811	1.04	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 104.00%				
Target Compounds							Qvalue
2) Propylene	3.914	41	97944	1.39	ppb		95
3) Freon 12	4.157	85	351695	1.35	ppb		98
4) Chloromethane	4.157	50	116544	1.34	ppb		96
5) Freon 114	4.157	85	351695	1.35	ppb		96
6) Vinyl Chloride	4.337	62	103071m	1.27	ppb		
7) Butane	4.436	43	111669	1.30	ppb		95
8) 1,3-butadiene	4.433	39	80674	1.54	ppb		89
9) Bromomethane	4.755	94	113913	1.39	ppb		98
10) Chloroethane	4.923	64	52601	1.38	ppb		96
11) Ethanol	5.766	45	156274	1.17	ppb	#	62
12) Acrolein	5.583	56	22003	1.39	ppb		86
13) Vinyl Bromide	5.241	106	107655	1.41	ppb		100
14) Freon 11	5.502	101	340784	1.40	ppb		100
15) Acetone	5.667	58	55644	1.12	ppb	#	1
16) Pentane	5.769	42	105316	1.38	ppb	#	46
17) Isopropyl alcohol	5.766	45	156274	1.45	ppb	#	62
18) 1,1-dichloroethene	6.238	96	142693	1.33	ppb		95
19) Freon 113	6.433	101	335046	1.37	ppb		93
20) t-Butyl alcohol	6.451	59	270478	1.42	ppb		98
21) Methylene chloride	6.679	84	130062	1.38	ppb		95
22) Allyl chloride	6.667	41	136732	1.44	ppb		95
23) Carbon disulfide	6.835	76	363892	1.44	ppb		95
24) trans-1,2-dichloroethene	7.591	61	176145	1.44	ppb		94
25) methyl tert-butyl ether	7.603	73	405697	1.39	ppb		98
26) 1,1-dichloroethane	8.009	63	272699	1.38	ppb		95
27) Vinyl acetate	8.003	43	138062	1.40	ppb		100
28) Methyl Ethyl Ketone	8.480	72	67609	1.47	ppb	#	1
29) cis-1,2-dichloroethene	8.921	61	160401m	1.36	ppb		
30) Hexane	8.528	57	254478	1.40	ppb		99
31) Ethyl acetate	9.065	43	309693	1.35	ppb		97
32) Chloroform	9.522	83	307987	1.38	ppb		99
33) Tetrahydrofuran	9.678	42	129206	1.50	ppb		94
34) 1,2-dichloroethane	10.605	62	166992	1.34	ppb		94
36) 1,1,1-trichloroethane	10.323	97	296964	1.29	ppb		96
37) Cyclohexane	11.029	56	254357	1.33	ppb		89
38) Carbon tetrachloride	10.966	117	256849	1.27	ppb		92
39) Benzene	10.930	78	504790	1.27	ppb		96
40) Methyl methacrylate	12.539	41	148376	1.23	ppb	#	84
41) 1,4-dioxane	12.545	88	105516	1.20	ppb		96
42) 2,2,4-trimethylpentane	11.818	57	783260	1.26	ppb		100
43) Heptane	12.175	43	242564	1.25	ppb		98
44) Trichloroethene	12.296	130	204792	1.24	ppb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022325.D
Acq On : 24 Feb 2023 4:07 am
Operator : RJP
Sample : A1UG_1.25
Misc : A223_1UG
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 24 07:46:35 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D

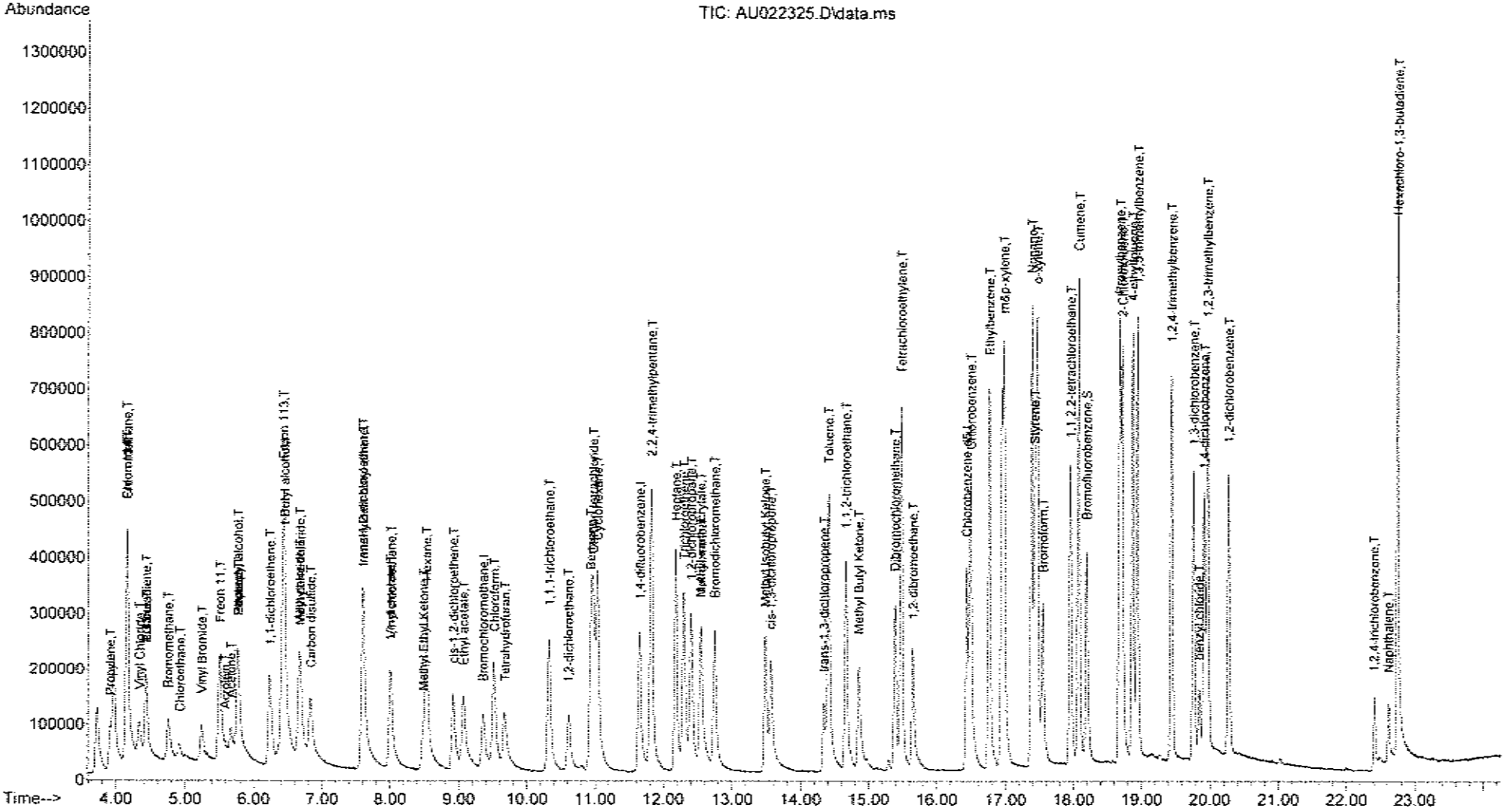
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 1,2-dichloropropane	12.398	63	191015	1.22	ppb		99
46) Bromodichloromethane	12.743	83	291237	1.29	ppb		100
47) cis-1,3-dichloropropene	13.562	75	208984	1.24	ppb		98
48) trans-1,3-dichloropropene	14.343	75	154428	1.21	ppb		95
49) 1,1,2-trichloroethane	14.664	97	204936	1.25	ppb		96
51) Toluene	14.412	92	344227	1.35	ppb		95
52) Methyl Isobutyl Ketone	13.478	43	298151	1.36	ppb		99
53) Dibromochloromethane	15.382	129	238233m	1.29	ppb		
54) Methyl Butyl Ketone	14.853	43	232062	1.37	ppb		91
55) 1,2-dibromoethane	15.649	107	266718	1.36	ppb		98
56) Tetrachloroethylene	15.472	164	226017	1.31	ppb		98
57) Chlorobenzene	16.489	112	442881	1.32	ppb		98
58) Ethylbenzene	16.759	91	726246	1.33	ppb		100
59) m&p-xylene	16.970	91	1103555	2.67	ppb		98
60) Nonane	17.378	43	348375	1.34	ppb		97
61) Styrene	17.423	104	393748	1.36	ppb		87
62) Bromoform	17.546	173	201485	1.36	ppb		93
63) o-xylene	17.459	91	634535	1.30	ppb		96
64) Cumene	18.071	105	817153	1.35	ppb		98
66) 1,1,2,2-tetrachloroethane	17.948	83	423270	1.31	ppb		97
67) Propylbenzene	18.669	120	212543	1.36	ppb	#	1
68) 2-Chlorotoluene	18.711	126	196081	1.33	ppb	#	1
69) 4-ethyltoluene	18.861	105	680517m	1.38	ppb		
70) 1,3,5-trimethylbenzene	18.933	105	681307m	1.37	ppb		
71) 1,2,4-trimethylbenzene	19.431	105	570106	1.35	ppb		97
72) 1,3-dichlorobenzene	19.758	146	327285	1.36	ppb		99
73) benzyl chloride	19.837	91	134669	1.47	ppb		98
74) 1,4-dichlorobenzene	19.912	146	295705	1.33	ppb		99
75) 1,2,3-trimethylbenzene	19.960	105	593263	1.33	ppb		99
76) 1,2-dichlorobenzene	20.269	146	329172	1.40	ppb		99
77) 1,2,4-trichlorobenzene	22.400	180	71091	1.36	ppb		94
78) Naphthalene	22.610	128	153523	1.33	ppb		98
79) Hexachloro-1,3-butadiene	22.739	225	280201	1.30	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022325.D
Acq On : 24 Feb 2023 4:07 am
Operator : RJP
Sample : A1UG_1.25
Misc : A223_1UG
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 24 07:46:35 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022326.D
Acq On : 24 Feb 2023 4:53 am
Operator : RJP
Sample : A1UG_1.50
Misc : A223_1UG
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 24 07:46:59 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.357	128	66561	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.644	114	396787	1.00	ppb		0.00
50) Chlorobenzene-d5	16.432	117	329130	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.188	95	217457	1.10	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 110.00%				
Target Compounds							Qvalue
2) Propylene	3.914	41	117803	1.64	ppb		96
3) Freon 12	4.151	85	434173	1.65	ppb		100
4) Chloromethane	4.151	50	145738	1.65	ppb		96
5) Freon 114	4.151	85	434173	1.65	ppb		96
6) Vinyl Chloride	4.331	62	138325	1.67	ppb		97
7) Butane	4.430	43	138966	1.59	ppb		90
8) 1,3-butadiene	4.433	39	93793	1.77	ppb		83
9) Bromomethane	4.758	94	141473	1.70	ppb		98
10) Chloroethane	4.917	64	63928	1.65	ppb		99
11) Ethanol	5.757	45	181052	1.33	ppb	#	83
12) Acrolein	5.568	56	24192	1.51	ppb		100
13) Vinyl Bromide	5.238	106	131607	1.70	ppb		100
14) Freon 11	5.499	101	407983	1.65	ppb		100
15) Acetone	5.670	58	62627	1.24	ppb	#	1
16) Pentane	5.769	42	116233	1.50	ppb	#	57
17) Isopropyl alcohol	5.757	45	181052	1.66	ppb	#	83
18) 1,1-dichloroethene	6.235	96	181461	1.67	ppb		96
19) Freon 113	6.424	101	409136	1.64	ppb		94
20) t-Butyl alcohol	6.448	59	332999	1.72	ppb		96
21) Methylene chloride	6.673	84	160655	1.68	ppb		96
22) Allyl chloride	6.661	41	165492	1.71	ppb	#	47
23) Carbon disulfide	6.826	76	436911	1.71	ppb		93
24) trans-1,2-dichloroethene	7.588	61	214646	1.73	ppb		94
25) methyl tert-butyl ether	7.603	73	493749	1.67	ppb		98
26) 1,1-dichloroethane	8.003	63	335156	1.67	ppb		96
27) Vinyl acetate	7.994	43	172694	1.72	ppb		98
28) Methyl Ethyl Ketone	8.483	72	81310	1.74	ppb	#	1
29) cis-1,2-dichloroethene	8.915	61	197259m	1.65	ppb		
30) Hexane	8.531	57	311808	1.69	ppb		97
31) Ethyl acetate	9.068	43	388282	1.67	ppb		96
32) Chloroform	9.516	83	375127	1.65	ppb		99
33) Tetrahydrofuran	9.669	42	157060	1.79	ppb		93
34) 1,2-dichloroethane	10.611	62	207778	1.64	ppb		96
36) 1,1,1-trichloroethane	10.323	97	357107	1.54	ppb		98
37) Cyclohexane	11.023	56	303253	1.58	ppb		87
38) Carbon tetrachloride	10.969	117	317378	1.56	ppb		94
39) Benzene	10.930	78	608011	1.52	ppb		95
40) Methyl methacrylate	12.536	41	183995	1.52	ppb	#	86
41) 1,4-dioxane	12.542	88	130231	1.47	ppb		98
42) 2,2,4-trimethylpentane	11.815	57	953799	1.52	ppb		100
43) Heptane	12.172	43	299431	1.53	ppb		99
44) Trichloroethene	12.293	130	248358	1.49	ppb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022326.D
Acq On : 24 Feb 2023 4:53 am
Operator : RJP
Sample : A1UG_1.50
Misc : A223_1UG
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 24 07:46:59 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D

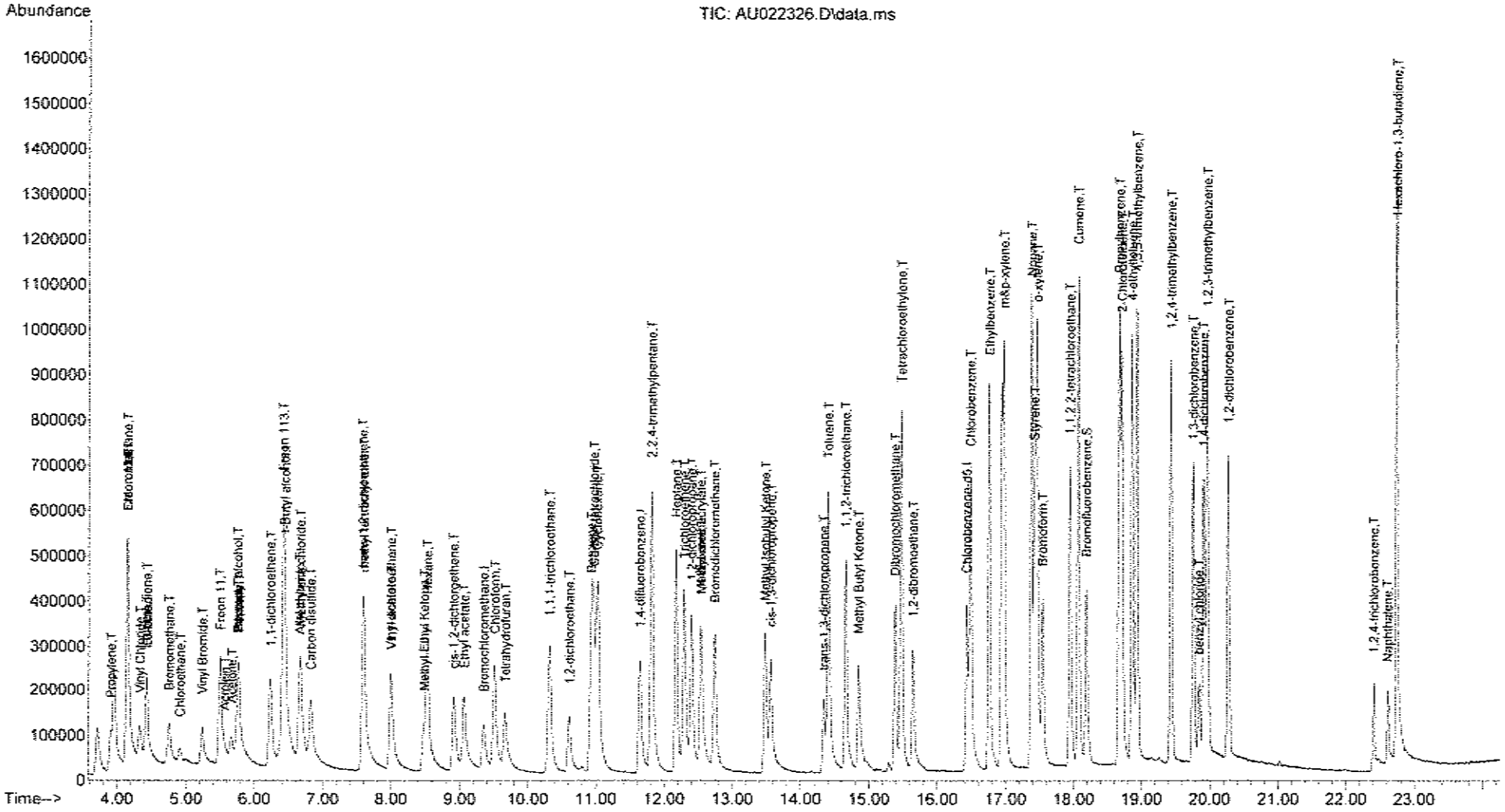
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 1,2-dichloropropane	12.398	63	232936	1.48	ppb		96
46) Bromodichloromethane	12.743	83	352072	1.55	ppb		99
47) cis-1,3-dichloropropene	13.568	75	257419	1.52	ppb		99
48) trans-1,3-dichloropropene	14.340	75	194583	1.51	ppb		97
49) 1,1,2-trichloroethane	14.664	97	247021	1.50	ppb		95
51) Toluene	14.409	92	418190	1.63	ppb		94
52) Methyl Isobutyl Ketone	13.484	43	367297	1.66	ppb		99
53) Dibromochloromethane	15.382	129	296994m	1.59	ppb		
54) Methyl Butyl Ketone	14.850	43	291726	1.71	ppb		92
55) 1,2-dibromoethane	15.643	107	324145	1.64	ppb		98
56) Tetrachloroethylene	15.475	164	274579	1.58	ppb		96
57) Chlorobenzene	16.486	112	544924	1.61	ppb		98
58) Ethylbenzene	16.762	91	906320	1.64	ppb		99
59) m&p-xylene	16.973	91	1361805	3.26	ppb		98
60) Nonane	17.381	43	432023	1.65	ppb		97
61) Styrene	17.423	104	495464	1.70	ppb		88
62) Bromoform	17.543	173	254512	1.70	ppb		94
63) o-xylene	17.462	91	785308	1.60	ppb		94
64) Cumene	18.068	105	1012285	1.66	ppb		98
66) 1,1,2,2-tetrachloroethane	17.945	83	526810	1.62	ppb		96
67) Propylbenzene	18.672	120	264341	1.68	ppb	#	1
68) 2-Chlorotoluene	18.711	126	241830	1.62	ppb	#	1
69) 4-ethyltoluene	18.861	105	878794m	1.77	ppb		
70) 1,3,5-trimethylbenzene	18.930	105	759397	1.51	ppb		96
71) 1,2,4-trimethylbenzene	19.431	105	723498	1.70	ppb		99
72) 1,3-dichlorobenzene	19.758	146	418201	1.73	ppb		99
73) benzyl chloride	19.840	91	182140	1.97	ppb		98
74) 1,4-dichlorobenzene	19.909	146	391137	1.75	ppb		98
75) 1,2,3-trimethylbenzene	19.960	105	755341	1.68	ppb		99
76) 1,2-dichlorobenzene	20.269	146	421303	1.78	ppb		97
77) 1,2,4-trichlorobenzene	22.406	180	104361	1.98	ppb		94
78) Naphthalene	22.607	128	225075	1.93	ppb		99
79) Hexachloro-1,3-butadiene	22.739	225	352013	1.62	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022326.D
Acq On : 24 Feb 2023 4:53 am
Operator : RJP
Sample : A1UG_1.50
Misc : A223_1UG
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 24 07:46:59 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022327.D
Acq On : 24 Feb 2023 5:41 am
Operator : RJP
Sample : A1UG_2.0
Misc : A223_1UG
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 24 07:47:24 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.357	128	66737	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.650	114	400855	1.00	ppb		0.00
50) Chlorobenzene-d5	16.435	117	334665	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.159	95	226273	1.13	ppb		-0.03
Spiked Amount 1.000	Range 70 - 130		Recovery = 113.00%				
Target Compounds							Qvalue
2) Propylene	3.920	41	154044	2.14	ppb		96
3) Freon 12	4.154	85	574276	2.17	ppb		100
4) Chloromethane	4.154	50	189943	2.15	ppb		99
5) Freon 114	4.154	85	574276	2.17	ppb		97
6) Vinyl Chloride	4.337	62	183970	2.22	ppb		100
7) Butane	4.433	43	193219	2.21	ppb	#	87
8) 1,3-butadiene	4.433	39	125591	2.36	ppb		85
9) Bromomethane	4.758	94	180581	2.17	ppb		99
10) Chloroethane	4.923	64	82835	2.13	ppb		97
11) Ethanol	5.766	45	249906	1.83	ppb	#	72
12) Acrolein	5.568	56	33652	2.09	ppb		96
13) Vinyl Bromide	5.238	106	173318	2.23	ppb		99
14) Freon 11	5.505	101	536252	2.17	ppb		100
15) Acetone	5.667	58	87430	1.73	ppb	#	1
16) Pentane	5.775	42	156454	2.01	ppb	#	45
17) Isopropyl alcohol	5.766	45	249906	2.28	ppb	#	71
18) 1,1-dichloroethene	6.232	96	239016	2.20	ppb		97
19) Freon 113	6.433	101	537584	2.15	ppb		94
20) t-Butyl alcohol	6.448	59	436440	2.25	ppb		98
21) Methylene chloride	6.679	84	208391	2.17	ppb		96
22) Allyl chloride	6.664	41	220805	2.28	ppb		93
23) Carbon disulfide	6.835	76	570390	2.22	ppb		95
24) trans-1,2-dichloroethene	7.592	61	284769	2.28	ppb		94
25) methyl tert-butyl ether	7.607	73	652891	2.20	ppb		97
26) 1,1-dichloroethane	8.006	63	444718	2.21	ppb		97
27) Vinyl acetate	7.991	43	233280	2.32	ppb		99
28) Methyl Ethyl Ketone	8.477	72	111677	2.38	ppb	#	1
29) cis-1,2-dichloroethene	8.924	61	264697m	2.20	ppb		
30) Hexane	8.534	57	416267	2.26	ppb		99
31) Ethyl acetate	9.066	43	524404	2.25	ppb		98
32) Chloroform	9.513	83	491920	2.16	ppb		99
33) Tetrahydrofuran	9.669	42	206214	2.35	ppb		92
34) 1,2-dichloroethane	10.612	62	275063	2.17	ppb		95
36) 1,1,1-trichloroethane	10.323	97	474070	2.03	ppb		98
37) Cyclohexane	11.032	56	406935	2.10	ppb		87
38) Carbon tetrachloride	10.969	117	425017	2.07	ppb		92
39) Benzene	10.933	78	819771	2.03	ppb		96
40) Methyl methacrylate	12.536	41	249157	2.04	ppb	#	86
41) 1,4-dioxane	12.542	88	172596	1.93	ppb		96
42) 2,2,4-trimethylpentane	11.818	57	1281185	2.02	ppb		100
43) Heptane	12.176	43	407306	2.06	ppb		98
44) Trichloroethene	12.296	130	335921	1.99	ppb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022327.D
Acq On : 24 Feb 2023 5:41 am
Operator : RJP
Sample : A1UG_2.0
Misc : A223_1UG
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 24 07:47:24 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D

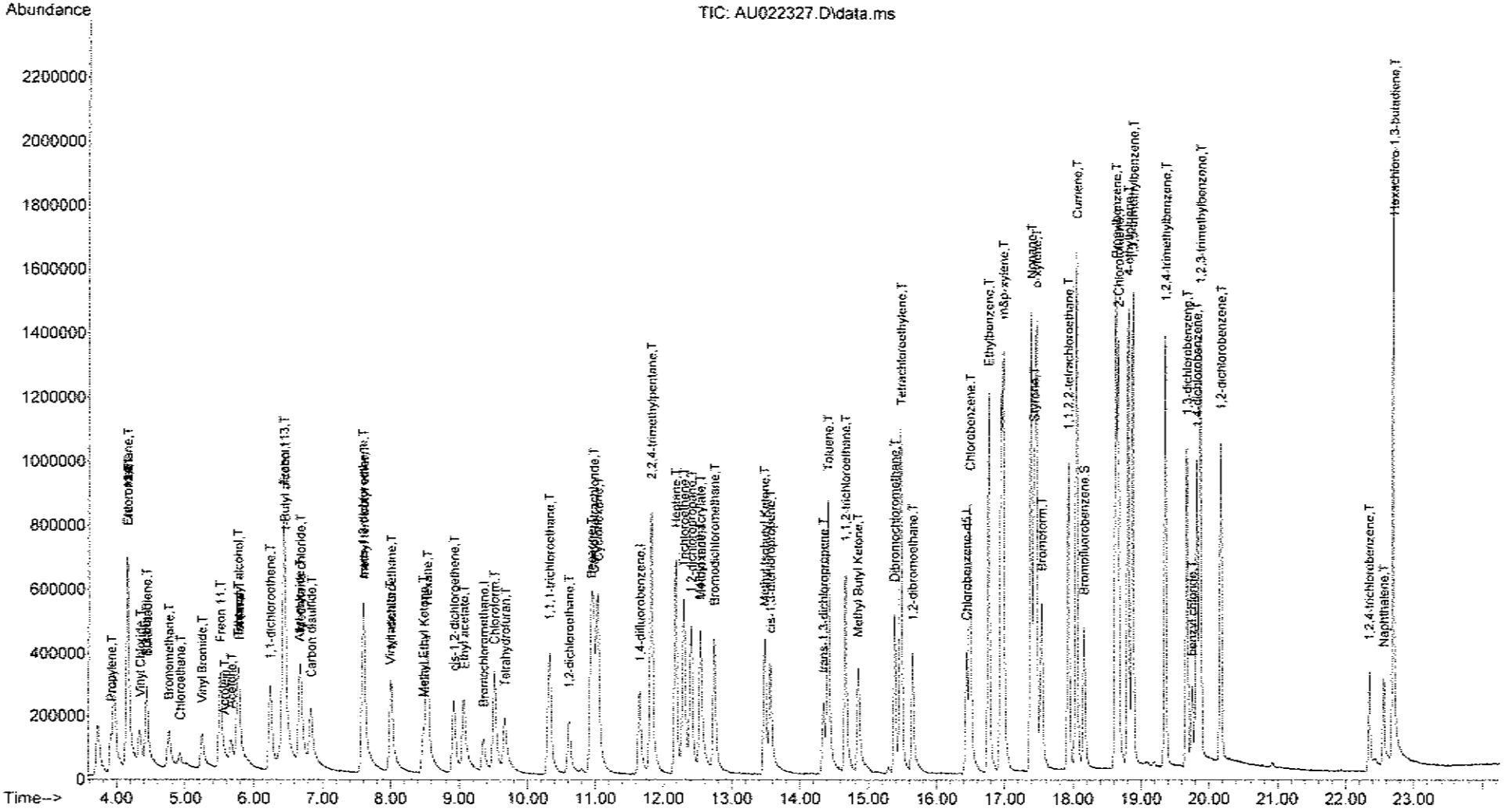
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 1,2-dichloropropane	12.404	63	313615	1.97	ppb		97
46) Bromodichloromethane	12.743	83	478060	2.09	ppb		100
47) cis-1,3-dichloropropene	13.568	75	355012	2.08	ppb		99
48) trans-1,3-dichloropropene	14.340	75	265970	2.05	ppb		95
49) 1,1,2-trichloroethane	14.664	97	327356	1.97	ppb		97
51) Toluene	14.412	92	570011	2.19	ppb		95
52) Methyl Isobutyl Ketone	13.481	43	491037	2.19	ppb		98
53) Dibromochloromethane	15.382	129	409205m	2.16	ppb		
54) Methyl Butyl Ketone	14.847	43	392192	2.27	ppb		92
55) 1,2-dibromoethane	15.643	107	431802	2.14	ppb		98
56) Tetrachloroethylene	15.475	164	365492	2.07	ppb		97
57) Chlorobenzene	16.486	112	727067	2.11	ppb		98
58) Ethylbenzene	16.757	91	1220909	2.18	ppb		100
59) m&p-xylene	16.970	91	1873435	4.42	ppb		99
60) Nonane	17.378	43	584940	2.20	ppb		96
61) Styrene	17.426	104	699516	2.36	ppb		87
62) Bromoform	17.540	173	360303	2.37	ppb		93
63) o-xylene	17.456	91	1086527	2.18	ppb		96
64) Cumene	18.047	105	1421975	2.30	ppb		98
66) 1,1,2,2-tetrachloroethane	17.927	83	710634	2.15	ppb		97
67) Propylbenzene	18.624	120	379298	2.36	ppb	#	1
68) 2-Chlorotoluene	18.660	126	348915	2.30	ppb	#	1
69) 4-ethyltoluene	18.804	105	1240649m	2.45	ppb		
70) 1,3,5-trimethylbenzene	18.870	105	1098718	2.16	ppb		96
71) 1,2,4-trimethylbenzene	19.353	105	1054534	2.44	ppb		100
72) 1,3-dichlorobenzene	19.669	146	603073m	2.45	ppb		
73) benzyl chloride	19.747	91	219903m	2.34	ppb		
74) 1,4-dichlorobenzene	19.813	146	579302	2.55	ppb		98
75) 1,2,3-trimethylbenzene	19.864	105	1091686	2.39	ppb		99
76) 1,2-dichlorobenzene	20.164	146	569161	2.36	ppb		96
77) 1,2,4-trichlorobenzene	22.340	180	139124m	2.59	ppb		
78) Naphthalene	22.553	128	306038m	2.58	ppb		
79) Hexachloro-1,3-butadiene	22.691	225	493965	2.24	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022327.D
Acq On : 24 Feb 2023 5:41 am
Operator : RJP
Sample : A1UG_2.0
Misc : A223_1UG
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 24 07:47:24 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 07:45:52 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU023224.D



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data2\
Data File : AU022402.D
Acq On : 24 Feb 2023 9:14 am
Operator : RJP
Sample : A1UG_1.0
Misc : A223_1UG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 09:44:06 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	96	0.00
2	T	Propylene	1.208	1.236	-2.3	98	0.00
3	T	Freon 12	4.536	4.416	2.6	98	0.00
4	T	Chloromethane	1.499	1.558	-3.9	103	0.01
5	T	Freon 114	4.536	4.416	2.6	98	0.00
6	T	Vinyl Chloride	1.414	1.455	-2.9	99	0.01
7	T	Butane	1.524	1.839	-20.7	114	0.01
8	T	1,3-butadiene	0.981	0.954	2.8	100	0.01
9	T	Bromomethane	1.449	1.430	1.3	95	0.00
10	T	Chloroethane	0.649	0.637	1.8	93	0.00
11	T	Ethanol	2.017	1.974	2.1	100	0.01
12	T	Acrolein	0.259	0.220	15.1	89	0.00
13	T	Vinyl Bromide	1.362	1.359	0.2	99	0.01
14	T	Freon 11	4.362	4.291	1.6	100	0.01
15	T	Acetone	0.780	0.731	6.3	102	0.02
16	T	Pentane	1.355	1.337	1.3	98	0.02
17	T	Isopropyl alcohol	1.944	1.974	-1.5	100	0.01
18	T	1,1-dichloroethene	1.738	1.800	-3.6	95	0.00
19	T	Freon 113	4.198	4.229	-0.7	98	0.02
20	t	t-Butyl alcohol	3.321	3.295	0.8	96	0.02
21	T	Methylene chloride	1.708	1.609	5.8	94	0.00
22	T	Allyl chloride	1.646	1.602	2.7	95	0.00
23	T	Carbon disulfide	4.556	4.514	0.9	99	0.00
24	T	trans-1,2-dichloroethene	2.093	2.132	-1.9	97	0.00
25	T	methyl tert-butyl ether	4.955	4.985	-0.6	96	0.00
26	T	1,1-dichloroethane	3.381	3.426	-1.3	99	0.00
27	T	Vinyl acetate	1.633	1.595	2.3	90	0.02
28	T	Methyl Ethyl Ketone	0.785	0.791	-0.8	98	0.01
29	T	cis-1,2-dichloroethene	2.067	1.954	5.5	96	0.01
30	T	Hexane	3.085	3.062	0.7	96	0.01
31	T	Ethyl acetate	3.756	3.745	0.3	94	0.00
32	T	Chloroform	3.792	3.795	-0.1	98	0.00
33	T	Tetrahydrofuran	1.530	1.543	-0.8	103	0.00
34	T	1,2-dichloroethane	2.059	2.050	0.4	96	0.00
35	I	1,4-difluorobenzene	1.000	1.000	0.0	98	0.00
36	T	1,1,1-trichloroethane	0.604	0.603	0.2	99	0.00
37	T	Cyclohexane	0.516	0.498	3.5	99	0.01
38	T	Carbon tetrachloride	0.520	0.535	-2.9	99	0.01
39	T	Benzene	1.031	1.011	1.9	96	0.00
40	T	Methyl methacrylate	0.300	0.293	2.3	93	0.01
41	T	1,4-dioxane	0.220	0.211	4.1	93	0.00
42	T	2,2,4-trimethylpentane	1.595	1.568	1.7	96	0.00
43	T	Heptane	0.490	0.494	-0.8	96	0.00
44	T	Trichloroethene	0.483	0.415	14.1	96	0.00
45	T	1,2-dichloropropane	0.403	0.398	1.2	97	0.00
46	T	Bromodichloromethane	0.584	0.580	0.7	98	0.00
47	T	cis-1,3-dichloropropene	0.413	0.416	-0.7	97	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data2\
Data File : AU022402.D
Acq On : 24 Feb 2023 9:14 am
Operator : RJP
Sample : A1UG_1.0
Misc : A223_1UG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 09:44:06 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	T	trans-1,3-dichloropropene	0.302	0.304	-0.7	97	0.00
49	T	1,1,2-trichloroethane	0.418	0.414	1.0	98	0.00
50	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
51	T	Toluene	0.849	0.830	2.2	97	0.00
52	T	Methyl Isobutyl Ketone	0.730	0.718	1.6	96	0.00
53	T	Dibromochloromethane	0.577	0.595	-3.1	100	0.00
54	T	Methyl Butyl Ketone	0.552	0.541	2.0	93	0.00
55	T	1,2-dibromoethane	0.653	0.642	1.7	96	0.00
56	T	Tetrachloroethylene	0.576	0.561	2.6	98	0.00
57	T	Chlorobenzene	1.096	1.077	1.7	96	0.00
58	T	Ethylbenzene	1.753	1.758	-0.3	96	0.00
59	T	m&p-xylene	1.309	1.317	-0.6	95	0.00
60	T	Nonane	0.829	0.834	-0.6	97	0.00
61	T	Styrene	0.922	0.928	-0.7	96	0.00
62	T	Bromoform	0.476	0.498	-4.6	101	0.00
63	T	o-xylene	1.552	1.545	0.5	95	0.00
64	T	Cumene	1.963	1.947	0.8	97	0.00
65	S	Bromofluorobenzene	0.595	0.616	-3.5	94	0.00
66	T	1,1,2,2-tetrachloroethane	1.036	1.037	-0.1	97	0.00
67	T	Propylbenzene	0.497	0.491	1.2	94	0.00
68	T	2-Chlorotoluene	0.472	0.459	2.8	93	0.00
69	T	4-ethyltoluene	1.594	1.623	-1.8	94	0.00
70	T	1,3,5-trimethylbenzene	1.611	1.595	1.0	94	0.00
71	T	1,2,4-trimethylbenzene	1.336	1.306	2.2	93	0.00
72	T	1,3-dichlorobenzene	0.739	0.745	-0.8	93	0.00
73	T	benzyl chloride	0.265	0.281	-6.0	92	0.00
74	T	1,4-dichlorobenzene	0.674	0.724	-7.4	99	0.00
75	T	1,2,3-trimethylbenzene	1.386	1.339	3.4	91	0.00
76	T	1,2-dichlorobenzene	0.730	0.691	5.3	89	0.00
77	T	1,2,4-trichlorobenzene	0.167	0.177	-6.0	90	0.00
78	T	Naphthalene	0.371	0.413	-11.3	120	0.00
79	T	Hexachloro-1,3-butadiene	0.685	0.672	1.9	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022402.D
Acq On : 24 Feb 2023 9:14 am
Operator : RJP
Sample : A1UG_1.0
Misc : A223_1UG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 09:44:06 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.360	128	63299	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.650	114	380547	1.00	ppb		0.00
50) Chlorobenzene-d5	16.435	117	313937	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.188	95	193264	1.03	ppb		0.03
Spiked Amount 1.000	Range 70 - 130		Recovery = 103.00%				
Target Compounds							Qvalue
2) Propylene	3.917	41	78227	1.02	ppb		97
3) Freon 12	4.154	85	279541	0.97	ppb		96
4) Chloromethane	4.154	50	98619	1.04	ppb		97
5) Freon 114	4.154	85	279541	0.97	ppb		96
6) Vinyl Chloride	4.340	62	92096	1.03	ppb		98
7) Butane	4.436	43	116382	1.21	ppb	#	80
8) 1,3-butadiene	4.442	39	60385	0.97	ppb		83
9) Bromomethane	4.758	94	90537	0.99	ppb		96
10) Chloroethane	4.917	64	40337	0.98	ppb		96
11) Ethanol	5.769	45	124940	0.98	ppb	#	63
12) Acrolein	5.571	56	13905	0.85	ppb	#	68
13) Vinyl Bromide	5.247	106	86045	1.00	ppb		98
14) Freon 11	5.508	101	271623	0.98	ppb		100
15) Acetone	5.670	58	46284	0.94	ppb	#	1
16) Pentane	5.778	42	84627	0.99	ppb	#	49
17) Isopropyl alcohol	5.769	45	124940	1.02	ppb	#	62
18) 1,1-dichloroethene	6.235	96	113969	1.04	ppb		97
19) Freon 113	6.436	101	267715	1.01	ppb		96
20) t-Butyl alcohol	6.457	59	208542	0.99	ppb		97
21) Methylene chloride	6.682	84	101824	0.94	ppb		96
22) Allyl chloride	6.664	41	101421	0.97	ppb		93
23) Carbon disulfide	6.832	76	285762	0.99	ppb		93
24) trans-1,2-dichloroethene	7.595	61	134924	1.02	ppb		94
25) methyl tert-butyl ether	7.604	73	315561	1.01	ppb		96
26) 1,1-dichloroethane	8.006	63	216844	1.01	ppb		97
27) Vinyl acetate	8.003	43	100951	0.98	ppb		96
28) Methyl Ethyl Ketone	8.489	72	50038	1.01	ppb	#	1
29) cis-1,2-dichloroethene	8.927	61	123661m	0.95	ppb		
30) Hexane	8.534	57	193819	0.99	ppb		97
31) Ethyl acetate	9.074	43	237073	1.00	ppb		94
32) Chloroform	9.519	83	240198	1.00	ppb		99
33) Tetrahydrofuran	9.675	42	97657	1.01	ppb		91
34) 1,2-dichloroethane	10.608	62	129785	1.00	ppb		98
36) 1,1,1-trichloroethane	10.317	97	229288	1.00	ppb		98
37) Cyclohexane	11.032	56	189341	0.96	ppb		87
38) Carbon tetrachloride	10.972	117	203412	1.03	ppb		93
39) Benzene	10.933	78	384640	0.98	ppb		95
40) Methyl methacrylate	12.542	41	111606	0.98	ppb		86
41) 1,4-dioxane	12.551	88	80167	0.96	ppb		96
42) 2,2,4-trimethylpentane	11.815	57	596873	0.98	ppb		99
43) Heptane	12.176	43	187924	1.01	ppb		98
44) Trichloroethene	12.299	130	158035	0.86	ppb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022402.D
Acq On : 24 Feb 2023 9:14 am
Operator : RJP
Sample : A1UG_1.0
Misc : A223_1UG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 09:44:06 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

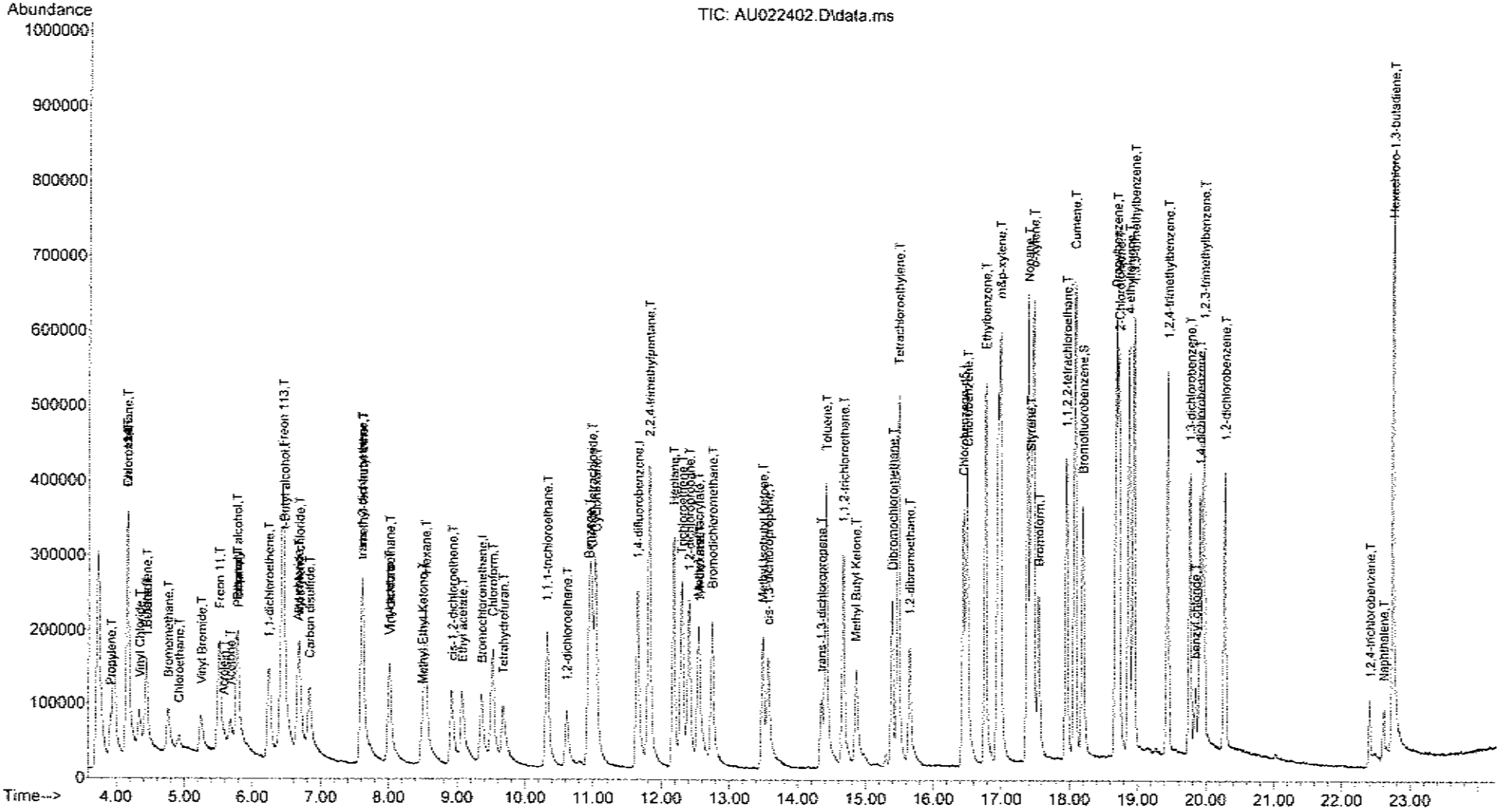
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 1,2-dichloropropane	12.404	63	151503	0.99	ppb		96
46) Bromodichloromethane	12.743	83	220590	0.99	ppb		98
47) cis-1,3-dichloropropene	13.565	75	158259	1.01	ppb		98
48) trans-1,3-dichloropropene	14.343	75	115724	1.01	ppb		91
49) 1,1,2-trichloroethane	14.667	97	157709	0.99	ppb		96
51) Toluene	14.412	92	260513	0.98	ppb		95
52) Methyl Isobutyl Ketone	13.484	43	225277	0.98	ppb		98
53) Dibromochloromethane	15.388	129	186660m	1.03	ppb		
54) Methyl Butyl Ketone	14.850	43	169919	0.98	ppb		92
55) 1,2-dibromoethane	15.643	107	201700	0.98	ppb		98
56) Tetrachloroethylene	15.472	164	175997	0.97	ppb		97
57) Chlorobenzene	16.492	112	338246	0.98	ppb		99
58) Ethylbenzene	16.760	91	551803	1.00	ppb		99
59) m&p-xylene	16.973	91	826778	2.01	ppb		99
60) Nonane	17.381	43	261775	1.01	ppb		98
61) Styrene	17.423	104	291394	1.01	ppb		86
62) Bromoform	17.549	173	156391	1.05	ppb		94
63) o-xylene	17.459	91	484988	1.00	ppb		95
64) Cumene	18.068	105	611099	0.99	ppb		98
66) 1,1,2,2-tetrachloroethane	17.945	83	325650	1.00	ppb		97
67) Propylbenzene	18.672	120	154266	0.99	ppb	#	1
68) 2-Chlorotoluene	18.714	126	143983	0.97	ppb	#	1
69) 4-ethyltoluene	18.861	105	509506m	1.02	ppb		
70) 1,3,5-trimethylbenzene	18.930	105	500834m	0.99	ppb		
71) 1,2,4-trimethylbenzene	19.431	105	409856	0.98	ppb		99
72) 1,3-dichlorobenzene	19.755	146	233758	1.01	ppb		99
73) benzyl chloride	19.843	91	88109	1.06	ppb		94
74) 1,4-dichlorobenzene	19.906	146	227244m	1.07	ppb		
75) 1,2,3-trimethylbenzene	19.960	105	420414	0.97	ppb		98
76) 1,2-dichlorobenzene	20.269	146	216979	0.95	ppb		98
77) 1,2,4-trichlorobenzene	22.409	180	55589m	1.06	ppb		
78) Naphthalene	22.607	128	129655m	1.11	ppb		
79) Hexachloro-1,3-butadiene	22.736	225	210957	0.98	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022402.D
Acq On : 24 Feb 2023 9:14 am
Operator : RJP
Sample : A1UG_1.0
Misc : A223_1UG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 09:44:06 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data2\
Data File : AU022502.D
Acq On : 25 Feb 2023 10:44 am
Operator : RJP
Sample : A1UG_1.0
Misc : A223_1UG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 25 11:13:12 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	88	0.00
2	T	Propylene	1.208	1.256	-4.0	91	0.00
3	T	Freon 12	4.536	4.793	-5.7	97	0.00
4	T	Chloromethane	1.499	1.661	-10.8	100	0.00
5	T	Freon 114	4.536	4.793	-5.7	97	0.00
6	T	Vinyl Chloride	1.414	1.583	-12.0	98	0.00
7	T	Butane	1.524	1.699	-11.5	96	0.00
8	T	1,3-butadiene	0.981	1.005	-2.4	97	0.00
9	T	Bromomethane	1.449	1.644	-13.5	100	0.00
10	T	Chloroethane	0.649	0.781	-20.3	104	0.00
11	T	Ethanol	2.017	1.973	2.2	91	0.00
12	T	Acrolein	0.259	0.275	-6.2	102	0.02
13	T	Vinyl Bromide	1.362	1.540	-13.1	102	0.00
14	T	Freon 11	4.362	4.763	-9.2	101	0.00
15	T	Acetone	0.780	0.734	5.9	94	0.02
16	T	Pentane	1.355	1.309	3.4	88	0.00
17	T	Isopropyl alcohol	1.944	1.973	-1.5	91	0.00
18	T	1,1-dichloroethene	1.738	1.898	-9.2	91	0.00
19	T	Freon 113	4.198	4.450	-6.0	94	0.00
20	t	t-Butyl alcohol	3.321	3.380	-1.8	90	0.00
21	T	Methylene chloride	1.708	1.691	1.0	91	0.00
22	T	Allyl chloride	1.646	1.662	-1.0	90	0.00
23	T	Carbon disulfide	4.556	4.648	-2.0	93	0.00
24	T	trans-1,2-dichloroethene	2.093	2.233	-6.7	93	0.00
25	T	methyl tert-butyl ether	4.955	4.859	1.9	86	0.00
26	T	1,1-dichloroethane	3.381	3.549	-5.0	94	0.00
27	T	Vinyl acetate	1.633	1.590	2.6	82	0.01
28	T	Methyl Ethyl Ketone	0.785	0.825	-5.1	94	0.00
29	T	cis-1,2-dichloroethene	2.067	2.011	2.7	90	0.00
30	T	Hexane	3.085	3.022	2.0	87	0.00
31	T	Ethyl acetate	3.756	3.906	-4.0	90	0.00
32	T	Chloroform	3.792	3.912	-3.2	92	0.00
33	T	Tetrahydrofuran	1.530	1.545	-1.0	94	0.00
34	T	1,2-dichloroethane	2.059	2.185	-6.1	94	0.00
35	I	1,4-difluorobenzene	1.000	1.000	0.0	84	0.00
36	T	1,1,1-trichloroethane	0.604	0.645	-6.8	91	0.00
37	T	Cyclohexane	0.516	0.538	-4.3	91	0.00
38	T	Carbon tetrachloride	0.520	0.527	-1.3	84	0.00
39	T	Benzene	1.031	1.078	-4.6	88	0.00
40	T	Methyl methacrylate	0.300	0.316	-5.3	86	0.00
41	T	1,4-dioxane	0.220	0.213	3.2	81	0.00
42	T	2,2,4-trimethylpentane	1.595	1.663	-4.3	87	0.00
43	T	Heptane	0.490	0.518	-5.7	87	0.00
44	T	Trichloroethene	0.483	0.432	10.6	86	0.00
45	T	1,2-dichloropropane	0.403	0.432	-7.2	90	0.00
46	T	Bromodichloromethane	0.584	0.605	-3.6	88	0.00
47	T	cis-1,3-dichloropropene	0.413	0.430	-4.1	86	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data2\
Data File : AU022502.D
Acq On : 25 Feb 2023 10:44 am
Operator : RJP
Sample : A1UG_1.0
Misc : A223_1UG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 25 11:13:12 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	T	trans-1,3-dichloropropene	0.302	0.314	-4.0	86	0.00
49	T	1,1,2-trichloroethane	0.418	0.445	-6.5	90	0.00
50	I	Chlorobenzene-d5	1.000	1.000	0.0	85	0.00
51	T	Toluene	0.849	0.824	2.9	85	0.00
52	T	Methyl Isobutyl Ketone	0.730	0.770	-5.5	91	0.00
53	T	Dibromochloromethane	0.577	0.563	2.4	83	0.00
54	T	Methyl Butyl Ketone	0.552	0.587	-6.3	89	0.00
55	T	1,2-dibromoethane	0.653	0.678	-3.8	90	0.00
56	T	Tetrachloroethylene	0.576	0.572	0.7	88	0.00
57	T	Chlorobenzene	1.096	1.095	0.1	86	0.00
58	T	Ethylbenzene	1.753	1.783	-1.7	86	0.00
59	T	m&p-xylene	1.309	1.335	-2.0	85	0.00
60	T	Nonane	0.829	0.862	-4.0	88	0.00
61	T	Styrene	0.922	0.954	-3.5	87	0.00
62	T	Bromoform	0.476	0.454	4.6	81	0.00
63	T	o-xylene	1.552	1.527	1.6	83	0.00
64	T	Cumene	1.963	1.930	1.7	84	0.00
65	S	Bromofluorobenzene	0.595	0.639	-7.4	86	-0.01
66	T	1,1,2,2-tetrachloroethane	1.036	1.114	-7.5	91	-0.01
67	T	Propylbenzene	0.497	0.485	2.4	82	-0.01
68	T	2-Chlorotoluene	0.472	0.470	0.4	84	0.00
69	T	4-ethyltoluene	1.594	1.581	0.8	80	-0.01
70	T	1,3,5-trimethylbenzene	1.611	1.602	0.6	83	-0.01
71	T	1,2,4-trimethylbenzene	1.336	1.301	2.6	81	-0.01
72	T	1,3-dichlorobenzene	0.739	0.760	-2.8	84	0.00
73	T	benzyl chloride	0.265	0.274	-3.4	79	0.00
74	T	1,4-dichlorobenzene	0.674	0.762	-13.1	91	0.00
75	T	1,2,3-trimethylbenzene	1.386	1.319	4.8	78	-0.01
76	T	1,2-dichlorobenzene	0.730	0.718	1.6	81	-0.01
77	T	1,2,4-trichlorobenzene	0.167	0.131	21.6	58	0.00
78	T	Naphthalene	0.371	0.269	27.5	69	0.00
79	T	Hexachloro-1,3-butadiene	0.685	0.675	1.5	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022502.D
Acq On : 25 Feb 2023 10:44 am
Operator : RJP
Sample : A1UG_1.0
Misc : A223_1UG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 25 11:13:12 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.358	128	57826	1.00	ppb	#	0.00
35) 1,4-difluorobenzene	11.646	114	326838	1.00	ppb		0.00
50) Chlorobenzene-d5	16.434	117	276201	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.172	95	176593	1.07	ppb		0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 107.00%				
Target Compounds							Qvalue
2) Propylene	3.913	41	72641	1.04	ppb		100
3) Freon 12	4.153	85	277170	1.06	ppb		97
4) Chloromethane	4.150	50	96057	1.11	ppb		95
5) Freon 114	4.153	85	277170	1.06	ppb		99
6) Vinyl Chloride	4.330	62	91510	1.12	ppb		96
7) Butane	4.429	43	98238	1.11	ppb		95
8) 1,3-butadiene	4.432	39	58094	1.02	ppb		76
9) Bromomethane	4.759	94	95048	1.13	ppb		98
10) Chloroethane	4.916	64	45175	1.20	ppb		100
11) Ethanol	5.762	45	114064	0.98	ppb	#	67
12) Acrolein	5.588	56	15929m	1.06	ppb		
13) Vinyl Bromide	5.237	106	89059m	1.13	ppb		
14) Freon 11	5.501	101	275452	1.09	ppb		100
15) Acetone	5.675	58	42435	0.94	ppb	#	1
16) Pentane	5.771	42	75666	0.97	ppb	#	59
17) Isopropyl alcohol	5.762	45	114064	1.01	ppb	#	66
18) 1,1-dichloroethene	6.236	96	109746	1.09	ppb		97
19) Freon 113	6.426	101	257336	1.06	ppb		97
20) t-Butyl alcohol	6.450	59	195452	1.02	ppb		95
21) Methylene chloride	6.681	84	97811	0.99	ppb		94
22) Allyl chloride	6.663	41	96106	1.01	ppb		98
23) Carbon disulfide	6.822	76	268787	1.02	ppb		93
24) trans-1,2-dichloroethene	7.590	61	129100	1.07	ppb		93
25) methyl tert-butyl ether	7.599	73	280987	0.98	ppb		98
26) 1,1-dichloroethane	8.002	63	205226	1.05	ppb		97
27) Vinyl acetate	7.999	43	91953	0.97	ppb		98
28) Methyl Ethyl Ketone	8.482	72	47716	1.05	ppb	#	1
29) cis-1,2-dichloroethene	8.917	61	116297m	0.97	ppb		
30) Hexane	8.530	57	174765	0.98	ppb		97
31) Ethyl acetate	9.067	43	225891	1.04	ppb		98
32) Chloroform	9.515	83	226213	1.03	ppb		100
33) Tetrahydrofuran	9.674	42	89350	1.01	ppb		98
34) 1,2-dichloroethane	10.610	62	126370	1.06	ppb		97
36) 1,1,1-trichloroethane	10.322	97	210651	1.07	ppb		98
37) Cyclohexane	11.025	56	175810	1.04	ppb		92
38) Carbon tetrachloride	10.967	117	172285	1.01	ppb		93
39) Benzene	10.934	78	352440	1.05	ppb		93
40) Methyl methacrylate	12.541	41	103281	1.05	ppb		90
41) 1,4-dioxane	12.547	88	69713	0.97	ppb		93
42) 2,2,4-trimethylpentane	11.814	57	543688	1.04	ppb		98
43) Heptane	12.174	43	169394	1.06	ppb		98
44) Trichloroethene	12.294	130	141323	0.90	ppb		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022502.D
Acq On : 25 Feb 2023 10:44 am
Operator : RJP
Sample : A1UG_1.0
Misc : A223_1UG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 25 11:13:12 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

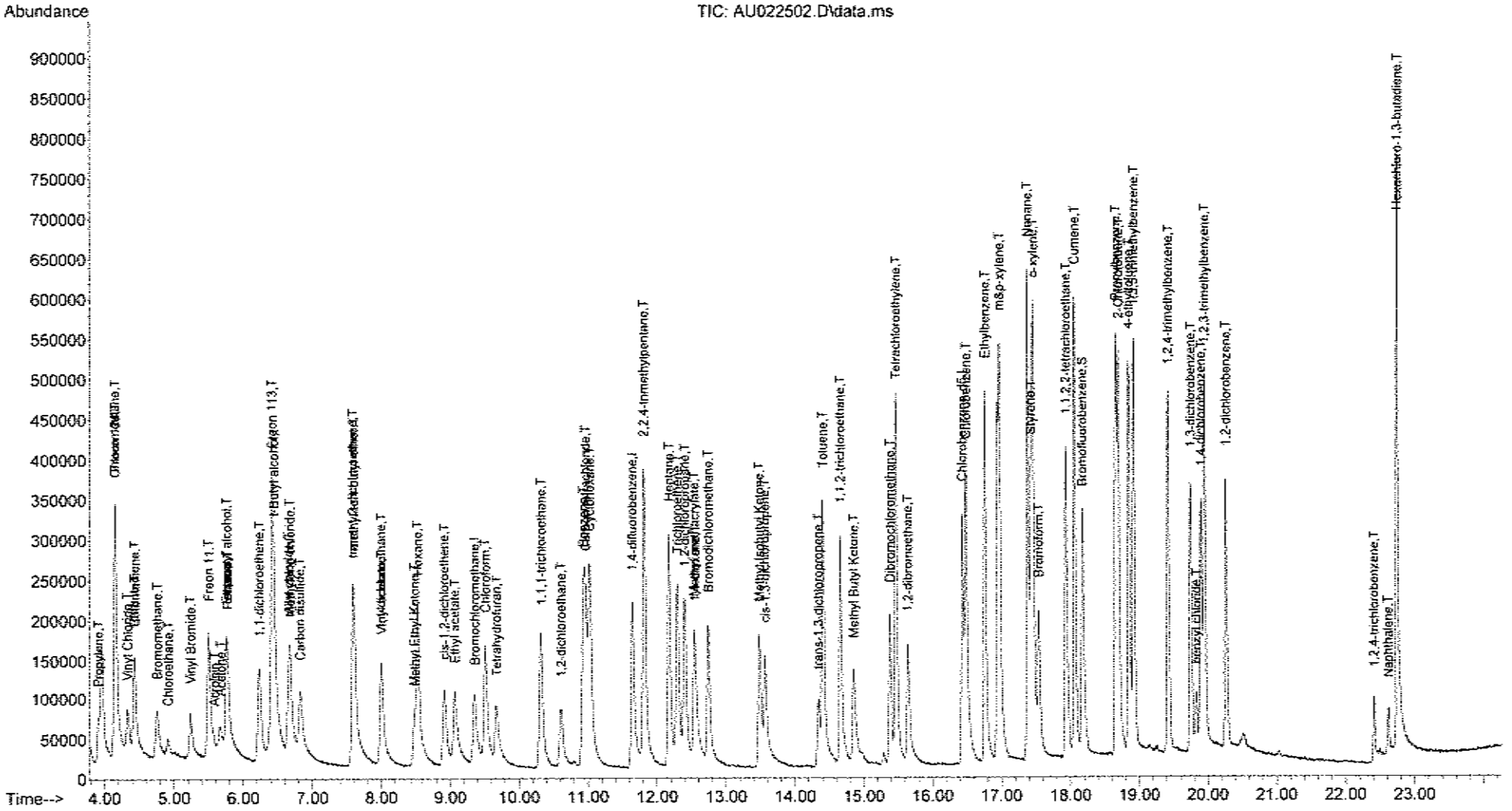
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 1,2-dichloropropane	12.402	63	141101	1.07	ppb		96
46) Bromodichloromethane	12.745	83	197813	1.04	ppb		98
47) cis-1,3-dichloropropene	13.567	75	140514	1.04	ppb		98
48) trans-1,3-dichloropropene	14.342	75	102614	1.04	ppb		97
49) 1,1,2-trichloroethane	14.663	97	145499	1.07	ppb		97
51) Toluene	14.411	92	227517	0.97	ppb		92
52) Methyl Isobutyl Ketone	13.483	43	212751	1.05	ppb		98
53) Dibromochloromethane	15.386	129	155440m	0.98	ppb		
54) Methyl Butyl Ketone	14.855	43	162002	1.06	ppb		96
55) 1,2-dibromoethane	15.645	107	187194	1.04	ppb		98
56) Tetrachloroethylene	15.473	164	158019	0.99	ppb		98
57) Chlorobenzene	16.488	112	302484	1.00	ppb		98
58) Ethylbenzene	16.761	91	492405	1.02	ppb		99
59) m&p-xylene	16.971	91	737417	2.04	ppb		98
60) Nonane	17.377	43	238078	1.04	ppb		100
61) Styrene	17.425	104	263430	1.03	ppb		86
62) Bromoform	17.539	173	125458	0.95	ppb		93
63) o-xylene	17.458	91	421872	0.98	ppb		96
64) Cumene	18.061	105	533094	0.98	ppb		99
66) 1,1,2,2-tetrachloroethane	17.935	83	307771	1.08	ppb		96
67) Propylbenzene	18.662	120	133976	0.98	ppb	#	1
68) 2-Chlorotoluene	18.701	126	129808	1.00	ppb	#	1
69) 4-ethyltoluene	18.848	105	436741m	0.99	ppb		
70) 1,3,5-trimethylbenzene	18.920	105	442573m	0.99	ppb		
71) 1,2,4-trimethylbenzene	19.418	105	359387	0.97	ppb		99
72) 1,3-dichlorobenzene	19.748	146	209889	1.03	ppb		99
73) benzyl chloride	19.829	91	75649	1.03	ppb		99
74) 1,4-dichlorobenzene	19.898	146	210367m	1.13	ppb		
75) 1,2,3-trimethylbenzene	19.949	105	364360	0.95	ppb		98
76) 1,2-dichlorobenzene	20.259	146	198426	0.98	ppb		97
77) 1,2,4-trichlorobenzene	22.408	180	36057	0.78	ppb		96
78) Naphthalene	22.612	128	74285	0.73	ppb		98
79) Hexachloro-1,3-butadiene	22.744	225	186565	0.99	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022502.D
Acq On : 25 Feb 2023 10:44 am
Operator : RJP
Sample : A1UG_1.0
Misc : A223_1UG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 25 11:13:12 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

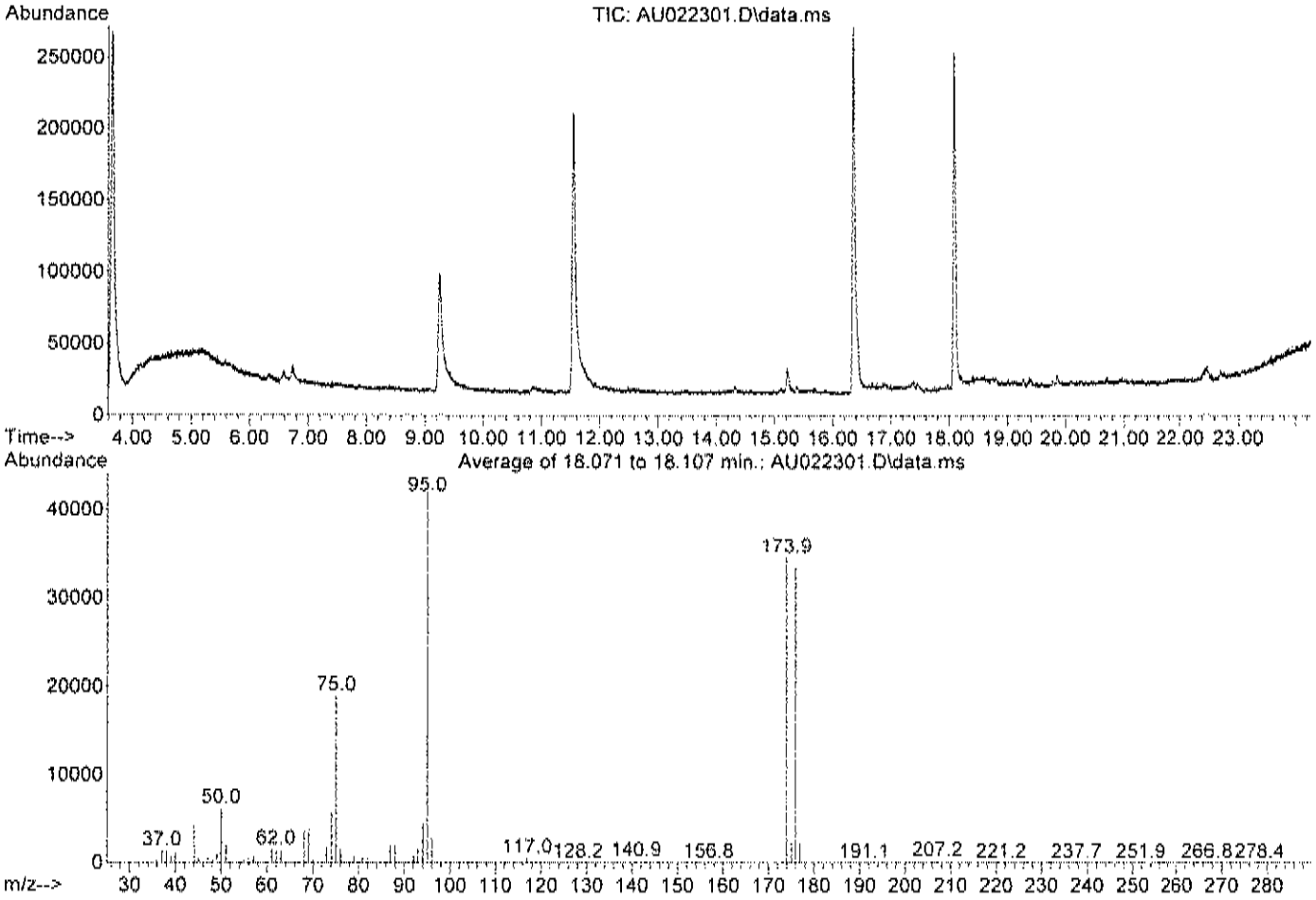
RAW DATA

BFB

Data Path : C:\msdchem\1\data2\
Data File : AU022301.D
Acq On : 23 Feb 2023 10:36 am
Operator : RJP
Sample : BFB1UG
Misc : A223_1UG
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\A223_1UG.M
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 03 13:46:17 2023



Spectrum Information: Average of 18.071 to 18.107 min.

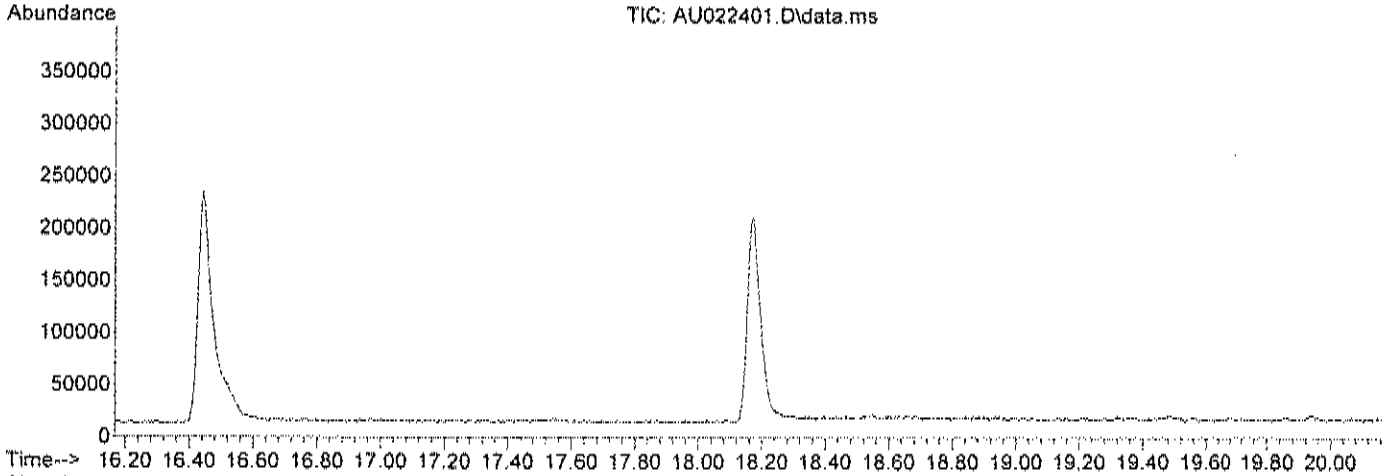
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.8	6228	PASS
75	95	30	66	45.1	19001	PASS
95	95	100	100	100.0	42154	PASS
96	95	5	9	7.3	3073	PASS
173	174	0.00	2	0.5	163	PASS
174	95	50	120	82.2	34654	PASS
175	174	4	9	6.8	2369	PASS
176	174	95	101	96.9	33579	PASS
177	176	5	9	6.4	2162	PASS

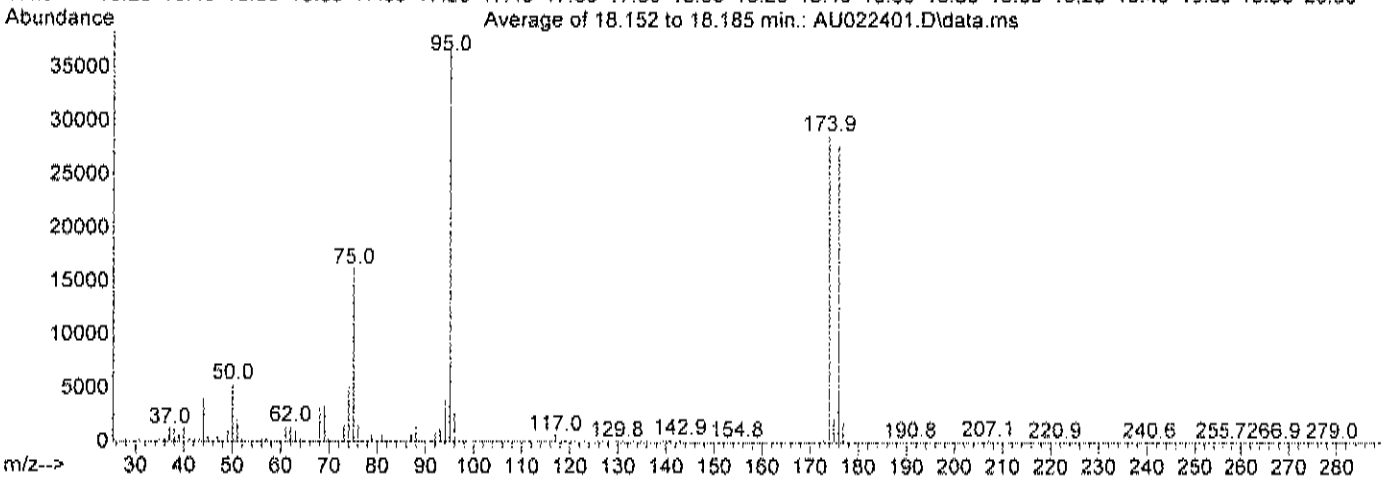
BFB

Data Path : C:\msdchem\1\data2\
Data File : AU022401.D
Acq On : 24 Feb 2023 8:28 am
Operator : RJP
Sample : BFB1UG
Misc : A223_1UG
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\A223_1UG.M
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 03 13:46:17 2023





Spectrum Information: Average of 18.152 to 18.185 min.

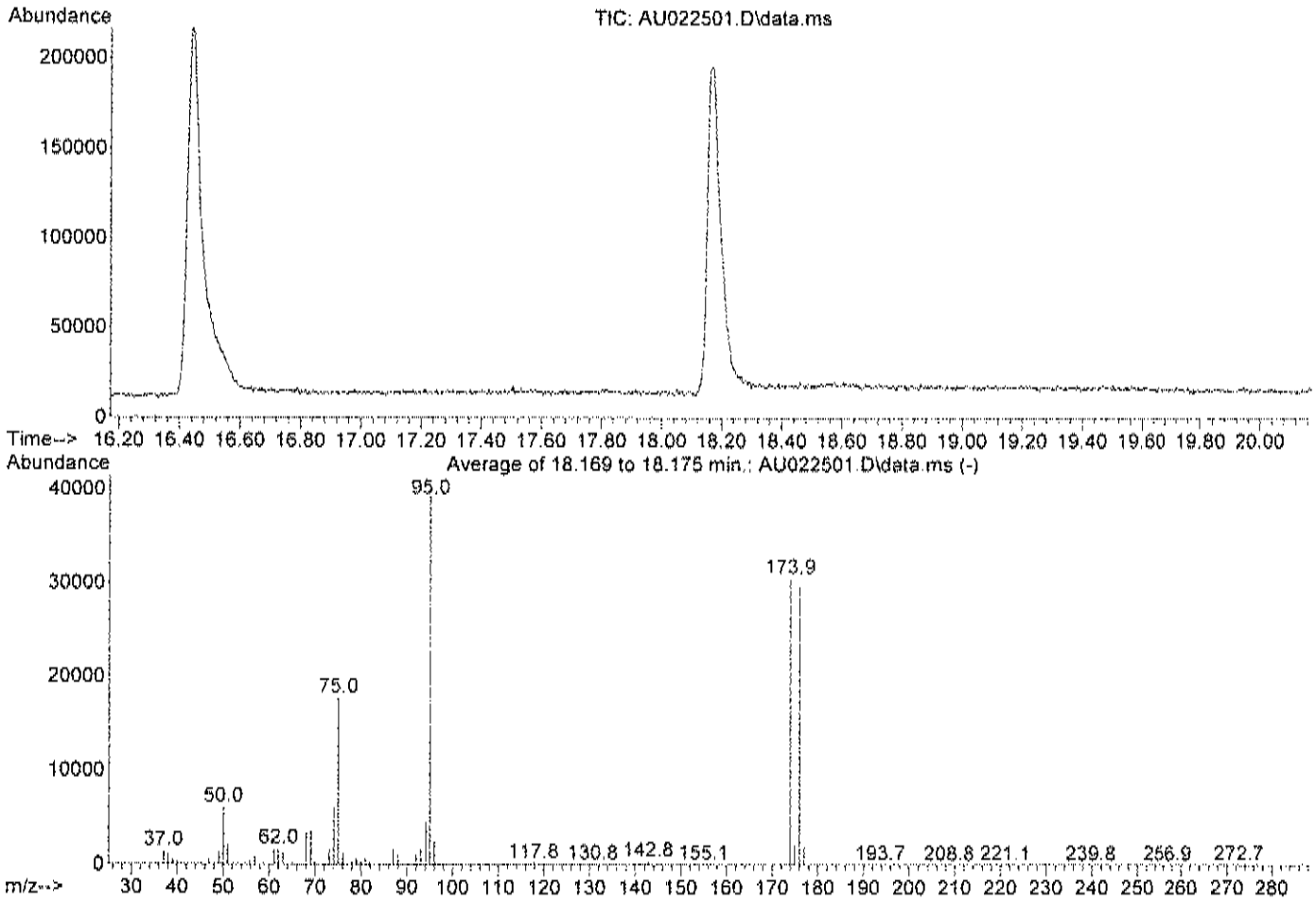
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.6	5345	PASS
75	95	30	66	44.4	16219	PASS
95	95	100	100	100.0	36541	PASS
96	95	5	9	7.5	2758	PASS
173	174	0.00	2	0.4	127	PASS
174	95	50	120	78.6	28707	PASS
175	174	4	9	7.8	2238	PASS
176	174	95	101	96.5	27703	PASS
177	176	5	9	6.4	1778	PASS

BFB

Data Path : C:\msdchem\1\data2\
Data File : AU022501.D
Acq On : 25 Feb 2023 9:57 am
Operator : RJP
Sample : BFB1UG
Misc : A223_1UG
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\A223_1UG.M
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 03 13:46:17 2023



Spectrum Information: Average of 18.169 to 18.175 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.5	6139	PASS
75	95	30	66	45.1	17800	PASS
95	95	100	100	100.0	39499	PASS
96	95	5	9	6.5	2580	PASS
173	174	0.00	2	0.4	123	PASS
174	95	50	120	77.4	30568	PASS
175	174	4	9	7.1	2181	PASS
176	174	95	101	97.4	29784	PASS
177	176	5	9	6.6	1951	PASS

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

CENTEK LABORATORIES, LLC

Date: *23-Mar-23*

ANALYTICAL QC SUMMARY REPORT

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: **AMB1UG-022423** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **ZZZZZ** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/24/2023** SeqNo: **229636**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.040	0.040									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: **AMB1UG-022423** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **ZZZZZ** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/24/2023** SeqNo: **229636**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.030	0.030									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.040	0.040									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Sample ID: **AMB1UG-022423** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **ZZZZZ** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/24/2023** SeqNo: **229636**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.030	0.030									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

Sample ID: **AMB1UG-022523** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20051**
Client ID: **ZZZZZ** Batch ID: **R20051** TestNo: **TO-15** Analysis Date: **2/25/2023** SeqNo: **229657**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.040	0.040									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: **AMB1UG-022523** SampType: **MBLK** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20051**
Client ID: **ZZZZZ** Batch ID: **R20051** TestNo: **TO-15** Analysis Date: **2/25/2023** SeqNo: **229657**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.030	0.030									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.040	0.040									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:

,	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: AMB1UG-022523	SampType: MBLK	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 20051
Client ID: ZZZZZ	Batch ID: R20051	TestNo: TO-15		Analysis Date: 2/25/2023	SeqNo: 229657

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.030	0.030									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

Qualifiers:

-	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022404.D
Acq On : 24 Feb 2023 10:38 am
Operator : RJP
Sample : AMB1UG-022423
Misc : A223_1UG
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 09:29:10 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

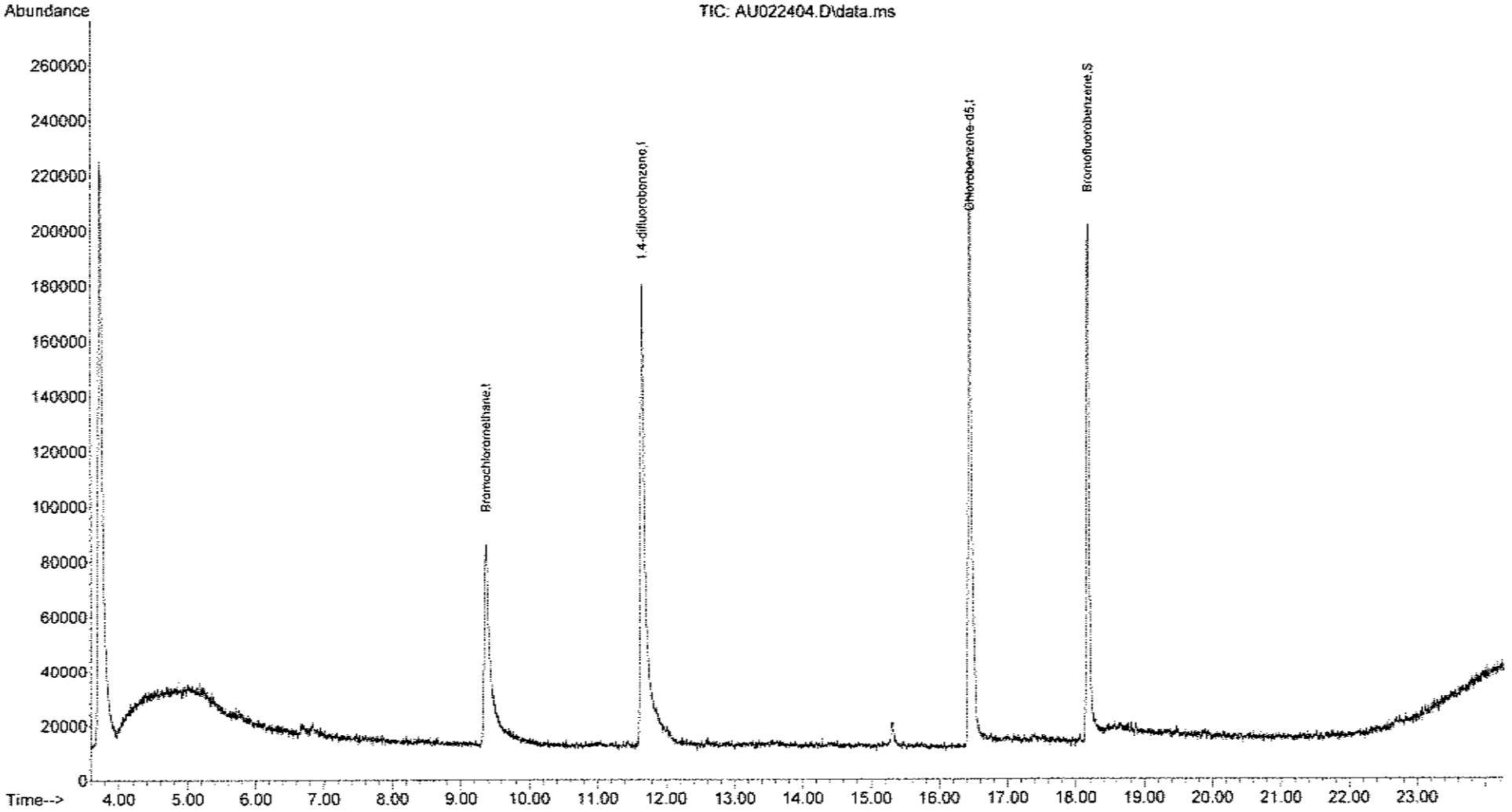
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.369	128	59155	1.00	ppb	0.01
35) 1,4-difluorobenzene	11.650	114	331717	1.00	ppb	0.00
50) Chlorobenzene-d5	16.441	117	245093	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.167	95	119497	0.82	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 82.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022404.D
Acq On : 24 Feb 2023 10:38 am
Operator : RJP
Sample : AMB1UG-022423
Misc : A223_1UG
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 09:29:10 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022504.D
Acq On : 25 Feb 2023 12:08 pm
Operator : RJP
Sample : AMB1UG-022523
Misc : A223_1UG
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 27 10:00:03 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

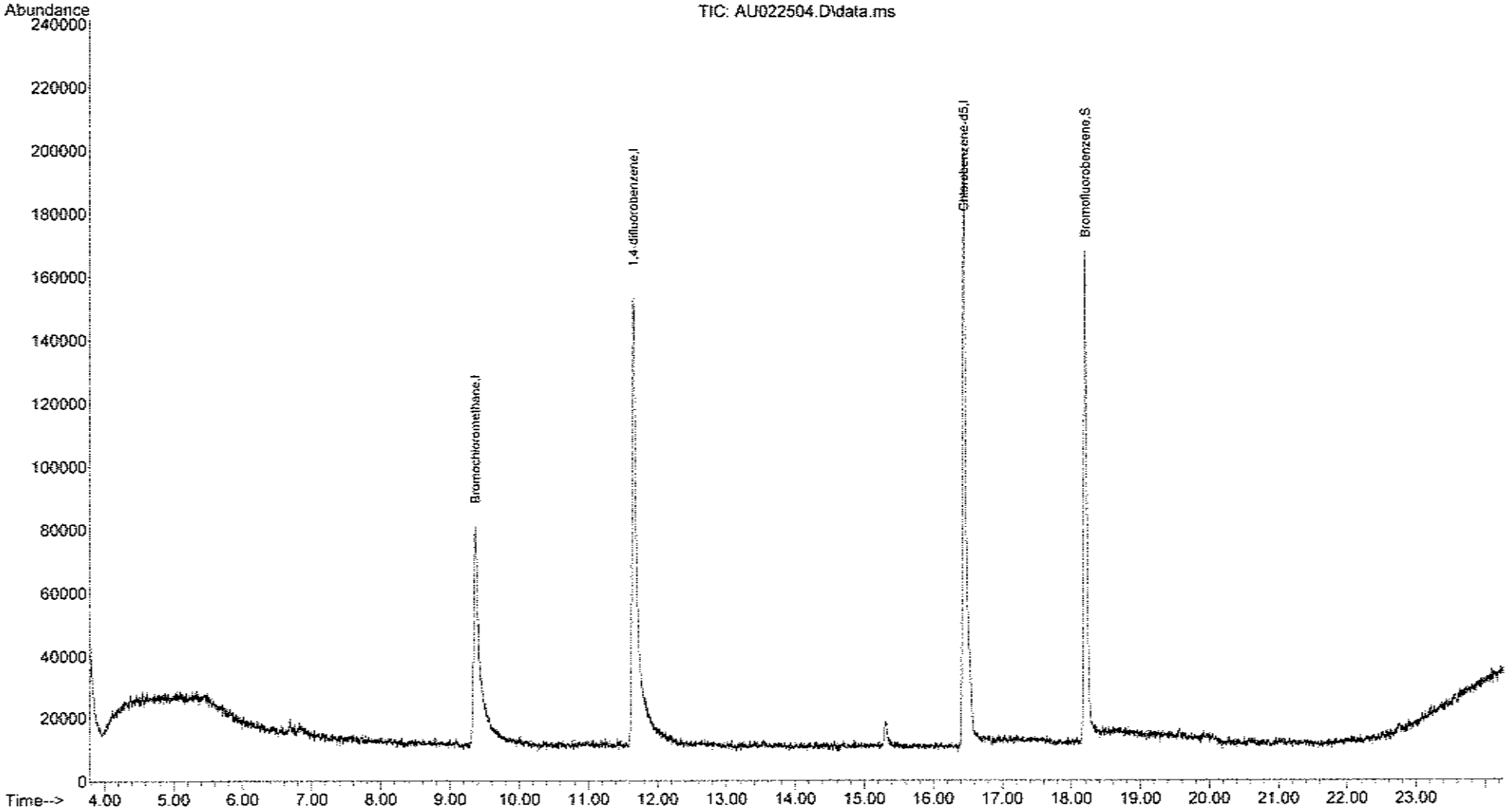
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.365	128	52114	1.00	ppb	# 0.00
35) 1,4-difluorobenzene	11.652	114	273032	1.00	ppb	0.00
50) Chlorobenzene-d5	16.440	117	217883	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.196	95	103739	0.80	ppb	0.04
Spiked Amount 1.000	Range 70 - 130		Recovery = 80.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022504.D
Acq On : 25 Feb 2023 12:08 pm
Operator : RJP
Sample : AMB1UG-022523
Misc : A223_1UG
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 27 10:00:03 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration



CENTEK LABORATORIES, LLC

Date: *23-Mar-23*

ANALYTICAL QC SUMMARY REPORT

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: **ALCS1UG-022423** SampType: **LCS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **ZZZZZ** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/24/2023** SeqNo: **229637**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9900	0.15	1	0	99.0	63.7	152				
1,1,2,2-Tetrachloroethane	0.9900	0.15	1	0	99.0	62.1	132				
1,1,2-Trichloroethane	0.9800	0.15	1	0	98.0	64.3	132				
1,1-Dichloroethane	0.9800	0.15	1	0	98.0	67.9	123				
1,1-Dichloroethene	1.000	0.040	1	0	100	59.4	122				
1,2,4-Trichlorobenzene	1.090	0.15	1	0	109	55	133				
1,2,4-Trimethylbenzene	1.000	0.15	1	0	100	64.1	128				
1,2-Dibromoethane	1.000	0.15	1	0	100	64.9	134				
1,2-Dichlorobenzene	0.9600	0.15	1	0	96.0	57.8	158				
1,2-Dichloroethane	0.9800	0.15	1	0	98.0	78.8	127				
1,2-Dichloropropane	0.9800	0.15	1	0	98.0	59.9	128				
1,3,5-Trimethylbenzene	1.060	0.15	1	0	106	70	133				
1,3-butadiene	0.9100	0.15	1	0	91.0	71.1	138				
1,3-Dichlorobenzene	1.000	0.15	1	0	100	66.2	137				
1,4-Dichlorobenzene	1.120	0.15	1	0	112	68.2	139				
1,4-Dioxane	0.9400	0.30	1	0	94.0	67.7	119				
2,2,4-trimethylpentane	0.9900	0.15	1	0	99.0	57	127				
4-ethyltoluene	1.040	0.15	1	0	104	67.9	131				
Acetone	1.120	0.30	1	0	112	47.6	146				
Allyl chloride	1.000	0.15	1	0	100	56.1	116				
Benzene	0.9900	0.15	1	0	99.0	66.2	126				
Benzyl chloride	0.8900	0.15	1	0	89.0	34.9	155				
Bromodichloromethane	1.000	0.15	1	0	100	69.6	133				
Bromoform	1.040	0.15	1	0	104	44.1	152				
Bromomethane	0.9900	0.15	1	0	99.0	64.9	155				

Qualifiers:

- `.` Results reported are not blank corrected
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: **ALCS1UG-022423** SampType: **LCS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **ZZZZZ** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/24/2023** SeqNo: **229637**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9600	0.15	1	0	96.0	64	111				
Carbon tetrachloride	1.020	0.030	1	0	102	41.3	166				
Chlorobenzene	0.9900	0.15	1	0	99.0	66.3	129				
Chloroethane	0.9900	0.15	1	0	99.0	62.7	148				
Chloroform	0.9800	0.15	1	0	98.0	77.1	126				
Chloromethane	1.010	0.15	1	0	101	74.9	146				
cis-1,2-Dichloroethene	1.080	0.040	1	0	108	57.7	131				
cis-1,3-Dichloropropene	1.000	0.15	1	0	100	57.4	136				
Cyclohexane	0.9600	0.15	1	0	96.0	59.8	124				
Dibromochloromethane	1.060	0.15	1	0	106	58.8	139				
Ethyl acetate	0.9800	0.15	1	0	98.0	56.5	129				
Ethylbenzene	1.020	0.15	1	0	102	66.8	125				
Freon 11	1.050	0.15	1	0	105	75.5	146				
Freon 113	0.9700	0.15	1	0	97.0	71.5	128				
Freon 114	0.9600	0.15	1	0	96.0	71.3	151				
Freon 12	0.9600	0.15	1	0	96.0	73	141				
Heptane	0.9900	0.15	1	0	99.0	64.1	120				
Hexachloro-1,3-butadiene	0.9600	0.15	1	0	96.0	67.9	135				
Hexane	0.9800	0.15	1	0	98.0	57.3	125				
Isopropyl alcohol	1.120	0.15	1	0	112	60.3	139				
m&p-Xylene	2.060	0.30	2	0	103	71	127				
Methyl Butyl Ketone	0.9900	0.30	1	0	99.0	42.5	149				
Methyl Ethyl Ketone	0.9900	0.30	1	0	99.0	56	131				
Methyl Isobutyl Ketone	1.000	0.30	1	0	100	50.8	133				
Methyl tert-butyl ether	0.9800	0.15	1	0	98.0	61.2	130				
Methylene chloride	0.9400	0.15	1	0	94.0	58.2	125				
o-Xylene	1.020	0.15	1	0	102	72.4	129				
Propylene	1.010	0.15	1	0	101	45.7	127				
Styrene	1.040	0.15	1	0	104	67	132				
Tetrachloroethylene	0.9900	0.15	1	0	99.0	65.6	133				
Tetrahydrofuran	0.9900	0.15	1	0	99.0	54.4	120				

Qualifiers:
- `.` Results reported are not blank corrected
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- DL Detection Limit
- J Analyte detected below quantitation limit
- S Spike Recovery outside accepted recovery limits
- E Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection

Sample ID: **ALCS1UG-022423** SampType: **LCS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **ZZZZZ** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/24/2023** SeqNo: **229637**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.000	0.15	1	0	100	62.5	128				
trans-1,2-Dichloroethene	1.000	0.15	1	0	100	63.6	126				
trans-1,3-Dichloropropene	0.9900	0.15	1	0	99.0	41	155				
Trichloroethene	0.8600	0.030	1	0	86.0	54.2	140				
Vinyl acetate	1.010	0.15	1	0	101	49	122				
Vinyl Bromide	1.150	0.15	1	0	115	65.8	150				
Vinyl chloride	1.010	0.040	1	0	101	62.7	146				

Sample ID: **ALCS1UG-022523** SampType: **LCS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20051**
Client ID: **ZZZZZ** Batch ID: **R20051** TestNo: **TO-15** Analysis Date: **2/25/2023** SeqNo: **229658**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.090	0.15	1	0	109	63.7	152				
1,1,2,2-Tetrachloroethane	1.080	0.15	1	0	108	62.1	132				
1,1,2-Trichloroethane	1.100	0.15	1	0	110	64.3	132				
1,1-Dichloroethane	1.050	0.15	1	0	105	67.9	123				
1,1-Dichloroethene	1.090	0.040	1	0	109	59.4	122				
1,2,4-Trichlorobenzene	1.050	0.15	1	0	105	55	133				
1,2,4-Trimethylbenzene	0.9700	0.15	1	0	97.0	64.1	128				
1,2-Dibromoethane	1.040	0.15	1	0	104	64.9	134				
1,2-Dichlorobenzene	1.050	0.15	1	0	105	57.8	158				
1,2-Dichloroethane	1.040	0.15	1	0	104	78.8	127				
1,2-Dichloropropane	1.080	0.15	1	0	108	59.9	128				
1,3,5-Trimethylbenzene	0.9800	0.15	1	0	98.0	70	133				
1,3-butadiene	1.070	0.15	1	0	107	71.1	138				
1,3-Dichlorobenzene	1.040	0.15	1	0	104	66.2	137				
1,4-Dichlorobenzene	1.110	0.15	1	0	111	68.2	139				
1,4-Dioxane	0.9700	0.30	1	0	97.0	67.7	119				
2,2,4-trimethylpentane	1.060	0.15	1	0	106	57	127				
4-ethyltoluene	1.010	0.15	1	0	101	67.9	131				

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: **ALCS1UG-022523** SampType: **LCS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20051**
Client ID: **ZZZZZ** Batch ID: **R20051** TestNo: **TO-15** Analysis Date: **2/25/2023** SeqNo: **229658**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.020	0.30	1	0	102	47.6	146				
Allyl chloride	0.9700	0.15	1	0	97.0	56.1	116				
Benzene	1.060	0.15	1	0	106	66.2	126				
Benzyl chloride	1.010	0.15	1	0	101	34.9	155				
Bromodichloromethane	1.080	0.15	1	0	108	69.6	133				
Bromoform	0.9700	0.15	1	0	97.0	44.1	152				
Bromomethane	1.060	0.15	1	0	106	64.9	155				
Carbon disulfide	1.000	0.15	1	0	100	64	111				
Carbon tetrachloride	1.030	0.030	1	0	103	41.3	166				
Chlorobenzene	1.000	0.15	1	0	100	66.3	129				
Chloroethane	1.130	0.15	1	0	113	62.7	148				
Chloroform	1.030	0.15	1	0	103	77.1	126				
Chloromethane	1.120	0.15	1	0	112	74.9	146				
cis-1,2-Dichloroethene	0.9700	0.040	1	0	97.0	57.7	131				
cis-1,3-Dichloropropene	1.050	0.15	1	0	105	57.4	136				
Cyclohexane	1.000	0.15	1	0	100	59.8	124				
Dibromochloromethane	0.9700	0.15	1	0	97.0	58.8	139				
Ethyl acetate	1.050	0.15	1	0	105	56.5	129				
Ethylbenzene	1.010	0.15	1	0	101	66.8	125				
Freon 11	1.100	0.15	1	0	110	75.5	146				
Freon 113	1.040	0.15	1	0	104	71.5	128				
Freon 114	1.090	0.15	1	0	109	71.3	151				
Freon 12	1.090	0.15	1	0	109	73	141				
Heptane	1.060	0.15	1	0	106	64.1	120				
Hexachloro-1,3-butadiene	1.020	0.15	1	0	102	67.9	135				
Hexane	0.9900	0.15	1	0	99.0	57.3	125				
Isopropyl alcohol	1.080	0.15	1	0	108	60.3	139				
m&p-Xylene	2.050	0.30	2	0	103	71	127				
Methyl Butyl Ketone	1.060	0.30	1	0	106	42.5	149				
Methyl Ethyl Ketone	1.000	0.30	1	0	100	56	131				
Methyl Isobutyl Ketone	1.060	0.30	1	0	106	50.8	133				

Qualifiers:
. Results reported are not blank corrected
DL Detection Limit
E Estimated Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: ALCS1UG-022523	SampType: LCS	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 20051
Client ID: ZZZZZ	Batch ID: R20051	TestNo: TO-15		Analysis Date: 2/25/2023	SeqNo: 229658

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.9900	0.15	1	0	99.0	61.2	130				
Methylene chloride	1.000	0.15	1	0	100	58.2	125				
o-Xylene	0.9900	0.15	1	0	99.0	72.4	129				
Propylene	1.100	0.15	1	0	110	45.7	127				
Styrene	1.040	0.15	1	0	104	67	132				
Tetrachloroethylene	1.020	0.15	1	0	102	65.6	133				
Tetrahydrofuran	1.050	0.15	1	0	105	54.4	120				
Toluene	0.9900	0.15	1	0	99.0	62.5	128				
trans-1,2-Dichloroethene	1.070	0.15	1	0	107	63.6	126				
trans-1,3-Dichloropropene	1.050	0.15	1	0	105	41	155				
Trichloroethene	0.9100	0.030	1	0	91.0	54.2	140				
Vinyl acetate	0.9900	0.15	1	0	99.0	49	122				
Vinyl Bromide	1.090	0.15	1	0	109	65.8	150				
Vinyl chloride	1.160	0.040	1	0	116	62.7	146				

Qualifiers:

*	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022403.D
Acq On : 24 Feb 2023 9:58 am
Operator : RJP
Sample : ALCS1UG-022423
Misc : A223_1UG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 10:27:39 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.360	128	64082	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.644	114	381255	1.00	ppb		0.00
50) Chlorobenzene-d5	16.435	117	306499	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.188	95	190422	1.04	ppb		0.03
Spiked Amount 1.000	Range 70 - 130		Recovery = 104.00%				
Target Compounds							Qvalue
2) Propylene	3.920	41	78088	1.01	ppb		97
3) Freon 12	4.157	85	280423	0.96	ppb		98
4) Chloromethane	4.157	50	97294	1.01	ppb		97
5) Freon 114	4.157	85	280423	0.96	ppb		96
6) Vinyl Chloride	4.340	62	91306	1.01	ppb		99
7) Butane	4.433	43	94773	0.97	ppb		90
8) 1,3-butadiene	4.436	39	57004	0.91	ppb		80
9) Bromomethane	4.763	94	92192	0.99	ppb		96
10) Chloroethane	4.914	64	41010	0.99	ppb		99
11) Ethanol	5.763	45	139609	1.08	ppb	#	1
12) Acrolein	5.586	56	17822m	1.07	ppb		
13) Vinyl Bromide	5.247	106	100770	1.15	ppb		98
14) Freon 11	5.505	101	294582	1.05	ppb		100
15) Acetone	5.682	58	55829	1.12	ppb	#	1
16) Pentane	5.775	42	99308	1.14	ppb	#	43
17) Isopropyl alcohol	5.763	45	139609	1.12	ppb	#	57
18) 1,1-dichloroethene	6.237	96	111910	1.00	ppb		95
19) Freon 113	6.427	101	259699	0.97	ppb		94
20) t-Butyl alcohol	6.448	59	209581	0.98	ppb	#	94
21) Methylene chloride	6.679	84	102556	0.94	ppb		96
22) Allyl chloride	6.667	41	105801	1.00	ppb		97
23) Carbon disulfide	6.832	76	278905	0.96	ppb		95
24) trans-1,2-dichloroethene	7.594	61	134379	1.00	ppb		94
25) methyl tert-butyl ether	7.597	73	311242	0.98	ppb		99
26) 1,1-dichloroethane	8.006	63	213005	0.98	ppb		95
27) Vinyl acetate	7.997	43	105752	1.01	ppb		100
28) Methyl Ethyl Ketone	8.492	72	49723	0.99	ppb	#	1
29) cis-1,2-dichloroethene	8.918	61	142757	1.08	ppb		92
30) Hexane	8.531	57	193562	0.98	ppb		98
31) Ethyl acetate	9.071	43	235964	0.98	ppb		94
32) Chloroform	9.510	83	239347	0.98	ppb		99
33) Tetrahydrofuran	9.669	42	97410	0.99	ppb		94
34) 1,2-dichloroethane	10.608	62	129463	0.98	ppb		94
36) 1,1,1-trichloroethane	10.323	97	228166	0.99	ppb		98
37) Cyclohexane	11.032	56	189858	0.96	ppb		88
38) Carbon tetrachloride	10.963	117	201654	1.02	ppb		92
39) Benzene	10.939	78	391159	0.99	ppb		97
40) Methyl methacrylate	12.545	41	111904	0.98	ppb		88
41) 1,4-dioxane	12.545	88	78625	0.94	ppb		95
42) 2,2,4-trimethylpentane	11.818	57	600406	0.99	ppb		99
43) Heptane	12.172	43	185687	0.99	ppb		98
44) Trichloroethene	12.292	130	159113	0.86	ppb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022403.D
Acq On : 24 Feb 2023 9:58 am
Operator : RJP
Sample : ALCS1UG-022423
Misc : A223_1UG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 10:27:39 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

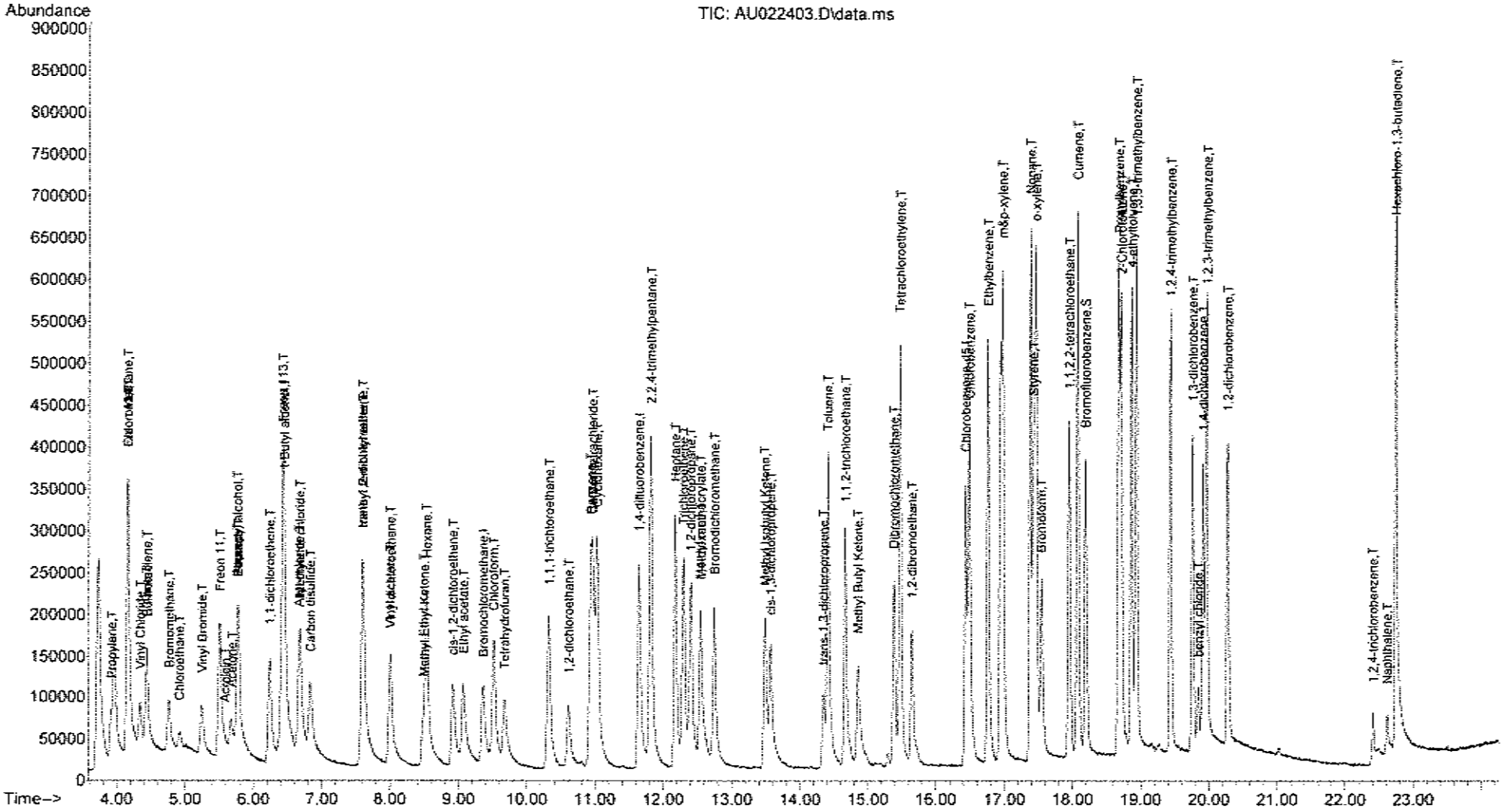
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	1,2-dichloropropane	12.398	63	149979	0.98	ppb		100
46)	Bromodichloromethane	12.746	83	223067	1.00	ppb		100
47)	cis-1,3-dichloropropene	13.568	75	156940	1.00	ppb		100
48)	trans-1,3-dichloropropene	14.343	75	113561	0.99	ppb		93
49)	1,1,2-trichloroethane	14.667	97	156271	0.98	ppb		97
51)	Toluene	14.412	92	259396	1.00	ppb		94
52)	Methyl Isobutyl Ketone	13.484	43	223388	1.00	ppb		98
53)	Dibromochloromethane	15.381	129	187952m	1.06	ppb		
54)	Methyl Butyl Ketone	14.853	43	166714	0.99	ppb		93
55)	1,2-dibromoethane	15.646	107	199649	1.00	ppb		97
56)	Tetrachloroethylene	15.472	164	173947	0.99	ppb		95
57)	Chlorobenzene	16.489	112	332661	0.99	ppb		100
58)	Ethylbenzene	16.759	91	545733	1.02	ppb		99
59)	m&p-xylene	16.970	91	828408	2.06	ppb		99
60)	Nonane	17.378	43	260975	1.03	ppb		98
61)	Styrene	17.426	104	294882	1.04	ppb		89
62)	Bromoform	17.540	173	150975	1.04	ppb		94
63)	o-xylene	17.459	91	486920	1.02	ppb		96
64)	Cumene	18.071	105	617313	1.03	ppb		98
66)	1,1,2,2-tetrachloroethane	17.948	83	314103	0.99	ppb		98
67)	Propylbenzene	18.675	120	153735	1.01	ppb	#	1
68)	2-Chlorotoluene	18.711	126	145551	1.01	ppb	#	1
69)	4-ethyltoluene	18.864	105	507518m	1.04	ppb		
70)	1,3,5-trimethylbenzene	18.930	105	525819m	1.06	ppb		
71)	1,2,4-trimethylbenzene	19.434	105	411105	1.00	ppb		97
72)	1,3-dichlorobenzene	19.758	146	226030	1.00	ppb		98
73)	benzyl chloride	19.842	91	72021	0.89	ppb		91
74)	1,4-dichlorobenzene	19.908	146	231748m	1.12	ppb		
75)	1,2,3-trimethylbenzene	19.965	105	430206	1.01	ppb		99
76)	1,2-dichlorobenzene	20.272	146	215459	0.96	ppb		99
77)	1,2,4-trichlorobenzene	22.406	180	55905m	1.09	ppb		
78)	Naphthalene	22.613	128	114960m	1.01	ppb		
79)	Hexachloro-1,3-butadiene	22.739	225	201715	0.96	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022403.D
Acq On : 24 Feb 2023 9:58 am
Operator : RJP
Sample : ALCS1UG-022423
Misc : A223_1UG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 10:27:39 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022503.D
Acq On : 25 Feb 2023 11:29 am
Operator : RJP
Sample : ALCS1UG-022523
Misc : A223_1UG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 27 09:44:45 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.362	128	57978	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.646	114	324992	1.00	ppb		0.00
50) Chlorobenzene-d5	16.437	117	273447	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.187	95	170157	1.05	ppb		0.03
Spiked Amount 1.000	Range 70 - 130		Recovery = 105.00%				
Target Compounds							Qvalue
2) Propylene	3.916	41	77097	1.10	ppb		96
3) Freon 12	4.156	85	286743	1.09	ppb		98
4) Chloromethane	4.153	50	96957	1.12	ppb		99
5) Freon 114	4.156	85	286743	1.09	ppb		100
6) Vinyl Chloride	4.336	62	95156	1.16	ppb		100
7) Butane	4.426	43	103387	1.17	ppb		95
8) 1,3-butadiene	4.432	39	60687	1.07	ppb		81
9) Bromomethane	4.760	94	89155	1.06	ppb		95
10) Chloroethane	4.916	64	42602	1.13	ppb		100
11) Ethanol	5.768	45	121775	1.04	ppb	#	68
12) Acrolein	5.588	56	18538	1.23	ppb		86
13) Vinyl Bromide	5.234	106	86272	1.09	ppb		99
14) Freon 11	5.504	101	277542	1.10	ppb		99
15) Acetone	5.660	58	46227	1.02	ppb	#	1
16) Pentane	5.765	42	81878	1.04	ppb	#	54
17) Isopropyl alcohol	5.768	45	121775	1.08	ppb	#	67
18) 1,1-dichloroethene	6.237	96	109953	1.09	ppb		96
19) Freon 113	6.429	101	253061	1.04	ppb		95
20) t-Butyl alcohol	6.453	59	196441	1.02	ppb		95
21) Methylene chloride	6.678	84	98564	1.00	ppb		95
22) Allyl chloride	6.660	41	92204	0.97	ppb		90
23) Carbon disulfide	6.834	76	264122	1.00	ppb		97
24) trans-1,2-dichloroethene	7.590	61	129563	1.07	ppb		93
25) methyl tert-butyl ether	7.599	73	283782	0.99	ppb		98
26) 1,1-dichloroethane	8.005	63	205179	1.05	ppb		96
27) Vinyl acetate	7.999	43	93945	0.99	ppb		98
28) Methyl Ethyl Ketone	8.485	72	45314	1.00	ppb	#	1
29) cis-1,2-dichloroethene	8.917	61	116493m	0.97	ppb		
30) Hexane	8.533	57	177822	0.99	ppb		97
31) Ethyl acetate	9.064	43	228546	1.05	ppb		98
32) Chloroform	9.512	83	227385	1.03	ppb		99
33) Tetrahydrofuran	9.671	42	93157	1.05	ppb		99
34) 1,2-dichloroethane	10.610	62	123623	1.04	ppb		95
36) 1,1,1-trichloroethane	10.325	97	213274	1.09	ppb		97
37) Cyclohexane	11.028	56	167116	1.00	ppb		88
38) Carbon tetrachloride	10.968	117	174249	1.03	ppb		92
39) Benzene	10.935	78	356218	1.06	ppb		94
40) Methyl methacrylate	12.544	41	101442	1.04	ppb		87
41) 1,4-dioxane	12.547	88	69306	0.97	ppb		91
42) 2,2,4-trimethylpentane	11.814	57	548504	1.06	ppb		98
43) Heptane	12.172	43	169566	1.06	ppb		99
44) Trichloroethene	12.301	130	142375	0.91	ppb		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022503.D
Acq On : 25 Feb 2023 11:29 am
Operator : RJP
Sample : ALCS1UG-022523
Misc : A223_1UG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 27 09:44:45 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

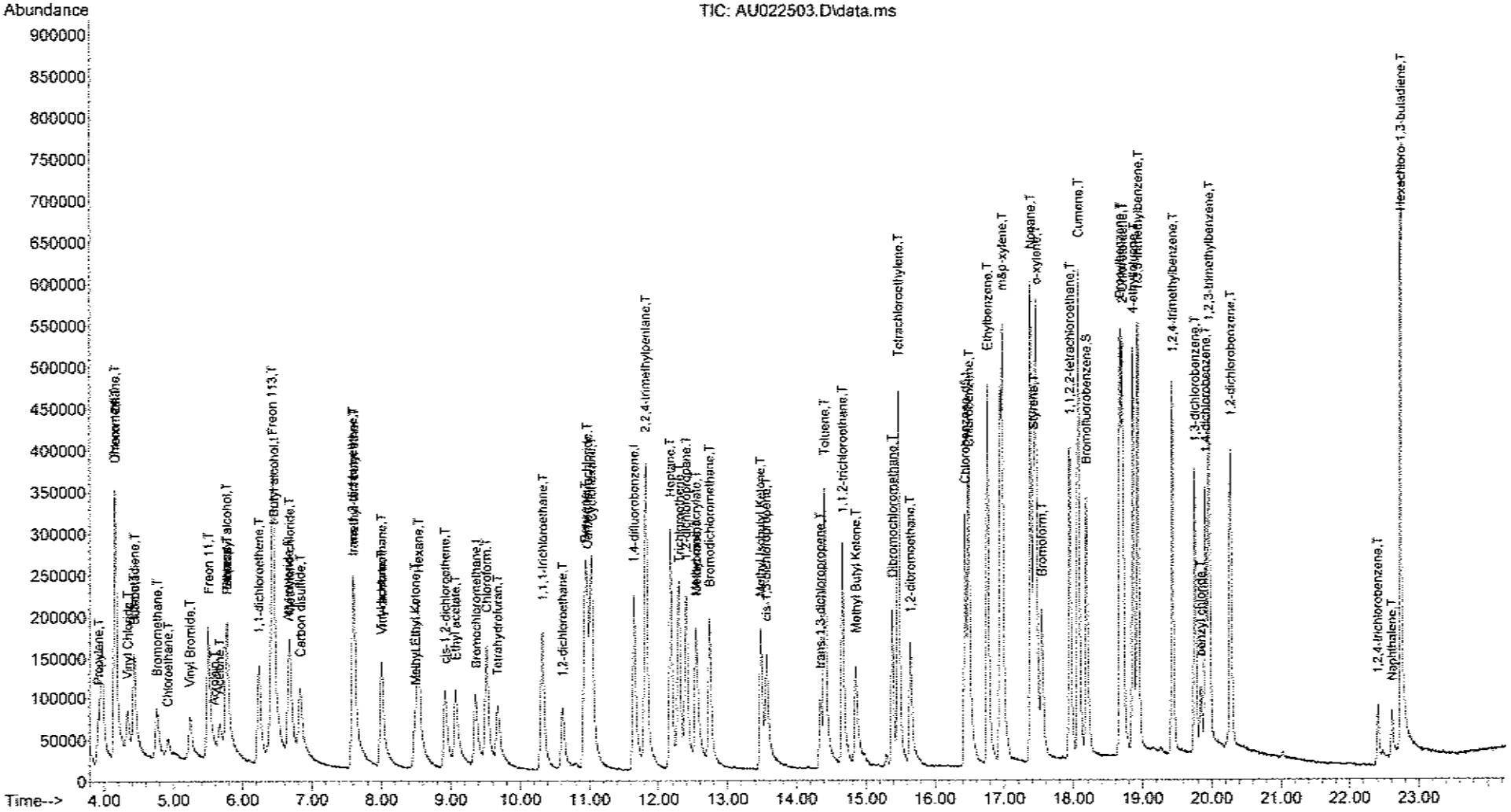
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	1,2-dichloropropane	12.400	63	140782	1.08	ppb		96
46)	Bromodichloromethane	12.739	83	204964	1.08	ppb		98
47)	cis-1,3-dichloropropene	13.564	75	141180	1.05	ppb		98
48)	trans-1,3-dichloropropene	14.342	75	102615	1.05	ppb		94
49)	1,1,2-trichloroethane	14.666	97	148919	1.10	ppb		95
51)	Toluene	14.408	92	230425	0.99	ppb		93
52)	Methyl Isobutyl Ketone	13.480	43	212406	1.06	ppb		99
53)	Dibromochloromethane	15.387	129	153629m	0.97	ppb		
54)	Methyl Butyl Ketone	14.855	43	160431	1.06	ppb		96
55)	1,2-dibromoethane	15.642	107	186026	1.04	ppb		97
56)	Tetrachloroethylene	15.471	164	159878	1.02	ppb		98
57)	Chlorobenzene	16.491	112	301089	1.00	ppb		100
58)	Ethylbenzene	16.759	91	484886	1.01	ppb		99
59)	m&p-xylene	16.972	91	733025	2.05	ppb		99
60)	Nonane	17.380	43	239827	1.06	ppb		99
61)	Styrene	17.428	104	261291	1.04	ppb		87
62)	Bromoform	17.545	173	126224	0.97	ppb		95
63)	o-xylene	17.461	91	420628	0.99	ppb		97
64)	Cumene	18.070	105	529847	0.99	ppb		98
66)	1,1,2,2-tetrachloroethane	17.947	83	304969	1.08	ppb		97
67)	Propylbenzene	18.671	120	134647	0.99	ppb	#	1
68)	2-Chlorotoluene	18.710	126	130213	1.01	ppb	#	1
69)	4-ethyltoluene	18.860	105	438436m	1.01	ppb		
70)	1,3,5-trimethylbenzene	18.932	105	431750m	0.98	ppb		
71)	1,2,4-trimethylbenzene	19.433	105	356179	0.97	ppb		99
72)	1,3-dichlorobenzene	19.757	146	209122	1.04	ppb		99
73)	benzyl chloride	19.842	91	73257	1.01	ppb		97
74)	1,4-dichlorobenzene	19.908	146	204221m	1.11	ppb		
75)	1,2,3-trimethylbenzene	19.962	105	370448	0.98	ppb		98
76)	1,2-dichlorobenzene	20.271	146	209535	1.05	ppb		97
77)	1,2,4-trichlorobenzene	22.402	180	48047m	1.05	ppb		
78)	Naphthalene	22.609	128	102077m	1.01	ppb		
79)	Hexachloro-1,3-butadiene	22.741	225	191037	1.02	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022503.D
Acq On : 25 Feb 2023 11:29 am
Operator : RJP
Sample : ALCS1UG-022523
Misc : A223_1UG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 27 09:44:45 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration



CENTEK LABORATORIES, LLC

Date: *23-Mar-23*

ANALYTICAL QC SUMMARY REPORT

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: **ALCS1UGD-022423** SampType: **LCSD** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **ZZZZZ** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/25/2023** SeqNo: **229638**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.070	0.15	1	0	107	64.3	142	0.99	7.77	20.6	
1,1,2,2-Tetrachloroethane	1.020	0.15	1	0	102	57.4	134	0.99	2.99	24.7	
1,1,2-Trichloroethane	1.060	0.15	1	0	106	62.8	133	0.98	7.84	22.5	
1,1-Dichloroethane	1.040	0.15	1	0	104	64.1	123	0.98	5.94	15.9	
1,1-Dichloroethene	1.040	0.040	1	0	104	55	126	1	3.92	19.1	
1,2,4-Trichlorobenzene	1.160	0.15	1	0	116	56.6	129	1.09	6.22	34.6	
1,2,4-Trimethylbenzene	1.020	0.15	1	0	102	62.6	127	1	1.98	20.4	
1,2-Dibromoethane	1.010	0.15	1	0	101	62.7	134	1	0.995	16.3	
1,2-Dichlorobenzene	0.9800	0.15	1	0	98.0	62.3	144	0.96	2.06	25	
1,2-Dichloroethane	1.050	0.15	1	0	105	64.2	134	0.98	6.90	19.5	
1,2-Dichloropropane	1.030	0.15	1	0	103	55	132	0.98	4.98	24.1	
1,3,5-Trimethylbenzene	1.030	0.15	1	0	103	71.3	133	1.06	2.87	26.9	
1,3-butadiene	1.070	0.15	1	0	107	54.8	148	0.91	16.2	26.4	
1,3-Dichlorobenzene	1.020	0.15	1	0	102	68.1	134	1	1.98	19.7	
1,4-Dichlorobenzene	1.160	0.15	1	0	116	67.7	138	1.12	3.51	21.6	
1,4-Dioxane	1.010	0.30	1	0	101	51	144	0.94	7.18	22	
2,2,4-trimethylpentane	1.060	0.15	1	0	106	57.6	125	0.99	6.83	15.7	
4-ethyltoluene	1.050	0.15	1	0	105	67	131	1.04	0.957	26.5	
Acetone	1.190	0.30	1	0	119	50.4	148	1.12	6.06	49.5	
Allyl chloride	1.080	0.15	1	0	108	50.7	120	1	7.69	20	
Benzene	1.040	0.15	1	0	104	65.4	124	0.99	4.93	12.8	
Benzyl chloride	0.9300	0.15	1	0	93.0	29.1	153	0.89	4.40	29.3	
Bromodichloromethane	1.080	0.15	1	0	108	60.4	138	1	7.69	24	
Bromoform	1.000	0.15	1	0	100	30.8	160	1.04	3.92	23.7	
Bromomethane	1.070	0.15	1	0	107	55.8	153	0.99	7.77	22.7	

Qualifiers:
- `-` Results reported are not blank corrected
- DL Detection Limit
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: **ALCS1UGD-022423** SampType: **LCSD** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **ZZZZZ** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/25/2023** SeqNo: **229638**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.000	0.15	1	0	100	63.4	110	0.96	4.08	15.4	
Carbon tetrachloride	1.050	0.030	1	0	105	30	170	1.02	2.90	22.3	
Chlorobenzene	0.9900	0.15	1	0	99.0	66.5	126	0.99	0	13.1	
Chloroethane	1.140	0.15	1	0	114	55.3	145	0.99	14.1	22.4	
Chloroform	1.040	0.15	1	0	104	68.2	128	0.98	5.94	14.2	
Chloromethane	1.100	0.15	1	0	110	60.2	146	1.01	8.53	20.6	
cis-1,2-Dichloroethene	1.130	0.040	1	0	113	51.8	131	1.08	4.52	15.8	
cis-1,3-Dichloropropene	1.070	0.15	1	0	107	54.7	139	1	6.76	20.3	
Cyclohexane	1.040	0.15	1	0	104	61.2	122	0.96	8.00	16.3	
Dibromochloromethane	1.010	0.15	1	0	101	47.8	145	1.06	4.83	20.1	
Ethyl acetate	1.040	0.15	1	0	104	52.8	129	0.98	5.94	18.4	
Ethylbenzene	1.020	0.15	1	0	102	64.5	126	1.02	0	14.4	
Freon 11	1.100	0.15	1	0	110	60.7	152	1.05	4.65	21.8	
Freon 113	1.000	0.15	1	0	100	67.8	129	0.97	3.05	14.3	
Freon 114	1.100	0.15	1	0	110	58.6	153	0.96	13.6	23.2	
Freon 12	1.100	0.15	1	0	110	65.6	143	0.96	13.6	19.7	
Heptane	1.090	0.15	1	0	109	59.4	123	0.99	9.62	21.5	
Hexachloro-1,3-butadiene	0.9600	0.15	1	0	96.0	53	155	0.96	0	24.6	
Hexane	1.020	0.15	1	0	102	55.4	123	0.98	4.00	22.5	
Isopropyl alcohol	1.230	0.15	1	0	123	56.6	147	1.12	9.36	49.3	
m&p-Xylene	2.070	0.30	2	0	104	70.3	127	2.06	0.484	17.5	
Methyl Butyl Ketone	1.030	0.30	1	0	103	55.1	123	0.99	3.96	25.7	
Methyl Ethyl Ketone	1.020	0.30	1	0	102	51.5	132	0.99	2.99	18.3	
Methyl Isobutyl Ketone	1.050	0.30	1	0	105	41.6	137	1	4.88	26.8	
Methyl tert-butyl ether	1.020	0.15	1	0	102	52	138	0.98	4.00	21.9	
Methylene chloride	0.9700	0.15	1	0	97.0	55.9	129	0.94	3.14	18.5	
o-Xylene	1.050	0.15	1	0	105	71	130	1.02	2.90	22.2	
Propylene	1.150	0.15	1	0	115	49.2	128	1.01	13.0	26.8	
Styrene	1.050	0.15	1	0	105	67.9	131	1.04	0.957	23.3	
Tetrachloroethylene	1.000	0.15	1	0	100	66.2	132	0.99	1.01	13.9	
Tetrahydrofuran	1.020	0.15	1	0	102	47	124	0.99	2.99	20.2	

Qualifiers:
. Results reported are not blank corrected
DL Detection Limit
E Estimated Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: ALCS1UGD-022423	SampType: LCSD	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 20049
Client ID: ZZZZZ	Batch ID: R20049	TestNo: TO-15		Analysis Date: 2/25/2023	SeqNo: 229638

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.010	0.15	1	0	101	62.6	126	1	0.995	17.2	
trans-1,2-Dichloroethene	1.050	0.15	1	0	105	60.2	125	1	4.88	16.8	
trans-1,3-Dichloropropene	1.060	0.15	1	0	106	34.2	157	0.99	6.83	21.5	
Trichloroethene	0.9000	0.030	1	0	90.0	57.8	133	0.86	4.55	21.8	
Vinyl acetate	1.040	0.15	1	0	104	42.5	127	1.01	2.93	23	
Vinyl Bromide	1.220	0.15	1	0	122	55.1	148	1.15	5.91	22	
Vinyl chloride	1.130	0.040	1	0	113	51.9	146	1.01	11.2	22	

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022427.D
Acq On : 25 Feb 2023 3:49 am
Operator : RJP
Sample : ALCS1UGD-022423
Misc : A223_1UG
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 25 09:29:56 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.359	128	61494	1.00	ppb	#	0.00
35) 1,4-difluorobenzene	11.646	114	351305	1.00	ppb		0.00
50) Chlorobenzene-d5	16.434	117	292575	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.184	95	179966	1.03	ppb		0.03
Spiked Amount 1.000	Range 70 - 130		Recovery = 103.00%				
Target Compounds							Qvalue
2) Propylene	3.913	41	85103	1.15	ppb		94
3) Freon 12	4.156	85	307349	1.10	ppb		99
4) Chloromethane	4.162	50	101057	1.10	ppb		99
5) Freon 114	4.156	85	307349	1.10	ppb		98
6) Vinyl Chloride	4.339	62	97925	1.13	ppb		98
7) Butane	4.429	43	101914	1.09	ppb		90
8) 1,3-butadiene	4.429	39	64581	1.07	ppb		85
9) Bromomethane	4.760	94	95350	1.07	ppb		97
10) Chloroethane	4.913	64	45408	1.14	ppb		99
11) Ethanol	5.768	45	147286	1.19	ppb	#	58
12) Acrolein	5.573	56	25474	1.60	ppb		78
13) Vinyl Bromide	5.243	106	102433	1.22	ppb		98
14) Freon 11	5.504	101	296015	1.10	ppb		99
15) Acetone	5.672	58	56930	1.19	ppb	#	1
16) Pentane	5.771	42	101686	1.22	ppb	#	49
17) Isopropyl alcohol	5.768	45	147286	1.23	ppb	#	57
18) 1,1-dichloroethene	6.237	96	111588	1.04	ppb		94
19) Freon 113	6.426	101	258785	1.00	ppb		96
20) t-Butyl alcohol	6.444	59	203752	1.00	ppb		93
21) Methylene chloride	6.675	84	101757	0.97	ppb		93
22) Allyl chloride	6.657	41	109497	1.08	ppb		98
23) Carbon disulfide	6.831	76	279602	1.00	ppb		95
24) trans-1,2-dichloroethene	7.587	61	135072	1.05	ppb		94
25) methyl tert-butyl ether	7.596	73	310726	1.02	ppb		99
26) 1,1-dichloroethane	8.005	63	216247	1.04	ppb		96
27) Vinyl acetate	8.008	43	104842	1.04	ppb		99
28) Methyl Ethyl Ketone	8.479	72	49399	1.02	ppb	#	1
29) cis-1,2-dichloroethene	8.923	61	144074	1.13	ppb		89
30) Hexane	8.527	57	193433	1.02	ppb		96
31) Ethyl acetate	9.064	43	240774	1.04	ppb		95
32) Chloroform	9.506	83	241509	1.04	ppb		99
33) Tetrahydrofuran	9.671	42	96384	1.02	ppb		94
34) 1,2-dichloroethane	10.613	62	132850	1.05	ppb		97
36) 1,1,1-trichloroethane	10.316	97	227813	1.07	ppb		97
37) Cyclohexane	11.025	56	189253	1.04	ppb		93
38) Carbon tetrachloride	10.965	117	192732	1.05	ppb		91
39) Benzene	10.926	78	377569	1.04	ppb		94
40) Methyl methacrylate	12.535	41	110090	1.04	ppb		88
41) 1,4-dioxane	12.550	88	78096	1.01	ppb		96
42) 2,2,4-trimethylpentane	11.814	57	596586	1.06	ppb		99
43) Heptane	12.171	43	187838	1.09	ppb		99
44) Trichloroethene	12.294	130	153077	0.90	ppb		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022427.D
Acq On : 25 Feb 2023 3:49 am
Operator : RJP
Sample : ALCS1UGD-022423
Misc : A223_1UG
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 25 09:29:56 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

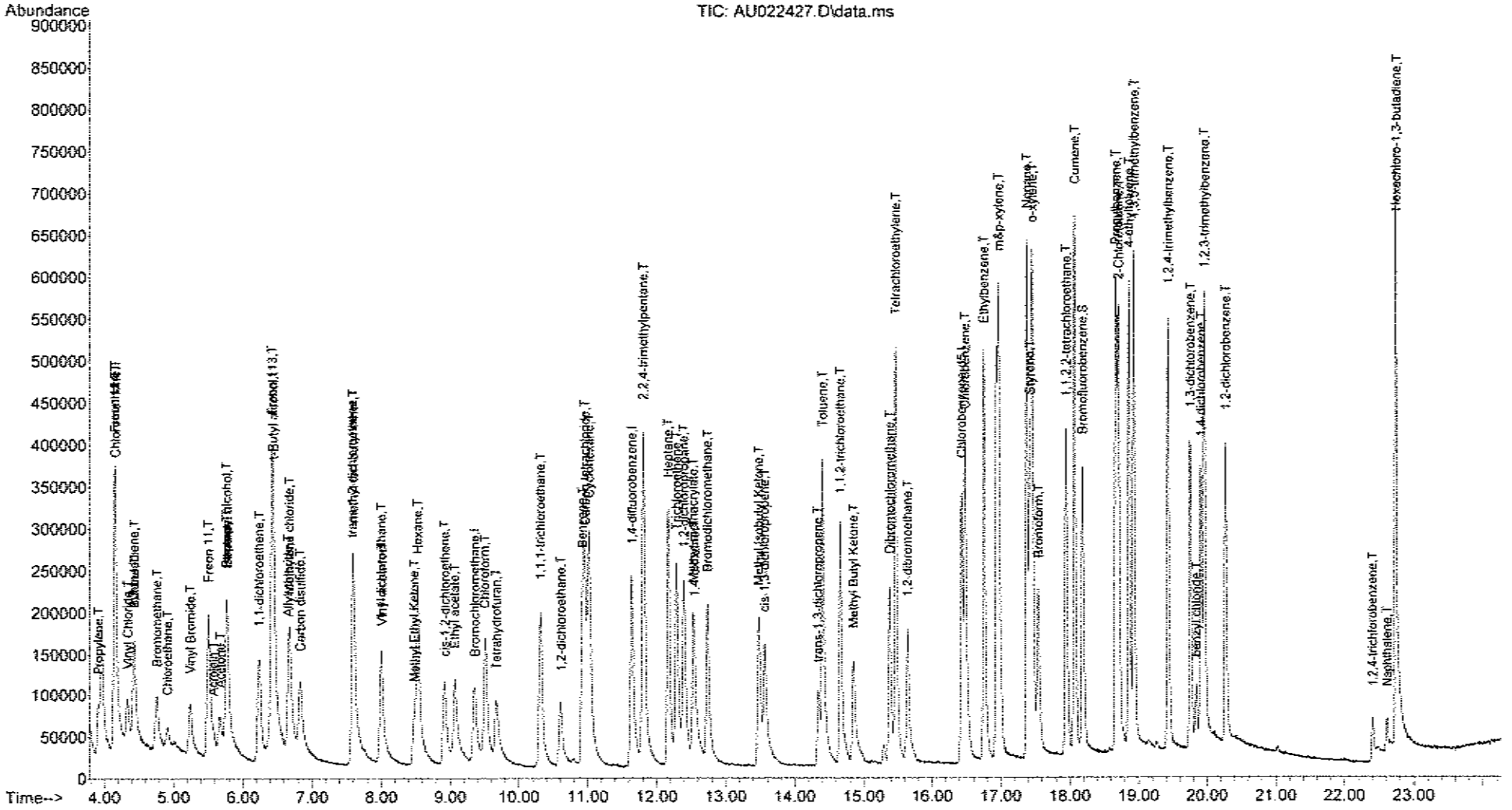
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 1,2-dichloropropane	12.400	63	146368	1.03	ppb		99
46) Bromodichloromethane	12.739	83	220565	1.08	ppb		100
47) cis-1,3-dichloropropene	13.561	75	155710	1.07	ppb		98
48) trans-1,3-dichloropropene	14.336	75	112101	1.06	ppb		91
49) 1,1,2-trichloroethane	14.660	97	155484	1.06	ppb		94
51) Toluene	14.408	92	252008	1.01	ppb		95
52) Methyl Isobutyl Ketone	13.480	43	223457	1.05	ppb		98
53) Dibromochloromethane	15.384	129	171278m	1.01	ppb		
54) Methyl Butyl Ketone	14.852	43	165707	1.03	ppb		93
55) 1,2-dibromoethane	15.642	107	192065	1.01	ppb		98
56) Tetrachloroethylene	15.471	164	169139	1.00	ppb		98
57) Chlorobenzene	16.485	112	318513	0.99	ppb		97
58) Ethylbenzene	16.755	91	522008	1.02	ppb		98
59) m&p-xylene	16.969	91	794846	2.07	ppb		99
60) Nonane	17.377	43	262334	1.08	ppb		100
61) Styrene	17.425	104	282154	1.05	ppb		83
62) Bromoform	17.545	173	139028	1.00	ppb		93
63) o-xylene	17.455	91	474742	1.05	ppb		94
64) Cumene	18.070	105	591074	1.03	ppb		98
66) 1,1,2,2-tetrachloroethane	17.947	83	310609	1.02	ppb		97
67) Propylbenzene	18.671	120	144280	0.99	ppb	#	1
68) 2-Chlorotoluene	18.710	126	141968	1.03	ppb	#	1
69) 4-ethyltoluene	18.857	105	491467	1.05	ppb		99
70) 1,3,5-trimethylbenzene	18.929	105	486136m	1.03	ppb		
71) 1,2,4-trimethylbenzene	19.430	105	398879	1.02	ppb		97
72) 1,3-dichlorobenzene	19.751	146	220248	1.02	ppb		99
73) benzyl chloride	19.835	91	72280	0.93	ppb		97
74) 1,4-dichlorobenzene	19.907	146	228208m	1.16	ppb		
75) 1,2,3-trimethylbenzene	19.959	105	416868	1.03	ppb		99
76) 1,2-dichlorobenzene	20.268	146	209802	0.98	ppb		98
77) 1,2,4-trichlorobenzene	22.402	180	56813m	1.16	ppb		
78) Naphthalene	22.612	128	117341m	1.08	ppb		
79) Hexachloro-1,3-butadiene	22.738	225	193014	0.96	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022427.D
Acq On : 25 Feb 2023 3:49 am
Operator : RJP
Sample : ALCS1UGD-022423
Misc : A223_1UG
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 25 09:29:56 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration



CENTEK LABORATORIES, LLC

Date: *23-Mar-23*

ANALYTICAL QC SUMMARY REPORT

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: **C2302047-002A MS** SampType: **MS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **Summa (MS-MSD)** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/25/2023** SeqNo: **229654**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.100	0.15	1	0	110	51.3	146				
1,1,2,2-Tetrachloroethane	1.050	0.15	1	0	105	59.4	121				
1,1,2-Trichloroethane	1.060	0.15	1	0	106	59.1	128				
1,1-Dichloroethane	1.040	0.15	1	0	104	67.5	118				
1,1-Dichloroethene	1.020	0.040	1	0	102	55.3	121				
1,2,4-Trichlorobenzene	1.280	0.15	1	0	128	72	184				
1,2,4-Trimethylbenzene	1.890	0.15	1	0.61	128	55.1	165				
1,2-Dibromoethane	1.040	0.15	1	0	104	61.9	124				
1,2-Dichlorobenzene	1.140	0.15	1	0	114	47.6	157				
1,2-Dichloroethane	1.070	0.15	1	0	107	67.5	122				
1,2-Dichloropropane	1.050	0.15	1	0	105	57.6	127				
1,3,5-Trimethylbenzene	1.310	0.15	1	0.2	111	54.6	146				
1,3-butadiene	1.350	0.15	1	0	135	62	174				
1,3-Dichlorobenzene	1.150	0.15	1	0	115	67.7	134				
1,4-Dichlorobenzene	1.230	0.15	1	0	123	64.1	136				
1,4-Dioxane	1.020	0.30	1	0	102	62	125				
2,2,4-trimethylpentane	1.110	0.15	1	0	111	65	128				
4-ethyltoluene	1.500	0.15	1	0.28	122	32.2	179				
Acetone	8.600	0.30	1	7.8	80.0	30.4	160				
Allyl chloride	1.040	0.15	1	0	104	47.5	142				
Benzene	1.460	0.15	1	0.42	104	42.1	152				
Benzyl chloride	1.170	0.15	1	0	117	35.4	181				
Bromodichloromethane	1.040	0.15	1	0	104	54.5	133				
Bromoform	0.9700	0.15	1	0	97.0	25.8	146				
Bromomethane	1.000	0.15	1	0	100	63.9	125				

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Sample ID: **C2302047-002A MS** SampType: **MS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **Summa (MS-MSD)** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/25/2023** SeqNo: **229654**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.000	0.15	1	0	100	56	115				
Carbon tetrachloride	1.080	0.030	1	0.07	101	20.3	172				
Chlorobenzene	0.9900	0.15	1	0	99.0	65.9	117				
Chloroethane	1.050	0.15	1	0	105	50.7	140				
Chloroform	1.020	0.15	1	0	102	64.6	126				
Chloromethane	1.620	0.15	1	0.64	98.0	35.4	148				
cis-1,2-Dichloroethene	0.9900	0.040	1	0	99.0	59.6	119				
cis-1,3-Dichloropropene	1.070	0.15	1	0	107	55.5	133				
Cyclohexane	1.430	0.15	1	0.39	104	23	168				
Dibromochloromethane	1.020	0.15	1	0	102	44.5	143				
Ethyl acetate	1.170	0.15	1	0	117	57.1	129				
Ethylbenzene	1.140	0.15	1	0.12	102	61.3	130				
Freon 11	1.320	0.15	1	0.25	107	14.7	173				
Freon 113	1.030	0.15	1	0	103	71.4	127				
Freon 114	1.020	0.15	1	0	102	52.6	153				
Freon 12	1.020	0.15	1	0	102	47.5	133				
Heptane	1.350	0.15	1	0.26	109	49.9	137				
Hexachloro-1,3-butadiene	1.120	0.15	1	0	112	56.7	149				
Hexane	1.190	0.15	1	0.21	98.0	40.7	152				
Isopropyl alcohol	2.950	0.15	1	1.82	113	8.56	176				
m&p-Xylene	2.480	0.30	2	0.34	107	54.5	138				
Methyl Butyl Ketone	1.200	0.30	1	0	120	41.5	156				
Methyl Ethyl Ketone	2.260	0.30	1	1.11	115	26.1	145				
Methyl Isobutyl Ketone	1.180	0.30	1	0	118	48.7	129				
Methyl tert-butyl ether	0.9700	0.15	1	0	97.0	57	129				
Methylene chloride	1.180	0.15	1	0.27	91.0	49.6	120				
o-Xylene	1.210	0.15	1	0.14	107	55.1	142				
Propylene	2.070	0.15	1	0	207	64.8	224				
Styrene	1.330	0.15	1	0.2	113	60.3	132				
Tetrachloroethylene	1.030	0.15	1	0	103	68.1	126				
Tetrahydrofuran	1.080	0.15	1	0	108	27.9	162				

Qualifiers:
. Results reported are not blank corrected
DL Detection Limit
E Estimated Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: **C2302047-002A MS** SampType: **MS** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **Summa (MS-MSD)** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/25/2023** SeqNo: **229654**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.860	0.15	1	0.82	104	41.2	147				
trans-1,2-Dichloroethene	1.000	0.15	1	0	100	46.3	148				
trans-1,3-Dichloropropene	1.090	0.15	1	0	109	50.1	146				
Trichloroethene	0.9100	0.030	1	0	91.0	46	136				
Vinyl acetate	1.120	0.15	1	0	112	8.27	177				
Vinyl Bromide	1.060	0.15	1	0	106	57.1	141				
Vinyl chloride	1.050	0.040	1	0	105	54.5	130				

Sample ID: **C2302047-002A MS** SampType: **MSD** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **Summa (MS-MSD)** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/25/2023** SeqNo: **229655**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.070	0.15	1	0	107	50.5	144	1.1	2.76	12.3	
1,1,2,2-Tetrachloroethane	1.050	0.15	1	0	105	61.9	117	1.05	0	11	
1,1,2-Trichloroethane	1.020	0.15	1	0	102	59.5	124	1.06	3.85	13.9	
1,1-Dichloroethane	1.030	0.15	1	0	103	68.4	117	1.04	0.966	9.68	
1,1-Dichloroethene	1.050	0.040	1	0	105	57.6	115	1.02	2.90	16.8	
1,2,4-Trichlorobenzene	1.300	0.15	1	0	130	37.5	248	1.28	1.55	19	
1,2,4-Trimethylbenzene	1.890	0.15	1	0.61	128	58.6	162	1.89	0	16.6	
1,2-Dibromoethane	1.010	0.15	1	0	101	61.3	120	1.04	2.93	6.77	
1,2-Dichlorobenzene	1.150	0.15	1	0	115	35.6	169	1.14	0.873	41.1	
1,2-Dichloroethane	1.040	0.15	1	0	104	71.8	117	1.07	2.84	9.42	
1,2-Dichloropropane	1.020	0.15	1	0	102	56.3	127	1.05	2.90	11.3	
1,3,5-Trimethylbenzene	1.300	0.15	1	0.2	110	59.4	147	1.31	0.766	14.9	
1,3-buladiene	1.200	0.15	1	0	120	24.6	233	1.35	11.8	29.1	
1,3-Dichlorobenzene	1.160	0.15	1	0	116	73.3	127	1.15	0.866	11.8	
1,4-Dichlorobenzene	1.210	0.15	1	0	121	70.1	129	1.23	1.64	11.8	
1,4-Dioxane	1.020	0.30	1	0	102	64.4	124	1.02	0	13.7	
2,2,4-trimethylpentane	1.100	0.15	1	0	110	72.2	121	1.11	0.905	13.1	
4-ethyltoluene	1.490	0.15	1	0.28	121	27.2	167	1.5	0.669	18.7	

Qualifiers:
. Results reported are not blank corrected
DL Detection Limit
E Estimated Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: **C2302047-002A MS** SampType: **MSD** TestCode: **0.20_NYS** Units: **ppbV** Prep Date: RunNo: **20049**
Client ID: **Summa (MS-MSD)** Batch ID: **R20049** TestNo: **TO-15** Analysis Date: **2/25/2023** SeqNo: **229655**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	8.360	0.30	1	7.8	56.0	-3.52	152	8.6	2.83	18.7	
Allyl chloride	1.090	0.15	1	0	109	63	124	1.04	4.69	12.1	
Benzene	1.430	0.15	1	0.42	101	50	143	1.46	2.08	20.8	
Benzyl chloride	1.220	0.15	1	0	122	36.9	180	1.17	4.18	18.7	
Bromodichloromethane	1.020	0.15	1	0	102	55.5	131	1.04	1.94	13.2	
Bromoform	0.9900	0.15	1	0	99.0	27.8	144	0.97	2.04	7.99	
Bromomethane	1.010	0.15	1	0	101	57.3	131	1	0.995	16.2	
Carbon disulfide	0.9900	0.15	1	0	99.0	53.8	120	1	1.01	10.2	
Carbon tetrachloride	1.070	0.030	1	0.07	100	28.9	156	1.08	0.930	14.4	
Chlorobenzene	1.010	0.15	1	0	101	68.4	112	0.99	2.00	6.19	
Chloroethane	1.050	0.15	1	0	105	47.7	145	1.05	0	18.6	
Chloroform	1.000	0.15	1	0	100	64.1	123	1.02	1.98	8.53	
Chloromethane	1.590	0.15	1	0.64	95.0	36.8	143	1.62	1.87	21.2	
cis-1,2-Dichloroethene	0.9800	0.040	1	0	98.0	64.6	115	0.99	1.02	8.13	
cis-1,3-Dichloropropene	1.030	0.15	1	0	103	53.3	135	1.07	3.81	12.8	
Cyclohexane	1.410	0.15	1	0.39	102	22.8	171	1.43	1.41	38.2	
Dibromochloromethane	1.060	0.15	1	0	106	44.5	140	1.02	3.85	6.86	
Ethyl acetate	1.180	0.15	1	0	118	64.4	124	1.17	0.851	11.6	
Ethylbenzene	1.160	0.15	1	0.12	104	65.3	125	1.14	1.74	11.1	
Freon 11	1.280	0.15	1	0.25	103	57.1	130	1.32	3.08	10.4	
Freon 113	1.020	0.15	1	0	102	70.9	122	1.03	0.976	11.7	
Freon 114	1.010	0.15	1	0	101	46.7	158	1.02	0.985	14.9	
Freon 12	1.010	0.15	1	0	101	48.2	132	1.02	0.985	14.4	
Heptane	1.320	0.15	1	0.26	106	43.6	143	1.35	2.25	13.3	
Hexachloro-1,3-butadiene	1.100	0.15	1	0	110	65.2	135	1.12	1.80	12.6	
Hexane	1.150	0.15	1	0.21	94.0	57.2	136	1.19	3.42	10.9	
Isopropyl alcohol	2.850	0.15	1	1.82	103	32.5	143	2.95	3.45	38.2	
m&p-Xylene	2.490	0.30	2	0.34	108	60	130	2.48	0.402	15.8	
Methyl Butyl Ketone	1.150	0.30	1	0	115	46.2	153	1.2	4.26	10.1	
Methyl Ethyl Ketone	1.590	0.30	1	1.11	48.0	55.6	113	2.26	34.8	18.5	SR
Methyl Isobutyl Ketone	1.170	0.30	1	0	117	63	119	1.18	0.851	25.9	

Qualifiers:
. Results reported are not blank corrected
DL Detection Limit
E Estimated Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Leader Consulting Services
Work Order: C2302047
Project: Vails Gate - Tesla

TestCode: 0.20_NYS

Sample ID: C2302047-002A MS	SampType: MSD	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 20049
Client ID: Summa (MS-MSD)	Batch ID: R20049	TestNo: TO-15		Analysis Date: 2/25/2023	SeqNo: 229655

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.9600	0.15	1	0	96.0	64.6	123	0.97	1.04	15.6	
Methylene chloride	1.200	0.15	1	0.27	93.0	50.1	118	1.18	1.68	10.4	
o-Xylene	1.230	0.15	1	0.14	109	54.8	138	1.21	1.64	16.8	
Propylene	1.860	0.15	1	0	186	82.3	249	2.07	10.7	9.07	R
Styrene	1.360	0.15	1	0.2	116	64	127	1.33	2.23	12	
Tetrachloroethylene	1.010	0.15	1	0	101	55.2	130	1.03	1.96	9.19	
Tetrahydrofuran	1.100	0.15	1	0	110	17.5	154	1.08	1.83	14.2	
Toluene	1.830	0.15	1	0.82	101	21.3	164	1.86	1.63	22.9	
trans-1,2-Dichloroethene	0.9200	0.15	1	0	92.0	39.2	153	1	8.33	34.5	
trans-1,3-Dichloropropene	1.060	0.15	1	0	106	43.5	152	1.09	2.79	8.82	
Trichloroethene	0.9000	0.030	1	0	90.0	50.1	128	0.91	1.10	9.89	
Vinyl acetate	1.110	0.15	1	0	111	65.6	136	1.12	0.897	27.2	
Vinyl Bromide	1.050	0.15	1	0	105	51.4	147	1.06	0.948	18.3	
Vinyl chloride	1.040	0.040	1	0	104	48	135	1.05	0.957	14.5	

Qualifiers:

.	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022425.D
Acq On : 25 Feb 2023 2:13 am
Operator : RJP
Sample : C2302047-002A MS
Misc : A223_1UG
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 25 09:29:52 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.353	128	64490	1.00	ppb		0.00
35) 1,4-difluorobenzene	11.640	114	360651	1.00	ppb		0.00
50) Chlorobenzene-d5	16.434	117	298299	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.184	95	189031	1.07	ppb		0.03
Spiked Amount 1.000	Range 70 - 130		Recovery = 107.00%				
Target Compounds							Qvalue
2) Propylene	3.916	41	161139m	2.07	ppb		
3) Freon 12	4.156	85	298863	1.02	ppb		96
4) Chloromethane	4.150	50	156740	1.62	ppb		94
5) Freon 114	4.156	85	298863	1.02	ppb		99
6) Vinyl Chloride	4.336	62	95712	1.05	ppb		96
7) Butane	4.432	43	464905	4.73	ppb		98
8) 1,3-butadiene	4.432	39	85512m	1.35	ppb		
9) Bromomethane	4.760	94	93362	1.00	ppb		97
10) Chloroethane	4.916	64	44034	1.05	ppb		97
11) Ethanol	5.750	45	369812	2.84	ppb	#	1
12) Acrolein	5.564	56	28995	1.73	ppb		81
13) Vinyl Bromide	5.237	106	92713	1.06	ppb		99
14) Freon 11	5.501	101	370245	1.32	ppb		98
15) Acetone	5.648	58	432765	8.60	ppb	#	79
16) Pentane	5.771	42	247052m	2.83	ppb		
17) Isopropyl alcohol	5.750	45	369812	2.95	ppb	#	1
18) 1,1-dichloroethene	6.231	96	114774	1.02	ppb		94
19) Freon 113	6.423	101	277879	1.03	ppb		95
20) t-Butyl alcohol	6.441	59	304406	1.42	ppb	#	90
21) Methylene chloride	6.672	84	130351	1.18	ppb		93
22) Allyl chloride	6.660	41	110381	1.04	ppb		98
23) Carbon disulfide	6.825	76	294653	1.00	ppb		96
24) trans-1,2-dichloroethene	7.584	61	135024	1.00	ppb		97
25) methyl tert-butyl ether	7.596	73	309094	0.97	ppb		91
26) 1,1-dichloroethane	7.999	63	226780	1.04	ppb		97
27) Vinyl acetate	7.990	43	117737	1.12	ppb		95
28) Methyl Ethyl Ketone	8.476	72	114392	2.26	ppb		97
29) cis-1,2-dichloroethene	8.914	61	132095m	0.99	ppb		
30) Hexane	8.527	57	236132	1.19	ppb		96
31) Ethyl acetate	9.061	43	283161	1.17	ppb		97
32) Chloroform	9.509	83	249837	1.02	ppb		98
33) Tetrahydrofuran	9.674	42	106208	1.08	ppb		98
34) 1,2-dichloroethane	10.601	62	141578	1.07	ppb		96
36) 1,1,1-trichloroethane	10.313	97	238783	1.10	ppb		98
37) Cyclohexane	11.022	56	267206	1.43	ppb		90
38) Carbon tetrachloride	10.959	117	202237	1.08	ppb		93
39) Benzene	10.926	78	543205	1.46	ppb		96
40) Methyl methacrylate	12.535	41	328485	3.04	ppb		92
41) 1,4-dioxane	12.544	88	80959	1.02	ppb		90
42) 2,2,4-trimethylpentane	11.814	57	641064	1.11	ppb		99
43) Heptane	12.174	43	238869	1.35	ppb		97
44) Trichloroethene	12.289	130	157605	0.91	ppb		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022425.D
Acq On : 25 Feb 2023 2:13 am
Operator : RJP
Sample : C2302047-002A MS
Misc : A223_1UG
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 25 09:29:52 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

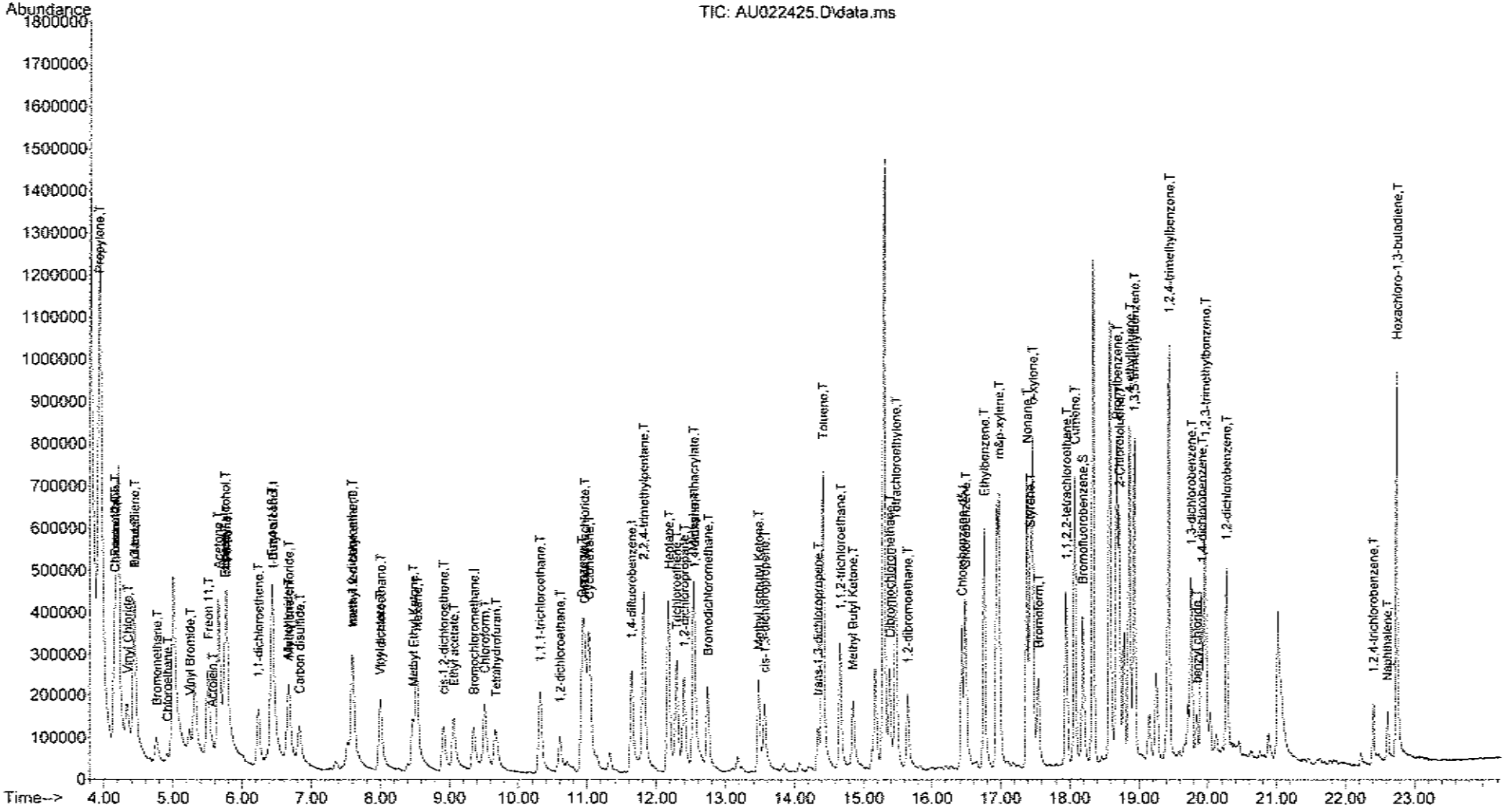
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 1,2-dichloropropane	12.400	63	151770	1.05	ppb		97
46) Bromodichloromethane	12.739	83	219403	1.04	ppb		99
47) cis-1,3-dichloropropene	13.561	75	158857	1.07	ppb		98
48) trans-1,3-dichloropropene	14.339	75	118336	1.09	ppb		88
49) 1,1,2-trichloroethane	14.663	97	159503	1.06	ppb		93
51) Toluene	14.408	92	470918	1.86	ppb		94
52) Methyl Isobutyl Ketone	13.477	43	256119	1.18	ppb		99
53) Dibromochloromethane	15.381	129	175753m	1.02	ppb		
54) Methyl Butyl Ketone	14.846	43	197622	1.20	ppb		94
55) 1,2-dibromoethane	15.642	107	201871	1.04	ppb		97
56) Tetrachloroethylene	15.468	164	177766	1.03	ppb		98
57) Chlorobenzene	16.485	112	324513	0.99	ppb		100
58) Ethylbenzene	16.755	91	597247	1.14	ppb		99
59) m&p-xylene	16.969	91	967302	2.48	ppb		98
60) Nonane	17.377	43	297439	1.20	ppb		100
61) Styrene	17.422	104	364268	1.33	ppb		85
62) Bromoform	17.545	173	138047	0.97	ppb		94
63) o-xylene	17.455	91	561491	1.21	ppb		96
64) Cumene	18.067	105	623638	1.07	ppb		99
66) 1,1,2,2-tetrachloroethane	17.947	83	324661	1.05	ppb		97
67) Propylbenzene	18.674	120	189987	1.28	ppb	#	1
68) 2-Chlorotoluene	18.713	126	151809	1.08	ppb	#	1
69) 4-ethyltoluene	18.857	105	712586m	1.50	ppb		
70) 1,3,5-trimethylbenzene	18.926	105	630329m	1.31	ppb		
71) 1,2,4-trimethylbenzene	19.427	105	754382	1.89	ppb		99
72) 1,3-dichlorobenzene	19.754	146	254491	1.15	ppb		99
73) benzyl chloride	19.835	91	92111m	1.17	ppb		
74) 1,4-dichlorobenzene	19.907	146	246229m	1.23	ppb		
75) 1,2,3-trimethylbenzene	19.956	105	519792	1.26	ppb		98
76) 1,2-dichlorobenzene	20.265	146	247610	1.14	ppb		97
77) 1,2,4-trichlorobenzene	22.402	180	63911	1.28	ppb		94
78) Naphthalene	22.606	128	143656	1.30	ppb		98
79) Hexachloro-1,3-butadiene	22.738	225	229197	1.12	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022425.D
Acq On : 25 Feb 2023 2:13 am
Operator : RJP
Sample : C2302047-002A MS
Misc : A223_1UG
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 25 09:29:52 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022426.D
Acq On : 25 Feb 2023 3:05 am
Operator : RJP
Sample : C2302047-002A MSD
Misc : A223_1UG
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 25 09:29:54 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.356	128	64945	1.00	ppb		# 0.00
35) 1,4-difluorobenzene	11.637	114	365660	1.00	ppb		-0.01
50) Chlorobenzene-d5	16.434	117	300494	1.00	ppb		0.00
System Monitoring Compounds							
65) Bromofluorobenzene	18.181	95	196610	1.10	ppb		0.02
Spiked Amount 1.000	Range 70 - 130		Recovery = 110.00%				
Target Compounds							Qvalue
2) Propylene	3.916	41	146167m	1.86	ppb		
3) Freon 12	4.159	85	296481	1.01	ppb		100
4) Chloromethane	4.159	50	155257	1.59	ppb		96
5) Freon 114	4.159	85	296481	1.01	ppb		98
6) Vinyl Chloride	4.330	62	95383	1.04	ppb		96
7) Butane	4.435	43	455906	4.61	ppb		94
8) 1,3-butadiene	4.432	39	76592m	1.20	ppb		
9) Bromomethane	4.757	94	95413	1.01	ppb		100
10) Chloroethane	4.913	64	44227	1.05	ppb		93
11) Ethanol	5.756	45	359619	2.75	ppb	#	1
12) Acrolein	5.564	56	27292	1.62	ppb		81
13) Vinyl Bromide	5.243	106	92520	1.05	ppb		96
14) Freon 11	5.501	101	362256	1.28	ppb		100
15) Acetone	5.654	58	423557	8.36	ppb	#	78
16) Pentane	5.768	42	179476	2.04	ppb	#	12
17) Isopropyl alcohol	5.756	45	359619	2.85	ppb	#	1
18) 1,1-dichloroethene	6.230	96	118444	1.05	ppb		96
19) Freon 113	6.429	101	278768	1.02	ppb		96
20) t-Butyl alcohol	6.441	59	312183	1.45	ppb	#	79
21) Methylene chloride	6.681	84	133029	1.20	ppb		96
22) Allyl chloride	6.663	41	116364	1.09	ppb		99
23) Carbon disulfide	6.828	76	291643	0.99	ppb		97
24) trans-1,2-dichloroethene	7.593	61	124915	0.92	ppb		95
25) methyl tert-butyl ether	7.599	73	308230	0.96	ppb		89
26) 1,1-dichloroethane	8.005	63	226655	1.03	ppb		96
27) Vinyl acetate	7.996	43	117712	1.11	ppb		96
28) Methyl Ethyl Ketone	8.467	72	81113	1.59	ppb	#	35
29) cis-1,2-dichloroethene	8.914	61	132046m	0.98	ppb		
30) Hexane	8.527	57	231136	1.15	ppb		98
31) Ethyl acetate	9.055	43	287369	1.18	ppb		96
32) Chloroform	9.509	83	246084	1.00	ppb		100
33) Tetrahydrofuran	9.665	42	109086	1.10	ppb		98
34) 1,2-dichloroethane	10.607	62	139466	1.04	ppb		96
36) 1,1,1-trichloroethane	10.319	97	237268	1.07	ppb		98
37) Cyclohexane	11.025	56	265941	1.41	ppb		89
38) Carbon tetrachloride	10.965	117	204342	1.07	ppb		95
39) Benzene	10.929	78	539679	1.43	ppb		95
40) Methyl methacrylate	12.535	41	326179	2.97	ppb		92
41) 1,4-dioxane	12.544	88	81824	1.02	ppb		93
42) 2,2,4-trimethylpentane	11.811	57	641355	1.10	ppb		99
43) Heptane	12.174	43	235873	1.32	ppb		98
44) Trichloroethene	12.291	130	158371	0.90	ppb		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022426.D
Acq On : 25 Feb 2023 3:05 am
Operator : RJP
Sample : C2302047-002A MSD
Misc : A223_1UG
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 25 09:29:54 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration

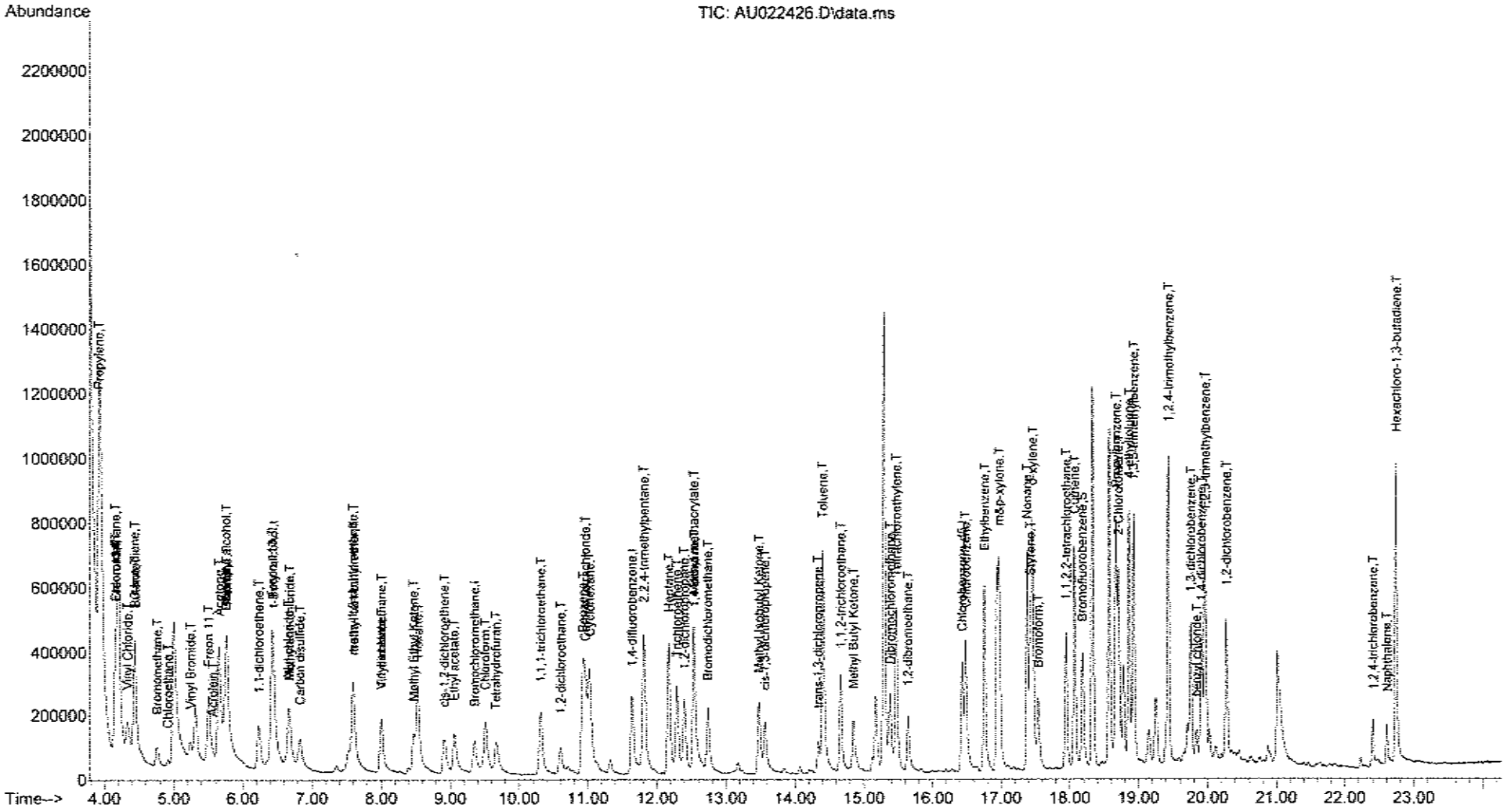
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 1,2-dichloropropane	12.397	63	149595	1.02	ppb		99
46) Bromodichloromethane	12.736	83	218140	1.02	ppb		100
47) cis-1,3-dichloropropene	13.567	75	156129	1.03	ppb		98
48) trans-1,3-dichloropropene	14.336	75	117208	1.06	ppb		91
49) 1,1,2-trichloroethane	14.666	97	155388	1.02	ppb		96
51) Toluene	14.405	92	467671	1.83	ppb		95
52) Methyl Isobutyl Ketone	13.480	43	256003	1.17	ppb		99
53) Dibromochloromethane	15.383	129	183296	1.06	ppb		97
54) Methyl Butyl Ketone	14.846	43	191250	1.15	ppb		92
55) 1,2-dibromoethane	15.639	107	199051	1.01	ppb		98
56) Tetrachloroethylene	15.474	164	174213	1.01	ppb		95
57) Chlorobenzene	16.485	112	331444	1.01	ppb		99
58) Ethylbenzene	16.758	91	612223	1.16	ppb		99
59) m&p-xylene	16.969	91	979861	2.49	ppb		98
60) Nonane	17.377	43	300993	1.21	ppb		99
61) Styrene	17.425	104	375285	1.36	ppb		89
62) Bromoform	17.539	173	141859	0.99	ppb		94
63) o-xylene	17.455	91	571713	1.23	ppb		94
64) Cumene	18.067	105	637533	1.08	ppb		99
66) 1,1,2,2-tetrachloroethane	17.947	83	326365	1.05	ppb		97
67) Propylbenzene	18.671	120	195248	1.31	ppb	#	1
68) 2-Chlorotoluene	18.707	126	151432	1.07	ppb	#	1
69) 4-ethyltoluene	18.857	105	711801m	1.49	ppb		
70) 1,3,5-trimethylbenzene	18.926	105	628099m	1.30	ppb		
71) 1,2,4-trimethylbenzene	19.430	105	759175	1.89	ppb		100
72) 1,3-dichlorobenzene	19.754	146	257951	1.16	ppb		98
73) benzyl chloride	19.835	91	96879m	1.22	ppb		
74) 1,4-dichlorobenzene	19.904	146	245932m	1.21	ppb		
75) 1,2,3-trimethylbenzene	19.958	105	515075	1.24	ppb		98
76) 1,2-dichlorobenzene	20.268	146	251581	1.15	ppb		98
77) 1,2,4-trichlorobenzene	22.405	180	65485	1.30	ppb		94
78) Naphthalene	22.606	128	143728	1.29	ppb		98
79) Hexachloro-1,3-butadiene	22.738	225	226623	1.10	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU022426.D
Acq On : 25 Feb 2023 3:05 am
Operator : RJP
Sample : C2302047-002A MSD
Misc : A223_1UG
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 25 09:29:54 2023
Quant Method : C:\msdchem\1\methods\A223_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Fri Feb 24 08:23:48 2023
Response via : Initial Calibration



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Document # 1
Original Standard Stock # A5566
Standard Stock # 5539
LCS Stock # 5539
Method Ref: EPA TO-15 / Jan. 1999

259) AU022313.D					
A1UG_1.0	A223_1UG	12	1.000	23 Feb 2023	7:23 pm
260) AU022314.D					
A1UG_1.25	A223_1UG	13	1.000	23 Feb 2023	8:07 pm
261) AU022315.D					
A1UG_1.50	A223_1UG	14	1.000	23 Feb 2023	8:53 pm
262) AU022316.D					
A1UG_2.0	A223_1UG	15	1.000	23 Feb 2023	9:41 pm
263) AU022317.D					
A1UG_0.10	A223_1UG	16	1.000	23 Feb 2023	10:25 pm
264) AU022318.D					
A1UG_0.04	A223_1UG	17	1.000	23 Feb 2023	11:07 pm
265) AU022319.D					
A1UG_0.03	A223_1UG	18	1.000	23 Feb 2023	11:49 pm
266) AU022320.D					
A1UG_0.15	A223_1UG	19	1.000	24 Feb 2023	12:32 am
267) AU022321.D					
A1UG_0.30	A223_1UG	20	1.000	24 Feb 2023	1:13 am
268) AU022322.D					
A1UG_0.50	A223_1UG	21	1.000	24 Feb 2023	1:55 am
269) AU022323.D					
A1UG_0.75	A223_1UG	22	1.000	24 Feb 2023	2:38 am
270) AU022324.D					
A1UG_1.0	A223_1UG	23	1.000	24 Feb 2023	3:22 am
271) AU022325.D					
A1UG_1.25	A223_1UG	24	1.000	24 Feb 2023	4:07 am
272) AU022326.D					
A1UG_1.50	A223_1UG	25	1.000	24 Feb 2023	4:53 am
273) AU022327.D					
A1UG_2.0	A223_1UG	26	1.000	24 Feb 2023	5:41 am
274) AU022401.D					
BFB1UG	A223_1UG	1	1.000	24 Feb 2023	8:28 am
275) AU022402.D					
A1UG_1.0	A223_1UG	2	1.000	24 Feb 2023	9:14 am
276) AU022403.D					
ALCS1UG-022423	A223_1UG	3	1.000	24 Feb 2023	9:58 am
277) AU022404.D					
AMB1UG-022423	A223_1UG	4	1.000	24 Feb 2023	10:38 am
278) AU022405.D					
WAC022424A	A223_1UG	5	1.000	24 Feb 2023	11:42 am
279) AU022406.D					
WAC022425B	A223_1UG	6	1.000	24 Feb 2023	12:24 pm
280) AU022407.D					

...ment # 1
...tional Standard Stock # A5536
Standard Stock # 5537
LCS Stock # 5535
Method: EPA TO-15 17 Jan 1999

WAC022426C	A223_1UG	7	1.000	24 Feb 2023	1:06 pm
281) AU022408.D					
WAC022426D	A223_1UG	1	1.000	24 Feb 2023	1:48 pm
282) AU022409.D					
WAC022426E	A223_1UG	2	1.000	24 Feb 2023	2:30 pm
283) AU022410.D					
WAC022426F	A223_1UG	3	1.000	24 Feb 2023	3:12 pm
284) AU022411.D					
WAC022426G	A223_1UG	4	1.000	24 Feb 2023	3:54 pm
285) AU022412.D					
WAC022426H	A223_1UG	5	1.000	24 Feb 2023	4:36 pm
286) AU022413.D					
WAC022426I	A223_1UG	6	1.000	24 Feb 2023	5:18 pm
287) AU022414.D					
C2302049-001A	A223_1UG	7	1.000	24 Feb 2023	6:03 pm
288) AU022415.D					
C2302049-002A	A223_1UG	8	1.000	24 Feb 2023	6:47 pm
289) AU022416.D					
C2302049-003A	A223_1UG	9	1.000	24 Feb 2023	7:31 pm
290) AU022417.D					
C2302036-001A	A223_1UG	10	1.000	24 Feb 2023	8:15 pm
291) AU022418.D					
C2302036-002A	A223_1UG	11	1.000	24 Feb 2023	9:00 pm
292) AU022419.D					
C2302036-003A	A223_1UG	12	1.000	24 Feb 2023	9:44 pm
293) AU022420.D					
C2302036-004A	A223_1UG	13	1.000	24 Feb 2023	10:28 pm
294) AU022421.D					
C2302036-005A	A223_1UG	14	1.000	24 Feb 2023	11:13 pm
295) AU022422.D					
C2302047-003A	A223_1UG	15	1.000	24 Feb 2023	11:55 pm
296) AU022423.D					
C2302047-001A	A223_1UG	16	1.000	25 Feb 2023	12:39 am
297) AU022424.D					
C2302047-002A	A223_1UG	17	1.000	25 Feb 2023	1:23 am
298) AU022425.D					
C2302047-002A MS	A223_1UG	18	1.000	25 Feb 2023	2:13 am
299) AU022426.D					
C2302047-002A MSD	A223_1UG	19	1.000	25 Feb 2023	3:05 am
300) AU022427.D					
ALCS1UGD-022423	A223_1UG	20	1.000	25 Feb 2023	3:49 am
301) AU022428.D					
C2302049-001A 10X	A223_1UG	21	1.000	25 Feb 2023	4:32 am

Instrument # 1
Internal Standard Stock # A5536
Standard Stock # 5537
DFTPP Stock # 5538
Method: Ref: EPA TO-15 / Jan. 1999

302) AU022429.D					
C2302049-002A 10X	A223_1UG	22	1.000	25 Feb 2023	5:14 am
303) AU022430.D					
C2302049-003A 10X	A223_1UG	23	1.000	25 Feb 2023	5:57 am
304) AU022431.D					
C2302036-001A 10X	A223_1UG	24	1.000	25 Feb 2023	6:40 am
305) AU022432.D					
C2302036-002A 10X	A223_1UG	25	1.000	25 Feb 2023	7:23 am
306) AU022433.D					
C2302036-003A 10X	A223_1UG	26	1.000	25 Feb 2023	8:06 am
307) AU022434.D					
C2302036	A223_1UG-004A 10X	27	1.000	25 Feb 2023	8:50 am
308) AU022501.D					
BFB1UG	A223_1UG	1	1.000	25 Feb 2023	9:57 am
309) AU022502.D					
A1UG_1.0	A223_1UG	2	1.000	25 Feb 2023	10:44 am
310) AU022503.D					
ALCS1UG-022523	A223_1UG	3	1.000	25 Feb 2023	11:29 am
311) AU022504.D					
AMB1UG-022523	A223_1UG	4	1.000	25 Feb 2023	12:08 pm
312) AU022505.D					
C2302036-004A 10X	A223_1UG	5	1.000	25 Feb 2023	12:51 pm
313) AU022506.D					
C2302036-004A 40X	A223_1UG	6	1.000	25 Feb 2023	1:33 pm
314) AU022507.D					
C2302036-005A 10X	A223_1UG	7	1.000	25 Feb 2023	2:16 pm
315) AU022508.D					
C2302047-001A 10X	A223_1UG	8	1.000	25 Feb 2023	2:59 pm
316) AU022509.D					
C2302047-002A 10X	A223_1UG	9	1.000	25 Feb 2023	3:43 pm
317) AU022701.D					
BFB1UG	A223_1UG	1	1.000	27 Feb 2023	8:44 am
318) AU022702.D					
A1UG_1.0	A223_1UG	2	1.000	27 Feb 2023	9:43 am
319) AU022703.D					
ALCS1UG-022723	A223_1UG	3	1.000	27 Feb 2023	11:14 am
320) AU022704.D					
AMB1UG-022723	A223_1UG	4	1.000	27 Feb 2023	11:53 am
321) AU022801.D					
BFB1UG	A223_1UG	1	1.000	28 Feb 2023	9:06 am
322) AU022802.D					
A1UG	A223_1UG	2	1.000	28 Feb 2023	10:46 am
323) AU022803.D					
A1UG	A223_1UG	3	1.000	28 Feb 2023	12:45 pm

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Finial Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-4930	3/29/22	4/5/22	TO15 14G IS	A4920	50 ppb	0.9	45	1	WJ	
A-4931	↓	↓	↓ STD	A4921	↓	↓	↓	↓	↓	
A-4932	↓	↓	↓ LCS	A4922	↓	↓	↓	↓	↓	
A-4933	4/5/22	4/12/22	TO15 IS	A4266	1 ppm	1.5	30	50	WJ	
A-4934	↓	↓	↓ STD	A4267	↓	↓	↓	↓	↓	
A-4935	↓	↓	↓ LCS	A4268	↓	↓	↓	↓	↓	
A-4936	↓	↓	↓ 4PCH	A3992	1.025 ppm	1.47	30	50	↓	
A-4937	↓	↓	↓ 4PCHS	A4936	50 ppb	3.0	30	5	↓	
A-4938	↓	↓	↓ FORM	A3792	10.3 ppm	0.22	45	50	↓	
A-4939	↓	↓	↓ SILOX	A2574 / A2623	499 ppb / 500 ppb	3.34 / 3.0	30	50	↓	
A-4940	↓	↓	↓ SULF	A3926	1 ppm	1.5	30	50	↓	
A-4941	↓	↓	↓ H2S	A2572	10.2 ppm	1.47	30	500	↓	
A-4942	↓	↓	↓ H2S 50	A4941	500 ppb	3.0	30	50	↓	
A-4943	↓	↓	TO15 14G IS	A4933	50 ppb	0.9	45	1	↓	
A-4944	↓	↓	↓ STD	A4934	↓	↓	↓	↓	↓	
A-4945	↓	↓	↓ LCS	A4935	↓	↓	↓	↓	↓	
A-4946	3/30/22	3/30/23	TO15 IS	FF-531165		LINDE	2000 psig	1.0 ppm	WJ	
A-4947	3/8/22	3/8/23	TO15 STD	FF-531157		LINDE	2200 psig	1.0 ppm	WJ	
A-4948	3/8/22	3/8/23	TO15 LCS	A4267	1 ppm	A4267	IS Now	LCS	WJ	
A-4949	4/12/22	4/19/22	TO15 IS	A4946	1 ppm	1.5	30	50	WJ	
A-4950	↓	↓	↓ STD	A4947	↓	↓	↓	↓	↓	

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Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Finial Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-5518	2/14/23	2/21/23	TOIS FORM	A5355	11.5 ppm	0.20	45	50	JJ	
A-5519	↓	↓	SILWX	A5356 A2623	463 ppb 500 ppb	3.0 3.0	30	50	↓	
A-5520			SULF	A5053	1 ppm	1.5	30	50		
A-5521			H2S	A5034	8.03 ppm	1.87	30	500		
A-5522			H2S50	A5521	500 ppb	3.0	30	50		
A-5523			TOIS 1,4-D IS	A5513	50 ppb	0.9	45	1		
A-5524			STD	A5514	↓	↓	↓	↓	↓	
A-5525	↓	↓	LCS	A5515	↓	↓	↓	↓	↓	
A-5526	2/21/23	2/28/23	TOIS IS	A4946	1 ppm	1.5	30	50	JJ	
A-5527	↓	↓	STD	A4947	↓	↓	↓	↓	↓	
A-5528			LCS	A4948	↓	↓	↓	↓		
A-5529			4PCH	A3912	1.025 ppm	1.47	30	50		
A-5530			4PCH5	A5529	50 ppb	3.0	30	5		
A-5531			FORM	A5355	11.5 ppm	0.20	45	50		
A-5532			SILWX	A5356 A2623	463 ppb 500 ppb	3.0 3.0	30	50		
A-5533			SULF	A5053	1 ppm	1.5	30	50		
A-5534			H2S	A5034	8.03 ppm	1.87	30	20		
A-5535			H2S50	A5534	520 ppb	3.0	30	50		
A-5536			TOIS 1,4-D IS	A5526	50 ppb	0.9	45	1		
A-5537			STD	A5527	↓	↓	↓	↓	↓	
A-5538	↓	↓	LCS	A5528	↓	↓	↓	↓		

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GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	Canister Size	QC Can Number	# of Cycles	Int & Date Cleaned	QC Batch Number	Detection Limits	Leak Test 24hr Int & Date	
550	1L	1545	20	12/5/22	WAC-120622A	1ng +0.20	+ 30	+ 30
1174							+ 30	+
325							+ 30	+
1192							+ 30	+
1575		↓					+ 30	+
353		1187			B		+ 30	+
242							+ 30	+
1181							+ 30	+
419							+ 30	+
1187		↓					+ 30	+
239		130			C		+ 30	+
333							+ 30	+
359							+ 30	+
1182							+ 30	+
130		↓					+ 30	+
94		567			D		+ 30	+
362							+ 30	+
287							+ 30	+
58							+ 30	+
567		↓					+ 30	+
107		171			E		+ 30	+
565							+ 30	+
96							+ 30	+
318							+ 30	+
17.							+ 30	+

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\2022DEC\
Data File : AT123007.D
Acq On : 30 Dec 2022 2:16 pm
Operator : RJP
Sample : WAC123022C
Misc : AD29_1UG
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 30 14:07:25 2023
Quant Method : C:\msdchem\1\methods\AD29_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Feb 02 15:09:41 2023
Response via : Initial Calibration

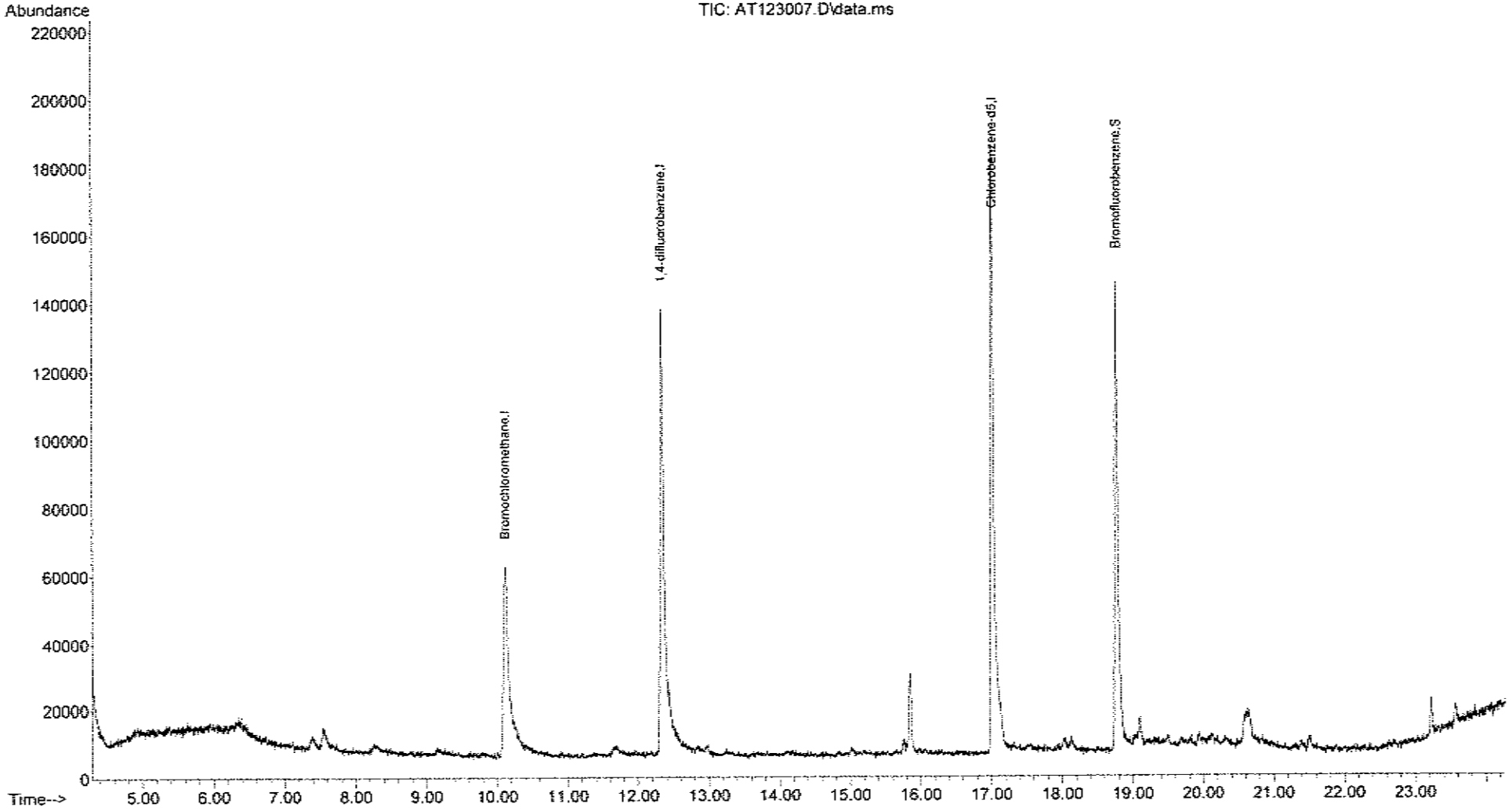
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.117	128	43609	1.00	ppb	# 0.00
35) 1,4-difluorobenzene	12.338	114	216158	1.00	ppb	0.00
50) Chlorobenzene-d5	17.021	117	178699	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.768	95	86885	0.80	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 80.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\2022DEC\
Data File : AT123007.D
Acq On : 30 Dec 2022 2:16 pm
Operator : RJP
Sample : WAC123022C
Misc : AD29_1UG
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 30 14:07:25 2023
Quant Method : C:\msdchem\1\methods\AD29_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Feb 02 15:09:41 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\2022DEC\
Data File : AT123008.D
Acq On : 30 Dec 2022 2:58 pm
Operator : RJP
Sample : WAC123022D
Misc : AD29_1UG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 30 14:07:59 2023
Quant Method : C:\msdchem\1\methods\AD29_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Feb 02 15:09:41 2023
Response via : Initial Calibration

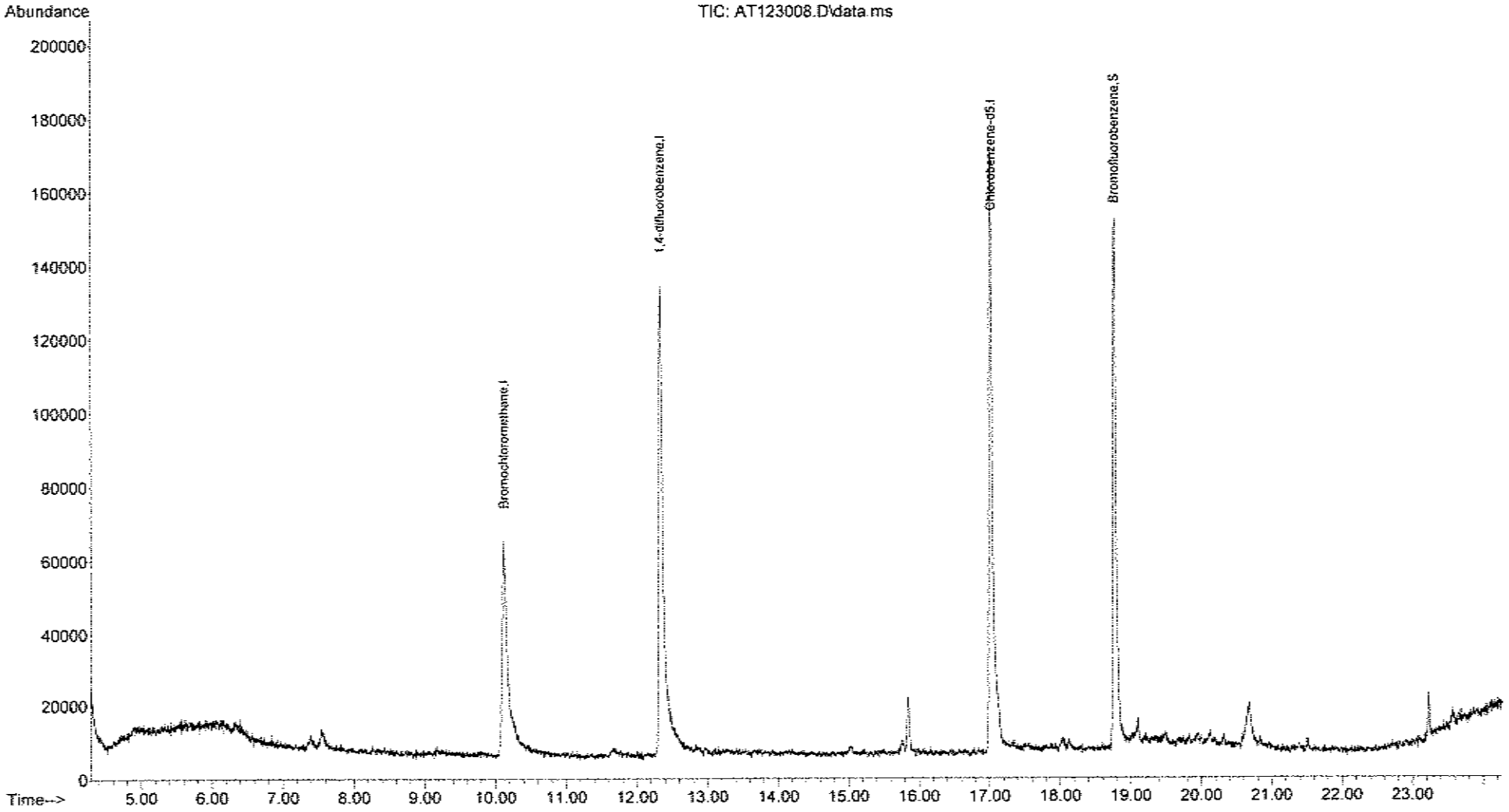
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.123	128	43110	1.00	ppb	# 0.00
35) 1,4-difluorobenzene	12.338	114	210538	1.00	ppb	0.00
50) Chlorobenzene-d5	17.021	117	174318	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.762	95	93910	0.89	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 89.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\2022DEC\
Data File : AT123008.D
Acq On : 30 Dec 2022 2:58 pm
Operator : RJP
Sample : WAC123022D
Misc : AD29_1UG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 30 14:07:59 2023
Quant Method : C:\msdchem\1\methods\AD29_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Feb 02 15:09:41 2023
Response via : Initial Calibration



Attachment C

SSDS Pressure Data

Alpine inc.
ENVIRONMENTAL SERVICES

LEGEND

- Extraction Point
- Extraction Piping
- System Fan and Exhaust
- System Pressure Gauge
- System Pressure Alarm
- Electrical Conduit
- Electrical Junction Box
- Electrical Panel
- Electrical Outlet
- Electrical Disconnect
- Fire Block
- Steel Column
- Storage Racks
- Door
- Overhead Door
- Cinderblock Wall
- Sheetrock Wall

Extraction Point — System Number — EP 1-2 — Extraction Point

N

Scale (feet)
0' 2.5' 5' 7.5' 10'

Unit#14
Locaton of Tenant:
Tommy Hilfiger

Unit#13
Locaton of Tenant:
US Mint

EP1-7 Pressure:
1.5"WC 03/18/2022
1.9"WC 04/19/2023

EP1-6 Pressure: No Reading, Blocked by Pallets, 03/18/2022 & 04/19/2023

EP1-2 Pressure:
1.6"WC 03/18/2022
2.1" WC 04/19/2023

109'

24'

58'

18'

19'

19'

20'

T-4

EP 1-7

EP 1-6

EP 1-2

T-8

T-7

T-9

T-5

T-6

T-2

T-3

T-1

Storage Racks

Storage

Storage

Column

thick slab - unable to get micro-minometer readings

Office
13' x 20'

Office

Sump Pit Sealed by Property Owner

Electrical Controls Room

Bath Room 7'x7'

Bath Room 7'x7'

Storage Racks

Exit

Stairs

Loading Dock

Valve

Valve

Valve

Fan and Exhaust above roof line

EP 1-8

EP 1-5

EP 1-4

EP 1-3

EP 1-1

Storage Racks

Storage Racks

Exit

Stairs

50'

Conduit from electrical panel located in Unit#16 (Wessin Transport)

EP1-8 Pressure:
1.5"WC 03/18/2022
1.9" WC 04/19/2023

EP1-5 Pressure:
1.5"WC 03/18/2022
1.9"WC 04/19/2023

EP1-4 Pressure:
1.5"WC 03/18/2022
1.9"WC 04/19/2023

EP1-3 Pressure:
1.5"WC 03/18/2022
1.9 "WC 04/19/2023

EP1-1 Pressure:
1.7"WC 03/18/2022
2.1 "WC 04/19/2023

Alpine Environmental Services, Inc.
438 New Karner Road
Albany, NY 12205
(518)250-4047

P. Schnitzer — April 19, 2023

Sub-Slab Depressurization System Pressures
Unit#15 - US Mint Space

Vails Gate Manufacturing Facility
1073 State Route 94
Vails Gate, New York

System Install - February 16, 2010

Attachment D

Groundwater Summary Tables and Figure

TABLE 3

Groundwater Monitoring Well Sample Laboratory Analytical Data

	MW-5A/AR		MW-14		MW-16		Proposed Guidance Values for PFOA, PFOS and 1,4-Dioxane (3)
Analyte (1)	**September 2022**	**February 2023**	**September 2022**	**February 2023**	**September 2022**	**February 2023**	
Quarterly Sampling Parameters							
Volatiles							
1,4-Dioxane	21.9	9.6	143	128	0.28	1.5	1.0

NOTES:
(1) All analyte values expressed as parts per billion ("ppb").
(2) A value identified in red indicates a concentration of the analyte in excess of the 6 NYCRR, Part 703.5 Table 1 standard or NYSDEC TOGS 1.1.1 guidance value.
(3) NYSEC Proposed Guidance Values for PFOA, PFOS and 1,4-Dioxane

TABLE 1c - MW-16

GROUNDWATER MONITORING WELL SAMPLE LABORATORY ANALYTICAL DATA SUMMARY - DECTECTED PARAMETERS

	MW-16																		
Analyte [1]	**June 2011**	**November 2011**	**July 2012**	**January 2013**	**August 2014** [6]	**November 2014** [7]	**February 2015**	**May 2015**	**August 2015**	**November 2015**	**February 2016**	**May 2016**	**August 2016**	**February 2017**	**August 2017**	**October 2021**	**September 2022**	**February 2023**	**Class GA Groundwater Standard (ppb)** [3]
Quarterly Sampling Parameters																			
Volatiles																			
acetone	ND	ND	ND	ND	2 [2][8]	ND	ND	4.6 [2]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50 [4]
chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	3.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1-dichloroethane	17	7.9	33	14	14	19	7.18	14	73	8.4	5.2	ND	9.1	1.4	2.6	1.8	2.6	1.1	5
1,1-dichloroethene	3 [2]	2.4 [2]	8.7	5.6	7	9 [2]	1.73	5.6	33	4.2	1.8	ND	4.5	ND	ND	1.2	ND	ND	5
cis-1,2 dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,4-dioxane[14]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2	ND	ND	1 [5]
tetrachloroethene	ND	ND	3.2 [2]	3.9 [2]	2 [2]	3 [2][10]	1.42	2.2	11	4.5	2.5	1.3 [13]	2.4	1.4	ND	ND	ND	ND	5
toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,1-trichloroethane	ND	13	2.2 [2]	ND	1 [2]	2 [2]	ND	ND	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,2-trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
vinyl chloride	ND	ND	ND	ND	ND	ND	ND	1	7.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
2-butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50 [4]
4-methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	[5]
naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10 [4]
n-propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,3 trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5 [4]
1,2,4 trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,4 trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,3,5 trimethylbenzene/P ethyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	DN	ND	ND	5
sec-butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	DN	ND	ND	5
1,2-dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	DN	ND	ND	0.6
trichloroethene	ND	ND	ND	ND	ND	3 [2]	ND	ND	1.2	ND	ND	ND	ND	ND	ND	DN	ND	ND	5
chloroform	ND	ND	ND	ND	ND	ND	1.85	4.9	ND	ND	ND	ND	ND	ND	ND	DN	ND	ND	7
Wet Chemistry and Dissolved Metals																			
sulfate	NA	NA	NA	NA	14,400	17,900	18,800	20,500	25,300	13,000	10,900	3,570 [2]	8,670	<5,000	6,400	NA	NA	NA	250,000
total organic carbon (TOC)	NA	NA	NA	NA	8,650	10,800	4,220	11,700	28,000	6,180	4,940	2,700	5,510	1,500	5,500	NA	NA	NA	NS
dissolved iron	NA	NA	NA	NA	ND	231	1,470	30.9 [2]	12.2 [2]	1,460	1,250	<100	310	220	433	NA	NA	NA	as low as possible, NTE 500,000

NOTES:
(1) All analyte values expressed as parts per billion ("ppb").
(2) The analyte was "J" flagged, indicating that it was detected below the laboratory quantification limits, and should be considered estimated.
(3) Standard is identified in 6 NYCRR, Part 703.5, Table 1, Water Quality Standards Surface Waters and Groundwater.
(4) Standard is not identified in 6 NYCRR, Part 703.5, Table 1. NYSDEC TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations has been used.
(5) Analyte Standard does not exist in Part 703.5, Table 1. Analyte is identified in TOGS 1.1.1, Table 3 as unregulated.
(6) Sampling date of August 11, 2014, reflects pre-bioremediation injection date of August 13 and 14, 2014.
(7) November 2014 sampling event reflects first post-bioremediation data.
(8) The analyte was "B" flagged, indicating that it was detected in the laboratory method blank, and should be considered estimated.
(9) The analyte was "E"flagged, indicating that the concentration exceeded the calibration range of the laboratory instrument, and should be considered an estimate.
(10) The analyte was "Z"flagged, indicating that it did not meet the variability criteria for the continuous calibration check (CCV) of 20%, and the value should be considered estimated.
(11) The analyte was "D" flagged, indicating that the surrogate concentration was diluted outside the laboratory acceptance criteria.
(12) The analyte was "U " flagged, indicating that the analyte was not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.
(13) The analyte was "c" flagged, indicating that the calibration acceptability criteria were exceeded, and the value should be considered estimated.
(14) NYSDEC mcc for drinking water is 1ppb.
NA -Contaminant was not included for analysis during RFI.
A value identified in red indicates a concentration of the analyte in excess of the 6 NYCRR, Part 703.5 Table 1 standard or NYSDEC TOGS 1.1.1 guidance value.

TABLE 1b - MW-14

GROUNDWATER MONITORING WELL SAMPLE LABORATORY ANALYTICAL DATA SUMMARY - DECTECTED PARAMETERS

	MW-14																				Class GA Groundwater Standard (ppb) [3]
Analyte [1]	**June 2011**	**November 2011**	**July 2012**	**January 2013**	**August 2014 [6]**	**November 2014 [7]**	**February 2015**	**May 2015**	**August 2015**	**November 2015**	**February 2016**	**May 2016**	**August 2016**	**February 2017**	**August 2017**	**April 2020**	**March 2021**	**October 2021**	**September 2022**	**February 2023**	
Quarterly Sampling Parameters																					
Volatiles																					
acetone	19	45	35	11	19[9]	ND	27.3	16.0	12.0	12.0	12.0	8.2 [2]	15 [13]	ND	19.5	9.4	ND	ND	11.9	6.1	50 [4]
chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
chloroethane	ND	ND	ND	ND	1[2]	ND	ND	2.1	8.0	7.3	6.6	ND	8.9	3.1	4.4	ND	ND	ND	ND	1.8	5
chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	3.8	ND	ND	ND	5
1,1-dichloroethane	86	79	67	53	47	1 [2]	43	48	31	22	16	26	12	28.3	5.7	18.7	6.1	15.1	11.8	4.6	5
1,1-dichloroethene	5.2	3.1 [2]	4.6 [2]	2.7 [2]	3 [2]	2 [2]	3.51	3.1	3.6	3.5	1.7	2.3	3.7	2.4	1.8	1.9	1.4	1.9	1.4	1.0	5
cis-1,2 dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,4-dioxane[14]	420	620	490	270	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	108	ND	ND	1[5]
tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,1-trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,2-trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
vinyl chloride	5.2	4.6 [2]	2.3 [2]	2.1 [2]	3 [2]	2[2](10)	2.79	2.8	3.1	2.7	1.6	ND	3.1	2.5	1.5	1.6	1.3	ND	ND	ND	2
2-butanone (MEK)	ND	ND	ND	ND	2 [2]	3[2](10)	ND	2.2 [2]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50[4]
4-methyl-2-pentanone	ND	ND	ND	ND	1 [2]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	[5]
naphthalene	ND	ND	ND	ND	2[2](8)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10[4]
n-propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,3 trichlorobenzene	ND	ND	ND	ND	2[2](8)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
hexachlorobutadiene	ND	ND	ND	ND	4[2](8)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5[4]
1,2,4 trichlorobenzene	ND	ND	ND	ND	1[2](8)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,4 trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,3,5 trimethylbenzene/P ethyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
sec-butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2-dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6
trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
Wet Chemistry and Dissolved Metals																					
sulfate	NA	NA	NA	NA	14,900	25,700	31,200	31,000	<5,000	18,000	13,600	21,800	<5,000	<5,000	<5,000	NA	NA	NA	NA	NA	250,000
total organic carbon (TOC)	NA	NA	NA	NA	4,150	45,900	35,800	39,800	50,300	47,400	40,200	35,400	96	1,500	44,400	NA	NA	NA	NA	NA	NS
dissolved iron	NA	NA	NA	NA	6,130	16,200	8,410	9,130	9,920	19,500	21,900	12,500	35,000	8,800	30,700	NA	NA	NA	NA	NA	as low as possible, NTE 500,000

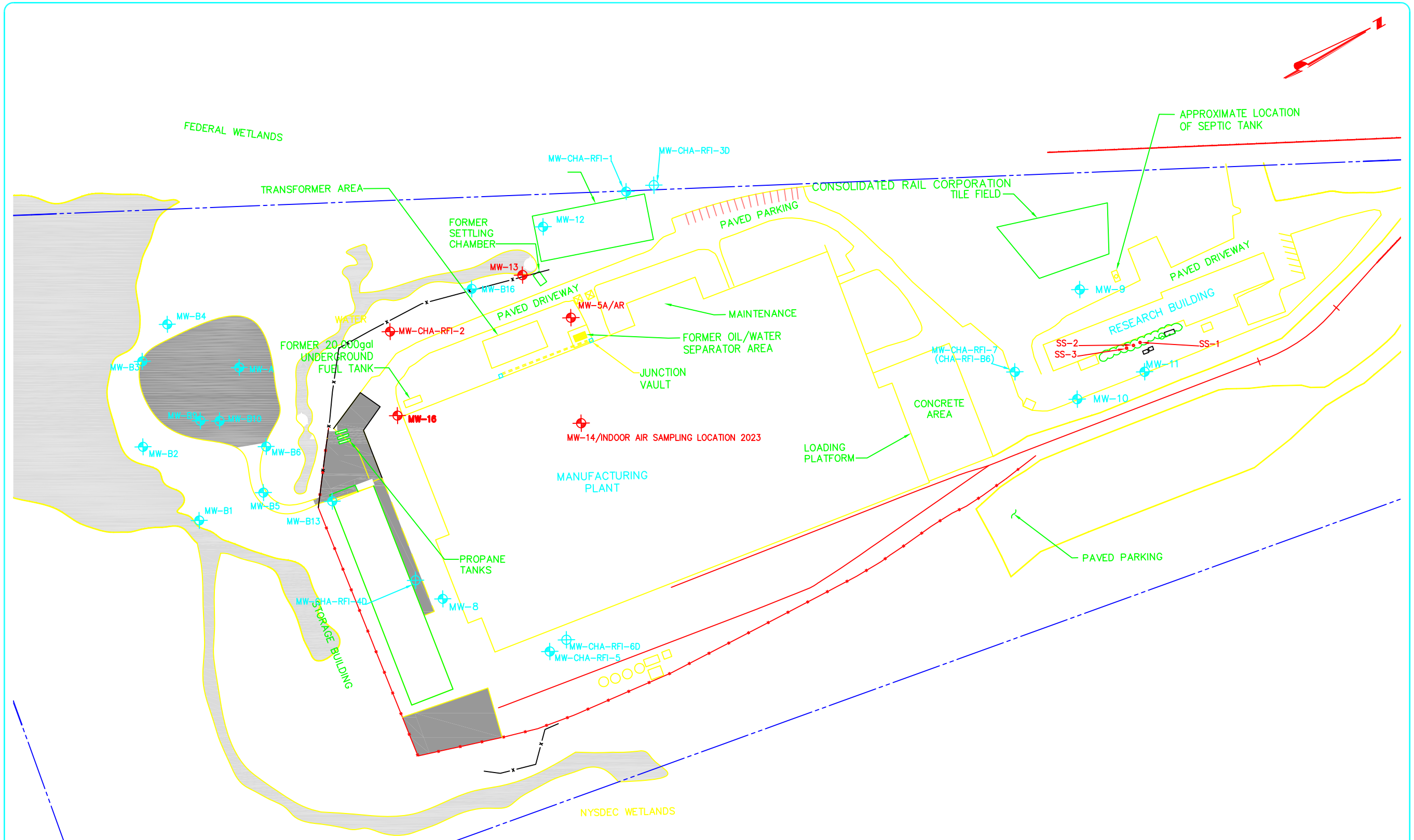
NOTES:
(1) All analyte values expressed as parts per billion ("ppb").
(2) The analyte was "J" flagged, indicating that it was detected below the laboratory quantification limits, and should be considered estimated.
(3) Standard is identified in 6 NYCRR, Part 703.5, Table 1, Water Quality Standards Surface Waters and Groundwater.
(4) Standard is not identified in 6 NYCRR, Part 703.5, Table 1. NYSDEC TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations has been used.
(5) Analyte Standard does not exist in Part 703.5, Table 1. Analyte is identified in TOGS 1.1.1, Table 3 as unregulated.
(6) Sampling date of August 11, 2014, reflects pre-bioremediation injection date of August 13 and 14, 2014.
(7) November 2014 sampling event reflects first post-bioremediation data.
(8) The analyte was "B" flagged, indicating that it was detected in the laboratory method blank, and should be considered estimated.
(9) The analyte was "E"flagged, indicating that the concentration exceeded the calibration range of the laboratory instrument, and should be considered an estimate.
(10) The analyte was "Z"flagged, indicating that it did not meet the variability criteria for the continuous calibration check (CCV) of 20%, and the value should be considered estimated.
(11) The analyte was "D" flagged, indicating that the surrogate concentration was diluted outside the laboratory acceptance criteria.
(12) The analyte was "U " flagged, indicating that the analyte was not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.
(13) the analyte was "c" flagged, indicating that the calibration acceptability ciriteria was exceeded for this analyte. The value is estimated.
(14) NYSDEC mcc for drinking water is 1ppb.
NA -Contaminant was not included for analysis during RFI.
A value identified in red indicates a concentration of the analyte in excess of the 6 NYCRR, Part 703.5 Table 1 standard or NYSDEC TOGS 1.1.1 guidance value.

TABLE 1a - MW-5A/AR

GROUNDWATER MONITORING WELL SAMPLE LABORATORY ANALYTICAL DATA SUMMARY - DECTECTED PARAMETERS

	MW-5A/AR																			Class GA Groundwater Standard (ppb) [3]
Analyte [1]	**June 2011**	**November 2011**	**July 2012**	**January 2013**	**August 2014 [6]**	**November 2014 [7]**	**February 2015**	**May 2015**	**August 2015**	**November 2015**	**February 2016**	**May 2016**	**August 2016**	**February 2017**	**August 2017**	**April 2020**	**March 2021**	**October 2021**	**September 2022**	**February 2023**	
Quarterly Sampling Parameters																					
Volatiles																					
acetone	ND	ND	ND	ND	ND	440[9]	407	77[11]	110	ND	6.1	ND	ND	ND	ND	ND	ND	ND	5.1	ND	50 [4]
chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
chloroethane	280	290	520	150	250[9]	590[9][10]	1010	470[11]	540[11]	290[11]	68	110	320[11]	118	178	72.6	1.2	35	ND	7.1	5
1,1-dichloroethane	650	1000	830	280	660[9]	110	325	41	3.5	ND	ND	8.6	76	14.2	ND	7.4	ND	8.8	ND	ND	5
1,1-dichloroethene	ND	110 [2]	29 [2]	11 [2]	22	ND	8.62	1.9	ND	1.1	ND	ND	2.9	ND	ND	ND	ND	ND	ND	ND	5
cis-1,2 dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,4-dioxane[15]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	75.7	ND	ND	1 [5]
tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
toluene	ND	ND	ND	ND	ND	ND	ND	ND	2.8	2.6	ND	ND	1.4	ND	1.2	ND	ND	1.3	ND	ND	5
1,1,1-trichloroethane	890	3000	440	210	750[9]	33	200	ND	ND	ND	ND	5.2	42	ND	ND	1.1	ND	2.1	ND	ND	5
1,1,2-trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
vinyl chloride	ND	ND	15 [2]	ND	14	6[2][10]	3.59	2.4	ND	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	2
2-butanone (MEK)	ND	ND	ND	ND	ND	190[10]	82.1	4.5 [2]	ND	ND	8.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	50[4]
4-methyl-2-pentanone	ND	ND	ND	ND	ND	3 [2]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	[5]
naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	2.7	2.2	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	10[4]
n-propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	1.5	1.4	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	5
1,2,3 trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5[4]
1,2,4 trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,4 trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	2.1	5.1	5.4	2.5	2.2	5.3	1.7	ND	ND	ND	ND	ND	ND	5
1,3,5 trimethylbenzene/P ethyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	5
1,2,4,5 tetramethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	5[4]
n-butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2 [13]	ND	ND	ND	ND	ND	ND	ND	5
sec-butylbenzene	ND	ND	ND	ND	ND	ND	ND	1.1	1.2	1.3	ND	ND	1.7 [14]	1.2	ND	ND	ND	ND	ND	ND	5
1,4-diethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	[5]
1,2 dichloroethane	ND	ND	ND	ND	1 [2]	2 [2]	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6
trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
Wet Chemistry and Dissolved Metals																					
sulfate	NA	NA	NA	NA	31,500	<5,000	<5,000	700 [2]	<5,000	<5,000	3,240	1,020 [2]	< 5,000	24,800	<5,000	NA	NA	NA	NA	NA	250,000
total organic carbon (TOC)	NA	NA	NA	NA	3,410	288,000	95,400	48,900	30,200	25,600	14,600	6,640	10,200	5,000	8,900	NA	NA	NA	NA	NA	NS
dissolved iron	NA	NA	NA	NA	ND	50,600	42,900	5,780	6,050	30,700	14,400	10,900	13,900	3,120	5,190	NA	NA	NA	NA	NA	as low as possible, NTE 500,000

NOTES:
(1) All analyte values expressed as parts per billion ("ppb").
(2) The analyte was "J" flagged, indicating that it was detected below the laboratory quantification limits, and should be considered estimated.
(3) Standard is identified in 6 NYCRR, Part 703.5, Table 1, Water Quality Standards Surface Waters and Groundwater.
(4) Standard is not identified in 6 NYCRR, Part 703.5, Table 1. NYSDEC TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations has been used.
(5) Analyte Standard does not exist in Part 703.5, Table 1. Analyte is identified in TOGS 1.1.1, Table 3 as unregulated, or is excluded within current regulations
(6) Sampling date of August 11, 2014, reflects pre-bioremediation injection date of August 13 and 14, 2014.
(7) November 2014 sampling event reflects first post-bioremediation data.
(8) The analyte was "B" flagged, indicating that it was detected in the laboratory method blank, and should be considered estimated.
(9) The analyte was "E"flagged, indicating that the concentration exceeded the calibration range of the laboratory instrument, and should be considered an estimate.
(10) The analyte was "Z"flagged, indicating that it did not meet the variability criteria for the continuous calibration check (CCV) of 20%, and the value should be considered estimated.
(11) The analyte was "D" flagged, indicating that the surrogate concentration was diluted outside the laboratory acceptance criteria.
(12) The analyte was "U " flagged, indicating that the analyte was not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.
(13) The analyte was "cS" flagged, indicating that the calibration acceptability criteria was exceeded, and the value is estiimated. The recovery is outside the limits for this analyte.
(14) The recovery is outside the control limits for this analyte.
(15) NYSDEC mcc for drinking water is 1ppb.
NA -Contaminant was not included for analysis during RFI.
A value identified in red indicates a concentration of the analyte in excess of the 6 NYCRR, Part 703.5 Table 1 standard or NYSDEC TOGS 1.1.1 guidance value.



NOTES

1) Base map prepared by CHA
2) Phase II RFI test boring/monitoring well and sampling locations located by Leader based on standard surveying techniques.
3) Drawing considered accurate to the degree implied by the method used.
4) Detected analytes above SCOs shown within tables.

No.	Submittal / Revision	Appvd	By	Date
1	Phase II RFI	KK	HK	10/2011
2	Interim Site Management Plan	KK	HK	1/2017
3	Site Management Plan	KK	HK	9/2018
4	Site Management Plan	KK	HK	9/2022

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Designed By	Date
CHA	01/12/06
Drawn By	Date
CHA	01/11/06
Revised By	Date
	09/20/22

FINAL ENGINEERING REPORT

Remaining Groundwater Exceedances

Issue Date: 9/20/17 | Project No.: 737.006 | Scale: NTS

Figure No.
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