

November 11, 2024

Mr. Christopher Aucoin, PhD
NYSDEC, Division of Environmental Remediation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7015

Via email: Christopher.Aucoin@dec.ny.gov

Re: Progress Report: October 2024
Frost Street Sites: Site ID Nos. 1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Dear Mr. Aucoin,

EnSafe Inc. is pleased to submit this Progress Report for the Frost Street Sites (Site ID Nos. 1-30043 I, L, M) for operation, maintenance, and monitoring (OM&M) activities completed in October 2024 for the onsite air sparge/soil vapor extraction (AS/SVE) and groundwater extraction systems.

Air Sparge/Soil Vapor Extraction System – Operable Unit 1

- AS/SVE system operations continued this month, per the OM&M Manual. During periodic visits, system parameters were logged on dedicated forms (Appendix A). During the month of October, no alarm calls were received.
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on October 11 using Summa canisters. These samples were obtained by EnviroTrac, submitted to Alpha Analytical and analyzed by Method TO-15. Results are included in Appendix B.
 - Photoionization detector (PID) readings and influent concentrations of Frost Street-related contaminants of concern (tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene [22,000 µg/m³]) continue to indicate significant mass extraction.
 - Effluent concentrations are below the carbon exchange indicator concentrations as shown below. PID readings indicate carbon breakthrough has begun; a carbon exchange is scheduled for December 2024.

Frost Street Sites Effluent Compliance			
System Flow Rate =		800 ft ³ /min	
Compound	Annual Mass Emission Limit ¹ (lbs/year)	Carbon Exchange Required Indicator Concentration (µg/m ³) ²	October 2024 Effluent Concentration (µg/m ³)
Trichloroethene	500	19,000	14.3
Tetrachloroethene	1,000	38,000	8.95
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene ³	100	3,800	611

Notes:

ft/min cubic feet per minute

lbs/year pounds per year

µg/m³ micrograms per cubic meter

- 1 Source of Mass Emission Limit: Part 212-2.2 Table 2 — High Toxicity Air Contaminant List
- 2 These limits were calculated based on Frost Street-specific system operations (i.e., flow rate) in order to remain below the annual HTAC emissions listed in Part 212-2.2 Table 2. Remaining below these concentrations ensures that annual emissions will not exceed the limit which demonstrates compliance with Part 212 without having to perform compound-specific analyses.
- 3 Cis-1,2-dichloroethene is not a listed HTAC, so the default is 100 lbs/year.

Groundwater Extraction System – Operable Unit 2

The pumps in EX-1A, EX-1B, EX-1C, and EX-1D operated near design flow rates (30, 30, 48, and 48 gallons per minute, respectively) for all of October. To date, over 478 million gallons of groundwater have been removed by this system. VOC removal will be presented in the December monthly report using analytical data from the quarterly groundwater samples collected at the end of December.

If you have any questions or require additional information, please do not hesitate to contact me at 860-665-1140 or astark@ensafe.com.

Sincerely,

EnSafe, Inc., by



Alexandra Stark, P.E.

Attachments

Copies: A. Tamuno, Esq., NYSDEC
S. Bogardus, NYSDOH
R. Putnam, NCDOH

Via email to amtamuno@gw.dec.state.ny.us
Via email to sara.bogardus@health.ny.gov
Via email to rputnam@nassaucountyny.gov

J. Vazquez, U.S. EPA
T. Pupilla, Sanders Equities
M. Peters, The West Firm
P. Coop, EnSafe
J. Wilkinson, Envirotrac

Via email to vazquez.julio@epa.gov
Via email to tpupilla@sandersequities.com
Via email to mpeters@westfirmllaw.com
Via email to pcoop@ensafe.com
Via email to jamesw@envirotrac.com

Appendix A
AS/SVE System Operation and Maintenance Logs

Operation & Maintenance Data Sheet

Ensafe-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services

5 Old Dock Road, Yaphank, NY 11980
(631)924-3001, Fax (631)924-5001

Date: 11-Oct
Weather / Temp: Clear / 60 DEG
Technician / Operator: JW

Arrival Time: 10:00
Departure Time: 11:00

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		ON		AS Compressor 1 (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		OFF		AS Compressor 2 (ON/OFF)	OFF		OFF	
					Air Cooler (ON/OFF)	ON		ON	
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	3700		726		Blower 1 Total Runtime (hrs)	75,820.7			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	75,417.8			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Blower Inlet Vacuum ("H2O)	47				Blower 2 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	2.5				VGAC-1 Influent PID (ppm)	8			
VGAC-1 Influent Vacuum ("H2O)	34				VGAC-1 Effluent PID (ppm)	2			
VGAC-1 Effluent Vacuum ("H2O)	36				VGAC-2 Influent PID (ppm)	8			
VGAC-2 Influent Vacuum ("H2O)	30				VGAC-2 Effluent PID (ppm)	2			
VGAC-2 Effluent Vacuum ("H2O)	34				VGAC-3 Influent PID (ppm)	2			
VGAC-3 Influent Vacuum ("H2O)	44				VGAC-3 Effluent PID (ppm)	1			
VGAC-3 Effluent Vacuum ("H2O)	46				Blower Effluent PID (ppm)	1			
VGAC-3 Influent Temp (degF)					Transfer Pump Total Runtime (hrs)	25,322.1			
Blower Effluent Pressure ("H2O)	8				Condensate Storage Tank Level (gal)	200			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	38	5500	120	8	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	32	3600	79	0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	38	3000	65	7	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	38	2600	57	2
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	30	4400	96	1	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	36	5200	113	13
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	28	3700	81	2	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	38	2700	59	2
Air Sparge System									
Compressor 1 Pressure (psi)	17				Compressor 2 Pressure (psi)	Off			
Compressor 1 Runtime (hrs)	29,394.1				Compressor 2 Temperature (degF)	Off			
Air Cooler Inlet Temperature (degF)	150				Compressor 2 Regulator Pressure (psi)	Off			
Air Cooler Outlet Temperature (degF)	75				Compressor 2 Runtime (hrs)	40,734			
Air Cooler Inlet Pressure (psi)	18				AS Manifold Temperature (degF)	65			
Air Cooler Outlet Pressure (psi)	18				AS Manifold Pressure	17			
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/(cfm)	18	13	AS-11 (psi)/(cfm)		15		8		
AS-2 (psi)/(cfm)	17	12	AS-12B (psi)/(cfm)		17		8		
AS-3 (psi)/(cfm)	15	10	AS-13B (psi)/(cfm)		16		13		
AS-4 (psi)/(cfm)	16	12	AS-14 (psi)/(cfm)		17		10		
AS-5 (psi)/(cfm)	16	12	AS-15 (psi)/(cfm)		16		12		
AS-6 (psi)/(cfm)	18	12	AS-16B (psi)/(cfm)		16		10		
AS-7 (psi)/(cfm)	16	8	AS-17 (psi)/(cfm)		17		10		
AS-8 (psi)/(cfm)	16	14	AS-18 (psi)/(cfm)		15		10		
AS-9 (psi)/(cfm)	17	12	AS-19 (psi)/(cfm)		19		6		
AS-10B (psi)/(cfm)	15	10							

Notes, Comments & Observations:

Collected monthly air samples.

Inspection, Maintenance, Lubrication Schedule
Ensafe-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services
5 Old Dock Road, Yaphank, NY 11980
(631)924-3001, Fax (631)924-5001

Date: 11-Oct
Weather / Temp: Clear / 60 DEG
Technician / Operator: JW

Arrival Time: 10:00
Departure Time: 11:00

Maintenance Item	Perform	Completed (yes/no)	Comments
SVE Blower B-1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Oil changed on 4/30/24
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	Y	25.9A
-Inspect Belts	Weekly	Y	
SVE Blower B-2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Oil changed on 4/30/24
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	N	
-Inspect Belts	Weekly	Y	
SVE Piping			
-Inspect	Weekly	Y	
-Valves	Weekly	Y	
Phase Separator/Storage Tank			
-Inspect	Weekly	Y	
-Check Level Switches	As Required	Y	
-Inspect water storage tank	Weekly	Y	
-Pump water to sewer drain	As Required	Y	
AS Compressor 1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Oil changed on 7/23/24
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	Y	26A
AS Compressor 2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-Inspect Filters	Weekly	N	
-Amp Draw	Quarterly	N	
Air Cooler			
-Inspect	Weekly	Y	
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	N	
AS Piping			
-Inspect	Weekly	Y	
-Valves	Weekly	Y	
-Drain Filters/Collectors	Weekly	Y	
-Drain Pressure Tank	Weekly	Y	

Operation & Maintenance Data Sheet

Ensaf-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services

5 Old Dock Road, Yaphank, NY 11980
(631)924-3001, Fax (631)924-5001

Date: 28-Oct
Weather / Temp: Clear / 50 DEG
Technician / Operator: JW

Arrival Time: 12:00
Departure Time: 14:00

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		ON		AS Compressor 1 (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		OFF		AS Compressor 2 (ON/OFF)	OFF		OFF	
					Air Cooler (ON/OFF)	ON		ON	
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	3500		687		Blower 1 Total Runtime (hrs)	76,027.9			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	75,621.7			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Blower Inlet Vacuum ("H2O)	40				Blower 2 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3				VGAC-1 Influent PID (ppm)	3			
VGAC-1 Influent Vacuum ("H2O)	34				VGAC-1 Effluent PID (ppm)	2			
VGAC-1 Effluent Vacuum ("H2O)	40				VGAC-2 Influent PID (ppm)	3			
VGAC-2 Influent Vacuum ("H2O)	34				VGAC-2 Effluent PID (ppm)	2			
VGAC-2 Effluent Vacuum ("H2O)	38				VGAC-3 Influent PID (ppm)	2			
VGAC-3 Influent Pressure ("H2O)	4				VGAC-3 Effluent PID (ppm)	0			
VGAC-3 Effluent Pressure ("H2O)	2				Blower Effluent PID (ppm)	2			
VGAC-3 Influent Temp (DegF)	108				Transfer Pump Total Runtime (hrs)	25,322.1			
Blower Effluent Pressure ("H2O)	14				Condensate Storage Tank Level (gal)	200			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	40	6000	131		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	32	3900	85	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	40	3500	76		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	40	2700	59	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	32	4700	103		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	38	5500	120	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	30	3800	83		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	34	2800	61	
Air Sparge System									
Compressor 1 Pressure (psi)	16.5				Compressor 2 Pressure (psi)	Off			
Compressor 1 Runtime (hrs)	29,805.4				Compressor 2 Temperature (degF)	Off			
Air Cooler Inlet Temperature (degF)	97				Compressor 2 Regulator Pressure (psi)	Off			
Air Cooler Outlet Temperature (degF)	75				Compressor 2 Runtime (hrs)	40,734			
Air Cooler Inlet Pressure (psi)	20				AS Manifold Temperature (degF)	74			
Air Cooler Outlet Pressure (psi)	20				AS Manifold Pressure	20			
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/(cfm)	22	5			AS-11 (psi)/(cfm)	17	12		
AS-2 (psi)/(cfm)	20	10			AS-12B (psi)/(cfm)	20	5		
AS-3 (psi)/(cfm)	18	10			AS-13B (psi)/(cfm)	20	8		
AS-4 (psi)/(cfm)	20	10			AS-14 (psi)/(cfm)	20	5		
AS-5 (psi)/(cfm)	20	14			AS-15 (psi)/(cfm)	20	12		
AS-6 (psi)/(cfm)	20	13			AS-16B (psi)/(cfm)	19	8		
AS-7 (psi)/(cfm)	20	8			AS-17 (psi)/(cfm)	20	8		
AS-8 (psi)/(cfm)	20	13			AS-18 (psi)/(cfm)	17	13		
AS-9 (psi)/(cfm)	20	17			AS-19 (psi)/(cfm)	20	12		
AS-10B (psi)/(cfm)	20	10							

Notes, Comments & Observations:

Performed semi-annual blower maintenance.

Switched GAC-3 to pressure side of blower.

Inspection, Maintenance, Lubrication Schedule
Ensafe-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services
5 Old Dock Road, Yaphank, NY 11980
(631)924-3001, Fax (631)924-5001

Date: 28-Oct
Weather / Temp: Clear / 50 DEG
Technician / Operator: JW

Arrival Time: 12:00
Departure Time: 14:00

Maintenance Item	Perform	Completed (yes/no)	Comments
SVE Blower B-1			
-Inspect	Weekly	Y	
-Lubricate	As Required	Y	Oil changed on 10/28/24
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	N	
-Inspect Belts	Weekly	Y	
SVE Blower B-2			
-Inspect	Weekly	Y	
-Lubricate	As Required	Y	Oil changed on 10/28/24
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	N	
-Inspect Belts	Weekly	Y	
SVE Piping			
-Inspect	Weekly	Y	
-Valves	Weekly	Y	
Phase Separator/Storage Tank			
-Inspect	Weekly	Y	
-Check Level Switches	As Required	Y	
-Inspect water storage tank	Weekly	Y	
-Pump water to sewer drain	As Required	Y	
AS Compressor 1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Oil changed on 7/23/24
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	N	
AS Compressor 2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-Inspect Filters	Weekly	N	
-Amp Draw	Quarterly	N	
Air Cooler			
-Inspect	Weekly	Y	
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	N	
AS Piping			
-Inspect	Weekly	Y	
-Valves	Weekly	Y	
-Drain Filters/Collectors	Weekly	Y	
-Drain Pressure Tank	Weekly	Y	

Appendix B
AS/SVE System Influent/Effluent Sampling
Laboratory Analytical Results



www.alphalab.com



Alpha Analytical

Laboratory Code: 11148

SDG Number: L2459547

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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Project Name: FROST ST 001
Project Number: Not Specified

Lab Number: L2459547
Report Date: 10/18/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2459547-01	SVE EFFLUENT	SOIL_VAPOR	WESTBURY, NY	10/11/24 10:45	10/11/24
L2459547-02	SVE INFLUENT	SOIL_VAPOR	WESTBURY, NY	10/11/24 10:50	10/11/24

Project Name: FROST ST 001
Project Number: Not Specified

Lab Number: L2459547
Report Date: 10/18/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: FROST ST 001
Project Number: Not Specified

Lab Number: L2459547
Report Date: 10/18/24

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on October 9, 2024. The canister certification data is provided as an addendum.

L2459547-01D and -02D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

Sample Receipt

L2459547-02: The canister ID number for the sample is listed on the CoC as 0130 but should be 422.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Report Date: 10/18/24

Title: Technical Director/Representative

Project Name: FROST ST 001
Project Number: Not Specified

Lab Number: L2459547
Report Date: 10/18/24

DATA PACKAGE GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: FROST ST 001
Project Number: Not Specified

Lab Number: L2459547
Report Date: 10/18/24

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



Project Name: FROST ST 001
Project Number: Not Specified

Lab Number: L2459547
Report Date: 10/18/24

Data Qualifiers

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- ND or U** - Not detected at the reporting limit (RL) for the sample.



Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: EST Encon (or equivalent)
 Autosampler: EST Centurion (or equivalent)
 Purge time: 11 min

Columns (length x ID x df):
 RTX-VMS 20m x 0.18mm x 1um
 RTX-VMS 30m x 0.25mm x 1.4um
 RTX-502.2 40m x 0.18mm x 1um

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: EST Encon (or equivalent)
 Autosampler: EST Centurion (or equivalent)

Column Type: Restek RTX 502.2
 Column Length: 105 Meters
 df: 3.00 um
 ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: Tekmar Velocity / EST Encon
 Autosampler: Varian Archon / EST Centurion
 Purge time: 11 min

Column Type: DB-VRX
 Column Length: 60 Meters
 df: 1.40 um
 ID: 0.25 mm
 Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD

Column Type: Haysep S Column
 Column Length: 2 Meters packed
 (100/200 mesh)

Autosampler: LEAP Headspace

Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200
 Autosampler: Entech 7016CA or 7016D

Column Type: Restek RTX-1
 Column Length: 60 Meters
 df: 1.00 um
 ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material

Trap 2: Tenax: manufacturer-Entech: 20 cm packing material



Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 μ L; 2 μ L LVI
Column Type: Restek RXI-5SILMS	df: 0.32 μ m
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 μ L; 2 μ L LVI
Column Type: Restek RXI-5SILMS	df: 0.25 μ m
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1 μ L
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLP Pesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1 μ L
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	



Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm



Sample Delivery Group Summary

Alpha Job Number : L2459547

Received : 11-OCT-2024

Reviewer : Christopher J Anderson

Account Name : Envirotrac Ltd.

Project Number :

Project Name : FROST ST 001

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Absent/			

Condition Information

- | | |
|---|-----|
| 1) All samples on COC received? | YES |
| 2) Extra samples received? | NO |
| 3) Are there any sample container discrepancies? | NO |
| 4) Are there any discrepancies between COC & sample labels?
L2459547-02: Can ID #0130 vs. Can ID #4422 | YES |
| 5) Are samples in appropriate containers for requested analysis? | YES |
| 6) Are samples properly preserved for requested analysis? | YES |
| 7) Are samples within holding time for requested analysis? | YES |
| 8) All sampling equipment returned? | YES |

Volatile Organics/VPH

- | | |
|--|----|
| 1) Reagent Water Vials Frozen by Client? | NA |
|--|----|

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 18 2024, 04:58 pm

Login Number: L2459547
Account: ENVTRAC-NY Envirotrac Ltd.
Received: 11OCT24 Due Date: 18OCT24

Sample #	Client ID	Mat PR Collected
L2459547-01 SVE EFFLUENT		11 S0 11OCT24 10:45
ASP-B Package Due Date: 10/18/24		
ASP-B, CAN-RENT, ENVIMPACT-FEE, FLOW-RENT, T015-LL		
L2459547-02 SVE INFLUENT		11 S0 11OCT24 10:50
Package Due Date: 10/18/24		
CAN-RENT, FLOW-RENT, T015-LL		

Supporting Documentation

Project Name: FROST ST 001

Lab Number: L2459547

Project Number:

Report Date: 10/18/24

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2459547-01	SVE EFFLUENT	02338	Flow 1	10/09/24	488412		-	-	-	Pass	144	161	11
L2459547-01	SVE EFFLUENT	452	2.7L Can	10/09/24	488412	L2457138-10	Pass	-29.5	-3.5	-	-	-	-
L2459547-02	SVE INFLUENT	0449	Flow 1	10/09/24	488412		-	-	-	Pass	144	153	6
L2459547-02	SVE INFLUENT	4422	2.7L Can	10/09/24	488412	L2457138-10	Pass	-29.5	-6.1	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2457138
Report Date: 10/18/24

Air Canister Certification Results

Lab ID: L2457138-10
 Client ID: CAN 466 SHELF 16
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 10/04/24 01:02
 Analyst: JFI

Date Collected: 10/03/24 09:00
 Date Received: 10/03/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2457138
Report Date: 10/18/24

Air Canister Certification Results

Lab ID: L2457138-10
Client ID: CAN 466 SHELF 16
Sample Location:

Date Collected: 10/03/24 09:00
Date Received: 10/03/24
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2457138
Report Date: 10/18/24

Air Canister Certification Results

Lab ID: L2457138-10
 Client ID: CAN 466 SHELF 16
 Sample Location:

Date Collected: 10/03/24 09:00
 Date Received: 10/03/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2457138
Report Date: 10/18/24

Air Canister Certification Results

Lab ID: L2457138-10
 Client ID: CAN 466 SHELF 16
 Sample Location:

Date Collected: 10/03/24 09:00
 Date Received: 10/03/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5- Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4- Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4- Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2457138
Report Date: 10/18/24

Air Canister Certification Results

Lab ID: L2457138-10
Client ID: CAN 466 SHELF 16
Sample Location:

Date Collected: 10/03/24 09:00
Date Received: 10/03/24
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	92		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2457138
Report Date: 10/18/24

Air Canister Certification Results

Lab ID: L2457138-10
Client ID: CAN 466 SHELF 16
Sample Location:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 10/04/24 01:02
Analyst: JFI

Date Collected: 10/03/24 09:00
Date Received: 10/03/24
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2457138
Report Date: 10/18/24

Air Canister Certification Results

Lab ID: L2457138-10
Client ID: CAN 466 SHELF 16
Sample Location:

Date Collected: 10/03/24 09:00
Date Received: 10/03/24
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2457138
Report Date: 10/18/24

Air Canister Certification Results

Lab ID: L2457138-10
Client ID: CAN 466 SHELF 16
Sample Location:

Date Collected: 10/03/24 09:00
Date Received: 10/03/24
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	93		60-140



Organics

Volatile Organics in Air TO-15 Low Level

Volatiles QC Summary

Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Envirotrac Ltd. Lab Number : L2459547
 Project Name : FROST ST 001 Project Number :
 Matrix (Level) : AIR (LOW)
 LCS Sample ID : WG1985226-3 Analysis Date : 10/16/24 13:48 File ID : r1550629
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Dichlorodifluoromethane	10	8.30	83				-	70-130	-
Chloromethane	10	9.26	93				-	70-130	-
Freon-114	10	10.3	103				-	70-130	-
Vinyl chloride	10	8.52	85				-	70-130	-
1,3-Butadiene	10	9.25	92				-	70-130	-
Bromomethane	10	9.09	91				-	70-130	-
Chloroethane	10	9.11	91				-	70-130	-
Ethanol	50	52.7	105				-	40-160	-
Vinyl bromide	10	9.53	95				-	70-130	-
Acetone	50	57.5	115				-	40-160	-
Trichlorofluoromethane	10	9.26	93				-	70-130	-
Isopropanol	25	20.8	83				-	40-160	-
1,1-Dichloroethene	10	10.1	101				-	70-130	-
Tertiary butyl Alcohol	10	9.73	97				-	70-130	-
Methylene chloride	10	9.42	94				-	70-130	-
3-Chloropropene	10	11.4	114				-	70-130	-
Carbon disulfide	10	9.35	94				-	70-130	-
Freon-113	10	9.91	99				-	70-130	-
trans-1,2-Dichloroethene	10	9.86	99				-	70-130	-
1,1-Dichloroethane	10	9.90	99				-	70-130	-
Methyl tert butyl ether	10	10.3	103				-	70-130	-
2-Butanone	10	10.9	109				-	70-130	-
cis-1,2-Dichloroethene	10	10.0	100				-	70-130	-
Ethyl Acetate	10	10.5	105				-	70-130	-
Chloroform	10	8.86	89				-	70-130	-
Tetrahydrofuran	10	10.8	108				-	70-130	-



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Envirotrac Ltd. Lab Number : L2459547
 Project Name : FROST ST 001 Project Number :
 Matrix (Level) : AIR (LOW)
 LCS Sample ID : WG1985226-3 Analysis Date : 10/16/24 13:48 File ID : r1550629
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
1,2-Dichloroethane	10	9.48	95				-	70-130	-
n-Hexane	10	9.56	96				-	70-130	-
1,1,1-Trichloroethane	10	8.93	89				-	70-130	-
Benzene	10	8.65	86				-	70-130	-
Carbon tetrachloride	10	9.12	91				-	70-130	-
Cyclohexane	10	9.44	94				-	70-130	-
1,2-Dichloropropane	10	9.50	95				-	70-130	-
Bromodichloromethane	10	9.26	93				-	70-130	-
1,4-Dioxane	10	9.72	97				-	70-130	-
Trichloroethene	10	8.88	89				-	70-130	-
2,2,4-Trimethylpentane	10	9.61	96				-	70-130	-
Heptane	10	10.3	103				-	70-130	-
cis-1,3-Dichloropropene	10	9.79	98				-	70-130	-
4-Methyl-2-pentanone	10	10.7	107				-	70-130	-
trans-1,3-Dichloropropene	10	9.99	100				-	70-130	-
1,1,2-Trichloroethane	10	9.27	93				-	70-130	-
Toluene	10	8.90	89				-	70-130	-
2-Hexanone	10	10.9	109				-	70-130	-
Dibromochloromethane	10	9.75	98				-	70-130	-
1,2-Dibromoethane	10	9.42	94				-	70-130	-
Tetrachloroethene	10	8.67	87				-	70-130	-
Chlorobenzene	10	8.93	89				-	70-130	-
Ethylbenzene	10	9.05	90				-	70-130	-
p/m-Xylene	20	18.5	92				-	70-130	-
Bromoform	10	9.53	95				-	70-130	-
Styrene	10	9.68	97				-	70-130	-

Laboratory Control Sample Summary

Form 3

Air Volatiles

Client	: Envirotrac Ltd.	Lab Number	: L2459547
Project Name	: FROST ST 001	Project Number	:
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG1985226-3	Analysis Date	: 10/16/24 13:48
LCSD Sample ID	:	File ID	: r1550629
		Analysis Date	:
		File ID	:

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
1,1,2,2-Tetrachloroethane	10	8.96	90				-	70-130	-
o-Xylene	10	9.31	93				-	70-130	-
4-Ethyltoluene	10	9.30	93				-	70-130	-
1,3,5-Trimethylbenzene	10	9.12	91				-	70-130	-
1,2,4-Trimethylbenzene	10	9.64	96				-	70-130	-
Benzyl chloride	10	8.40	84				-	70-130	-
1,3-Dichlorobenzene	10	9.30	93				-	70-130	-
1,4-Dichlorobenzene	10	9.11	91				-	70-130	-
1,2-Dichlorobenzene	10	10.5	105				-	70-130	-
1,2,4-Trichlorobenzene	10	9.47	95				-	70-130	-
Naphthalene	10	8.76	88				-	70-130	-
Hexachlorobutadiene	10	9.23	92				-	70-130	-

Method Blank Summary
Form 4
Air Volatiles

Client : Envirotrac Ltd.
Project Name : FROST ST 001
Lab Sample ID : WG1985226-4
Instrument ID : AIRLAB15
Matrix : AIR

Lab Number : L2459547
Project Number :
Lab File ID : r1550630
Analysis Date : 10/16/24 16:16

Client Sample No.	Lab Sample ID	Analysis Date
WG1985226-3LCS	WG1985226-3	10/16/24 13:48
192-SV-1DUP	WG1985226-5D	10/16/24 22:35
SVE EFFLUENT	L2459547-01D	10/17/24 03:56
SVE INFLUENT	L2459547-02D	10/17/24 04:31

Instrument Performance Check (Tune) Summary

Form 5

Air Volatiles

Bromofluorobenzene (BFB)

Client : Envirotrac Ltd.
 Project Name : FROST ST 001
 Instrument ID : AIRLAB15
 Tune Standard : WG1982090-1

Lab Number : L2459547
 Project Number :
 Analysis Date : 10/07/24 12:15
 Tune File ID : r1550422_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	14.1
75	30.0 - 66.0% of mass 95	37.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.4 (.6)1
174	50.0 - 120.0% of mass 95	67.9
175	4.0 - 9.0% of mass 174	4.7 (7)1
176	93.0 - 101% of mass 174	64.6 (95)1
177	5.0 - 9.0% of mass 176	4.2 (6.4)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.2	R1885619-1	R1550426	10/07/24 14:37
STD0.5	R1885619-2	R1550427	10/07/24 15:15
STD1.0	R1885619-4	R1550428	10/07/24 15:55
STD5.0	R1885619-3	R1550429	10/07/24 16:32
STD010	R1885619-5	R1550430	10/07/24 17:12
STD020	R1885619-6	R1550431	10/07/24 17:48
STD050	R1885619-7	R1550432	10/07/24 18:26
STD100	R1885619-8	R1550433	10/07/24 19:05
ICV QUANT	R1885619-9	R1550436	10/08/24 11:58

Instrument Performance Check (Tune) Summary

Form 5

Air Volatiles

Bromofluorobenzene (BFB)

Client : Envirotrac Ltd.
 Project Name : FROST ST 001
 Instrument ID : AIRLAB15
 Tune Standard : WG1985226-1

Lab Number : L2459547
 Project Number :
 Analysis Date : 10/16/24 12:03
 Tune File ID : r1550627_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	13.1
75	30.0 - 66.0% of mass 95	36
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.4 (.6)1
174	50.0 - 120.0% of mass 95	67
175	4.0 - 9.0% of mass 174	4.6 (6.9)1
176	93.0 - 101% of mass 174	63.8 (95.2)1
177	5.0 - 9.0% of mass 176	4.2 (6.6)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1985226-2CCAL	WG1985226-2	R1550628	10/16/24 13:09
WG1985226-3LCS	WG1985226-3	R1550629	10/16/24 13:48
WG1985226-4BLANK	WG1985226-4	R1550630	10/16/24 16:16
WG1985226-5DUP	WG1985226-5D	R1550637	10/16/24 22:35
SVE EFFLUENT	L2459547-01D	R1550646	10/17/24 03:56
SVE INFLUENT	L2459547-02D	R1550647	10/17/24 04:31



Internal Standard Area and RT Summary

Form 8a

Air Volatiles

Client : Envirotrac Ltd.
 Project Name : FROST ST 001
 Instrument ID : AIRLAB15
 Sample No : WG1985226-2

Lab Number : L2459547
 Project Number :
 Analysis Date : 10/16/24 13:09:00
 Lab File ID : R1550628

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1985226-2	416135	9.18	1287285	11.41	193671	16.08
Upper Limit	582589	9.51	1802199	11.74	271139	16.41
Lower Limit	249681	8.85	772371	11.08	116203	15.75
Sample ID						
WG1985226-3 LCS	417148	9.18	1283258	11.41	195329	16.08
WG1985226-4 BLANK	401894	9.18	1226236	11.41	183802	16.07
192-SV-1 DUP	421769	9.15	1271012	11.39	208802	16.07
SVE EFFLUENT	416771	9.15	1252684	11.38	201683	16.07
SVE INFLUENT	426788	9.15	1241738	11.38	209172	16.07

Area Upper Limit = +40% of internal standard area
 Area Lower Limit = - 40% of internal standard area

RT Upper Limit = +0.33 minutes of internal standard RT
 RT Lower Limit = -0.33 minutes of internal standard RT

* Values outside of QC limits





Date Created: 01/09/24
Created By: Jason Hebert
File: PM15856-1
Page: 1

Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,1,1-Trichloroethane	71-55-6	0.2	0.0614	ppbV	70-130			25	25			
1,1,2,2-Tetrachloroethane	79-34-5	0.2	0.052	ppbV	70-130			25	25			
1,1,2-Trichloroethane	79-00-5	0.2	0.0582	ppbV	70-130			25	25			
1,1-Dichloroethane	75-34-3	0.2	0.0568	ppbV	70-130			25	25			
1,1-Dichloroethene	75-35-4	0.2	0.0568	ppbV	70-130			25	25			
1,2,3-Trimethylbenzene	526-73-8	0.2	0.0576	ppbV	70-130			25	25			
1,2,4-Trichlorobenzene	120-82-1	0.2	0.1	ppbV	70-130			25	25			
1,2,4-Trimethylbenzene	95-63-6	0.2	0.0577	ppbV	70-130			25	25			
1,2,4,5-Tetramethylbenzene	95-93-2	0.2	0.135	ppbV	70-130			25	25			
1,2-Dibromoethane	106-93-4	0.2	0.0544	ppbV	70-130			25	25			
1,2-Dichlorobenzene	95-50-1	0.2	0.0619	ppbV	70-130			25	25			
1,2-Dichloroethane	107-06-2	0.2	0.0787	ppbV	70-130			25	25			
1,2-Dichloropropane	78-87-5	0.2	0.0631	ppbV	70-130			25	25			
1,3,5-Trimethylbenzene	108-67-8	0.2	0.06	ppbV	70-130			25	25			
1,3-Butadiene	106-99-0	0.2	0.0619	ppbV	70-130			25	25			
1,3-Dichlorobenzene	541-73-1	0.2	0.0777	ppbV	70-130			25	25			
1,4-Dichlorobenzene	106-46-7	0.2	0.0826	ppbV	70-130			25	25			
1,4-Dioxane	123-91-1	0.2	0.0538	ppbV	70-130			25	25			
2,2,4-Trimethylpentane	540-84-1	0.2	0.0692	ppbV	70-130			25	25			
2-Butanone	78-93-3	0.5	0.099	ppbV	70-130			25	25			
2-Hexanone	591-78-6	0.2	0.0912	ppbV	70-130			25	25			
2-Methylthiophene	554-14-3	0.2	0.0622	ppbV	70-130			25	25			
3-Methylthiophene	616-44-4	0.2	0.0634	ppbV	70-130			25	25			
3-Chloropropene	107-05-1	0.2	0.086	ppbV	70-130			25	25			
2-Ethylthiophene	872-55-9	0.2	0.0612	ppbV	70-130			25	25			
4-Ethyltoluene	622-96-8	0.2	0.0554	ppbV	70-130			25	25			
Acetone	67-64-1	1	0.515	ppbV	40-160			25	25			
Benzene	71-43-2	0.2	0.0643	ppbV	70-130			25	25			
Benzyl chloride	100-44-7	0.2	0.0939	ppbV	70-130			25	25			
Benzothiophene	95-15-8	0.5	0.273	ppbV	70-130			25	25			
Bromodichloromethane	75-27-4	0.2	0.0689	ppbV	70-130			25	25			
Bromoform	75-25-2	0.2	0.0596	ppbV	70-130			25	25			
Bromomethane	74-83-9	0.2	0.0547	ppbV	70-130			25	25			
Carbon disulfide	75-15-0	0.2	0.0465	ppbV	70-130			25	25			
Carbon tetrachloride	56-23-5	0.2	0.0686	ppbV	70-130			25	25			
Chlorobenzene	108-90-7	0.2	0.0516	ppbV	70-130			25	25			
Chloroethane	75-00-3	0.2	0.0649	ppbV	70-130			25	25			
Chloroform	67-66-3	0.2	0.0552	ppbV	70-130			25	25			
Chloromethane	74-87-3	0.2	0.0576	ppbV	70-130			25	25			
cis-1,2-Dichloroethene	156-59-2	0.2	0.0595	ppbV	70-130			25	25			
cis-1,3-Dichloropropene	10061-01-5	0.2	0.0674	ppbV	70-130			25	25			
Cyclohexane	110-82-7	0.2	0.0728	ppbV	70-130			25	25			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibromochloromethane	124-48-1	0.2	0.0566	ppbV	70-130			25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.0757	ppbV	70-130			25	25			
Ethyl Alcohol	GCDAl06	5	1.74	ppbV	40-160			25	25			
Ethyl Acetate	141-78-6	0.5	0.297	ppbV	70-130			25	25			
Ethylbenzene	100-41-4	0.2	0.0575	ppbV	70-130			25	25			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.2	0.0506	ppbV	70-130			25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.2	0.0504	ppbV	70-130			25	25			
Hexachlorobutadiene	87-68-3	0.2	0.0607	ppbV	70-130			25	25			
iso-Propyl Alcohol	67-63-0	0.5	0.272	ppbV	40-160			25	25			
Methylene chloride	75-09-2	0.5	0.125	ppbV	70-130			25	25			
4-Methyl-2-pentanone	108-10-1	0.5	0.19	ppbV	70-130			25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.045	ppbV	70-130			25	25			
Methyl Methacrylate	80-62-6	0.5	0.226	ppbV	40-160			25	25			
p/m-Xylene	179601-23-1	0.4	0.125	ppbV	70-130			25	25			
o-Xylene	95-47-6	0.2	0.0621	ppbV	70-130			25	25			
Xylene (Total)	1330-20-7	0.2	0.0621	ppbV				25	25			
Heptane	142-82-5	0.2	0.0828	ppbV	70-130			25	25			
n-Heptane	142-82-5	0.2	0.0828	ppbV	70-130			25	25			
n-Hexane	110-54-3	0.2	0.0743	ppbV	70-130			25	25			
Propylene	115-07-1	0.5	0.135	ppbV	70-130			25	25			
Styrene	100-42-5	0.2	0.0596	ppbV	70-130			25	25			
Tetrachloroethene	127-18-4	0.2	0.0627	ppbV	70-130			25	25			
Thiophene	110-02-1	0.2	0.052	ppbV	70-130			25	25			
Tetrahydrofuran	109-99-9	0.5	0.117	ppbV	70-130			25	25			
Toluene	108-88-3	0.2	0.0867	ppbV	70-130			25	25			
trans-1,2-Dichloroethene	156-60-5	0.2	0.0755	ppbV	70-130			25	25			
1,2-Dichloroethene (total)	540-59-0	0.2	0.0595	ppbV				25	25			
trans-1,3-Dichloropropene	10061-02-6	0.2	0.0783	ppbV	70-130			25	25			
1,3-Dichloropropene, Total	542-75-6	0.2	0.0674	ppbV				25	25			
Trichloroethene	79-01-6	0.2	0.0548	ppbV	70-130			25	25			
Trichlorofluoromethane	75-69-4	0.2	0.0787	ppbV	70-130			25	25			
Vinyl acetate	108-05-4	1	0.323	ppbV	70-130			25	25			
Vinyl bromide	593-60-2	0.2	0.0722	ppbV	70-130			25	25			
Vinyl chloride	75-01-4	0.2	0.0582	ppbV	70-130			25	25			
Naphthalene	91-20-3	0.2	0.078	ppbV	70-130			25	25			
Total HC As Hexane	NONE	10	0.0743	ppbV	70-130			25	25			
Total VOCs As Toluene	NONE	10	0.0867	ppbV	70-130			25	25			
Propane	74-98-6	0.5	0.152	ppbV	70-130			25	25			
Acrylonitrile	107-13-1	0.5	0.0894	ppbV	70-130			25	25			
Acrolein	107-02-8	0.5	0.149	ppbV	60-113			25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.2	0.0508	ppbV	70-130			25	25			
Isopropylbenzene	98-82-8	0.2	0.0621	ppbV	70-130			25	25			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,2,3-Trichloropropane	96-18-4	0.2	0.0575	ppbV	70-130			25	25			
Acetonitrile	75-05-8	0.2	0.101	ppbV	70-130			25	25			
Bromobenzene	108-86-1	0.2	0.0579	ppbV	70-130			25	25			
Chlorodifluoromethane	75-45-6	0.2	0.0463	ppbV	70-130			25	25			
Dichlorofluoromethane	75-43-4	0.2	0.112	ppbV	70-130			25	25			
Dibromomethane	74-95-3	0.2	0.0598	ppbV	70-130			25	25			
Pentane	109-66-0	0.2	0.113	ppbV	70-130			25	25			
Octane	111-65-9	0.2	0.0676	ppbV	70-130			25	25			
Tertiary-Amyl Methyl Ether	994-05-8	0.2	0.0672	ppbV	70-130			25	25			
o-Chlorotoluene	95-49-8	0.2	0.0761	ppbV	70-130			25	25			
p-Chlorotoluene	106-43-4	0.2	0.0765	ppbV	70-130			25	25			
2,2-Dichloropropane	594-20-7	0.2	0.0429	ppbV	70-130			25	25			
1,1-Dichloropropene	563-58-6	0.2	0.0593	ppbV	70-130			25	25			
Isopropyl Ether	108-20-3	0.2	0.0631	ppbV	70-130			25	25			
Ethyl-Tert-Butyl-Ether	637-92-3	0.2	0.0731	ppbV	70-130			25	25			
1,2,3-Trichlorobenzene	87-61-6	0.2	0.0738	ppbV	70-130			25	25			
Ethyl ether	60-29-7	0.2	0.0853	ppbV	70-130			25	25			
n-Butylbenzene	104-51-8	0.2	0.0536	ppbV	70-130			25	25			
sec-Butylbenzene	135-98-8	0.2	0.0547	ppbV	70-130			25	25			
tert-Butylbenzene	98-06-6	0.2	0.0551	ppbV	70-130			25	25			
1,2-Dibromo-3-chloropropane	96-12-8	0.2	0.0624	ppbV	70-130			25	25			
p-Isopropyltoluene	99-87-6	0.2	0.0567	ppbV	70-130			25	25			
n-Propylbenzene	103-65-1	0.2	0.0633	ppbV	70-130			25	25			
1,3-Dichloropropane	142-28-9	0.2	0.0536	ppbV	70-130			25	25			
Methanol	67-56-1	5	3.029	ppbV	70-130			25	25			
Acetaldehyde	75-07-0	2.5	1.73	ppbV	70-130			25	25			
Butane	106-97-8	0.2	0.08	ppbV	70-130			25	25			
Nonane (C9)	111-84-2	0.2	0.0737	ppbV	70-130			25	25			
Decane (C10)	124-18-5	0.2	0.0697	ppbV	70-130			25	25			
Undecane	1120-21-4	0.2	0.0709	ppbV	70-130			25	25			
Indane	496-11-7	0.2	0.0591	ppbV	70-130			25	25			
Indene	95-13-6	0.2	0.0711	ppbV	70-130			25	25			
1-Methylnaphthalene	90-12-0	1	0.264	ppbV	70-130			25	25			
Dodecane (C12)	112-40-3	0.2	0.0891	ppbV	70-130			25	25			
Butyl Acetate	123-86-4	0.5	0.208	ppbV	70-130			25	25			
tert-Butyl Alcohol	75-65-0	0.5	0.132	ppbV	70-130			25	25			
2-Methylnaphthalene	91-57-6	1	0.259	ppbV	70-130			25	25			
1,2-Dichloroethane-d4	17060-07-0									70-130		
Toluene-d8	2037-26-5									70-130		
Bromofluorobenzene	460-00-4									70-130		

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Volatiles Sample Data

Results Summary

Form 1

Volatile Organics in Air

Client : Envirotrac Ltd.
 Project Name : FROST ST 001
 Lab ID : L2459547-01D
 Client ID : SVE EFFLUENT
 Sample Location : WESTBURY, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1550646
 Sample Amount : 65.0 ml

Lab Number : L2459547
 Project Number :
 Date Collected : 10/11/24 10:45
 Date Received : 10/11/24
 Date Analyzed : 10/17/24 03:56
 Dilution Factor : 3.846
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	ND	0.769	--	ND	3.80	--	U
74-87-3	Chloromethane	ND	0.769	--	ND	1.59	--	U
76-14-2	Freon-114	ND	0.769	--	ND	5.38	--	U
75-01-4	Vinyl chloride	ND	0.769	--	ND	1.97	--	U
106-99-0	1,3-Butadiene	ND	0.769	--	ND	1.70	--	U
74-83-9	Bromomethane	ND	0.769	--	ND	2.99	--	U
75-00-3	Chloroethane	ND	0.769	--	ND	2.03	--	U
64-17-5	Ethanol	ND	19.2	--	ND	36.2	--	U
593-60-2	Vinyl bromide	ND	0.769	--	ND	3.36	--	U
67-64-1	Acetone	ND	3.85	--	ND	9.15	--	U
75-69-4	Trichlorofluoromethane	1.15	0.769	--	6.46	4.32	--	
67-63-0	Isopropanol	3.42	1.92	--	8.41	4.72	--	
75-35-4	1,1-Dichloroethene	ND	0.769	--	ND	3.05	--	U
75-65-0	Tertiary butyl Alcohol	1.94	1.92	--	5.88	5.82	--	
75-09-2	Methylene chloride	ND	1.92	--	ND	6.67	--	U
107-05-1	3-Chloropropene	ND	0.769	--	ND	2.41	--	U
75-15-0	Carbon disulfide	ND	0.769	--	ND	2.39	--	U
76-13-1	Freon-113	ND	0.769	--	ND	5.89	--	U
156-60-5	trans-1,2-Dichloroethene	1.38	0.769	--	5.47	3.05	--	
75-34-3	1,1-Dichloroethane	ND	0.769	--	ND	3.11	--	U
1634-04-4	Methyl tert butyl ether	ND	0.769	--	ND	2.77	--	U
78-93-3	2-Butanone	ND	1.92	--	ND	5.66	--	U
156-59-2	cis-1,2-Dichloroethene	154	0.769	--	611	3.05	--	
141-78-6	Ethyl Acetate	ND	1.92	--	ND	6.92	--	U
67-66-3	Chloroform	ND	0.769	--	ND	3.76	--	U
109-99-9	Tetrahydrofuran	ND	1.92	--	ND	5.66	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Envirotrac Ltd.
 Project Name : FROST ST 001
 Lab ID : L2459547-01D
 Client ID : SVE EFFLUENT
 Sample Location : WESTBURY, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1550646
 Sample Amount : 65.0 ml

Lab Number : L2459547
 Project Number :
 Date Collected : 10/11/24 10:45
 Date Received : 10/11/24
 Date Analyzed : 10/17/24 03:56
 Dilution Factor : 3.846
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.769	--	ND	3.11	--	U
110-54-3	n-Hexane	ND	0.769	--	ND	2.71	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.769	--	ND	4.20	--	U
71-43-2	Benzene	ND	0.769	--	ND	2.46	--	U
56-23-5	Carbon tetrachloride	ND	0.769	--	ND	4.84	--	U
110-82-7	Cyclohexane	ND	0.769	--	ND	2.65	--	U
78-87-5	1,2-Dichloropropane	ND	0.769	--	ND	3.55	--	U
75-27-4	Bromodichloromethane	ND	0.769	--	ND	5.15	--	U
123-91-1	1,4-Dioxane	ND	0.769	--	ND	2.77	--	U
79-01-6	Trichloroethene	2.67	0.769	--	14.3	4.13	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.769	--	ND	3.59	--	U
142-82-5	Heptane	ND	0.769	--	ND	3.15	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.769	--	ND	3.49	--	U
108-10-1	4-Methyl-2-pentanone	ND	1.92	--	ND	7.87	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.769	--	ND	3.49	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.769	--	ND	4.20	--	U
108-88-3	Toluene	ND	0.769	--	ND	2.90	--	U
591-78-6	2-Hexanone	ND	0.769	--	ND	3.15	--	U
124-48-1	Dibromochloromethane	ND	0.769	--	ND	6.55	--	U
106-93-4	1,2-Dibromoethane	ND	0.769	--	ND	5.91	--	U
127-18-4	Tetrachloroethene	1.32	0.769	--	8.95	5.21	--	
108-90-7	Chlorobenzene	ND	0.769	--	ND	3.54	--	U
100-41-4	Ethylbenzene	ND	0.769	--	ND	3.34	--	U
179601-23-1	p/m-Xylene	ND	1.54	--	ND	6.69	--	U
75-25-2	Bromoform	ND	0.769	--	ND	7.95	--	U
100-42-5	Styrene	ND	0.769	--	ND	3.27	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Envirotrac Ltd.
 Project Name : FROST ST 001
 Lab ID : L2459547-01D
 Client ID : SVE EFFLUENT
 Sample Location : WESTBURY, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1550646
 Sample Amount : 65.0 ml

Lab Number : L2459547
 Project Number :
 Date Collected : 10/11/24 10:45
 Date Received : 10/11/24
 Date Analyzed : 10/17/24 03:56
 Dilution Factor : 3.846
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.769	--	ND	5.28	--	U
95-47-6	o-Xylene	ND	0.769	--	ND	3.34	--	U
622-96-8	4-Ethyltoluene	ND	0.769	--	ND	3.78	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.769	--	ND	3.78	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.769	--	ND	3.78	--	U
100-44-7	Benzyl chloride	ND	0.769	--	ND	3.98	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.769	--	ND	4.62	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.769	--	ND	4.62	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.769	--	ND	4.62	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.769	--	ND	5.71	--	U
91-20-3	Naphthalene	ND	0.769	--	ND	4.03	--	U
87-68-3	Hexachlorobutadiene	ND	0.769	--	ND	8.20	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Envirotrac Ltd.
 Project Name : FROST ST 001
 Lab ID : L2459547-02D
 Client ID : SVE INFLUENT
 Sample Location : WESTBURY, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1550647
 Sample Amount : 3.27 ml

Lab Number : L2459547
 Project Number :
 Date Collected : 10/11/24 10:50
 Date Received : 10/11/24
 Date Analyzed : 10/17/24 04:31
 Dilution Factor : 76.45
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	ND	15.3	--	ND	75.7	--	U
74-87-3	Chloromethane	ND	15.3	--	ND	31.6	--	U
76-14-2	Freon-114	ND	15.3	--	ND	107.	--	U
75-01-4	Vinyl chloride	ND	15.3	--	ND	39.1	--	U
106-99-0	1,3-Butadiene	ND	15.3	--	ND	33.8	--	U
74-83-9	Bromomethane	ND	15.3	--	ND	59.4	--	U
75-00-3	Chloroethane	ND	15.3	--	ND	40.4	--	U
64-17-5	Ethanol	ND	382	--	ND	720	--	U
593-60-2	Vinyl bromide	ND	15.3	--	ND	66.9	--	U
67-64-1	Acetone	ND	76.4	--	ND	181	--	U
75-69-4	Trichlorofluoromethane	ND	15.3	--	ND	86.0	--	U
67-63-0	Isopropanol	ND	38.2	--	ND	93.9	--	U
75-35-4	1,1-Dichloroethene	ND	15.3	--	ND	60.7	--	U
75-65-0	Tertiary butyl Alcohol	ND	38.2	--	ND	116.	--	U
75-09-2	Methylene chloride	ND	38.2	--	ND	133.	--	U
107-05-1	3-Chloropropene	ND	15.3	--	ND	47.9	--	U
75-15-0	Carbon disulfide	ND	15.3	--	ND	47.6	--	U
76-13-1	Freon-113	ND	15.3	--	ND	117.	--	U
156-60-5	trans-1,2-Dichloroethene	ND	15.3	--	ND	60.7	--	U
75-34-3	1,1-Dichloroethane	ND	15.3	--	ND	61.9	--	U
1634-04-4	Methyl tert butyl ether	ND	15.3	--	ND	55.2	--	U
78-93-3	2-Butanone	ND	38.2	--	ND	113	--	U
156-59-2	cis-1,2-Dichloroethene	95.9	15.3	--	380	60.7	--	
141-78-6	Ethyl Acetate	ND	38.2	--	ND	138.	--	U
67-66-3	Chloroform	ND	15.3	--	ND	74.7	--	U
109-99-9	Tetrahydrofuran	ND	38.2	--	ND	113.	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Envirotrac Ltd.
 Project Name : FROST ST 001
 Lab ID : L2459547-02D
 Client ID : SVE INFLUENT
 Sample Location : WESTBURY, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1550647
 Sample Amount : 3.27 ml

Lab Number : L2459547
 Project Number :
 Date Collected : 10/11/24 10:50
 Date Received : 10/11/24
 Date Analyzed : 10/17/24 04:31
 Dilution Factor : 76.45
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	15.3	--	ND	61.9	--	U
110-54-3	n-Hexane	ND	15.3	--	ND	53.9	--	U
71-55-6	1,1,1-Trichloroethane	ND	15.3	--	ND	83.5	--	U
71-43-2	Benzene	ND	15.3	--	ND	48.9	--	U
56-23-5	Carbon tetrachloride	ND	15.3	--	ND	96.2	--	U
110-82-7	Cyclohexane	ND	15.3	--	ND	52.7	--	U
78-87-5	1,2-Dichloropropane	ND	15.3	--	ND	70.7	--	U
75-27-4	Bromodichloromethane	ND	15.3	--	ND	103.	--	U
123-91-1	1,4-Dioxane	ND	15.3	--	ND	55.1	--	U
79-01-6	Trichloroethene	189	15.3	--	1020	82.2	--	
540-84-1	2,2,4-Trimethylpentane	ND	15.3	--	ND	71.5	--	U
142-82-5	Heptane	ND	15.3	--	ND	62.7	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	15.3	--	ND	69.5	--	U
108-10-1	4-Methyl-2-pentanone	ND	38.2	--	ND	157.	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	15.3	--	ND	69.5	--	U
79-00-5	1,1,2-Trichloroethane	ND	15.3	--	ND	83.5	--	U
108-88-3	Toluene	ND	15.3	--	ND	57.7	--	U
591-78-6	2-Hexanone	ND	15.3	--	ND	62.7	--	U
124-48-1	Dibromochloromethane	ND	15.3	--	ND	130.	--	U
106-93-4	1,2-Dibromoethane	ND	15.3	--	ND	118.	--	U
127-18-4	Tetrachloroethene	3040	15.3	--	20600	104	--	
108-90-7	Chlorobenzene	ND	15.3	--	ND	70.5	--	U
100-41-4	Ethylbenzene	ND	15.3	--	ND	66.5	--	U
179601-23-1	p/m-Xylene	ND	30.6	--	ND	133.	--	U
75-25-2	Bromoform	ND	15.3	--	ND	158.	--	U
100-42-5	Styrene	ND	15.3	--	ND	65.1	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Envirotrac Ltd.
 Project Name : FROST ST 001
 Lab ID : L2459547-02D
 Client ID : SVE INFLUENT
 Sample Location : WESTBURY, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1550647
 Sample Amount : 3.27 ml

Lab Number : L2459547
 Project Number :
 Date Collected : 10/11/24 10:50
 Date Received : 10/11/24
 Date Analyzed : 10/17/24 04:31
 Dilution Factor : 76.45
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	15.3	--	ND	105.	--	U
95-47-6	o-Xylene	ND	15.3	--	ND	66.5	--	U
622-96-8	4-Ethyltoluene	ND	15.3	--	ND	75.2	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	15.3	--	ND	75.2	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	15.3	--	ND	75.2	--	U
100-44-7	Benzyl chloride	ND	15.3	--	ND	79.2	--	U
541-73-1	1,3-Dichlorobenzene	ND	15.3	--	ND	92.0	--	U
106-46-7	1,4-Dichlorobenzene	ND	15.3	--	ND	92.0	--	U
95-50-1	1,2-Dichlorobenzene	ND	15.3	--	ND	92.0	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	15.3	--	ND	114.	--	U
91-20-3	Naphthalene	ND	15.3	--	ND	80.2	--	U
87-68-3	Hexachlorobutadiene	ND	15.3	--	ND	163.	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Envirotrac Ltd.
 Project Name : FROST ST 001
 Lab ID : WG1985226-4
 Client ID : WG1985226-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1550630
 Sample Amount : 250 ml

Lab Number : L2459547
 Project Number :
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 10/16/24 16:16
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Envirotrac Ltd.
 Project Name : FROST ST 001
 Lab ID : WG1985226-4
 Client ID : WG1985226-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1550630
 Sample Amount : 250 ml

Lab Number : L2459547
 Project Number :
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 10/16/24 16:16
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Envirotrac Ltd.
 Project Name : FROST ST 001
 Lab ID : WG1985226-4
 Client ID : WG1985226-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1550630
 Sample Amount : 250 ml

Lab Number : L2459547
 Project Number :
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 10/16/24 16:16
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550646.D
 Acq On : 17 Oct 2024 3:56 AM
 Operator : AIRLAB15:JMB
 Sample : L2459547-01D,3,65,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 17 05:07:50 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1016T\r1550628.D
 Sub List : T015-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.150	49	416771	10.000	ppbV	-0.04
Standard Area = 416135			Recovery =	100.15%		
43) 1,4-difluorobenzene	11.380	114	1252684	10.000	ppbV	-0.05
Standard Area = 1287285			Recovery =	97.31%		
67) chlorobenzene-D5	16.067	54	201683	10.000	ppbV	-0.03
Standard Area = 193671			Recovery =	104.14%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.018	85	5392	0.109	ppbV	100
6) chloromethane	4.198		0	N.D.		
7) Freon-114	4.288		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.522		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.194	31	9124	0.789	ppbV	94
17) vinyl bromide	5.363		0	N.D.		
19) acetone	5.717	43	15544	0.578	ppbV #	84
21) trichlorofluoromethane	5.880	101	11967	0.299	ppbV	98
22) isopropyl alcohol	6.003	45	36135	0.889	ppbV #	97
26) 1,1-dichloroethene	6.582	61	2807	0.061	ppbV	95
27) tertiary butyl alcohol	6.684	59	26694	0.504	ppbV #	94
28) methylene chloride	6.732	49	2569	0.078	ppbV	91
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.044		0	N.D.		
31) Freon 113	7.032	101	5814	0.104	ppbV #	91
32) trans-1,2-dichloroethene	7.783	61	16111	0.359	ppbV	95
33) 1,1-dichloroethane	8.000		0	N.D.		
34) MTBE	8.067		0	N.D.		
36) 2-butanone	8.492	43	18217	0.312	ppbV	98
37) cis-1,2-dichloroethene	8.958	61	1776136	40.132	ppbV	98
38) Ethyl Acetate	9.367		0	N.D.		
39) chloroform	9.300	83	4247	0.076	ppbV	91
40) Tetrahydrofuran	9.792		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.217		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550646.D
 Acq On : 17 Oct 2024 3:56 AM
 Operator : AIRLAB15:JMB
 Sample : L2459547-01D, 3, 65, 250
 Misc : WG1985226, ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 17 05:07:50 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1016T\r1550628.D
 Sub List : T015-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	10.953		0	N.D.		
52) carbon tetrachloride	0.000		0	N.D.		
53) cyclohexane	0.000		0	N.D.	d	
56) 1,2-dichloropropane	11.793		0	N.D.		
57) bromodichloromethane	12.173		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
59) trichloroethene	12.180	130	31622	0.694	ppbV	99
60) 2,2,4-trimethylpentane	12.233		0	N.D.		
62) heptane	12.547		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.292		0	N.D.		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.333		0	N.D.		
72) 2-hexanone	14.667		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
78) tetrachloroethene	15.467	166	19532	0.343	ppbV	97
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.458		0	N.D.		
83) m+p-xylene	16.617	91	10204	0.072	ppbV	98
84) bromoform	0.000		0	N.D.		
85) styrene	0.000		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	17.042	91	4287	0.031	ppbV	99
96) 4-ethyl toluene	18.108		0	N.D.		
97) 1,3,5-trimethylbenzene	18.158		0	N.D.		
99) 1,2,4-trimethylbenzene	18.508		0	N.D.		
101) Benzyl Chloride	18.508		0	N.D.		
102) 1,3-dichlorobenzene	0.000		0	N.D.		
103) 1,4-dichlorobenzene	0.000		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
116) naphthalene	20.608		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550646.D
 Acq On : 17 Oct 2024 3:56 AM
 Operator : AIRLAB15:JMB
 Sample : L2459547-01D, 3, 65, 250
 Misc : WG1985226, ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 17 05:07:50 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1016T\r1550628.D
 Sub List : T015-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

Sub List : T015-NY+Naphthalene - .b15\2024\10\1016T\r1550628.D

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\

Data File : r1550646.D

Acq On : 17 Oct 2024 3:56 AM

Operator : AIRLAB15:JMB

Sample : L2459547-01D, 3, 65, 250

Misc : WG1985226, ICAL21580

ALS Vial : 0 Sample Multiplier: 1

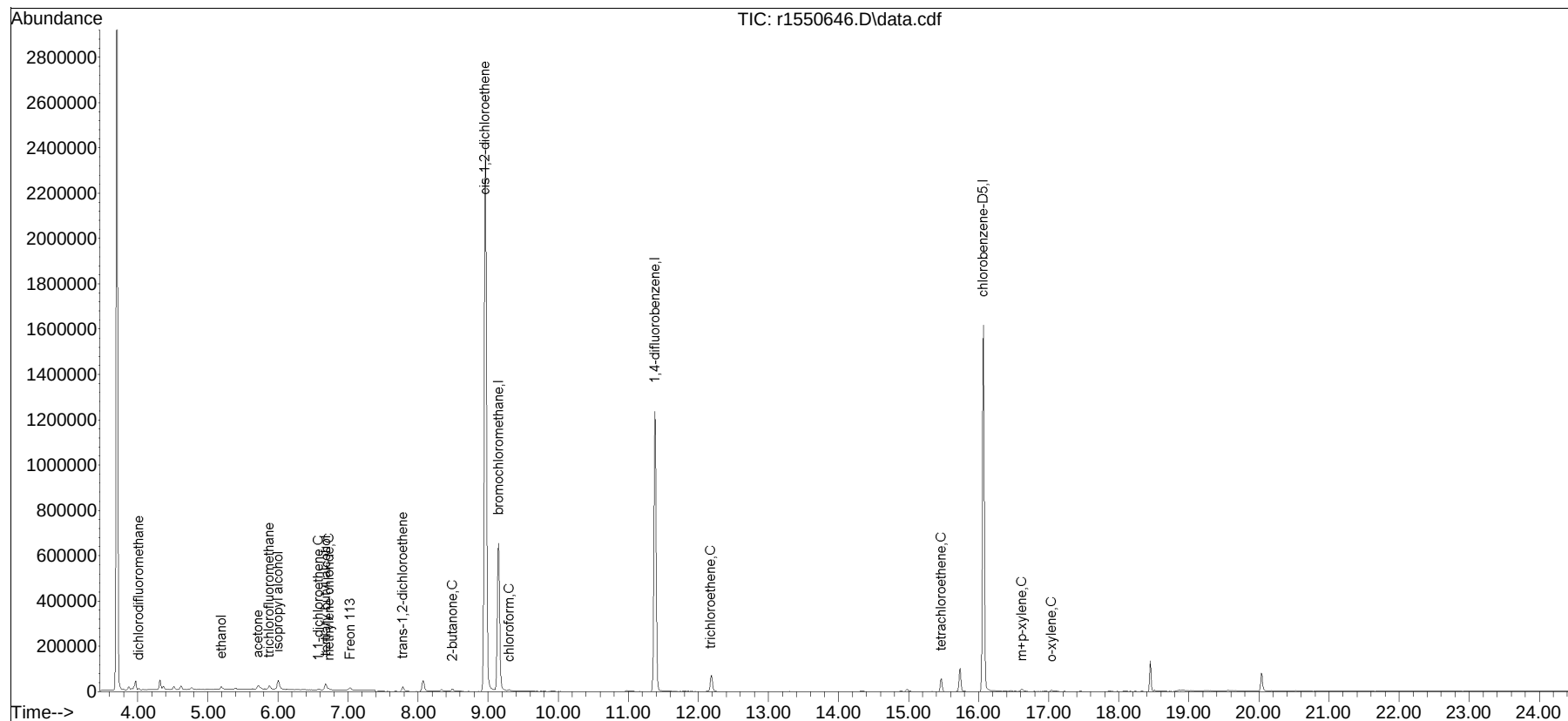
Quant Time: Oct 17 05:07:50 2024

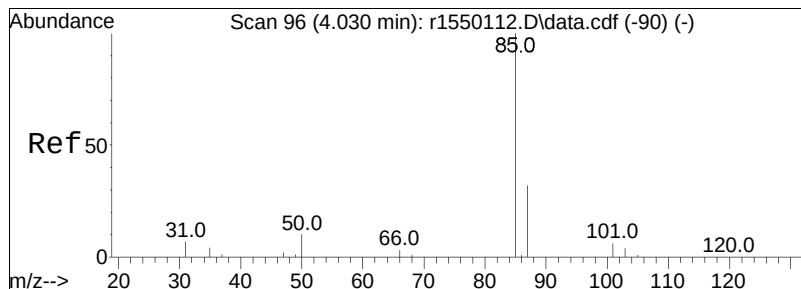
Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Oct 08 13:55:51 2024

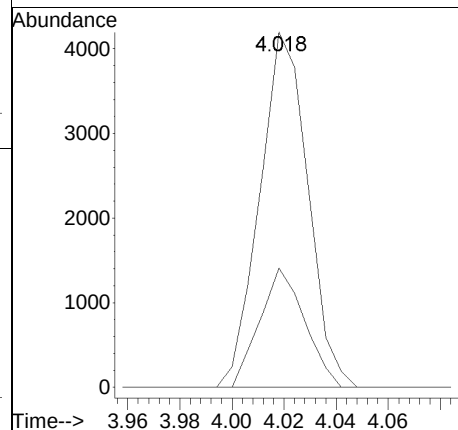
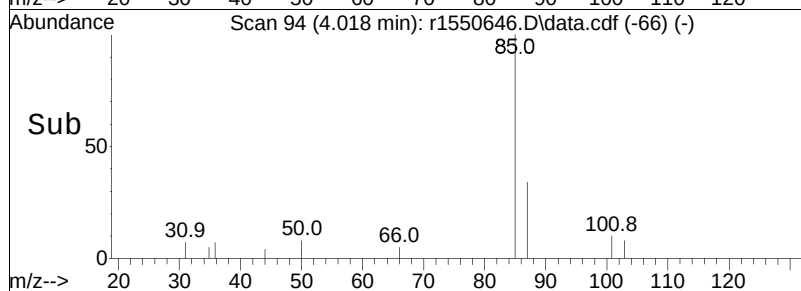
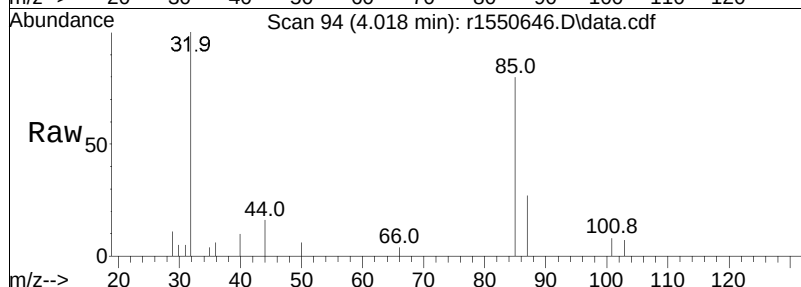
Response via : Initial Calibration

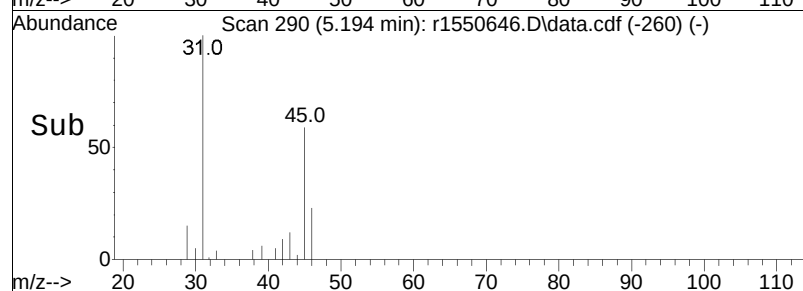
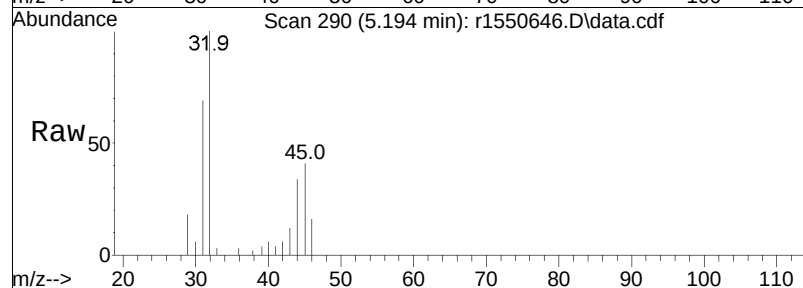
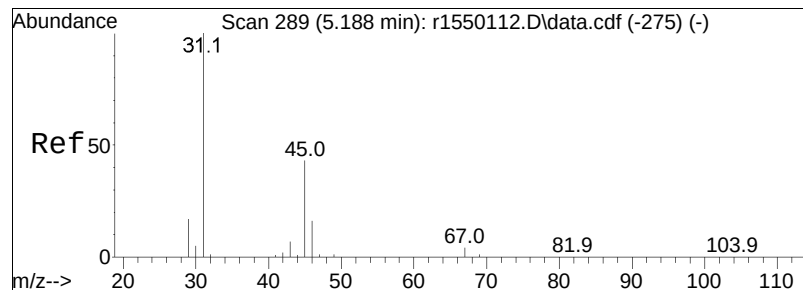




#5
dichlorodifluoromethane
Concen: 0.11 ppbV
RT: 4.018 min Scan# 94
Delta R.T. -0.030 min
Lab File: r1550646.D
Acq: 17 Oct 2024 3:56 AM

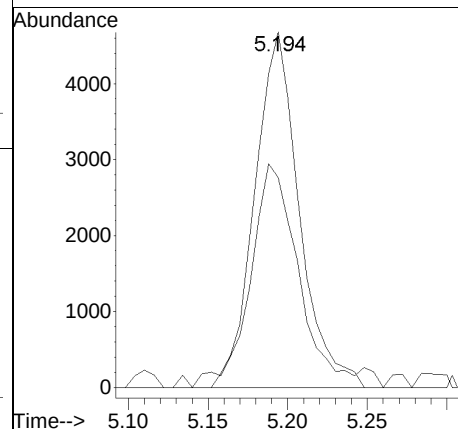
Tgt Ion: 85 Resp: 5392
Ion Ratio Lower Upper
85 100
87 33.6 26.8 40.2

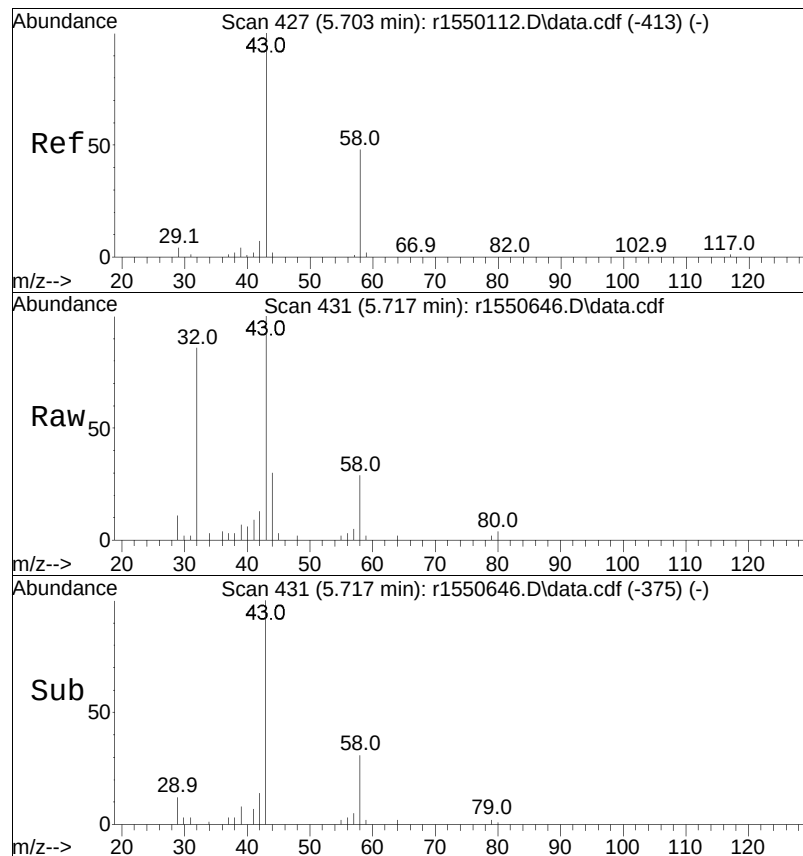




#15
ethanol
Concen: 0.79 ppbV
RT: 5.194 min Scan# 290
Delta R.T. -0.018 min
Lab File: r1550646.D
Acq: 17 Oct 2024 3:56 AM

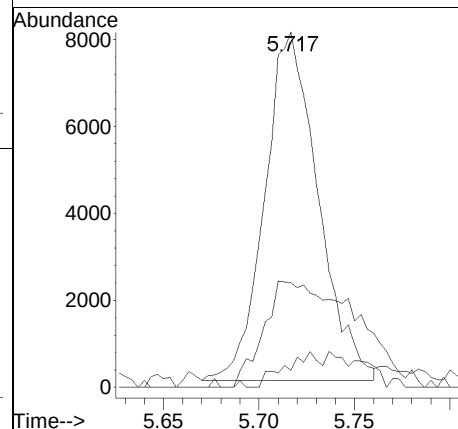
Tgt	Ion	Ratio	Lower	Upper
31	100			
45	59.1	44.0	66.0	

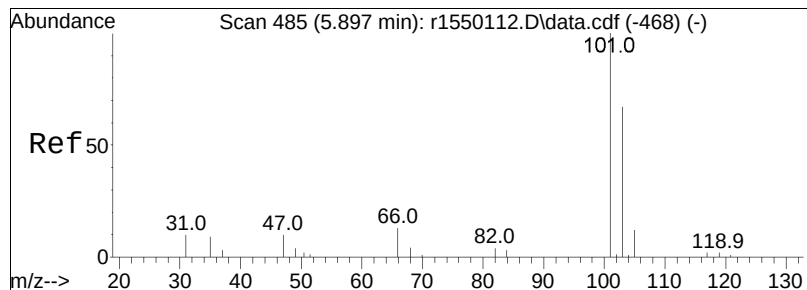




#19
acetone
Concen: 0.58 ppbV
RT: 5.717 min Scan# 431
Delta R.T. -0.013 min
Lab File: r1550646.D
Acq: 17 Oct 2024 3:56 AM

Tgt	Ion: 43	Resp:	15544
Ion	Ratio	Lower	Upper
43	100		
58	29.4	31.6	47.4#
57	4.9	0.8	1.2#





#21

trichlorofluoromethane

Concen: 0.30 ppbV

RT: 5.880 min Scan# 480

Delta R.T. -0.040 min

Lab File: r1550646.D

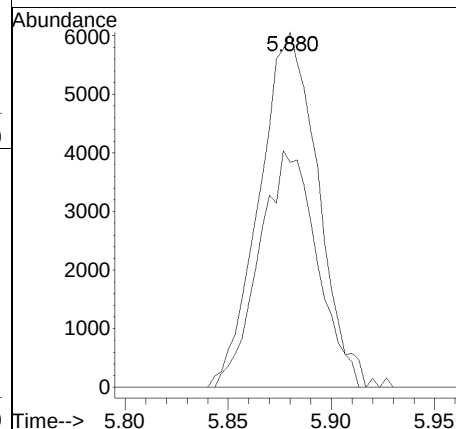
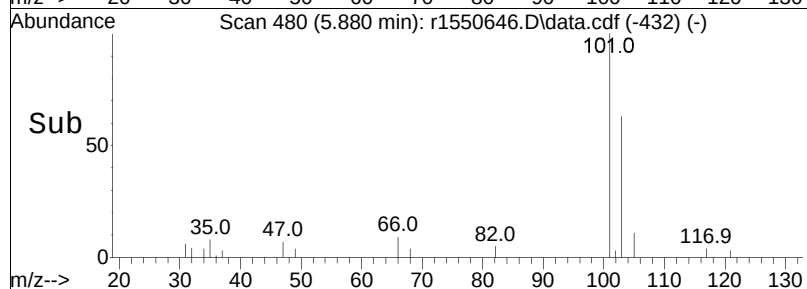
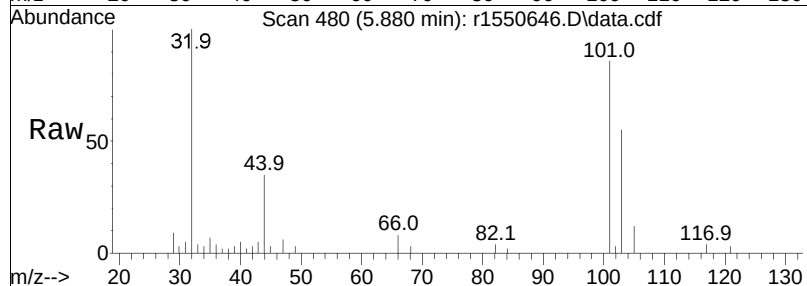
Acq: 17 Oct 2024 3:56 AM

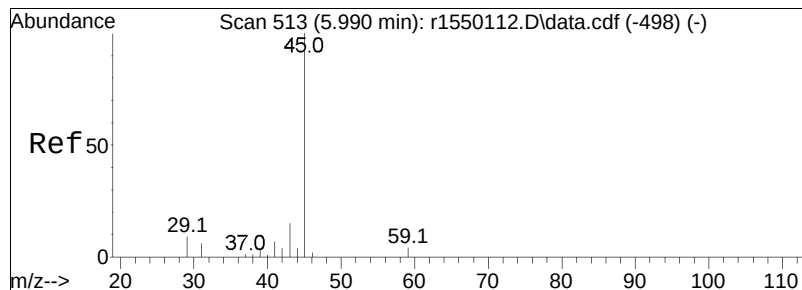
Tgt Ion:101 Resp: 11967

Ion Ratio Lower Upper

101 100

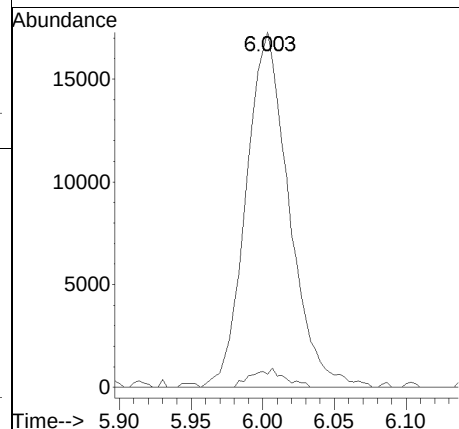
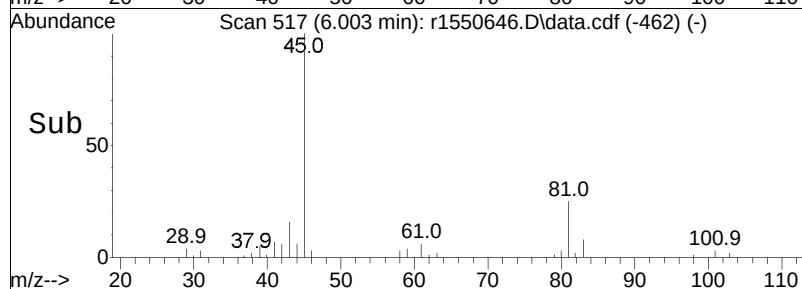
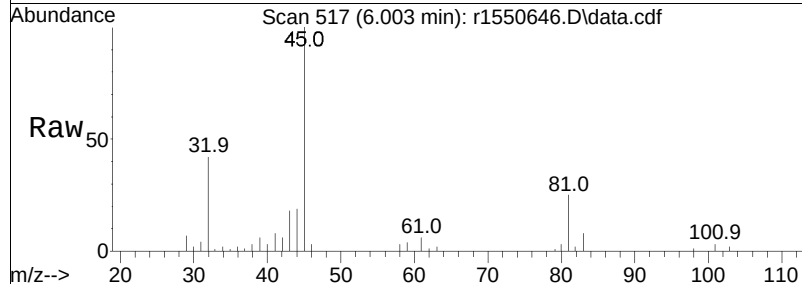
103 63.3 52.2 78.4

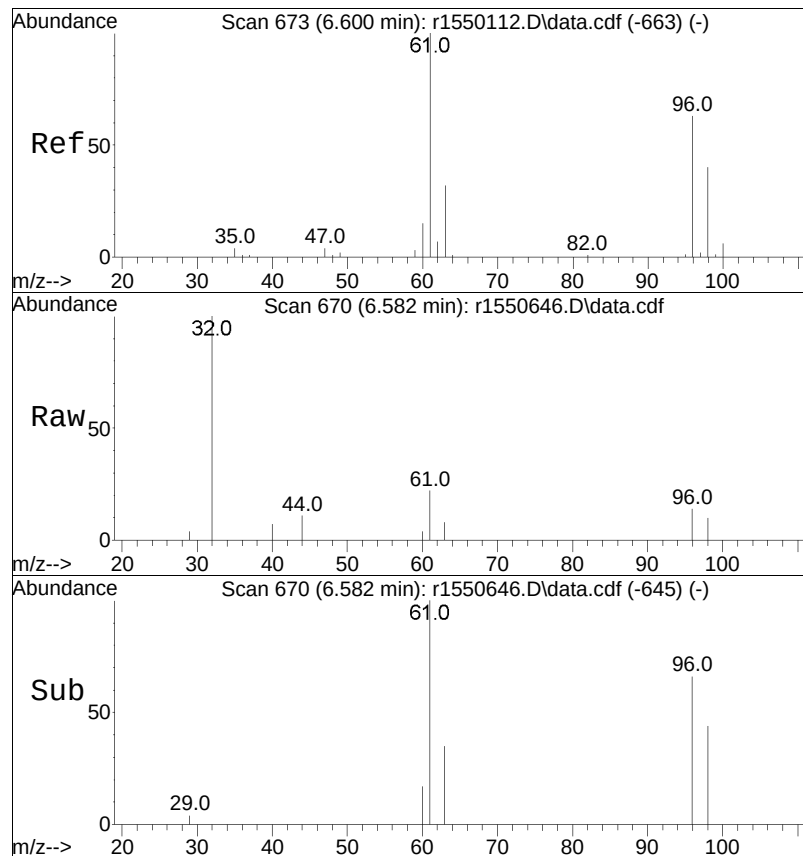




#22
isopropyl alcohol
Concen: 0.89 ppbV
RT: 6.003 min Scan# 517
Delta R.T. -0.017 min
Lab File: r1550646.D
Acq: 17 Oct 2024 3:56 AM

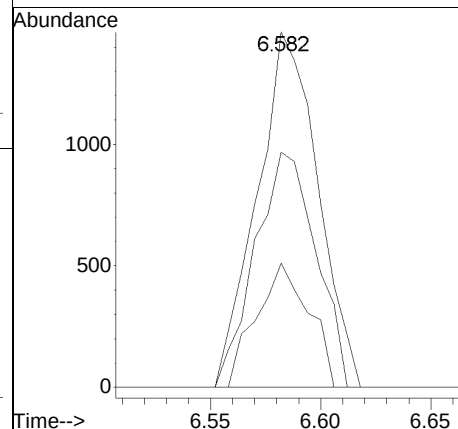
Tgt	Ion	Ratio	Lower	Upper
45	100			
59	3.7		3.8	5.8#

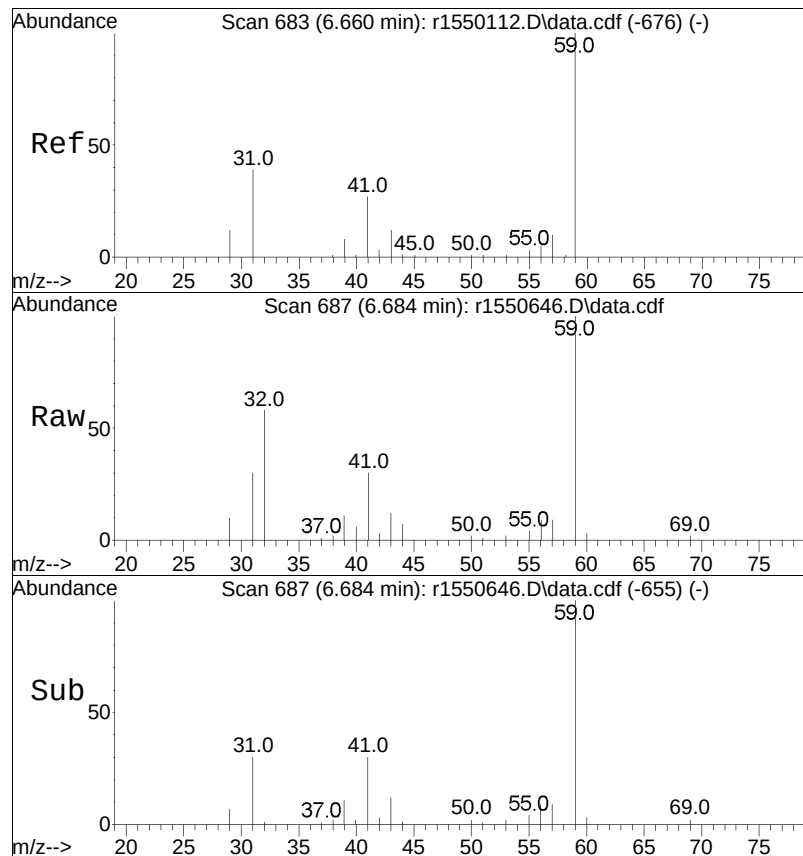




#26
 1,1-dichloroethene
 Concen: 0.06 ppbV
 RT: 6.582 min Scan# 670
 Delta R.T. -0.048 min
 Lab File: r1550646.D
 Acq: 17 Oct 2024 3:56 AM

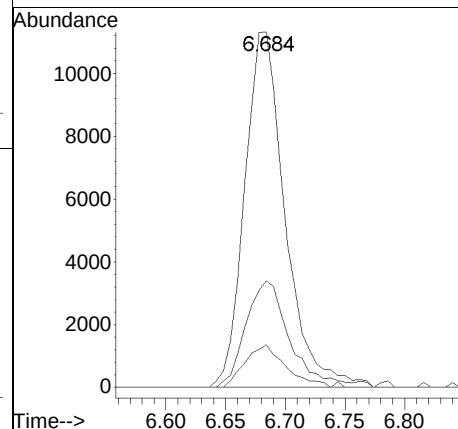
Tgt Ion:	61	Resp:	2807
Ion Ratio	Lower	Upper	
61	100		
96	66.2	51.0	76.6
63	35.0	24.6	37.0

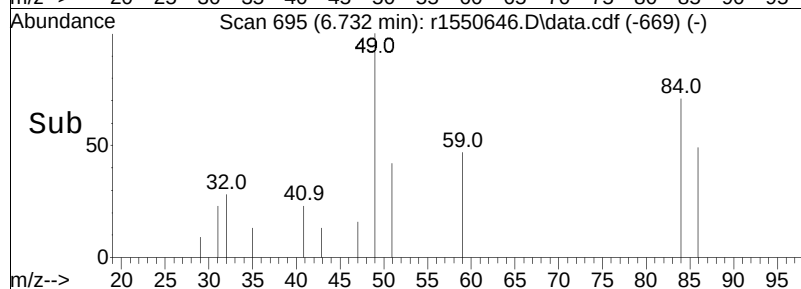
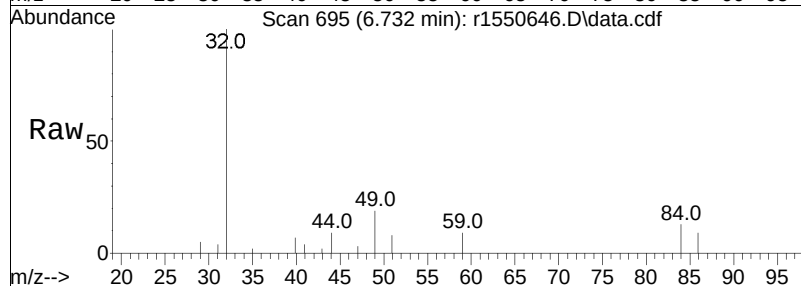
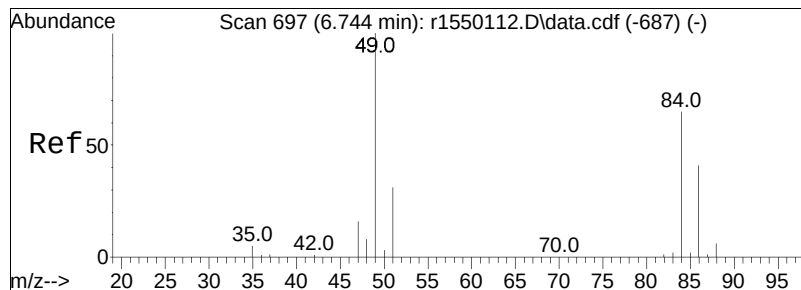




#27
 tertiary butyl alcohol
 Concen: 0.50 ppbV
 RT: 6.684 min Scan# 687
 Delta R.T. -0.006 min
 Lab File: r1550646.D
 Acq: 17 Oct 2024 3:56 AM

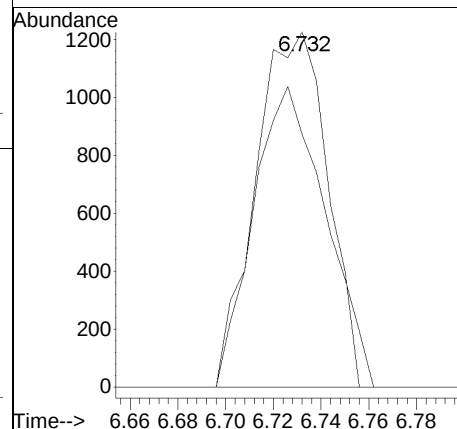
Tgt Ion:	59	Resp:	26694
Ion Ratio	Lower	Upper	
59	100		
41	29.9	21.3	31.9
43	12.0	7.7	11.5#

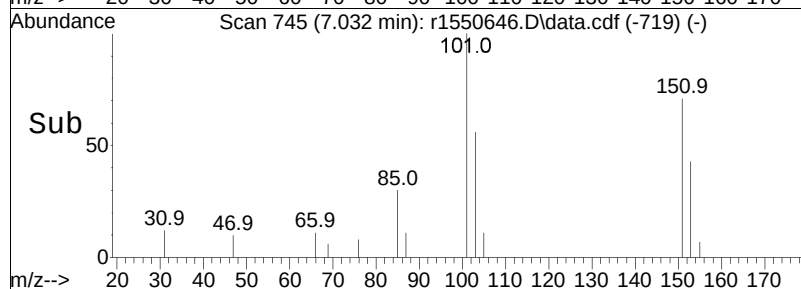
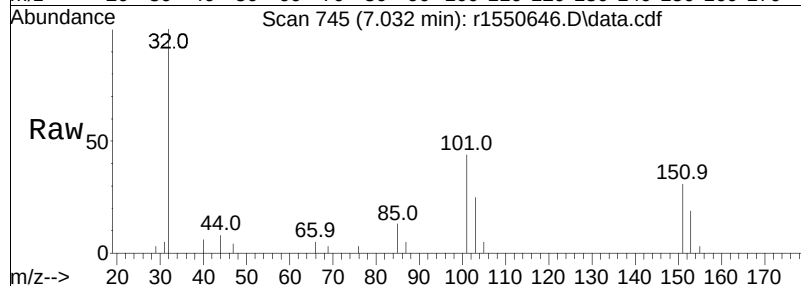
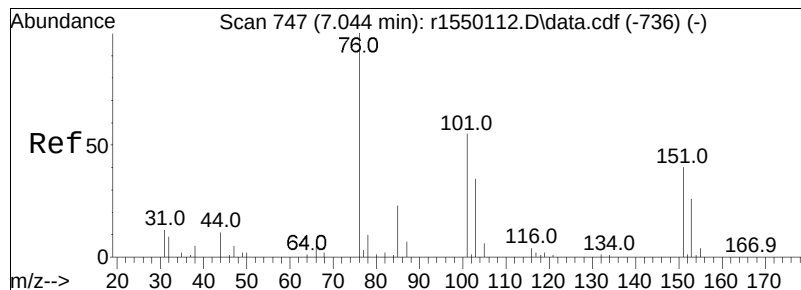




#28
 methylene chloride
 Concen: 0.08 ppbV
 RT: 6.732 min Scan# 695
 Delta R.T. -0.042 min
 Lab File: r1550646.D
 Acq: 17 Oct 2024 3:56 AM

Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	2569				
Ion Ratio	100	71.2			
			63.4		95.2





#31

Freon 113

Concen: 0.10 ppbV

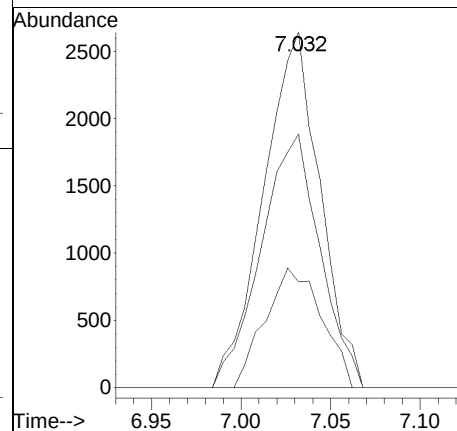
RT: 7.032 min Scan# 745

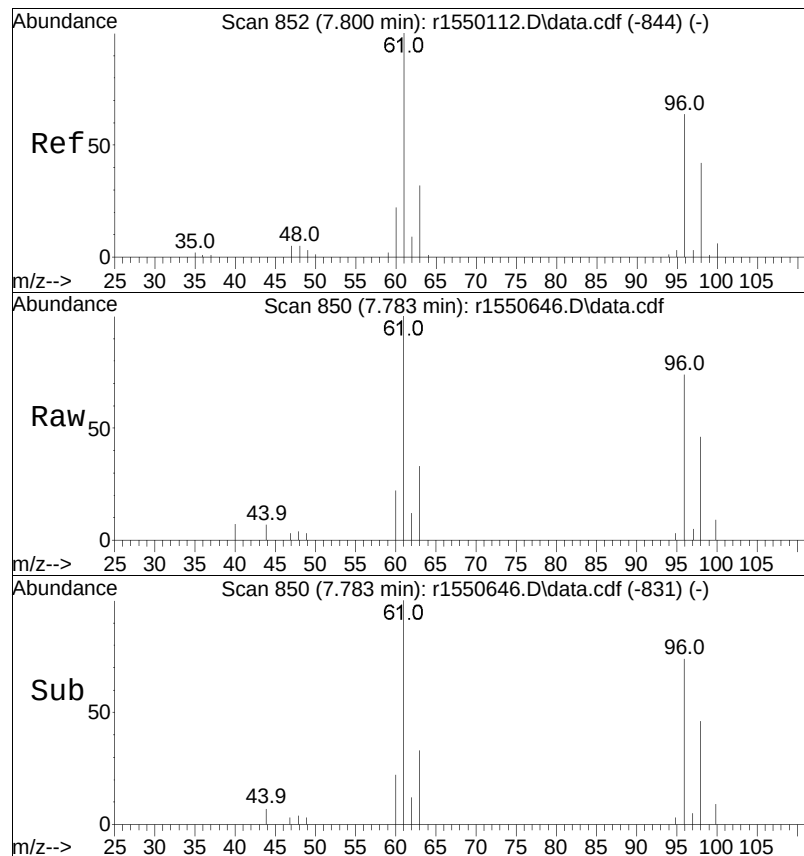
Delta R.T. -0.042 min

Lab File: r1550646.D

Acq: 17 Oct 2024 3:56 AM

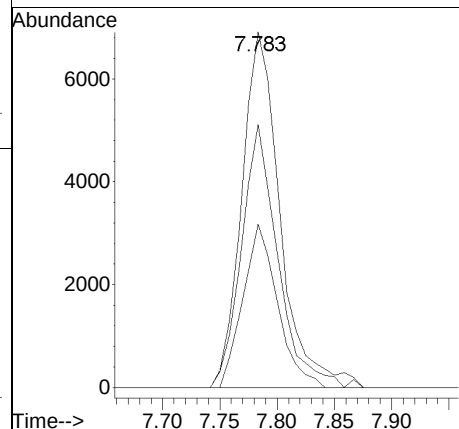
Tgt Ion:	101	Resp:	5814
Ion Ratio	Lower	Upper	
101	100		
85	29.7	31.3	46.9#
151	71.3	60.9	91.3

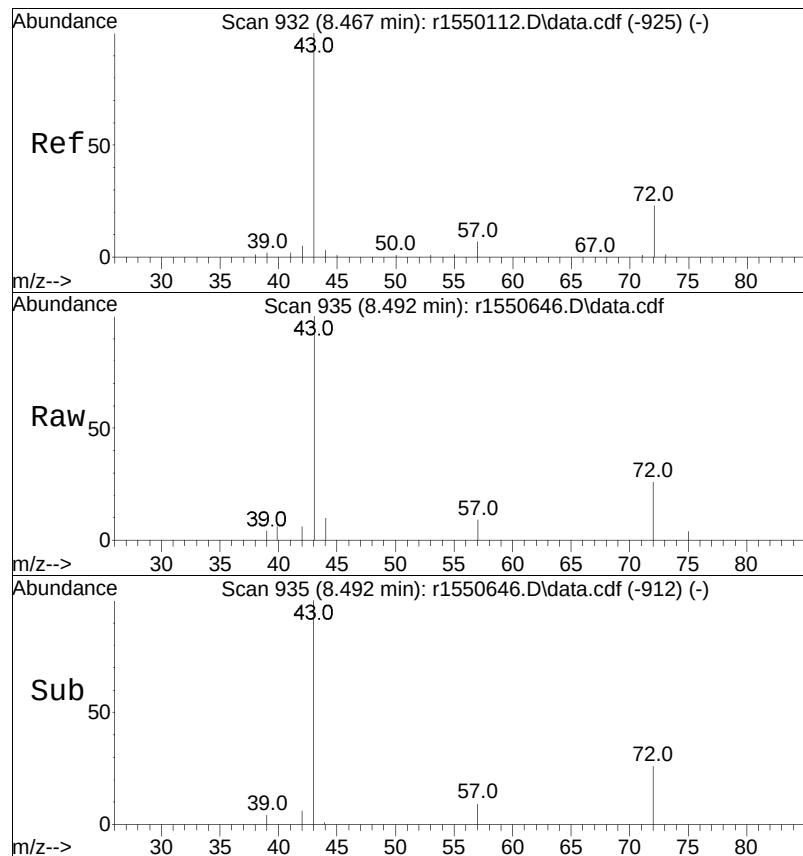




#32
 trans-1,2-dichloroethene
 Concen: 0.36 ppbV
 RT: 7.783 min Scan# 850
 Delta R.T. -0.042 min
 Lab File: r1550646.D
 Acq: 17 Oct 2024 3:56 AM

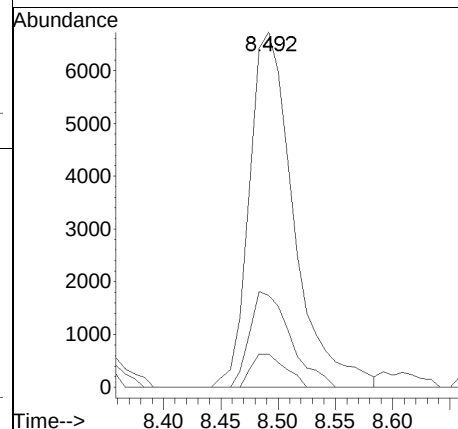
Tgt	Ion: 61	Resp:	16111
Ion	Ratio	Lower	Upper
61	100		
96	73.9	54.6	81.8
98	46.0	35.3	52.9

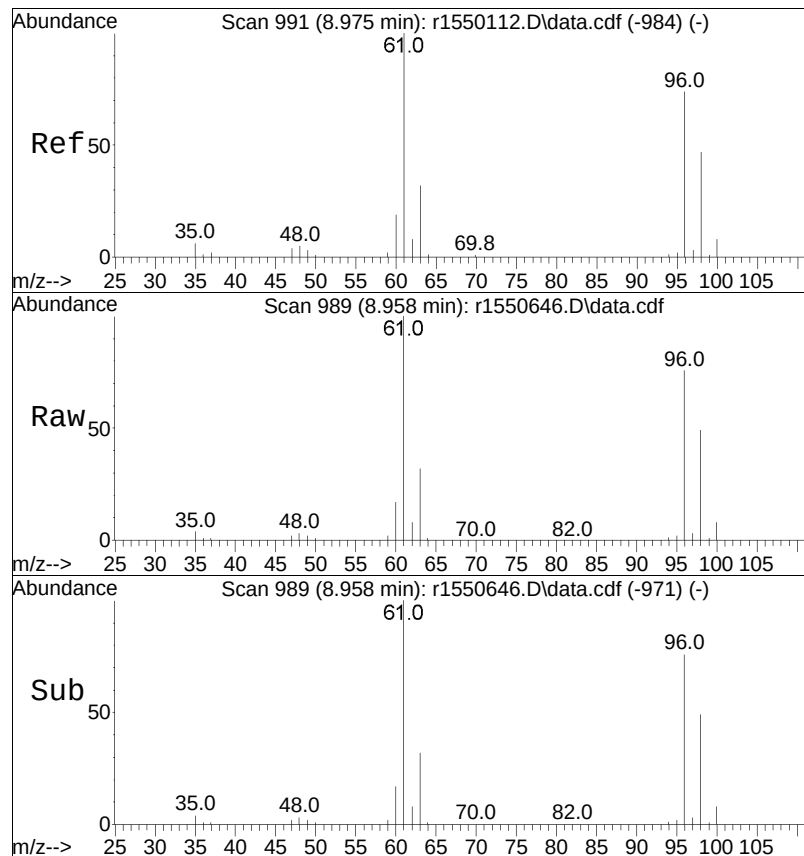




#36
 2-butanone
 Concen: 0.31 ppbV
 RT: 8.492 min Scan# 935
 Delta R.T. -0.008 min
 Lab File: r1550646.D
 Acq: 17 Oct 2024 3:56 AM

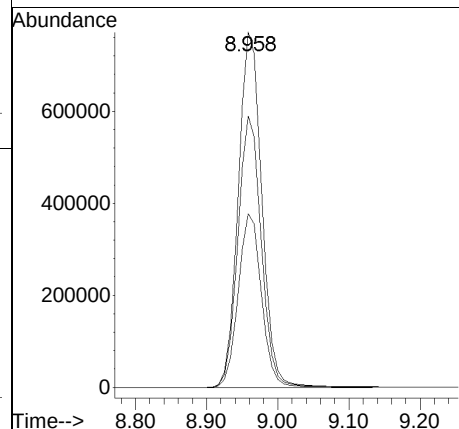
Tgt Ion:	43	Resp:	18217
Ion Ratio	Lower	Upper	
43	100		
72	25.9	21.7	32.5
57	9.4	7.0	10.6

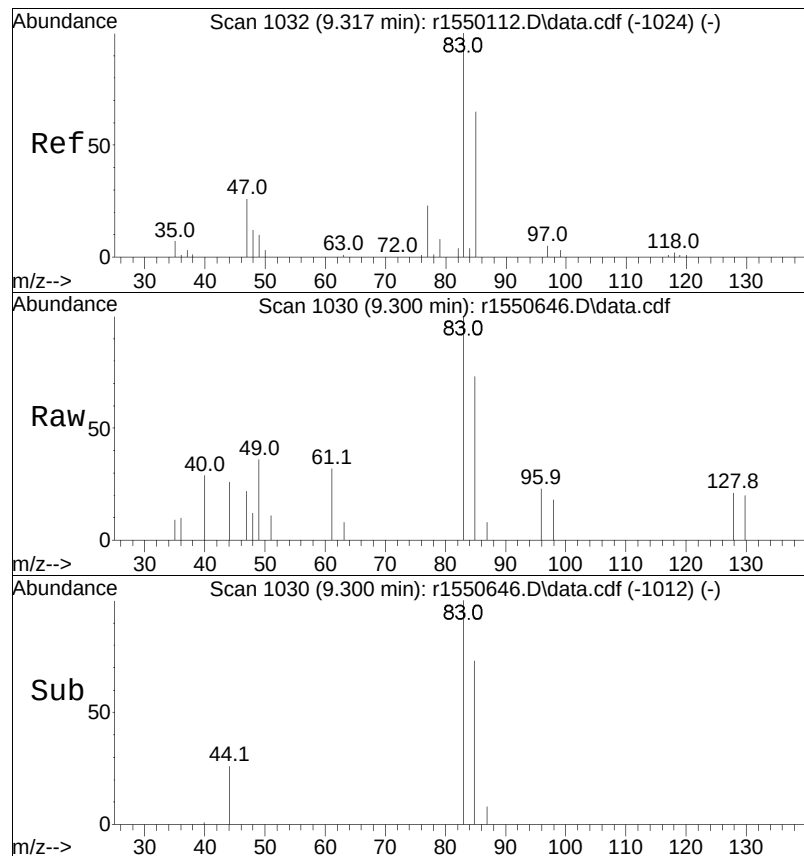




#37
 cis-1,2-dichloroethene
 Concen: 40.13 ppbV
 RT: 8.958 min Scan# 989
 Delta R.T. -0.050 min
 Lab File: r1550646.D
 Acq: 17 Oct 2024 3:56 AM

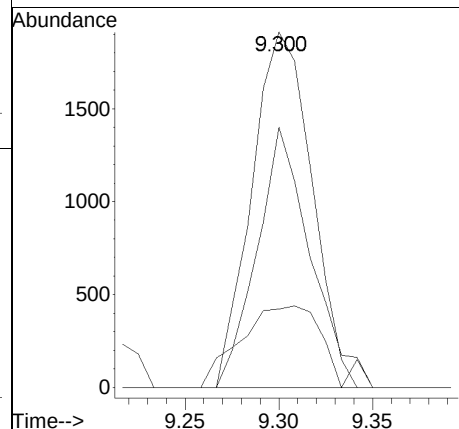
Tgt Ion:	61	Resp:	1776136
Ion Ratio	Lower	Upper	
61	100		
96	76.4	59.8	89.8
98	48.9	38.0	57.0

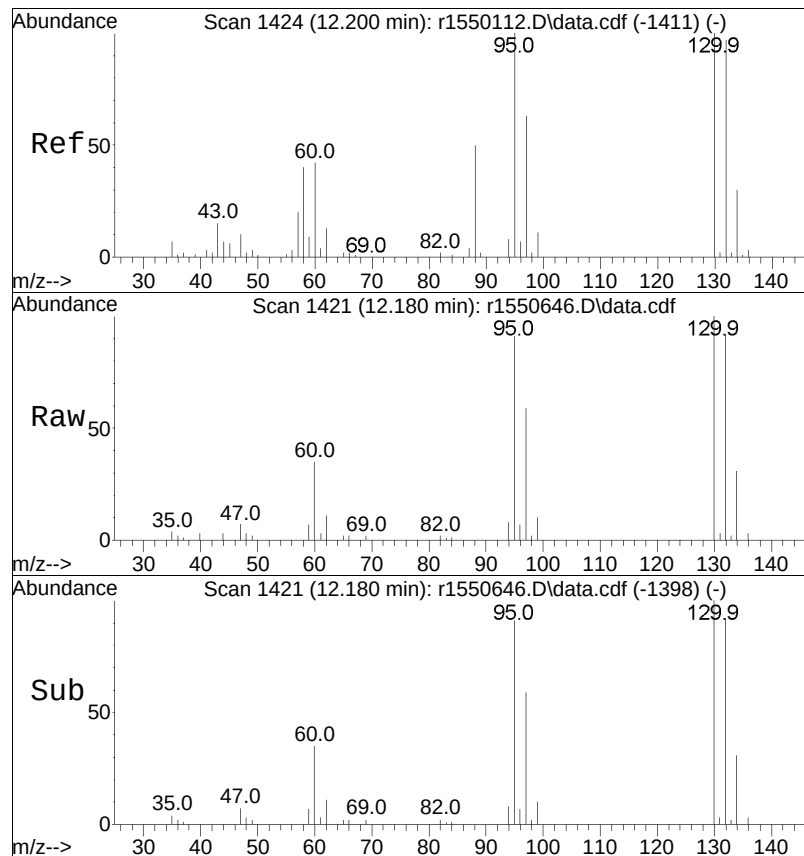




#39
chloroform
Concen: 0.08 ppbV
RT: 9.300 min Scan# 1030
Delta R.T. -0.050 min
Lab File: r1550646.D
Acq: 17 Oct 2024 3:56 AM

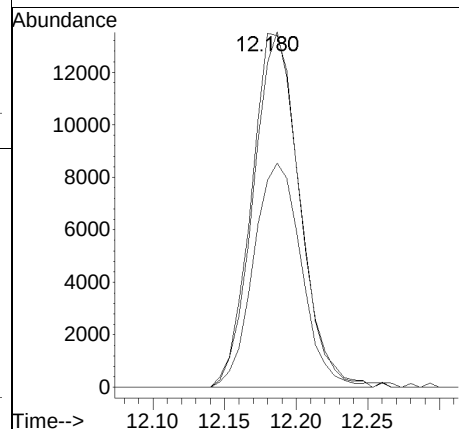
Tgt	Ion	Resp	Lower	Upper
83	100			
85	73.2	51.9	77.9	
47	22.1	15.7	23.5	

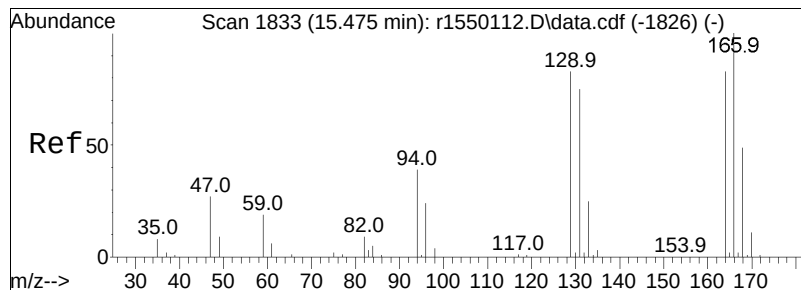




#59
 trichloroethene
 Concen: 0.69 ppbV
 RT: 12.180 min Scan# 1421
 Delta R.T. -0.047 min
 Lab File: r1550646.D
 Acq: 17 Oct 2024 3:56 AM

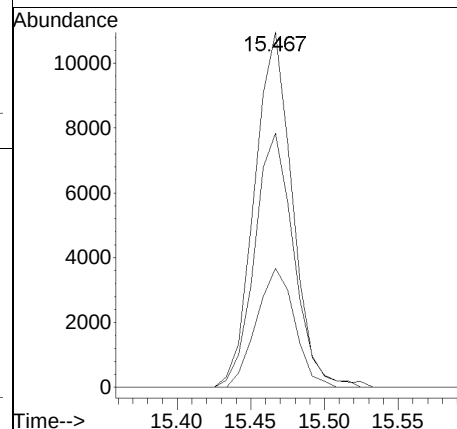
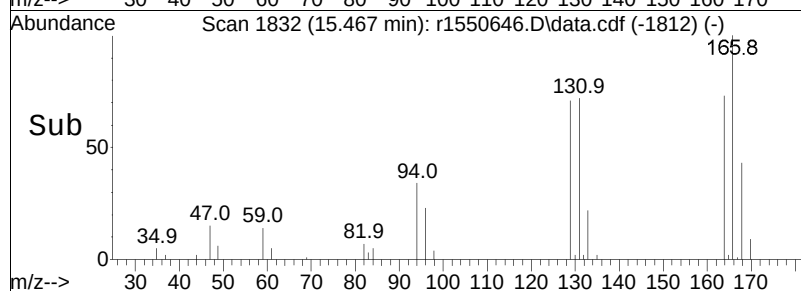
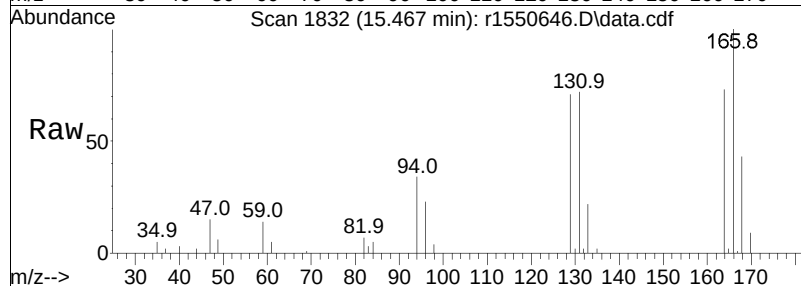
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	31622		
132	91.9		72.2	108.2
97	58.6		46.3	69.5

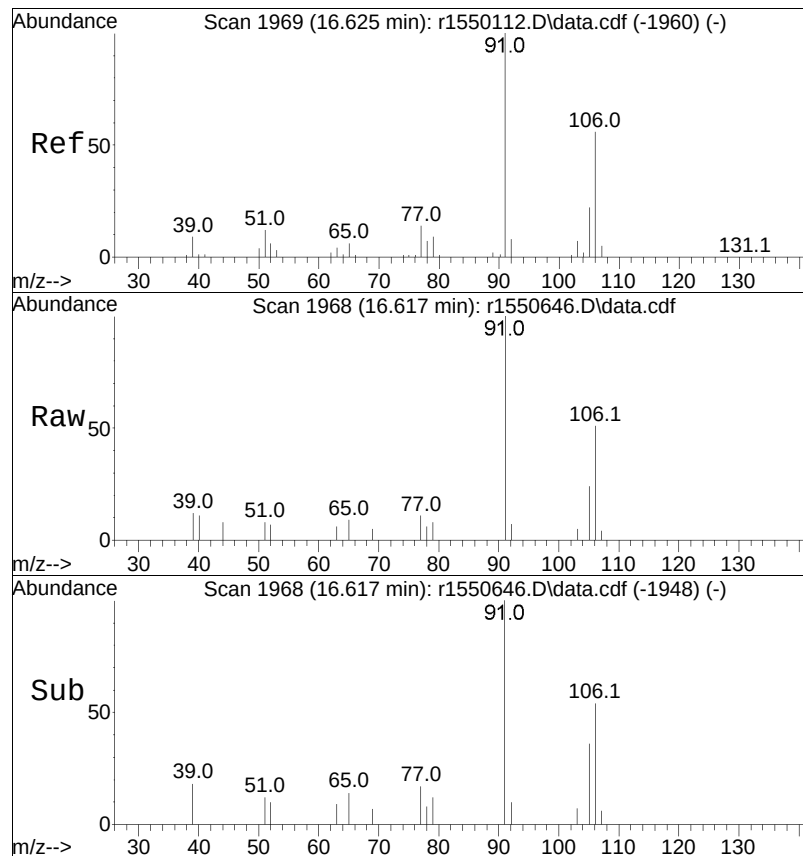




#78
 tetrachloroethene
 Concen: 0.34 ppbV
 RT: 15.467 min Scan# 1832
 Delta R.T. -0.033 min
 Lab File: r1550646.D
 Acq: 17 Oct 2024 3:56 AM

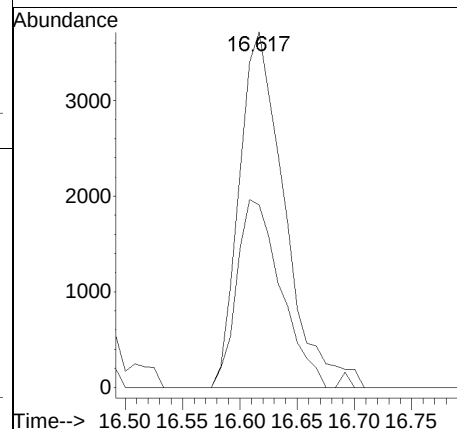
Tgt Ion	Ratio	Lower	Upper
166	100		
131	71.5	59.6	89.4
94	33.5	27.6	41.4

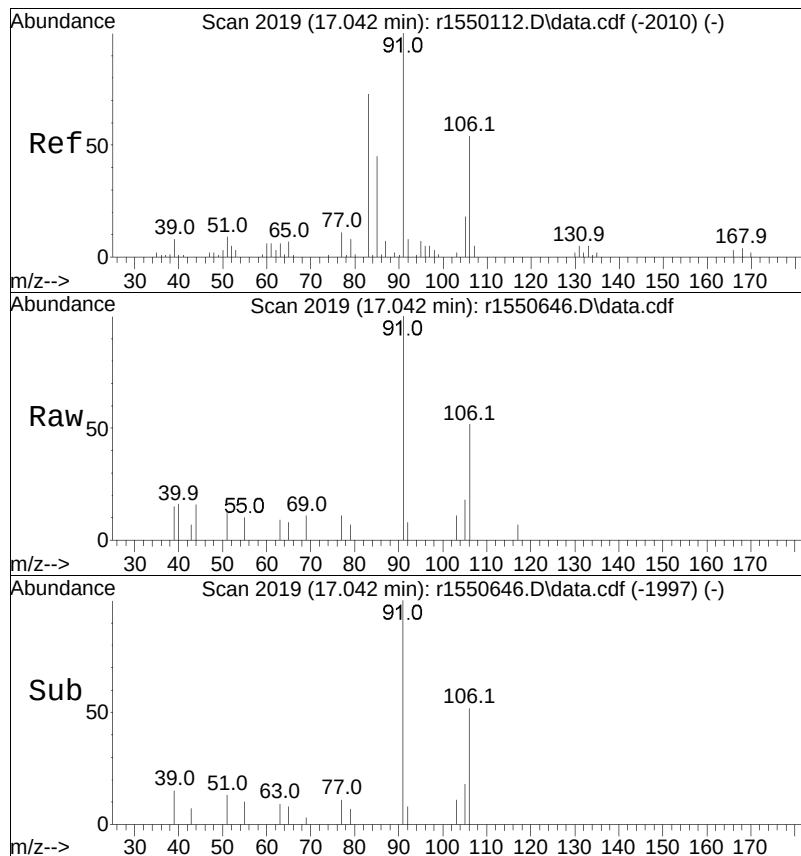




#83
 m+p-xylene
 Concen: 0.07 ppbV
 RT: 16.617 min Scan# 1968
 Delta R.T. -0.033 min
 Lab File: r1550646.D
 Acq: 17 Oct 2024 3:56 AM

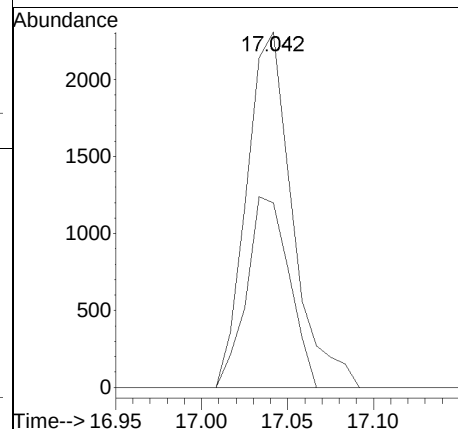
Tgt	Ion	Resp	Lower	Upper
91	100	10204		
106	51.4	42.1	63.1	





#87
 o-xylene
 Concen: 0.03 ppbV
 RT: 17.042 min Scan# 2019
 Delta R.T. -0.017 min
 Lab File: r1550646.D
 Acq: 17 Oct 2024 3:56 AM

Tgt	Ion	Resp	Lower	Upper
91	100	4287		
106	51.9	42.0	63.0	



Manual Integration Report

Data Path	: 0:\Forensics\Data\Airlab15Q	Method	: TFS15_241007.M
Data File	: r1550646.D	Operator	: AIRLAB15:JMB
Date Inj'd	: 10/17/2024 3:56 AM	Instrument	:
Sample	: L2459547-01D,3,65,250	Quant Date	: 10/17/2024 5:07 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550647.D
 Acq On : 17 Oct 2024 4:31 AM
 Operator : AIRLAB15:JMB
 Sample : L2459547-02D,3,3.27,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 17 05:08:55 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1016T\r1550628.D
 Sub List : T015-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.150	49	426788	10.000	ppbV	-0.04
Standard Area = 416135			Recovery = 102.56%			
43) 1,4-difluorobenzene	11.380	114	1241738	10.000	ppbV	-0.05
Standard Area = 1287285			Recovery = 96.46%			
67) chlorobenzene-D5	16.067	54	209172	10.000	ppbV	-0.03
Standard Area = 193671			Recovery = 108.00%			

System Monitoring Compounds

Target Compounds						Qvalue
5) dichlorodifluoromethane	4.024		0		N.D.	
6) chloromethane	4.198		0		N.D.	
7) Freon-114	0.000		0		N.D.	
9) vinyl chloride	0.000		0		N.D.	
10) 1,3-butadiene	0.000		0		N.D.	
13) bromomethane	0.000		0		N.D.	
14) chloroethane	5.056		0		N.D.	
15) ethanol	5.194	31	2517	0.213	ppbV	89
17) vinyl bromide	5.337		0		N.D.	
19) acetone	5.713	43	11757	0.427	ppbV #	86
21) trichlorofluoromethane	5.903		0		N.D.	
22) isopropyl alcohol	6.003	45	5841	0.140	ppbV #	85
26) 1,1-dichloroethene	0.000		0		N.D.	
27) tertiary butyl alcohol	6.696		0		N.D.	
28) methylene chloride	6.726		0		N.D.	
29) 3-chloropropene	0.000		0		N.D.	
30) carbon disulfide	7.044		0		N.D.	
31) Freon 113	0.000		0		N.D.	
32) trans-1,2-dichloroethene	7.792		0		N.D.	
33) 1,1-dichloroethane	0.000		0		N.D.	
34) MTBE	0.000		0		N.D.	
36) 2-butanone	8.500	43	5351	0.090	ppbV #	95
37) cis-1,2-dichloroethene	8.958	61	56852	1.254	ppbV	98
38) Ethyl Acetate	9.225		0		N.D.	
39) chloroform	9.317		0		N.D.	
40) Tetrahydrofuran	9.808		0		N.D.	
42) 1,2-dichloroethane	0.000		0		N.D.	
44) hexane	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550647.D
 Acq On : 17 Oct 2024 4:31 AM
 Operator : AIRLAB15:JMB
 Sample : L2459547-02D,3,3.27,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 17 05:08:55 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1016T\r1550628.D
 Sub List : T015-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	10.960		0	N.D.		
52) carbon tetrachloride	0.000		0	N.D.		
53) cyclohexane	0.000		0	N.D.	d	
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	12.180		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
59) trichloroethene	12.187	130	111631	2.472	ppbV	91
60) 2,2,4-trimethylpentane	0.000		0	N.D.		
62) heptane	12.547		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	0.000		0	N.D.		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.325		0	N.D.		
72) 2-hexanone	0.000		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
78) tetrachloroethene	15.467	166	2344131	39.709	ppbV	99
80) chlorobenzene	16.100		0	N.D.		
81) ethylbenzene	16.458		0	N.D.		
83) m+p-xylene	16.617		0	N.D.		
84) bromoform	0.000		0	N.D.		
85) styrene	0.000		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	17.042		0	N.D.		
96) 4-ethyl toluene	18.100		0	N.D.		
97) 1,3,5-trimethylbenzene	18.100		0	N.D.		
99) 1,2,4-trimethylbenzene	18.517		0	N.D.		
101) Benzyl Chloride	0.000		0	N.D.		
102) 1,3-dichlorobenzene	0.000		0	N.D.		
103) 1,4-dichlorobenzene	0.000		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
116) naphthalene	20.692		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550647.D
 Acq On : 17 Oct 2024 4:31 AM
 Operator : AIRLAB15:JMB
 Sample : L2459547-02D,3,3.27,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 17 05:08:55 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1016T\r1550628.D
 Sub List : T015-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : T015-NY+Naphthalene - .b15\2024\10\1016T\r1550628.D

Data Path : 0:\Forensics\Data\AirLab15\2024\10\1016T\

Data File : r1550647.D

Acq On : 17 Oct 2024 4:31 AM

Operator : AIRLAB15:JMB

Sample : L2459547-02D,3,3.27,250

Misc : WG1985226,ICAL21580

ALS Vial : 0 Sample Multiplier: 1

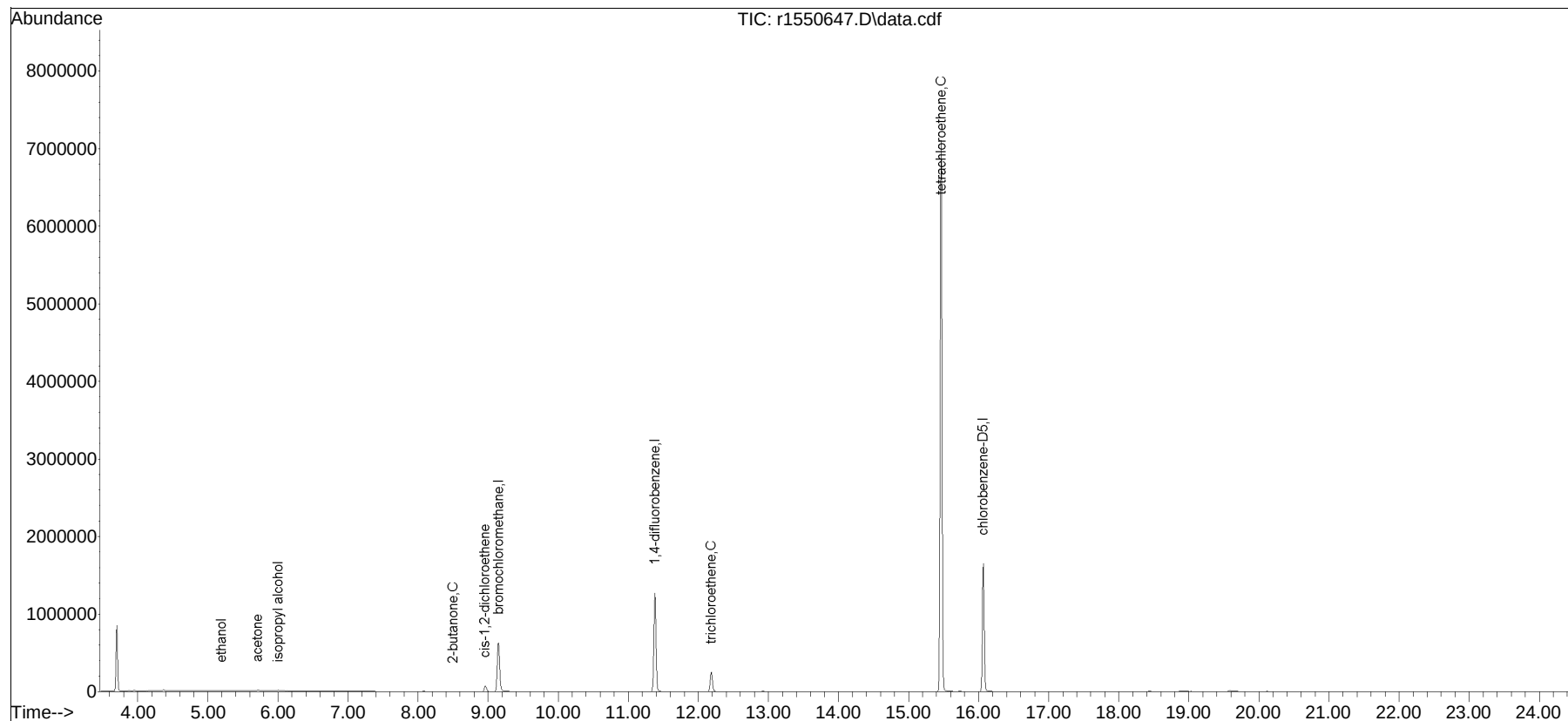
Quant Time: Oct 17 05:08:55 2024

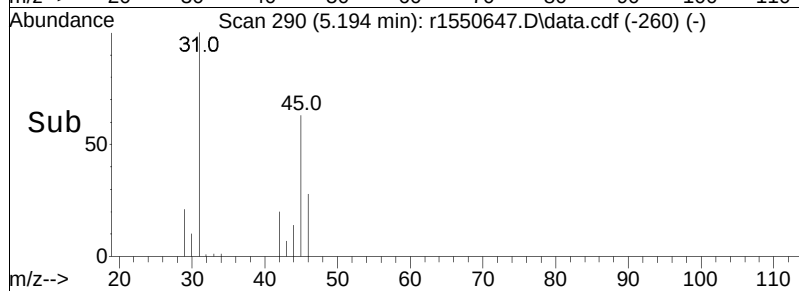
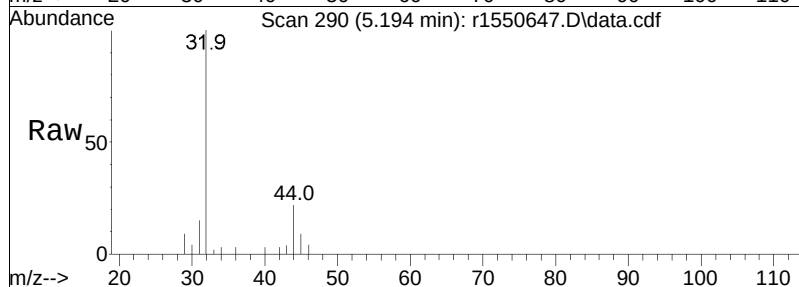
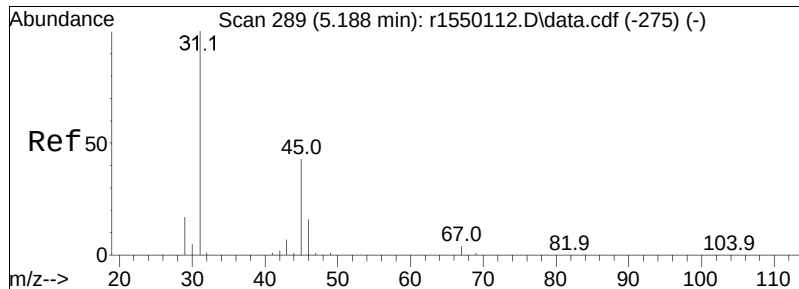
Quant Method : 0:\Forensics\Data\AirLab15\2024\10\1016T\TFS15_241007.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Oct 08 13:55:51 2024

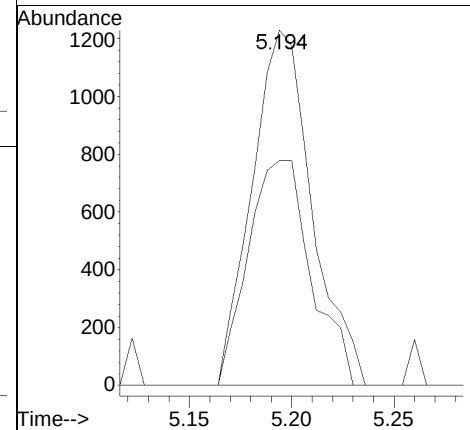
Response via : Initial Calibration

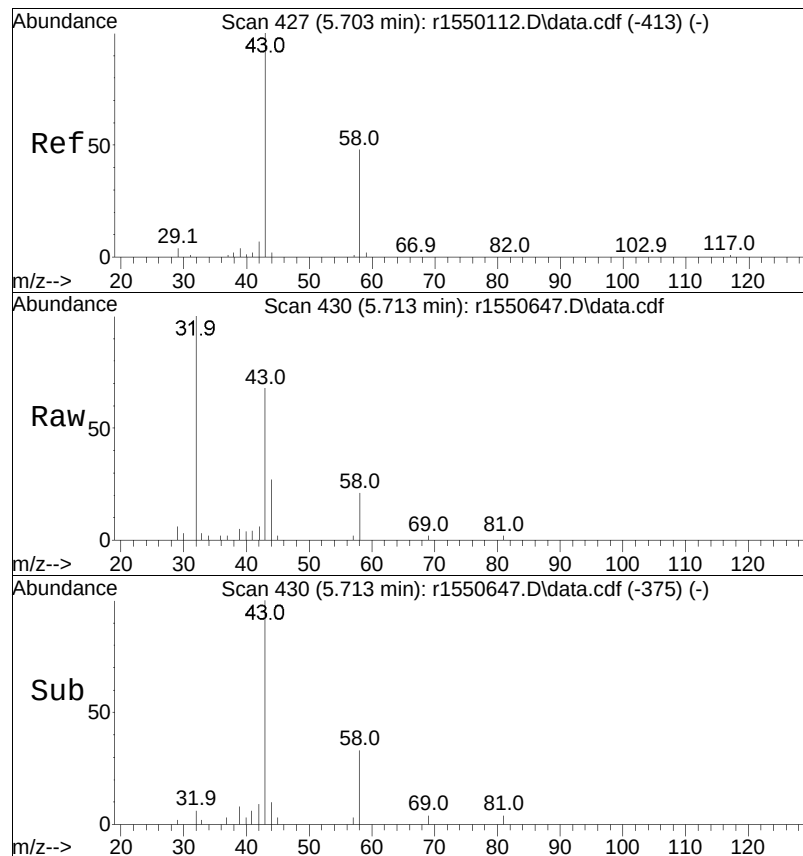




#15
ethanol
Concen: 0.21 ppbV
RT: 5.194 min Scan# 290
Delta R.T. -0.018 min
Lab File: r1550647.D
Acq: 17 Oct 2024 4:31 AM

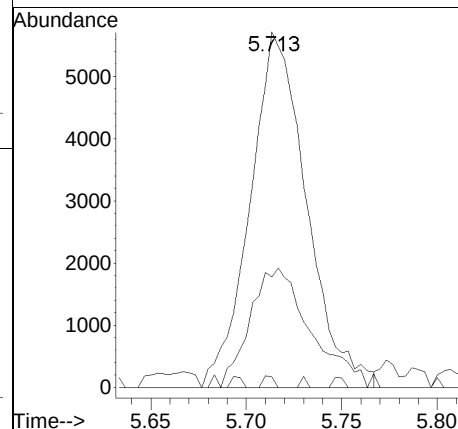
Tgt Ion: 31 Resp: 2517
Ion Ratio Lower Upper
31 100
45 63.3 44.0 66.0

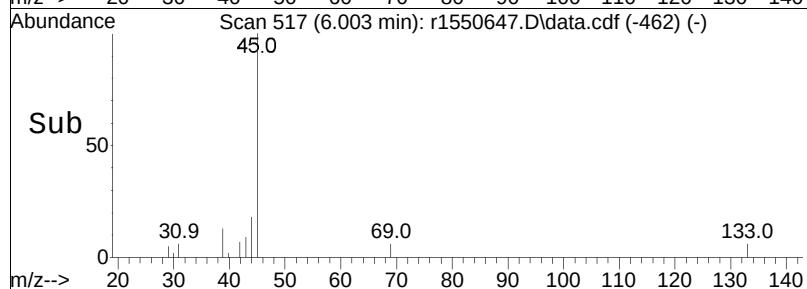
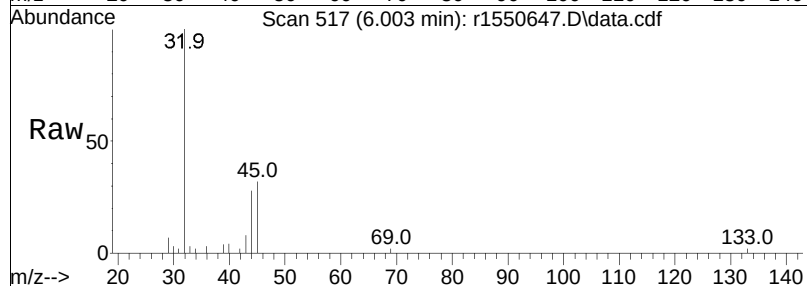
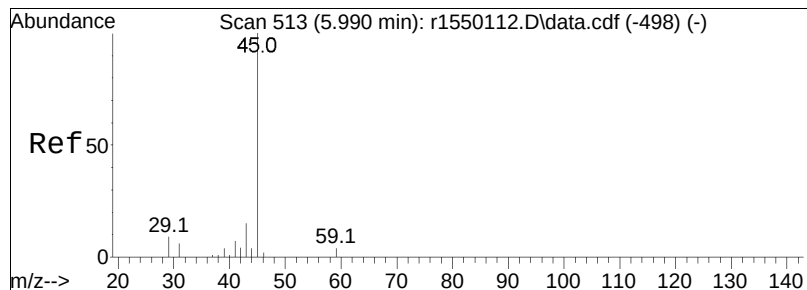




#19
acetone
Concen: 0.43 ppbV
RT: 5.713 min Scan# 430
Delta R.T. -0.017 min
Lab File: r1550647.D
Acq: 17 Oct 2024 4:31 AM

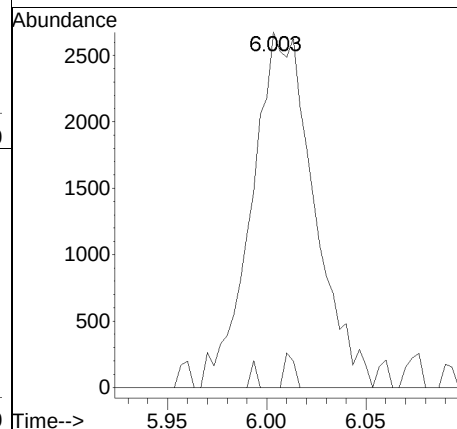
Tgt	Ion	Ratio	Lower	Upper
43	100			
58	31.0	31.6	47.4#	
57	3.0	0.8	1.2#	

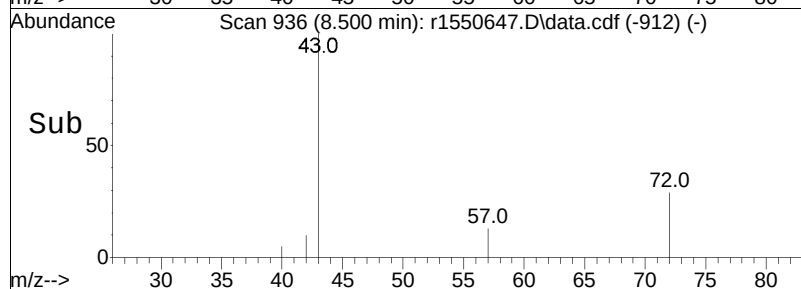
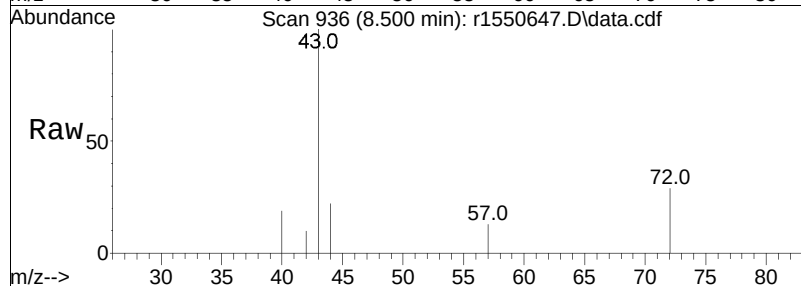
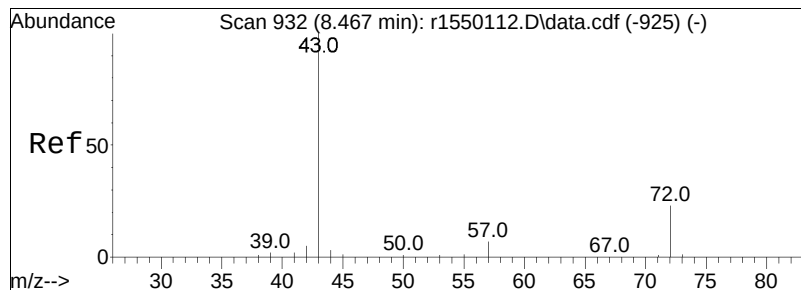




#22
isopropyl alcohol
Concen: 0.14 ppbV
RT: 6.003 min Scan# 517
Delta R.T. -0.017 min
Lab File: r1550647.D
Acq: 17 Oct 2024 4:31 AM

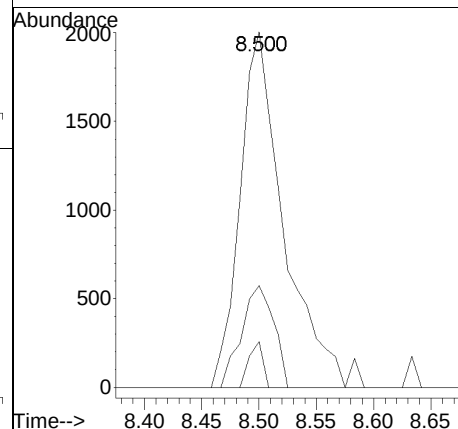
Tgt Ion	Ratio	Lower	Upper
45	100		
59	0.0	3.8	5.8#

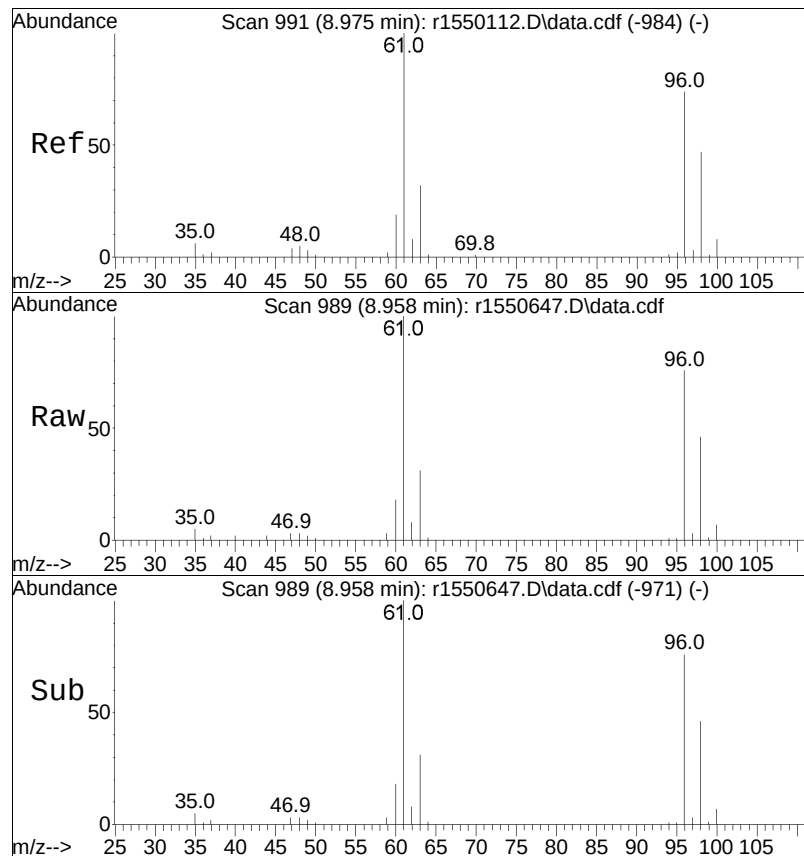




#36
2-butanone
Concen: 0.09 ppbV
RT: 8.500 min Scan# 936
Delta R.T. 0.000 min
Lab File: r1550647.D
Acq: 17 Oct 2024 4:31 AM

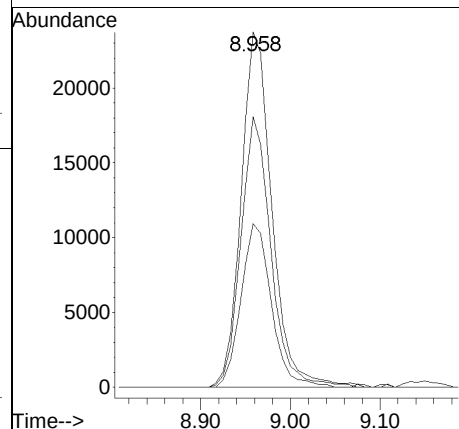
Tgt Ion	Ratio	Lower	Upper
43	100		
72	28.6	21.7	32.5
57	12.9	7.0	10.6

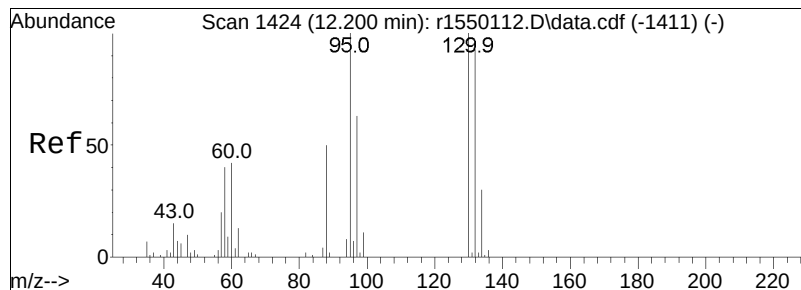




#37
 cis-1,2-dichloroethene
 Concen: 1.25 ppbV
 RT: 8.958 min Scan# 989
 Delta R.T. -0.050 min
 Lab File: r1550647.D
 Acq: 17 Oct 2024 4:31 AM

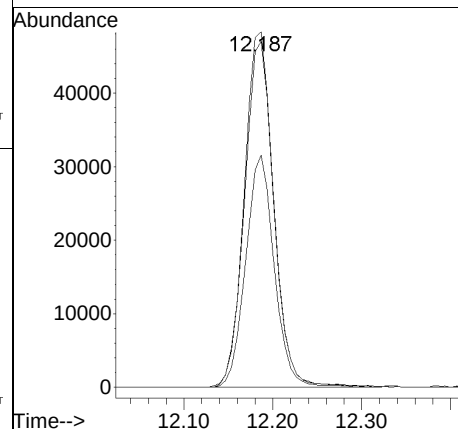
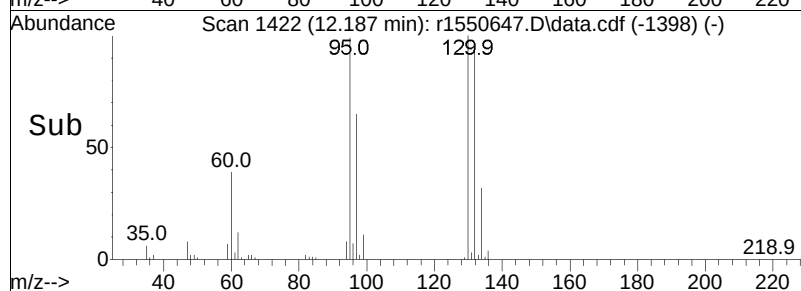
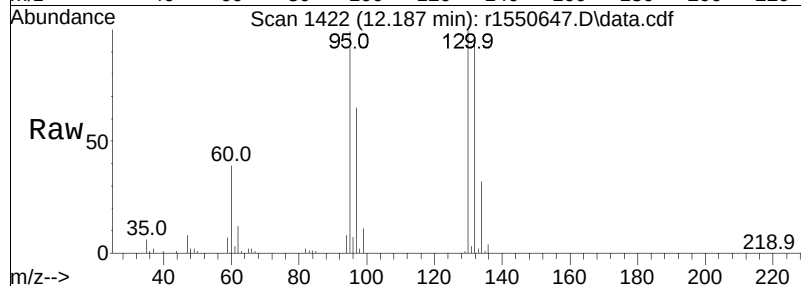
Tgt Ion:	61	Resp:	56852
Ion Ratio	Lower	Upper	
61	100		
96	76.2	59.8	89.8
98	46.1	38.0	57.0

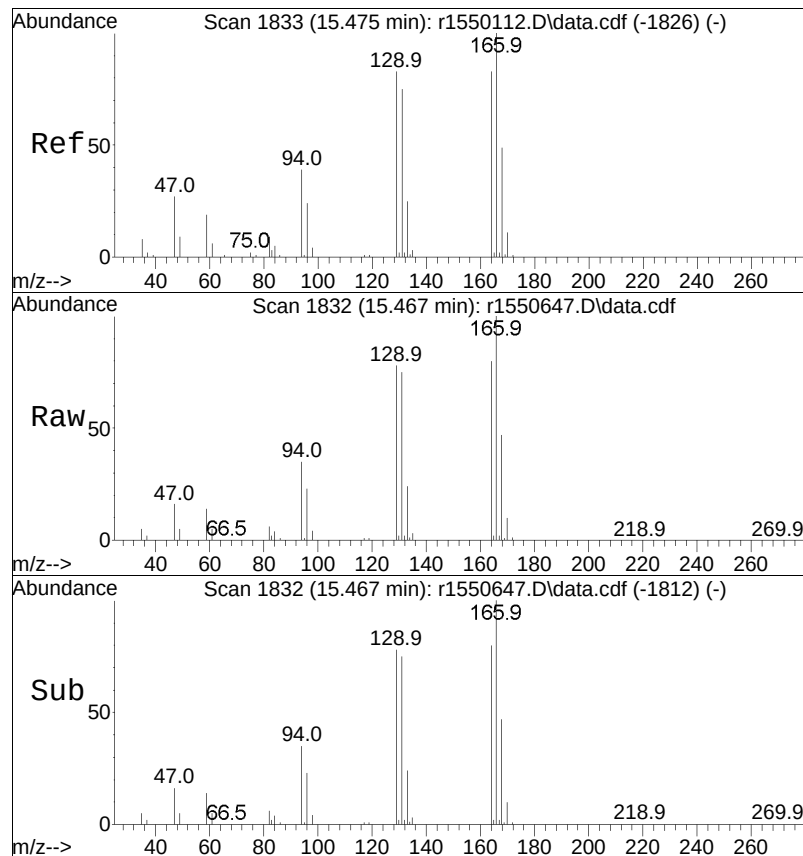




#59
trichloroethene
Concen: 2.47 ppbV
RT: 12.187 min Scan# 1422
Delta R.T. -0.040 min
Lab File: r1550647.D
Acq: 17 Oct 2024 4:31 AM

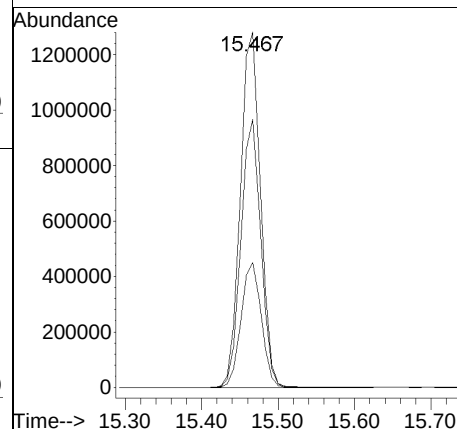
Tgt	Ion	Ratio	Resp	Lower	Upper
130	100		111631		
132	97.4	72.2	108.2		
97	65.4	46.3	69.5		





#78
 tetrachloroethene
 Concen: 39.71 ppbV
 RT: 15.467 min Scan# 1832
 Delta R.T. -0.033 min
 Lab File: r1550647.D
 Acq: 17 Oct 2024 4:31 AM

Tgt Ion	Ratio	Lower	Upper
166	100		
131	75.4	59.6	89.4
94	35.2	27.6	41.4



Manual Integration Report

Data Path	: 0:\Forensics\Data\Airlab15Q	Method	: TFS15_241007.M
Data File	: r1550647.D	Operator	: AIRLAB15:JMB
Date Inj'd	: 10/17/2024 4:31 AM	Instrument	:
Sample	: L2459547-02D,3,3.27,250	Quant Date	: 10/17/2024 5:08 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Air Volatiles

Client : Envirotrac Ltd.
 Project Name : FROST ST 001
 Instrument ID : AIRLAB15
 Calibration dates : 10/07/24 14:37

10/07/24 19:05

Lab Number : L2459547
 Project Number :
 Ical Ref : ICAL21580

Calibration Files

0.2 =r1550426.D 0.5 =r1550427.D 1.0 =r1550428.D 5.0 =r1550429.D 10 =r1550430.D 20 =r1550431.D
 50 =r1550432.D 100 =r1550433.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1) I bromochloromethane	-----ISTD-----									
2) chlorodifluoromethane	1.836	1.442	1.339	0.958	0.853	0.871	0.804	0.758	1.108	35.03#
3) propylene		0.886	0.807	0.548	0.509	0.543	0.537	0.497	0.618	25.69
4) propane		0.908	0.885	0.627	0.581	0.581	0.525	0.455	0.652	26.98
5) dichlorodifluoromethane	1.575	1.483	1.477	1.105	1.002	1.036	0.957	0.872	1.188	23.33
6) C chloromethane	0.554	0.523	0.529	0.382	0.367	0.392	0.380	0.374	0.438	18.65
7) Freon-114	1.534	1.431	1.431	1.039	0.973	1.017	0.940	0.828	1.149	23.60
8) C methanol		0.262	0.178	0.171	0.175	0.162	0.145	0.182		22.44
9) C vinyl chloride	0.731	0.740	0.751	0.548	0.537	0.561	0.533	0.487	0.611	17.92
10) C 1,3-butadiene	0.500	0.451	0.461	0.343	0.330	0.347	0.330	0.309	0.384	19.27
11) butane	1.067	0.990	0.998	0.719	0.710	0.761	0.759	0.755	0.845	17.36
12) C acetaldehyde		0.252	0.252	0.178	0.167	0.175	0.153	0.134	0.187	24.83
13) C bromomethane	0.606	0.577	0.602	0.440	0.426	0.443	0.422	0.391	0.488	18.42
14) C chloroethane	0.397	0.377	0.370	0.271	0.259	0.279	0.270	0.250	0.309	19.69
15) ethanol		0.399	0.268	0.284	0.270	0.249	0.195	0.277		24.24
16) dichlorofluoromethane	1.829	1.450	1.406	0.989	0.950	1.003	0.882	0.758	1.158	31.46#
17) C vinyl bromide	0.570	0.582	0.580	0.438	0.423	0.464	0.451	0.421	0.491	14.87
18) C acrolein		0.244	0.237	0.185	0.186	0.200	0.192	0.183	0.204	12.60
19) acetone	0.841	0.780	0.780	0.559	0.545	0.587	0.556	0.516	0.645	20.32
20) C acetonitrile	0.669	0.591	0.610	0.427	0.437	0.467	0.465	0.453	0.515	18.12
21) trichlorofluoromethane	1.280	1.148	1.161	0.836	0.813	0.854	0.791	0.790	0.959	20.97
22) isopropyl alcohol	1.198	1.158	0.889	0.886	0.790	0.982	0.965	0.933	0.975	14.22
23) C acrylonitrile	0.663	0.715	0.761	0.518	0.527	0.565	0.554	0.517	0.602	16.04
24) pentane	1.699	1.637	1.664	1.219	1.188	1.273	1.218	1.323	1.403	15.90
25) ethyl ether	1.518	1.430	1.458	1.219	1.141	1.297	1.181	1.042	1.286	13.16
26) C 1,1-dichloroethene	1.376	1.304	1.326	0.978	0.966	1.040	0.982	0.908	1.110	17.22
27) tertiary butyl alcohol		1.398	1.473	1.136	1.159	1.298	1.251	1.172	1.270	10.10
28) C methylene chloride		1.040	1.023	0.721	0.698	0.746	0.693	0.642	0.795	20.74
29) C 3-chloropropene	1.071	1.029	1.078	0.818	0.813	0.895	0.890	0.889	0.935	11.56
30) C carbon disulfide	2.292	2.209	2.248	1.750	1.732	1.875	1.790	1.634	1.941	13.64
31) Freon 113	1.754	1.607	1.615	1.174	1.152	1.229	1.176	1.070	1.347	19.71
32) trans-1,2-dichloroethene	1.191	1.219	1.273	0.969	0.966	1.055	1.009	0.938	1.078	12.15
33) C 1,1-dichloroethane	1.774	1.644	1.706	1.256	1.233	1.328	1.272	1.203	1.427	16.67
34) C MTBE	1.909	1.862	1.909	1.470	1.451	1.577	1.513	1.468	1.645	12.75
35) C vinyl acetate	1.414	1.418	1.440	1.143	1.180	1.328	1.321	1.307	1.319	8.32
36) C 2-butanone		1.611	1.653	1.280	1.254	1.364	1.331	1.304	1.399	11.67

Initial Calibration Summary

Form 6

Air Volatiles

Client : Envirotrac Ltd.
 Project Name : FROST ST 001
 Instrument ID : AIRLAB15
 Calibration dates : 10/07/24 14:37

Lab Number : L2459547
 Project Number :
 Ical Ref : ICAL21580

10/07/24 19:05

Calibration Files

0.2 =r1550426.D 0.5 =r1550427.D 1.0 =r1550428.D 5.0 =r1550429.D 10 =r1550430.D 20 =r1550431.D
 50 =r1550432.D 100 =r1550433.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
37)	cis-1,2-dichloroethene	1.225	1.226	1.254	0.957	0.945	1.019	0.973	0.896	1.062	13.88
38)	Ethyl Acetate		0.299	0.326	0.251	0.241	0.268	0.253	0.225	0.266	13.20
39) C	chloroform	1.746	1.649	1.678	1.197	1.164	1.226	1.107	0.967	1.342	22.40
40)	Tetrahydrofuran		0.947	0.997	0.789	0.790	0.869	0.860	0.841	0.870	8.90
41)	2,2-dichloropropane	1.166	1.126	1.144	0.866	0.847	0.897	0.830	0.762	0.955	17.04
42) C	1,2-dichloroethane	1.174	1.035	1.033	0.755	0.742	0.794	0.717	0.652	0.863	22.01
43) I	1,4-difluorobenzene	-----ISTD-----									
44) C	hexane	0.540	0.544	0.558	0.422	0.414	0.429	0.370	0.300	0.447	20.71
45)	diisopropyl ether	0.286	0.280	0.285	0.217	0.215	0.227	0.201	0.174	0.236	18.17
46)	tert-butyl ethyl ether	0.904	0.907	0.963	0.741	0.727	0.761	0.692	0.615	0.789	15.45
47) s	1,2-dichloroethane-D4	0.252	0.248	0.251	0.253	0.251	0.250	0.234	0.228	0.246	3.86
48) C	1,1,1-trichloroethane	0.490	0.451	0.449	0.344	0.343	0.361	0.346	0.323	0.388	16.53
49)	1,1-dichloropropene	0.410	0.407	0.413	0.324	0.322	0.339	0.315	0.296	0.353	13.73
50) C	benzene	1.070	1.044	1.052	0.796	0.773	0.820	0.757	0.699	0.876	17.38
51)	thiophene	0.744	0.727	0.753	0.718	0.705	0.596	0.539	0.477	0.657	16.02
52) C	carbon tetrachloride	0.396	0.391	0.392	0.302	0.300	0.319	0.286	0.259	0.331	16.46
53)	cyclohexane	0.574	0.568	0.583	0.450	0.444	0.464	0.420	0.372	0.484	16.48
54)	tert-amyl methyl ether	0.762	0.741	0.771	0.605	0.602	0.640	0.606	0.577	0.663	12.21
55)	dibromomethane	0.332	0.318	0.322	0.243	0.238	0.253	0.232	0.205	0.268	18.13
56) C	1,2-dichloropropane	0.414	0.392	0.399	0.296	0.292	0.310	0.290	0.262	0.332	17.95
57)	bromodichloromethane	0.491	0.487	0.499	0.389	0.385	0.410	0.368	0.329	0.420	15.33
58) C	1,4-dioxane	0.203	0.218	0.227	0.181	0.181	0.191	0.177	0.156	0.192	12.11
59) C	trichloroethene	0.443	0.429	0.431	0.331	0.325	0.344	0.322	0.285	0.364	16.80
60) C	2,2,4-trimethylpentane	1.805	1.840	1.880	1.424	1.390	1.444	1.242	1.042	1.508	20.21
61)	methyl methacrylate		0.294	0.332	0.266	0.269	0.299	0.285	0.274	0.289	7.88
62)	heptane	0.583	0.590	0.608	0.469	0.460	0.485	0.446	0.415	0.507	14.79
63) C	cis-1,3-dichloropropene	0.416	0.407	0.452	0.356	0.363	0.393	0.374	0.350	0.389	9.00
64) C	4-methyl-2-pentanone		0.591	0.650	0.526	0.523	0.558	0.520	0.487	0.551	9.96
65)	trans-1,3-dichloropropene	0.295	0.308	0.330	0.267	0.274	0.303	0.286	0.272	0.292	7.32
66) C	1,1,2-trichloroethane	0.409	0.403	0.414	0.304	0.295	0.318	0.300	0.275	0.340	17.17
67) I	chlorobenzene-D5	-----ISTD-----									
68) C	toluene	8.316	7.900	7.989	5.964	6.006	6.494	6.425	6.012	6.888	14.56
69) s	toluene-D8	5.676	5.641	5.723	5.732	5.821	5.971	6.523	7.021	6.013	8.27
70)	2-methylthiophene	6.598	6.538	6.754	6.478	6.464	5.615	5.608	5.485	6.192	8.48
71)	1,3-dichloropropane	3.439	3.468	3.517	2.602	2.601	2.776	2.758	2.715	2.985	13.78
72)	2-hexanone	2.768	3.384	3.748	2.979	3.029	3.319	3.322	3.250	3.225	9.27

Initial Calibration Summary

Form 6

Air Volatiles

Client : Envirotrac Ltd.
 Project Name : FROST ST 001
 Instrument ID : AIRLAB15
 Calibration dates : 10/07/24 14:37

Lab Number : L2459547
 Project Number :
 Ical Ref : ICAL21580

10/07/24 19:05

Calibration Files

0.2 =r1550426.D 0.5 =r1550427.D 1.0 =r1550428.D 5.0 =r1550429.D 10 =r1550430.D 20 =r1550431.D
 50 =r1550432.D 100 =r1550433.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
73)	3-methylthiophene	6.830	6.856	7.155	6.814	6.880	5.905	5.888	5.487	6.477	9.51
74)	dibromochloromethane	2.853	2.830	2.902	2.382	2.461	2.722	2.742	2.600	2.686	7.04
75) C	1,2-dibromoethane	3.426	3.373	3.536	2.666	2.651	2.927	2.999	2.939	3.065	11.15
76)	butyl acetate		0.632	0.753	0.642	0.659	0.731	0.755	0.778	0.707	8.59
77)	octane	3.172	3.080	3.048	2.287	2.246	2.395	2.326	2.215	2.596	16.25
78) C	tetrachloroethene	3.299	3.254	3.348	2.472	2.473	2.616	2.631	2.486	2.822	14.22
79)	1,1,1,2-tetrachloroethane	2.557	2.548	2.541	1.984	2.003	2.194	2.109	1.931	2.233	12.23
80) C	chlorobenzene	6.535	6.278	6.227	4.629	4.623	5.002	4.806	4.492	5.324	16.24
81) C	ethylbenzene	0.988	0.990	1.024	0.774	0.784	0.842	0.830	0.768	0.875	12.32
82)	2-ethylthiophene	7.575	7.798	8.070	7.745	7.765	6.585	6.504	6.111	7.269	10.24
83) C	m+p-xylene	8.195	8.155	8.364	6.239	6.234	6.683	6.345	5.643	6.982	15.46
84) C	bromoform	2.285	2.373	2.528	2.075	2.214	2.523	2.514	2.427	2.368	6.97
85) C	styrene	5.543	5.676	6.133	4.750	4.847	5.344	5.373	5.325	5.374	8.22
86) C	1,1,2,2-tetrachloroethane	6.144	6.129	6.180	4.550	4.526	4.795	4.336	3.700	5.045	19.19
87) C	o-xylene	8.277	8.401	8.506	6.317	6.262	6.657	6.098	5.197	6.964	18.04
88)	1,2,3-trichloropropane	4.598	4.465	4.588	3.377	3.360	3.561	3.486	3.408	3.855	15.05
89)	nonane	6.291	6.493	6.539	4.905	4.848	5.065	4.784	4.505	5.429	15.76
90) s	bromofluorobenzene	3.810	3.946	4.110	4.069	4.115	4.223	4.615	4.895	4.223	8.49
91) C	isopropylbenzene	1.062	1.057	1.064	0.799	0.795	0.843	0.822	0.770	0.902	14.81
92)	bromobenzene	6.076	5.917	6.059	4.377	4.367	4.639	4.518	4.301	5.032	16.37
93)	2-chlorotoluene	2.877	2.842	3.056	2.329	2.328	2.520	2.537	2.397	2.611	10.66
94)	n-propylbenzene	3.408	3.502	3.615	2.726	2.730	2.963	2.885	2.634	3.058	12.77
95)	4-chlorotoluene	2.879	3.047	3.220	2.342	2.359	2.542	2.533	2.435	2.670	12.53
96)	4-ethyl toluene	1.009	1.041	1.089	0.814	0.810	0.894	0.864	0.809	0.916	12.41
97)	1,3,5-trimethylbenzene	1.095	1.077	1.092	0.805	0.791	0.836	0.823	0.774	0.912	16.16
98)	tert-butylbenzene	0.974	1.013	1.051	0.775	0.753	0.769	0.689	0.566	0.824	20.79
99)	1,2,4-trimethylbenzene	9.152	9.406	9.754	7.070	7.073	7.387	6.681	5.605	7.766	19.17
100)	decane	8.280	8.390	8.668	6.446	6.417	6.682	6.057	5.212	7.019	18.01
101) C	Benzyl Chloride	4.171	4.298	4.750	4.106	4.435	5.065	5.115	4.813	4.594	8.61
102)	1,3-dichlorobenzene	5.874	6.116	6.342	4.694	4.791	5.173	5.136	4.756	5.360	12.25
103) C	1,4-dichlorobenzene	6.051	6.293	6.318	4.693	4.805	5.117	5.048	4.687	5.377	13.38
104)	sec-butylbenzene	1.323	1.358	1.382	1.026	1.031	1.084	1.020	0.913	1.142	15.99
105)	1,2,3-trimethylbenzene	7.945	7.702	7.647	5.307	5.635	5.979	5.102	4.005	6.165	23.41
106)	p-isopropyltoluene	1.048	1.073	1.053	0.752	0.782	0.812	0.702	0.560	0.848	22.35
107)	1,2-dichlorobenzene	5.142	5.340	5.571	4.076	3.844	4.492	3.686	3.829	4.497	16.79
108)	n-butylbenzene	1.002	1.058	1.098	0.824	0.822	0.856	0.816	0.735	0.902	14.69

Initial Calibration Summary

Form 6

Air Volatiles

Client : Envirotrac Ltd.
 Project Name : FROST ST 001
 Instrument ID : AIRLAB15
 Calibration dates : 10/07/24 14:37

10/07/24 19:05

Lab Number : L2459547
 Project Number :
 Ical Ref : ICAL21580

Calibration Files

0.2 =r1550426.D 0.5 =r1550427.D 1.0 =r1550428.D 5.0 =r1550429.D 10 =r1550430.D 20 =r1550431.D
 50 =r1550432.D 100 =r1550433.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
109)	indan	9.177	9.097	9.374	6.896	6.556	7.387	7.086	6.582	7.769	15.82
110)	indene	5.393	5.703	5.957	4.530	4.610	5.053	5.042	4.957	5.156	9.70
111) C	1,2-dibromo-3-chloropr...	1.696	1.890	2.080	1.675	1.732	1.813	1.843	1.837	1.821	7.11
112)	undecane	7.503	8.940	9.533	7.232	7.135	7.143	6.496	5.490	7.434	17.28
113)	1,2,4,5-tetramethylben...	3.484	4.059	4.383	3.957	4.020	3.662	3.837	3.846	3.906	6.93
114)	dodecane	4.316	6.958	8.730	7.433	7.407	6.645	6.176	5.246	6.614	20.79
115) C	1,2,4-trichlorobenzene	2.536	3.476	4.015	3.316	3.613	3.655	3.936	3.701	3.531	13.05
116)	naphthalene	0.652	0.932	1.109	0.931	0.976	0.936	1.009	0.966	0.939	13.85
117)	1,2,3-trichlorobenzene	2.187	3.193	3.633	3.128	3.261	3.059	3.436	3.422	3.165	13.81
118)	benzothiophene		3.655	4.435	5.007	5.288	4.204	4.841	4.983	4.631	12.20
119) C	hexachlorobutadiene	2.989	3.525	4.032	3.143	3.040	2.998	3.066	2.755	3.194	12.57
120)	2-methylnaphthalene			0.331	0.701	0.915	0.610	0.823	0.977	0.726	32.47#
121)	1-methylnaphthalene			0.955	1.594	1.954	1.243	1.631	1.853	1.538	24.53

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2024\10\1007T_I\
Method File : TFS15_241007.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Tue Oct 08 13:55:51 2024
Response Via : Initial Calibration

Calibration Files

0.2 =r1550426.D 0.5 =r1550427.D 1.0 =r1550428.D 5.0 =r1550429.D 10 =r1550430.D 20 =r1550431.D
50 =r1550432.D 100 =r1550433.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD

1) I	bromochloromethane	-----ISTD-----									
2)	chlorodifluoro...	1.836	1.442	1.339	0.958	0.853	0.871	0.804	0.758	1.108	35.03#
3)	propylene	0.886	0.807	0.548	0.509	0.543	0.537	0.497	0.618	25.69	
4)	propane	0.908	0.885	0.627	0.581	0.581	0.525	0.455	0.652	26.98	
5)	dichlorodifluo...	1.575	1.483	1.477	1.105	1.002	1.036	0.957	0.872	1.188	23.33
6) C	chloromethane	0.554	0.523	0.529	0.382	0.367	0.392	0.380	0.374	0.438	18.65
7)	Freon-114	1.534	1.431	1.431	1.039	0.973	1.017	0.940	0.828	1.149	23.60
8) C	methanol			0.262	0.178	0.171	0.175	0.162	0.145	0.182	22.44
9) C	vinyl chloride	0.731	0.740	0.751	0.548	0.537	0.561	0.533	0.487	0.611	17.92
10) C	1,3-butadiene	0.500	0.451	0.461	0.343	0.330	0.347	0.330	0.309	0.384	19.27
11)	butane	1.067	0.990	0.998	0.719	0.710	0.761	0.759	0.755	0.845	17.36
12) C	acetaldehyde		0.252	0.252	0.178	0.167	0.175	0.153	0.134	0.187	24.83
13) C	bromomethane	0.606	0.577	0.602	0.440	0.426	0.443	0.422	0.391	0.488	18.42
14) C	chloroethane	0.397	0.377	0.370	0.271	0.259	0.279	0.270	0.250	0.309	19.69
15)	ethanol			0.399	0.268	0.284	0.270	0.249	0.195	0.277	24.24
16)	dichlorofluoro...	1.829	1.450	1.406	0.989	0.950	1.003	0.882	0.758	1.158	31.46#
17) C	vinyl bromide	0.570	0.582	0.580	0.438	0.423	0.464	0.451	0.421	0.491	14.87
18) C	acrolein		0.244	0.237	0.185	0.186	0.200	0.192	0.183	0.204	12.60
19)	acetone	0.841	0.780	0.780	0.559	0.545	0.587	0.556	0.516	0.645	20.32
20) C	acetonitrile	0.669	0.591	0.610	0.427	0.437	0.467	0.465	0.453	0.515	18.12
21)	trichlorofluor...	1.280	1.148	1.161	0.836	0.813	0.854	0.791	0.790	0.959	20.97
22)	isopropyl alcohol	1.198	1.158	0.889	0.886	0.790	0.982	0.965	0.933	0.975	14.22
23) C	acrylonitrile	0.663	0.715	0.761	0.518	0.527	0.565	0.554	0.517	0.602	16.04
24)	pentane	1.699	1.637	1.664	1.219	1.188	1.273	1.218	1.323	1.403	15.90
25)	ethyl ether	1.518	1.430	1.458	1.219	1.141	1.297	1.181	1.042	1.286	13.16
26) C	1,1-dichloroet...	1.376	1.304	1.326	0.978	0.966	1.040	0.982	0.908	1.110	17.22
27)	tertiary butyl...		1.398	1.473	1.136	1.159	1.298	1.251	1.172	1.270	10.10
28) C	methylene chlo...		1.040	1.023	0.721	0.698	0.746	0.693	0.642	0.795	20.74
29) C	3-chloropropene	1.071	1.029	1.078	0.818	0.813	0.895	0.890	0.889	0.935	11.56
30) C	carbon disulfide	2.292	2.209	2.248	1.750	1.732	1.875	1.790	1.634	1.941	13.64
31)	Freon 113	1.754	1.607	1.615	1.174	1.152	1.229	1.176	1.070	1.347	19.71

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2024\10\1007T_I\
Method File : TFS15_241007.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Tue Oct 08 13:55:51 2024
Response Via : Initial Calibration

Calibration Files

0.2 =r1550426.D 0.5 =r1550427.D 1.0 =r1550428.D 5.0 =r1550429.D 10 =r1550430.D 20 =r1550431.D
50 =r1550432.D 100 =r1550433.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32)	trans-1,2-dich...	1.191	1.219	1.273	0.969	0.966	1.055	1.009	0.938	1.078	12.15
33) C	1,1-dichloroet...	1.774	1.644	1.706	1.256	1.233	1.328	1.272	1.203	1.427	16.67
34) C	MTBE	1.909	1.862	1.909	1.470	1.451	1.577	1.513	1.468	1.645	12.75
35) C	vinyl acetate	1.414	1.418	1.440	1.143	1.180	1.328	1.321	1.307	1.319	8.32
36) C	2-butanone	1.611	1.653	1.280	1.254	1.364	1.331	1.304	1.399	11.67	
37)	cis-1,2-dichlo...	1.225	1.226	1.254	0.957	0.945	1.019	0.973	0.896	1.062	13.88
38)	Ethyl Acetate	0.299	0.326	0.251	0.241	0.268	0.253	0.225	0.266	13.20	
39) C	chloroform	1.746	1.649	1.678	1.197	1.164	1.226	1.107	0.967	1.342	22.40
40)	Tetrahydrofuran	0.947	0.997	0.789	0.790	0.869	0.860	0.841	0.870	8.90	
41)	2,2-dichloropr...	1.166	1.126	1.144	0.866	0.847	0.897	0.830	0.762	0.955	17.04
42) C	1,2-dichloroet...	1.174	1.035	1.033	0.755	0.742	0.794	0.717	0.652	0.863	22.01
43) I	1,4-difluorobenzene	-----ISTD-----									
44) C	hexane	0.540	0.544	0.558	0.422	0.414	0.429	0.370	0.300	0.447	20.71
45)	diisopropyl ether	0.286	0.280	0.285	0.217	0.215	0.227	0.201	0.174	0.236	18.17
46)	tert-butyl eth...	0.904	0.907	0.963	0.741	0.727	0.761	0.692	0.615	0.789	15.45
47) s	1,2-dichloroet...	0.252	0.248	0.251	0.253	0.251	0.250	0.234	0.228	0.246	3.86
48) C	1,1,1-trichlor...	0.490	0.451	0.449	0.344	0.343	0.361	0.346	0.323	0.388	16.53
49)	1,1-dichloropr...	0.410	0.407	0.413	0.324	0.322	0.339	0.315	0.296	0.353	13.73
50) C	benzene	1.070	1.044	1.052	0.796	0.773	0.820	0.757	0.699	0.876	17.38
51)	thiophene	0.744	0.727	0.753	0.718	0.705	0.596	0.539	0.477	0.657	16.02
52) C	carbon tetrach...	0.396	0.391	0.392	0.302	0.300	0.319	0.286	0.259	0.331	16.46
53)	cyclohexane	0.574	0.568	0.583	0.450	0.444	0.464	0.420	0.372	0.484	16.48
54)	tert-amyl meth...	0.762	0.741	0.771	0.605	0.602	0.640	0.606	0.577	0.663	12.21
55)	dibromomethane	0.332	0.318	0.322	0.243	0.238	0.253	0.232	0.205	0.268	18.13
56) C	1,2-dichloropr...	0.414	0.392	0.399	0.296	0.292	0.310	0.290	0.262	0.332	17.95
57)	bromodichlorom...	0.491	0.487	0.499	0.389	0.385	0.410	0.368	0.329	0.420	15.33
58) C	1,4-dioxane	0.203	0.218	0.227	0.181	0.181	0.191	0.177	0.156	0.192	12.11
59) C	trichloroethene	0.443	0.429	0.431	0.331	0.325	0.344	0.322	0.285	0.364	16.80
60) C	2,2,4-trimethy...	1.805	1.840	1.880	1.424	1.390	1.444	1.242	1.042	1.508	20.21
61)	methyl methacr...	0.294	0.332	0.266	0.269	0.299	0.285	0.274	0.289	7.88	
62)	heptane	0.583	0.590	0.608	0.469	0.460	0.485	0.446	0.415	0.507	14.79

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2024\10\1007T_I\
Method File : TFS15_241007.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Tue Oct 08 13:55:51 2024
Response Via : Initial Calibration

Calibration Files

0.2 =r1550426.D 0.5 =r1550427.D 1.0 =r1550428.D 5.0 =r1550429.D 10 =r1550430.D 20 =r1550431.D
50 =r1550432.D 100 =r1550433.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63) C	cis-1,3-dichlo...	0.416	0.407	0.452	0.356	0.363	0.393	0.374	0.350	0.389	9.00
64) C	4-methyl-2-pen...	0.591	0.650	0.526	0.523	0.558	0.520	0.487	0.551		9.96
65)	trans-1,3-dich...	0.295	0.308	0.330	0.267	0.274	0.303	0.286	0.272	0.292	7.32
66) C	1,1,2-trichlor...	0.409	0.403	0.414	0.304	0.295	0.318	0.300	0.275	0.340	17.17
67) I	chlorobenzene-D5	-----ISTD-----									
68) C	toluene	8.316	7.900	7.989	5.964	6.006	6.494	6.425	6.012	6.888	14.56
69) s	toluene-D8	5.676	5.641	5.723	5.732	5.821	5.971	6.523	7.021	6.013	8.27
70)	2-methylthiophene	6.598	6.538	6.754	6.478	6.464	5.615	5.608	5.485	6.192	8.48
71)	1,3-dichloropr...	3.439	3.468	3.517	2.602	2.601	2.776	2.758	2.715	2.985	13.78
72)	2-hexanone	2.768	3.384	3.748	2.979	3.029	3.319	3.322	3.250	3.225	9.27
73)	3-methylthiophene	6.830	6.856	7.155	6.814	6.880	5.905	5.888	5.487	6.477	9.51
74)	dibromochlorom...	2.853	2.830	2.902	2.382	2.461	2.722	2.742	2.600	2.686	7.04
75) C	1,2-dibromoethane	3.426	3.373	3.536	2.666	2.651	2.927	2.999	2.939	3.065	11.15
76)	butyl acetate	0.632	0.753	0.642	0.659	0.731	0.755	0.778	0.707		8.59
77)	octane	3.172	3.080	3.048	2.287	2.246	2.395	2.326	2.215	2.596	16.25
78) C	tetrachloroethene	3.299	3.254	3.348	2.472	2.473	2.616	2.631	2.486	2.822	14.22
79)	1,1,1,2-tetrac...	2.557	2.548	2.541	1.984	2.003	2.194	2.109	1.931	2.233	12.23
80) C	chlorobenzene	6.535	6.278	6.227	4.629	4.623	5.002	4.806	4.492	5.324	16.24
81) C	ethylbenzene	0.988	0.990	1.024	0.774	0.784	0.842	0.830	0.768	0.875	12.32
82)	2-ethylthiophene	7.575	7.798	8.070	7.745	7.765	6.585	6.504	6.111	7.269	10.24
83) C	m+p-xylene	8.195	8.155	8.364	6.239	6.234	6.683	6.345	5.643	6.982	15.46
84) C	bromoform	2.285	2.373	2.528	2.075	2.214	2.523	2.514	2.427	2.368	6.97
85) C	styrene	5.543	5.676	6.133	4.750	4.847	5.344	5.373	5.325	5.374	8.22
86) C	1,1,2,2-tetrac...	6.144	6.129	6.180	4.550	4.526	4.795	4.336	3.700	5.045	19.19
87) C	o-xylene	8.277	8.401	8.506	6.317	6.262	6.657	6.098	5.197	6.964	18.04
88)	1,2,3-trichlor...	4.598	4.465	4.588	3.377	3.360	3.561	3.486	3.408	3.855	15.05
89)	nonane	6.291	6.493	6.539	4.905	4.848	5.065	4.784	4.505	5.429	15.76
90) s	bromofluoroben...	3.810	3.946	4.110	4.069	4.115	4.223	4.615	4.895	4.223	8.49
91) C	isopropylbenzene	1.062	1.057	1.064	0.799	0.795	0.843	0.822	0.770	0.902	14.81
92)	bromobenzene	6.076	5.917	6.059	4.377	4.367	4.639	4.518	4.301	5.032	16.37
93)	2-chlorotoluene	2.877	2.842	3.056	2.329	2.328	2.520	2.537	2.397	2.611	10.66

Response Factor Report

Method Path : O:\Forensics\Data\AirLab15\2024\10\1007T_I\
Method File : TFS15_241007.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Tue Oct 08 13:55:51 2024
Response Via : Initial Calibration

Calibration Files

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50 =r1550432.D 100 =r1550433.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94)	n-propylbenzene	3.408	3.502	3.615	2.726	2.730	2.963	2.885	2.634	3.058	12.77
95)	4-chlorotoluene	2.879	3.047	3.220	2.342	2.359	2.542	2.533	2.435	2.670	12.53
96)	4-ethyl toluene	1.009	1.041	1.089	0.814	0.810	0.894	0.864	0.809	0.916	12.41
97)	1,3,5-trimethy...	1.095	1.077	1.092	0.805	0.791	0.836	0.823	0.774	0.912	16.16
98)	tert-butylbenzene	0.974	1.013	1.051	0.775	0.753	0.769	0.689	0.566	0.824	20.79
99)	1,2,4-trimethy...	9.152	9.406	9.754	7.070	7.073	7.387	6.681	5.605	7.766	19.17
100)	decane	8.280	8.390	8.668	6.446	6.417	6.682	6.057	5.212	7.019	18.01
101) C	Benzyl Chloride	4.171	4.298	4.750	4.106	4.435	5.065	5.115	4.813	4.594	8.61
102)	1,3-dichlorobe...	5.874	6.116	6.342	4.694	4.791	5.173	5.136	4.756	5.360	12.25
103) C	1,4-dichlorobe...	6.051	6.293	6.318	4.693	4.805	5.117	5.048	4.687	5.377	13.38
104)	sec-butylbenzene	1.323	1.358	1.382	1.026	1.031	1.084	1.020	0.913	1.142	15.99
105)	1,2,3-trimethy...	7.945	7.702	7.647	5.307	5.635	5.979	5.102	4.005	6.165	23.41
106)	p-isopropyltol...	1.048	1.073	1.053	0.752	0.782	0.812	0.702	0.560	0.848	22.35
107)	1,2-dichlorobe...	5.142	5.340	5.571	4.076	3.844	4.492	3.686	3.829	4.497	16.79
108)	n-butylbenzene	1.002	1.058	1.098	0.824	0.822	0.856	0.816	0.735	0.902	14.69
109)	indan	9.177	9.097	9.374	6.896	6.556	7.387	7.086	6.582	7.769	15.82
110)	indene	5.393	5.703	5.957	4.530	4.610	5.053	5.042	4.957	5.156	9.70
111) C	1,2-dibromo-3-...	1.696	1.890	2.080	1.675	1.732	1.813	1.843	1.837	1.821	7.11
112)	undecane	7.503	8.940	9.533	7.232	7.135	7.143	6.496	5.490	7.434	17.28
113)	1,2,4,5-tetram...	3.484	4.059	4.383	3.957	4.020	3.662	3.837	3.846	3.906	6.93
114)	dodecane	4.316	6.958	8.730	7.433	7.407	6.645	6.176	5.246	6.614	20.79
115) C	1,2,4-trichlor...	2.536	3.476	4.015	3.316	3.613	3.655	3.936	3.701	3.531	13.05
116)	naphthalene	0.652	0.932	1.109	0.931	0.976	0.936	1.009	0.966	0.939	13.85
117)	1,2,3-trichlor...	2.187	3.193	3.633	3.128	3.261	3.059	3.436	3.422	3.165	13.81
118)	benzothiophene		3.655	4.435	5.007	5.288	4.204	4.841	4.983	4.631	12.20
119) C	hexachlorobuta...	2.989	3.525	4.032	3.143	3.040	2.998	3.066	2.755	3.194	12.57
120)	2-methylnaphth...			0.331	0.701	0.915	0.610	0.823	0.977	0.726	32.47#
121)	1-methylnaphth...			0.955	1.594	1.954	1.243	1.631	1.853	1.538	24.53

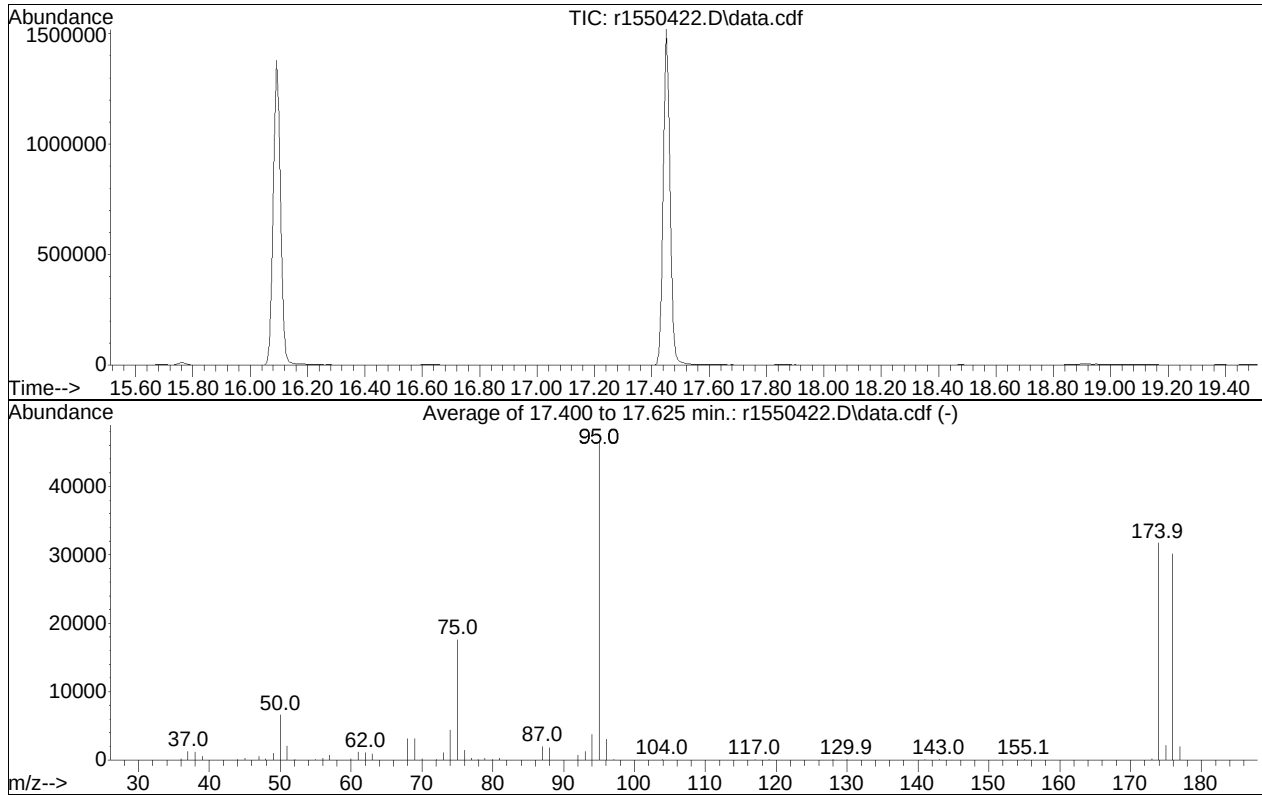
(#) = Out of Range

BFB

Data Path : 0:\Forensics\Data\AirLab15\2024\10\1007T_I\
 Data File : r1550422.D
 Acq On : 7 Oct 2024 12:15 PM
 Operator : AIRLAB15:JMB
 Sample : WG1982090-1,3,250,250
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\AirLab15\2024\10\1007T_I\TFS15_241007.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Tue Oct 08 13:55:51 2024



Spectrum Information: Average of 17.400 to 17.625 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.1	6589	PASS
75	95	30	66	37.7	17584	PASS
95	95	100	100	100.0	46688	PASS
96	95	5	9	6.5	3047	PASS
173	174	0.00	2	0.6	180	PASS
174	95	50	120	67.9	31719	PASS
175	174	4	9	7.0	2206	PASS
176	174	93	101	95.0	30147	PASS
177	176	5	9	6.4	1943	PASS

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550426.D
 Acq On : 7 Oct 2024 2:37 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD0.2
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:19 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.192	49	356137	10.000	ppbV	0.00
Standard Area = 372739			Recovery =	95.55%		
43) 1,4-difluorobenzene	11.420	114	1067721	10.000	ppbV	0.00
Standard Area = 1100343			Recovery =	97.04%		
67) chlorobenzene-D5	16.100	54	172655	10.000	ppbV	0.00
Standard Area = 174527			Recovery =	98.93%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.058	65	269172	10.027	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.27%		
69) toluene-D8	14.250	98	979939	9.751	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.51%		
90) bromofluorobenzene	17.450	95	657773	9.259	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	92.59%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.946	51	13077	0.431	ppbV	98
3) propylene	3.976	41	8796M6	0.485	ppbV	
4) propane	4.000	29	6998M4	0.338	ppbV	
5) dichlorodifluoromethane	4.054	85	11217	0.314	ppbV	95
6) chloromethane	4.222	50	3943	0.302	ppbV	94
7) Freon-114	4.330	85	10925	0.315	ppbV	97
8) methanol	4.402	31	10744	1.769	ppbV #	1
9) vinyl chloride	4.450	62	5206	0.272	ppbV	93
10) 1,3-butadiene	4.600	54	3558	0.303	ppbV	99
11) butane	4.654	43	7597	0.300	ppbV	97
12) acetaldehyde	4.354	29	10352	1.738	ppbV	91
13) bromomethane	4.888	94	4316	0.284	ppbV	96
14) chloroethane	5.080	64	2827	0.306	ppbV	98
15) ethanol	5.230	31	17236	1.703	ppbV	98
16) dichlorofluoromethane	5.188	67	13026	0.385	ppbV	93
17) vinyl bromide	5.457	106	4061	0.270	ppbV	90
18) acrolein	5.607	56	1934	0.293	ppbV #	63
19) acetone	5.753	43	29958	1.545	ppbV #	94
20) acetonitrile	5.457	41	4763M4	0.306	ppbV	
21) trichlorofluoromethane	5.920	101	9116	0.315	ppbV	94
22) isopropyl alcohol	6.050	45	21331	0.758	ppbV	98
23) acrylonitrile	6.260	53	4722	0.252	ppbV	90
24) pentane	6.327	43	12102	0.286	ppbV #	93

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550426.D
 Acq On : 7 Oct 2024 2:37 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD0.2
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:19 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.370	31	10812	0.266	ppbV	98
26) 1,1-dichloroethene	6.630	61	9799	0.285	ppbV	94
27) tertiary butyl alcohol	6.738	59	10476	0.254	ppbV	95
28) methylene chloride	6.774	49	8110	0.326	ppbV	96
29) 3-chloropropene	6.906	41	7627	0.263	ppbV	96
30) carbon disulfide	7.080	76	16327	0.265	ppbV #	85
31) Freon 113	7.074	101	12493	0.305	ppbV	98
32) trans-1,2-dichloroethene	7.825	61	8486	0.247	ppbV	92
33) 1,1-dichloroethane	8.050	63	12635	0.288	ppbV	94
34) MTBE	8.150	73	13597	0.263	ppbV	94
35) vinyl acetate	8.250	43	10071	0.240	ppbV	95
36) 2-butanone	8.533	43	11512	0.258	ppbV	99
37) cis-1,2-dichloroethene	9.008	61	8724	0.259	ppbV	99
38) Ethyl Acetate	9.300	61	1893	0.220	ppbV	68
39) chloroform	9.342	83	12434	0.300	ppbV	96
40) Tetrahydrofuran	9.825	42	7104	0.252	ppbV	96
41) 2,2-dichloropropane	9.367	77	8302	0.275	ppbV	91
42) 1,2-dichloroethane	10.183	62	8364	0.317	ppbV #	95
44) hexane	9.258	57	11542	0.261	ppbV #	55
45) diisopropyl ether	9.267	87	6104	0.266	ppbV	83
46) tert-butyl ethyl ether	9.892	59	19303	0.249	ppbV	96
48) 1,1,1-trichloroethane	10.475	97	10468	0.286	ppbV	99
49) 1,1-dichloropropene	10.840	75	8762	0.255	ppbV	98
50) benzene	11.000	78	22855	0.277	ppbV	100
51) thiophene	11.153	84	15883	0.211	ppbV	95
52) carbon tetrachloride	11.173	117	8460	0.264	ppbV	98
53) cyclohexane	11.320	56	12254	0.259	ppbV	94
54) tert-amyl methyl ether	11.713	73	16276	0.253	ppbV	99
55) dibromomethane	11.920	93	7085	0.278	ppbV	93
56) 1,2-dichloropropane	11.953	63	8834	0.284	ppbV	96
57) bromodichloromethane	12.173	83	10495	0.256	ppbV	98
58) 1,4-dioxane	12.260	88	4330	0.224	ppbV #	62
59) trichloroethene	12.227	130	9468	0.273	ppbV	98
60) 2,2,4-trimethylpentane	12.273	57	38549	0.260	ppbV	98
61) methyl methacrylate	12.480	41	5837	0.203	ppbV	96
62) heptane	12.587	43	12456	0.253	ppbV	97
63) cis-1,3-dichloropropene	13.242	75	8883	0.229	ppbV	95
64) 4-methyl-2-pentanone	13.308	43	11786	0.211	ppbV	98
65) trans-1,3-dichloropropene	13.875	75	6299	0.215	ppbV	96
66) 1,1,2-trichloroethane	14.058	97	8733	0.277	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550426.D
 Acq On : 7 Oct 2024 2:37 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD0.2
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:19 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	toluene	14.358	91	28717	0.277	ppbV	97
70)	2-methylthiophene	14.425	97	22783	0.204	ppbV	94
71)	1,3-dichloropropane	14.392	76	11876	0.264	ppbV	99
72)	2-hexanone	14.683	43	9557	0.183	ppbV #	85
73)	3-methylthiophene	14.617	97	23585	0.199	ppbV	94
74)	dibromochloromethane	14.800	129	9852	0.232	ppbV	98
75)	1,2-dibromoethane	15.050	107	11832	0.258	ppbV	97
76)	butyl acetate	15.300	73	2206	0.194	ppbV	83
77)	octane	15.367	85	10952	0.282	ppbV	85
78)	tetrachloroethene	15.492	166	11391	0.267	ppbV	96
79)	1,1,1,2-tetrachloroethane	16.117	131	8829	0.255	ppbV	96
80)	chlorobenzene	16.133	112	22566	0.283	ppbV	98
81)	ethylbenzene	16.483	91	34103	0.252	ppbV	98
82)	2-ethylthiophene	16.525	97	26158	0.195	ppbV	98
83)	m+p-xylene	16.642	91	56596	0.526	ppbV	99
84)	bromoform	16.717	173	7891	0.206	ppbV	92
85)	styrene	16.967	104	19139	0.229	ppbV	98
86)	1,1,2,2-tetrachloroethane	17.058	83	21215	0.271	ppbV	98
87)	o-xylene	17.058	91	28582	0.264	ppbV	96
88)	1,2,3-trichloropropane	17.175	75	15876	0.274	ppbV	97
89)	nonane	17.250	43	21725	0.260	ppbV	94
91)	isopropylbenzene	17.567	105	36656	0.267	ppbV	98
92)	bromobenzene	17.650	77	20980	0.278	ppbV	100
93)	2-chlorotoluene	17.975	126	9935	0.247	ppbV	92
94)	n-propylbenzene	18.000	120	11769	0.250	ppbV	95
95)	4-chlorotoluene	18.033	126	9941	0.244	ppbV	78
96)	4-ethyl toluene	18.125	105	34830	0.249	ppbV #	98
97)	1,3,5-trimethylbenzene	18.183	105	37812	0.277	ppbV	98
98)	tert-butylbenzene	18.525	119	33627	0.258	ppbV	98
99)	1,2,4-trimethylbenzene	18.525	105	31604	0.259	ppbV	94
100)	decane	18.600	57	28591	0.258	ppbV	94
101)	Benzyl Chloride	18.650	91	14404	0.188	ppbV	96
102)	1,3-dichlorobenzene	18.658	146	20282	0.245	ppbV	98
103)	1,4-dichlorobenzene	18.717	146	20896	0.252	ppbV	95
104)	sec-butylbenzene	18.750	105	45678	0.257	ppbV	98
105)	1,2,3-trimethylbenzene	18.883	105	27436	0.282	ppbV	97
106)	p-isopropyltoluene	18.875	119	36187	0.268	ppbV	97
107)	1,2-dichlorobenzene	19.008	146	17757	0.268	ppbV	97
108)	n-butylbenzene	19.225	91	34612	0.244	ppbV	95
109)	indan	19.050	117	31690	0.280	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550426.D
 Acq On : 7 Oct 2024 2:37 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD0.2
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:19 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

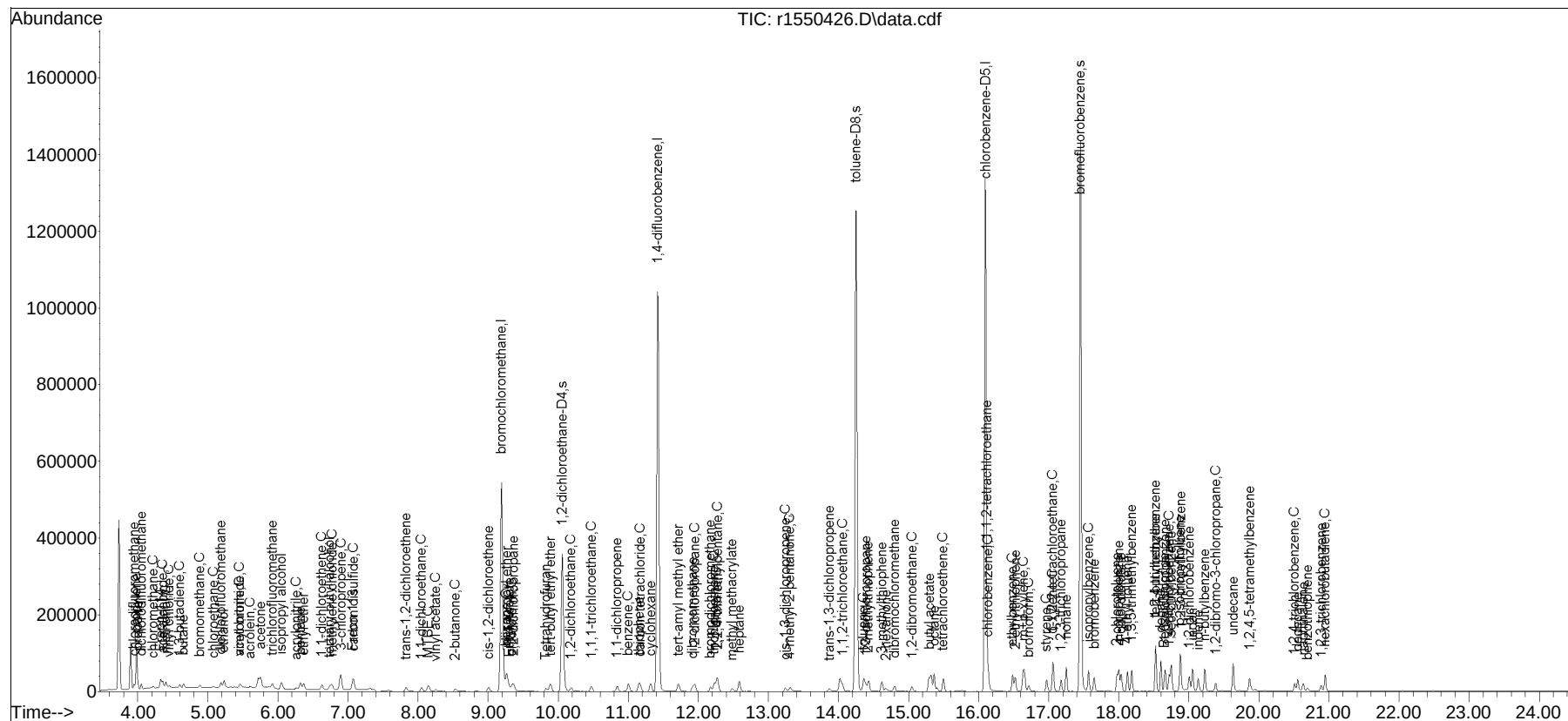
CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
110)	indene	19.133	115	18622	0.234	ppbV		97
111)	1,2-dibromo-3-chloropr...	19.383	75	5858	0.196	ppbV #		88
112)	undecane	19.633	57	25908	0.210	ppbV		96
113)	1,2,4,5-tetramethylben...	19.867	119	12030	0.173	ppbV #		97
114)	dodecane	20.550	57	14905	0.117	ppbV		96
115)	1,2,4-trichlorobenzene	20.508	180	8758	0.140	ppbV		94
116)	naphthalene	20.633	128	22510	0.134	ppbV		97
117)	1,2,3-trichlorobenzene	20.892	180	7553	0.134	ppbV		98
118)	benzothiophene	20.692	134	7830	0.086	ppbV #		90
119)	hexachlorobutadiene	20.942	225	10321	0.197	ppbV		96
120)	2-methylnaphthalene	0.000		0	N.D.			
121)	1-methylnaphthalene	22.050		0	N.D.			

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

```
Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
Data File : r1550426.D
Acq On    : 7 Oct 2024    2:37 PM
Operator  : AIRLAB15:JMB
Sample    : IT015-SIMSTD0.2
Misc      : WG1982090
ALS Vial  : 0    Sample Multiplier: 1
```

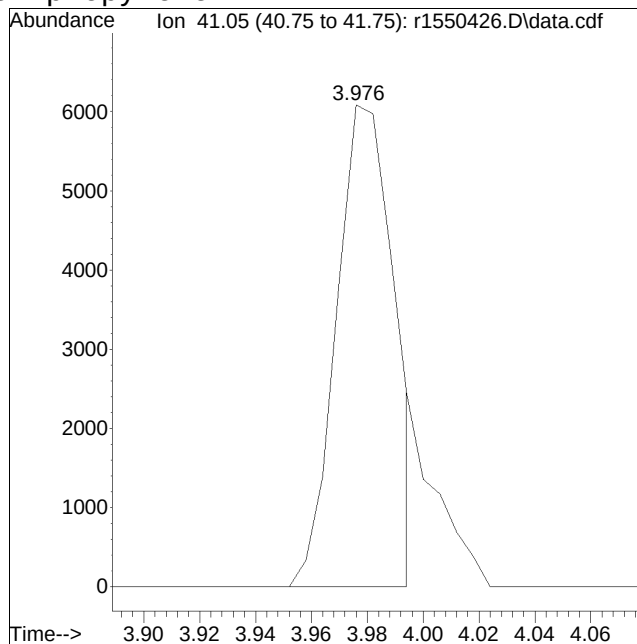
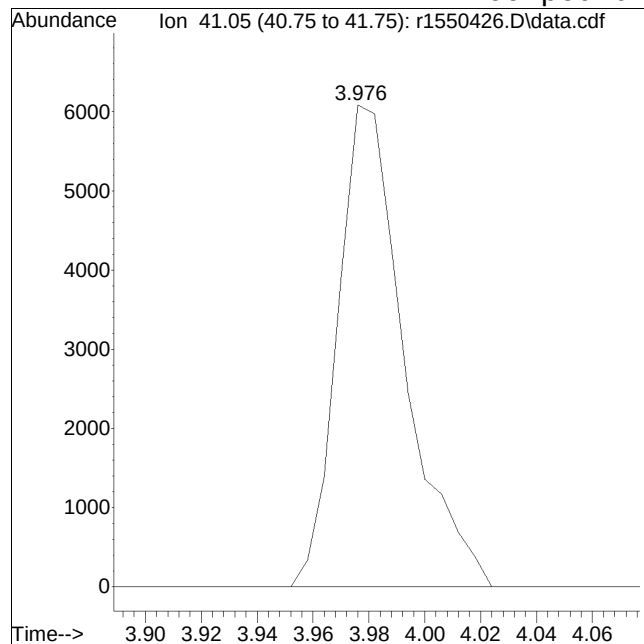
Quant Time: Oct 08 10:34:19 2024
Quant Method : 0:\Forensics\Data\AirLab15\2024\10\1007T_I\TFS15_241007.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Oct 08 10:34:01 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_241007.M
Data File : r1550426.D Operator : AIRLAB15:JMB
Date Inj'd : 10/7/2024 2:37 PM Instrument :
Sample : IT015-SIMSTD0.2 Quant Date : 10/8/2024 10:34 am

Compound #3: propylene

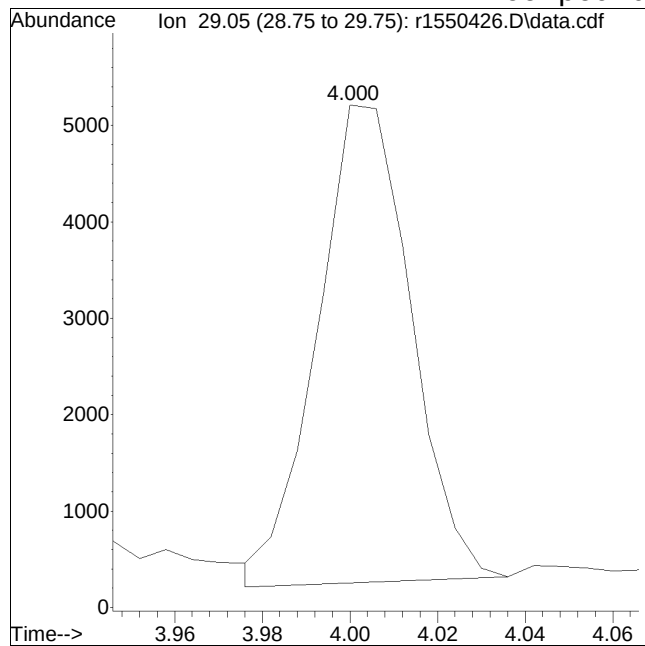


M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

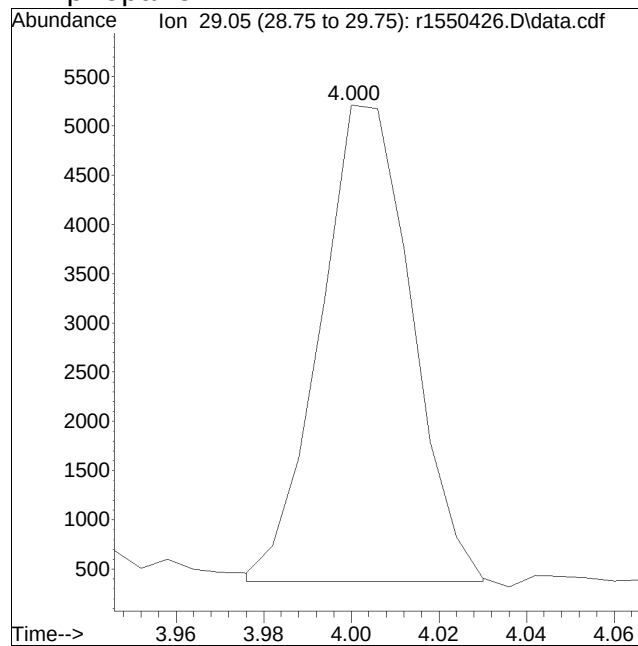
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_241007.M
Data File : r1550426.D Operator : AIRLAB15:JMB
Date Inj'd : 10/7/2024 2:37 PM Instrument :
Sample : IT015-SIMSTD0.2 Quant Date : 10/8/2024 10:34 am

Compound #4: propane



Original Peak Response = 7367

M4 = Poor automated baseline construction.

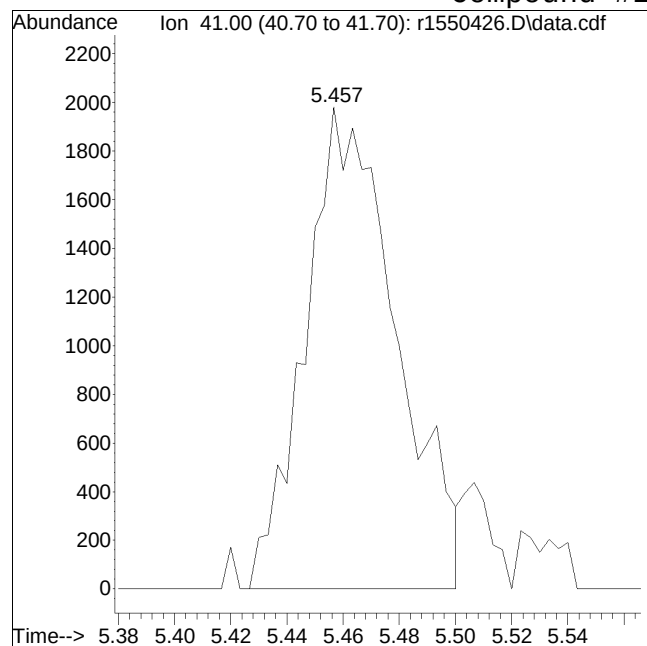


Manual Peak Response = 6998 M4

Manual Integration Report

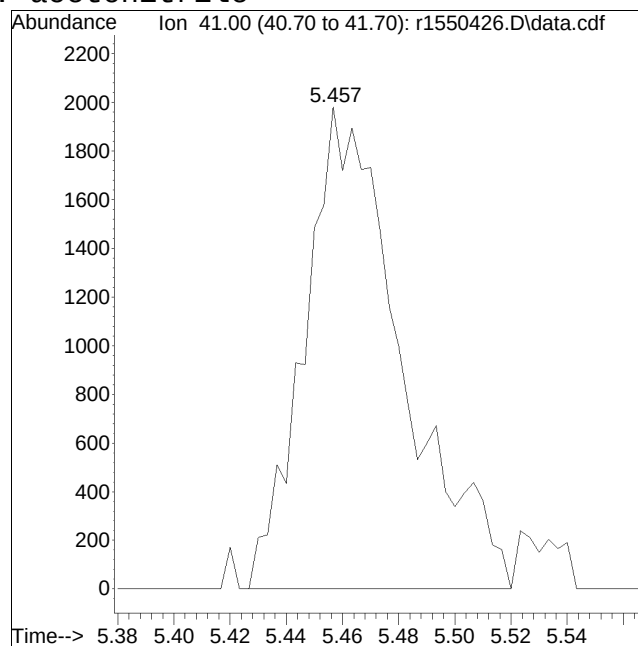
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_241007.M
Data File : r1550426.D Operator : AIRLAB15:JMB
Date Inj'd : 10/7/2024 2:37 PM Instrument :
Sample : IT015-SIMSTD0.2 Quant Date : 10/8/2024 10:34 am

Compound #20: acetonitrile



Original Peak Response = 4455

M4 = Poor automated baseline construction.



Manual Peak Response = 4763 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550427.D
 Acq On : 7 Oct 2024 3:15 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD0.5
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:25 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.192	49	362772	10.000	ppbV	0.00
Standard Area = 372739			Recovery =		97.33%	
43) 1,4-difluorobenzene	11.420	114	1078658	10.000	ppbV	0.00
Standard Area = 1100343			Recovery =		98.03%	
67) chlorobenzene-D5	16.100	54	173185	10.000	ppbV	0.00
Standard Area = 174527			Recovery =		99.23%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.058	65	268014	9.883	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		98.83%	
69) toluene-D8	14.250	98	976891	9.691	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		96.91%	
90) bromofluorobenzene	17.458	95	683394	9.590	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		95.90%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.946	51	26157	0.845	ppbV	99
3) propylene	3.982	41	16066M6	0.870	ppbV	
4) propane	4.006	29	16473	0.781	ppbV	97
5) dichlorodifluoromethane	4.048	85	26891	0.740	ppbV	98
6) chloromethane	4.216	50	9489	0.713	ppbV	97
7) Freon-114	4.324	85	25957	0.736	ppbV	97
8) methanol	4.402	31	24066	3.890	ppbV #	52
9) vinyl chloride	4.450	62	13422	0.689	ppbV	96
10) 1,3-butadiene	4.600	54	8182	0.684	ppbV	95
11) butane	4.654	43	17963	0.697	ppbV	100
12) acetaldehyde	4.354	29	22851	3.766	ppbV	95
13) bromomethane	4.882	94	10463	0.676	ppbV	92
14) chloroethane	5.080	64	6831	0.726	ppbV	98
15) ethanol	5.230	31	33344	3.235	ppbV	96
16) dichlorofluoromethane	5.188	67	26310	0.763	ppbV	99
17) vinyl bromide	5.457	106	10564	0.689	ppbV	90
18) acrolein	5.597	56	4424	0.657	ppbV #	87
19) acetone	5.747	43	70734	3.580	ppbV	99
20) acetonitrile	5.460	41	10719	0.677	ppbV	89
21) trichlorofluoromethane	5.923	101	20825	0.706	ppbV	97
22) isopropyl alcohol	6.043	45	52516	1.832	ppbV	99
23) acrylonitrile	6.263	53	12974M4	0.679	ppbV	
24) pentane	6.320	43	29689	0.689	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550427.D
 Acq On : 7 Oct 2024 3:15 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD0.5
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:25 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.363	31	25940	0.627	ppbV	97
26) 1,1-dichloroethene	6.630	61	23661	0.675	ppbV	100
27) tertiary butyl alcohol	6.732	59	25357	0.603	ppbV	97
28) methylene chloride	6.774	49	18858	0.745	ppbV	99
29) 3-chloropropene	6.906	41	18659	0.633	ppbV	95
30) carbon disulfide	7.080	76	40060	0.638	ppbV #	93
31) Freon 113	7.074	101	29150	0.698	ppbV	99
32) trans-1,2-dichloroethene	7.833	61	22111	0.631	ppbV	99
33) 1,1-dichloroethane	8.050	63	29826	0.667	ppbV	99
34) MTBE	8.142	73	33771	0.642	ppbV	98
35) vinyl acetate	8.250	43	25724	0.601	ppbV	97
36) 2-butanone	8.525	43	29222	0.643	ppbV	98
37) cis-1,2-dichloroethene	9.008	61	22236	0.649	ppbV	98
38) Ethyl Acetate	9.292	61	5420	0.619	ppbV	75
39) chloroform	9.342	83	29919	0.709	ppbV	98
40) Tetrahydrofuran	9.817	42	17180M6	0.599	ppbV	
41) 2,2-dichloropropane	9.367	77	20426	0.665	ppbV	94
42) 1,2-dichloroethane	10.183	62	18768	0.698	ppbV	98
44) hexane	9.258	57	29357	0.658	ppbV #	61
45) diisopropyl ether	9.267	87	15088	0.650	ppbV	97
46) tert-butyl ethyl ether	9.883	59	48909	0.624	ppbV	98
48) 1,1,1-trichloroethane	10.475	97	24337	0.658	ppbV	95
49) 1,1-dichloropropene	10.840	75	21962	0.632	ppbV	97
50) benzene	11.000	78	56313	0.676	ppbV	95
51) thiophene	11.153	84	39227	0.516	ppbV	98
52) carbon tetrachloride	11.173	117	21112	0.651	ppbV	99
53) cyclohexane	11.320	56	30624	0.640	ppbV	97
54) tert-amyl methyl ether	11.707	73	39956	0.615	ppbV	97
55) dibromomethane	11.920	93	17130	0.666	ppbV	91
56) 1,2-dichloropropane	11.953	63	21153	0.673	ppbV	97
57) bromodichloromethane	12.173	83	26241	0.633	ppbV	98
58) 1,4-dioxane	12.247	88	11755	0.602	ppbV #	82
59) trichloroethene	12.227	130	23140	0.660	ppbV	95
60) 2,2,4-trimethylpentane	12.273	57	99214	0.662	ppbV	99
61) methyl methacrylate	12.480	41	15870	0.546	ppbV	97
62) heptane	12.587	43	31837	0.641	ppbV	98
63) cis-1,3-dichloropropene	13.242	75	21937	0.560	ppbV	98
64) 4-methyl-2-pentanone	13.300	43	31895	0.566	ppbV	96
65) trans-1,3-dichloropropene	13.867	75	16598	0.561	ppbV	96
66) 1,1,2-trichloroethane	14.050	97	21733	0.684	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550427.D
 Acq On : 7 Oct 2024 3:15 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD0.5
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:25 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.358	91	68404	0.658	ppbV	99
70) 2-methylthiophene	14.425	97	56615	0.506	ppbV	97
71) 1,3-dichloropropane	14.392	76	30028	0.667	ppbV	99
72) 2-hexanone	14.658	43	29305	0.559	ppbV	91
73) 3-methylthiophene	14.617	97	59369	0.498	ppbV	98
74) dibromochloromethane	14.800	129	24507	0.575	ppbV	99
75) 1,2-dibromoethane	15.042	107	29210	0.636	ppbV	98
76) butyl acetate	15.292	73	5469	0.479	ppbV	94
77) octane	15.367	85	26672	0.686	ppbV	97
78) tetrachloroethene	15.492	166	28177	0.658	ppbV	96
79) 1,1,1,2-tetrachloroethane	16.117	131	22065	0.636	ppbV	100
80) chlorobenzene	16.133	112	54363	0.679	ppbV	100
81) ethylbenzene	16.483	91	85748	0.632	ppbV	99
82) 2-ethylthiophene	16.525	97	67523	0.502	ppbV	96
83) m+p-xylene	16.650	91	141235	1.308	ppbV	98
84) bromoform	16.717	173	20551	0.536	ppbV	97
85) styrene	16.967	104	49150	0.586	ppbV	96
86) 1,1,2,2-tetrachloroethane	17.058	83	53070	0.677	ppbV	95
87) o-xylene	17.058	91	72749	0.671	ppbV	96
88) 1,2,3-trichloropropane	17.175	75	38662	0.664	ppbV	97
89) nonane	17.250	43	56228	0.670	ppbV	97
91) isopropylbenzene	17.567	105	91530	0.665	ppbV	99
92) bromobenzene	17.650	77	51237	0.678	ppbV	99
93) 2-chlorotoluene	17.975	126	24612	0.610	ppbV	91
94) n-propylbenzene	18.000	120	30321	0.641	ppbV	94
95) 4-chlorotoluene	18.033	126	26388	0.646	ppbV	94
96) 4-ethyl toluene	18.125	105	90171	0.643	ppbV	97
97) 1,3,5-trimethylbenzene	18.183	105	93253	0.680	ppbV	99
98) tert-butylbenzene	18.525	119	87727	0.672	ppbV	98
99) 1,2,4-trimethylbenzene	18.525	105	81453	0.665	ppbV	96
100) decane	18.600	57	72648	0.654	ppbV	96
101) Benzyl Chloride	18.650	91	37217	0.485	ppbV	94
102) 1,3-dichlorobenzene	18.658	146	52959	0.638	ppbV	98
103) 1,4-dichlorobenzene	18.717	146	54494M4	0.655	ppbV	
104) sec-butylbenzene	18.742	105	117608	0.659	ppbV	96
105) 1,2,3-trimethylbenzene	18.875	105	66692	0.683	ppbV	96
106) p-isopropyltoluene	18.875	119	92872	0.686	ppbV	98
107) 1,2-dichlorobenzene	19.000	146	46241	0.695	ppbV	96
108) n-butylbenzene	19.217	91	91647	0.644	ppbV	99
109) indan	19.050	117	78769	0.694	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550427.D
 Acq On : 7 Oct 2024 3:15 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD0.5
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:25 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

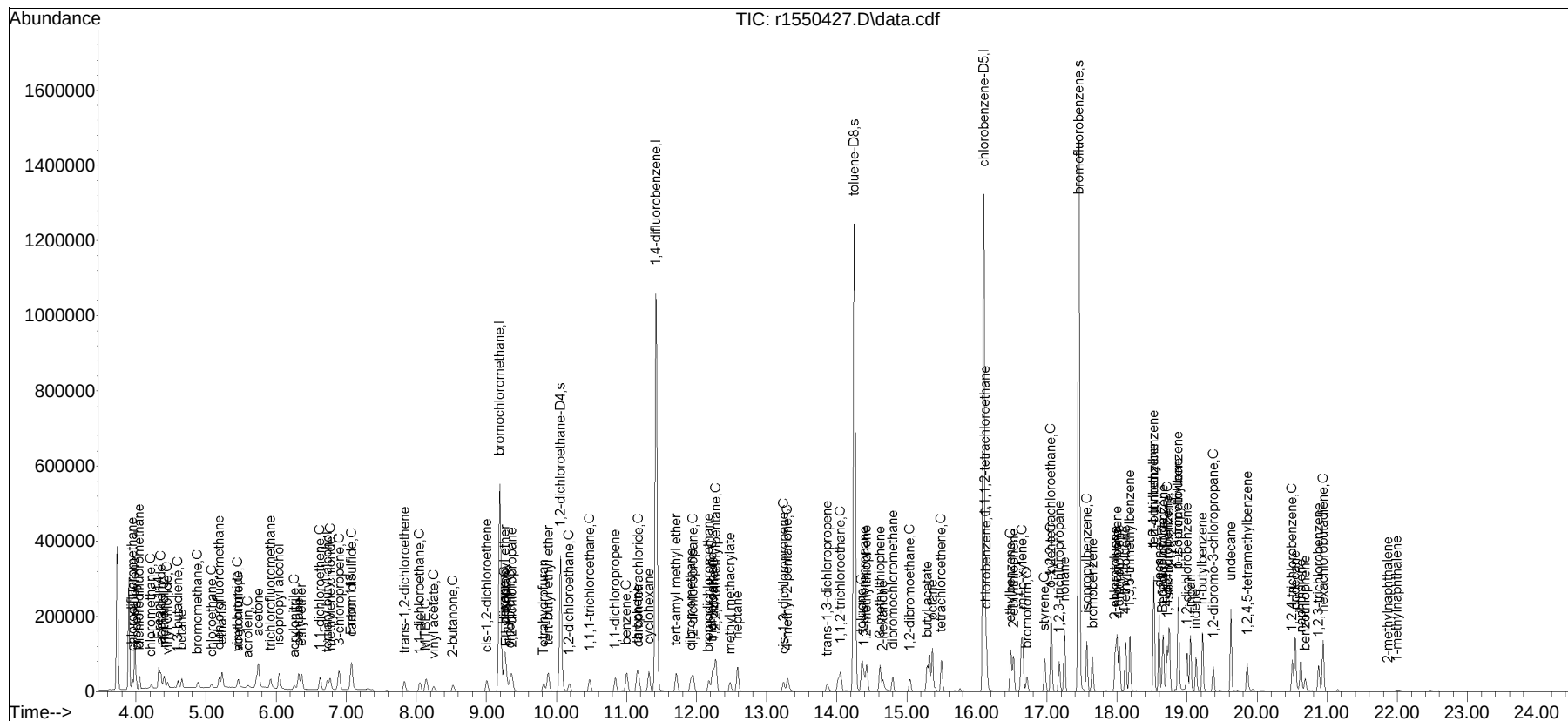
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.125	115	49380	0.618	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.375	75	16366	0.546	ppbV #	93
112) undecane	19.625	57	77410	0.626	ppbV	98
113) 1,2,4,5-tetramethylben...	19.858	119	35147	0.505	ppbV	96
114) dodecane	20.542	57	60255	0.470	ppbV	100
115) 1,2,4-trichlorobenzene	20.500	180	30103	0.481	ppbV	98
116) naphthalene	20.625	128	80734	0.478	ppbV	100
117) 1,2,3-trichlorobenzene	20.875	180	27649	0.490	ppbV	96
118) benzothiophene	20.683	134	31651	0.346	ppbV	98
119) hexachlorobutadiene	20.942	225	30524	0.580	ppbV	97
120) 2-methylnaphthalene	21.867	142	1024	0.065	ppbV #	84
121) 1-methylnaphthalene	21.992	142	5383	0.159	ppbV	92

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

Sub List : Default - All compounds listed4\10\1007T_I\r1550430.D

Data Path : 0:\Forensics\Data\AirLab15\2024\10\1007T_I\
Data File : r1550427.D
Acq On : 7 Oct 2024 3:15 PM
Operator : AIRLAB15:JMB
Sample : IT015-SIMSTD0.5
Misc : WG1982090
ALS Vial : 0 Sample Multiplier: 1

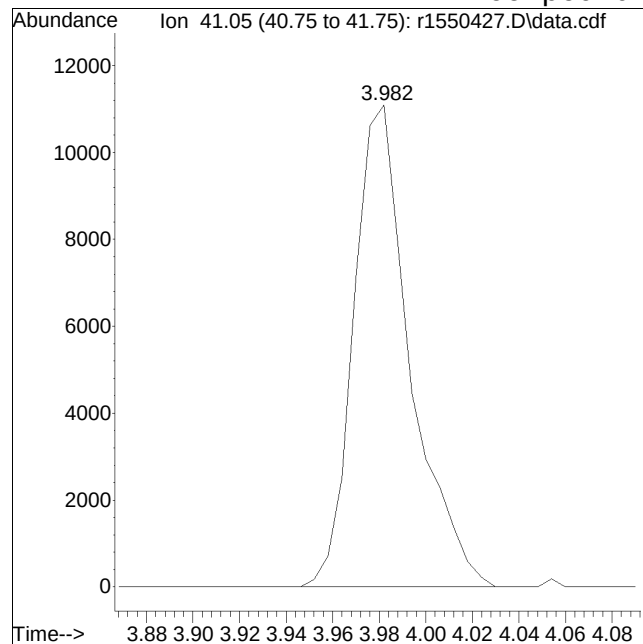
Quant Time: Oct 08 10:34:25 2024
Quant Method : 0:\Forensics\Data\AirLab15\2024\10\1007T_I\TFS15_241007.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Oct 08 10:34:01 2024
Response via : Initial Calibration



Manual Integration Report

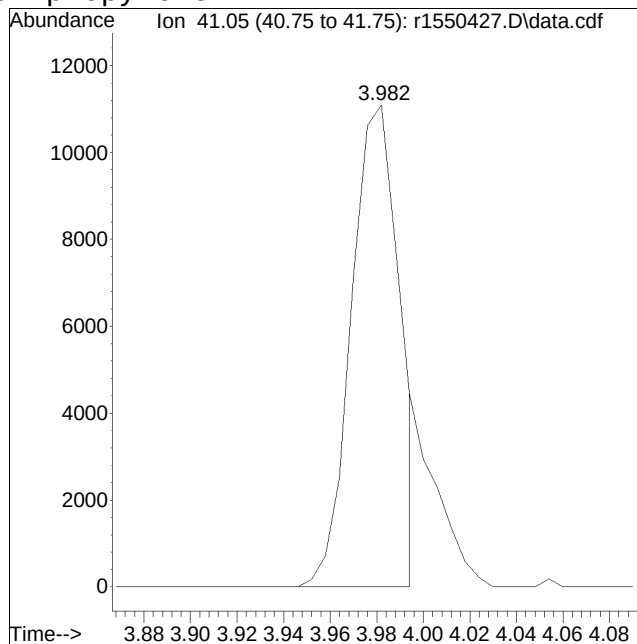
Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_241007.M
Data File : r1550427.D Operator : AIRLAB15:JMB
Date Inj'd : 10/7/2024 3:15 PM Instrument :
Sample : IT015-SIMSTD0.5 Quant Date : 10/8/2024 10:34 am

Compound #3: propylene



Original Peak Response = 18735

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

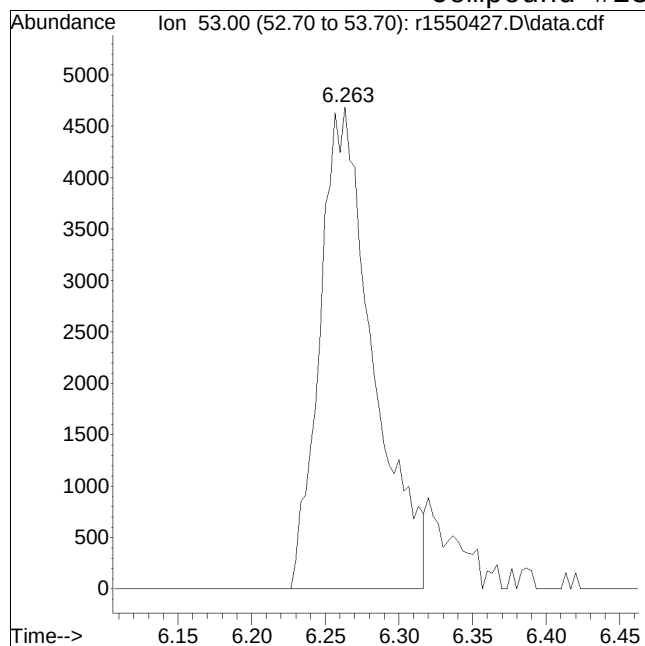


Manual Peak Response = 16066 M6

Manual Integration Report

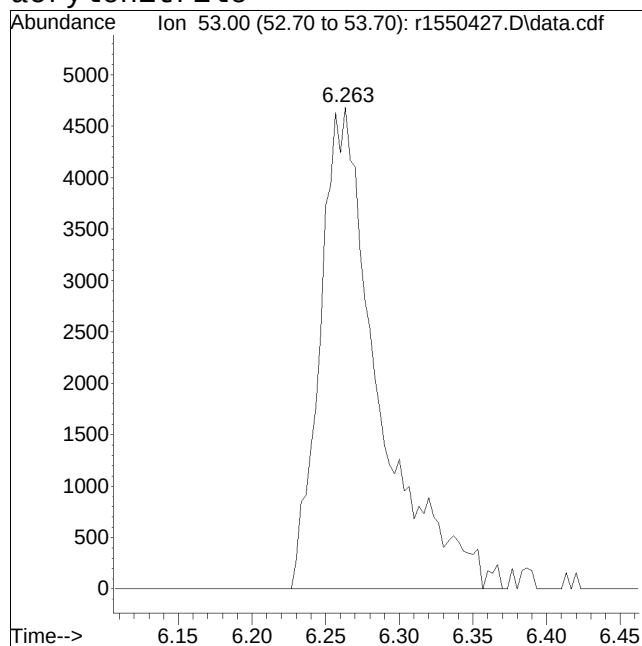
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Data File : r1550427.D Operator : AIRLAB15:JMB
Date Inj'd : 10/7/2024 3:15 PM Instrument :
Sample : IT015-SIMSTD0.5 Quant Date : 10/8/2024 10:34 am

Compound #23: acrylonitrile



Original Peak Response = 11754

M4 = Poor automated baseline construction.

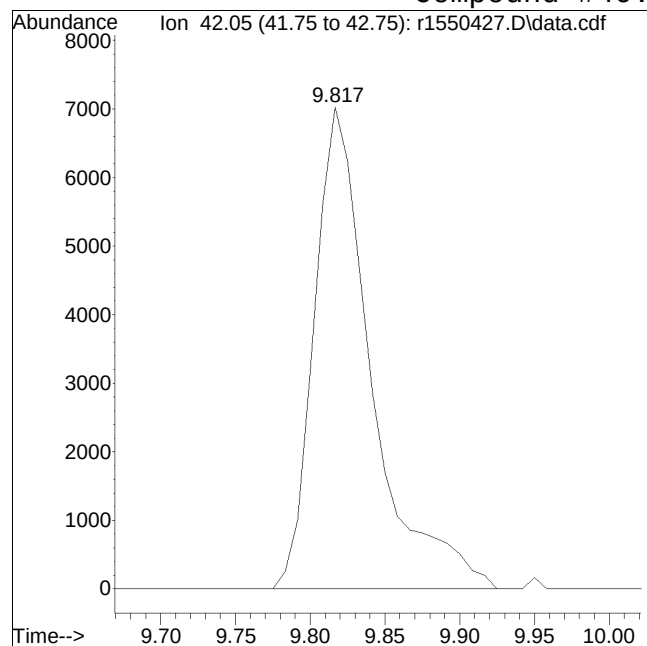


Manual Peak Response = 12974 M4

Manual Integration Report

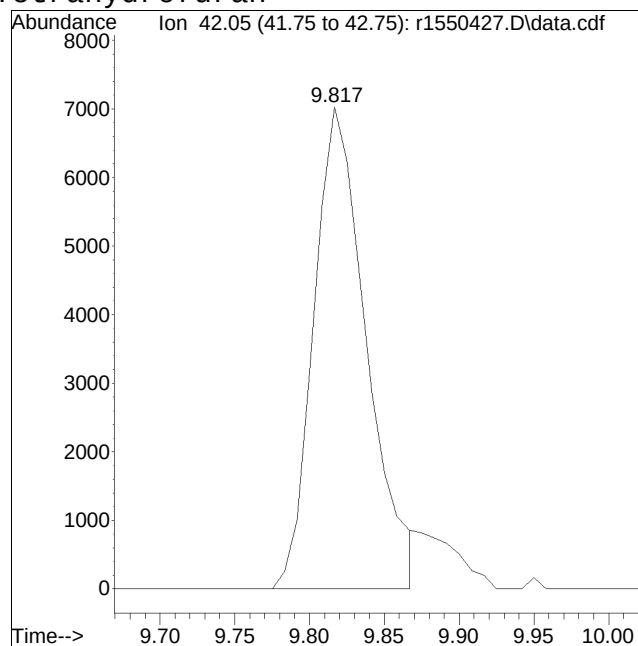
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_241007.M
Data File : r1550427.D Operator : AIRLAB15:JMB
Date Inj'd : 10/7/2024 3:15 PM Instrument :
Sample : IT015-SIMSTD0.5 Quant Date : 10/8/2024 10:34 am

Compound #40: Tetrahydrofuran



Original Peak Response = 18785

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

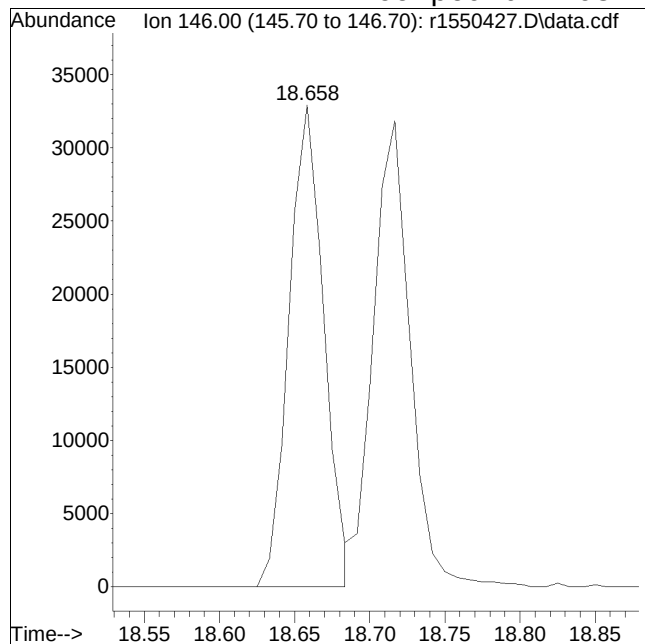


Manual Peak Response = 17180 M6

Manual Integration Report

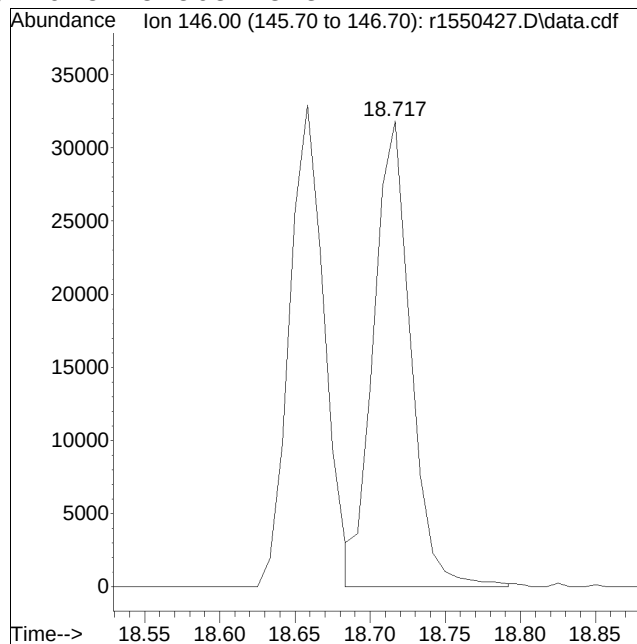
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_241007.M
Data File : r1550427.D Operator : AIRLAB15:JMB
Date Inj'd : 10/7/2024 3:15 PM Instrument :
Sample : IT015-SIMSTD0.5 Quant Date : 10/8/2024 10:34 am

Compound #103: 1,4-dichlorobenzene



Original Peak Response = 52959

M4 = Poor automated baseline construction.



Manual Peak Response = 54494 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550428.D
 Acq On : 7 Oct 2024 3:55 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD1.0
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:31 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.192	49	358194	10.000	ppbV	0.00
Standard Area = 372739			Recovery =	96.10%		
43) 1,4-difluorobenzene	11.420	114	1072831	10.000	ppbV	0.00
Standard Area = 1100343			Recovery =	97.50%		
67) chlorobenzene-D5	16.100	54	173458	10.000	ppbV	0.00
Standard Area = 174527			Recovery =	99.39%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.058	65	269014	9.973	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.73%		
69) toluene-D8	14.250	98	992615	9.831	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.31%		
90) bromofluorobenzene	17.458	95	712980	9.989	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.89%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.946	51	47964	1.570	ppbV	98
3) propylene	3.976	41	28921M6	1.586	ppbV	
4) propane	4.000	29	31697	1.523	ppbV	98
5) dichlorodifluoromethane	4.048	85	52910	1.474	ppbV	98
6) chloromethane	4.216	50	18954	1.443	ppbV	96
7) Freon-114	4.324	85	51271	1.472	ppbV	95
8) methanol	4.396	31	46874	7.673	ppbV #	81
9) vinyl chloride	4.450	62	26918	1.399	ppbV	98
10) 1,3-butadiene	4.600	54	16530	1.400	ppbV	95
11) butane	4.654	43	35759	1.406	ppbV	98
12) acetaldehyde	4.348	29	45187	7.542	ppbV	97
13) bromomethane	4.882	94	21571	1.412	ppbV	97
14) chloroethane	5.074	64	13257	1.427	ppbV	99
15) ethanol	5.224	31	71474	7.023	ppbV	97
16) dichlorofluoromethane	5.188	67	50365	1.479	ppbV	99
17) vinyl bromide	5.460	106	20775	1.372	ppbV	99
18) acrolein	5.597	56	8494	1.278	ppbV #	88
19) acetone	5.740	43	139639	7.158	ppbV	100
20) acetonitrile	5.453	41	21843	1.396	ppbV	96
21) trichlorofluoromethane	5.920	101	41569	1.428	ppbV	96
22) isopropyl alcohol	6.037	45	79589	2.812	ppbV	98
23) acrylonitrile	6.257	53	27245	1.444	ppbV	97
24) pentane	6.323	43	59618	1.401	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550428.D
 Acq On : 7 Oct 2024 3:55 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD1.0
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:31 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.357	31	52226	1.278	ppbV	96
26) 1,1-dichloroethene	6.624	61	47503	1.373	ppbV	98
27) tertiary butyl alcohol	6.720	59	52767	1.271	ppbV	97
28) methylene chloride	6.768	49	36644	1.466	ppbV	98
29) 3-chloropropene	6.906	41	38623	1.326	ppbV	99
30) carbon disulfide	7.080	76	80521	1.298	ppbV #	94
31) Freon 113	7.074	101	57855	1.403	ppbV	99
32) trans-1,2-dichloroethene	7.825	61	45611	1.318	ppbV	93
33) 1,1-dichloroethane	8.050	63	61108	1.383	ppbV	99
34) MTBE	8.133	73	68362	1.315	ppbV	99
35) vinyl acetate	8.242	43	51591	1.221	ppbV	98
36) 2-butanone	8.517	43	59215	1.319	ppbV	100
37) cis-1,2-dichloroethene	9.008	61	44913	1.327	ppbV	96
38) Ethyl Acetate	9.292	61	11692	1.352	ppbV #	52
39) chloroform	9.342	83	60105	1.442	ppbV	100
40) Tetrahydrofuran	9.808	42	35717M6	1.262	ppbV	
41) 2,2-dichloropropane	9.367	77	40983	1.351	ppbV	93
42) 1,2-dichloroethane	10.183	62	37013	1.393	ppbV	98
44) hexane	9.258	57	59847	1.349	ppbV #	69
45) diisopropyl ether	9.258	87	30583	1.324	ppbV	99
46) tert-butyl ethyl ether	9.875	59	103341	1.326	ppbV	99
48) 1,1,1-trichloroethane	10.475	97	48135	1.309	ppbV	94
49) 1,1-dichloropropene	10.840	75	44261	1.282	ppbV	99
50) benzene	11.000	78	112827	1.361	ppbV	99
51) thiophene	11.153	84	80742	1.067	ppbV	99
52) carbon tetrachloride	11.173	117	42037	1.304	ppbV	99
53) cyclohexane	11.320	56	62546	1.314	ppbV	98
54) tert-amyl methyl ether	11.707	73	82748	1.280	ppbV	98
55) dibromomethane	11.920	93	34585	1.352	ppbV	96
56) 1,2-dichloropropane	11.947	63	42801	1.368	ppbV	96
57) bromodichloromethane	12.173	83	53510	1.297	ppbV	98
58) 1,4-dioxane	12.240	88	24359	1.254	ppbV	93
59) trichloroethene	12.227	130	46236	1.326	ppbV	98
60) 2,2,4-trimethylpentane	12.273	57	201706	1.353	ppbV	99
61) methyl methacrylate	12.473	41	35589	1.231	ppbV	99
62) heptane	12.587	43	65246	1.321	ppbV	99
63) cis-1,3-dichloropropene	13.242	75	48538	1.246	ppbV	98
64) 4-methyl-2-pentanone	13.292	43	69775	1.244	ppbV	99
65) trans-1,3-dichloropropene	13.867	75	35369	1.202	ppbV	98
66) 1,1,2-trichloroethane	14.058	97	44366	1.403	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550428.D
 Acq On : 7 Oct 2024 3:55 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD1.0
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:31 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.358	91	138583	1.330	ppbV	99
70) 2-methylthiophene	14.425	97	117151	1.045	ppbV	97
71) 1,3-dichloropropane	14.392	76	61006	1.352	ppbV	96
72) 2-hexanone	14.650	43	65007	1.237	ppbV	95
73) 3-methylthiophene	14.617	97	124107	1.040	ppbV	99
74) dibromochloromethane	14.800	129	50338	1.179	ppbV	94
75) 1,2-dibromoethane	15.042	107	61333	1.334	ppbV	100
76) butyl acetate	15.283	73	13068	1.142	ppbV	96
77) octane	15.367	85	52866	1.357	ppbV	99
78) tetrachloroethene	15.500	166	58078	1.354	ppbV	97
79) 1,1,1,2-tetrachloroethane	16.117	131	44079	1.269	ppbV	100
80) chlorobenzene	16.133	112	108010	1.347	ppbV	97
81) ethylbenzene	16.483	91	177651	1.306	ppbV	98
82) 2-ethylthiophene	16.517	97	139978	1.039	ppbV	98
83) m+p-xylene	16.650	91	290167	2.683	ppbV	98
84) bromoform	16.717	173	43848	1.142	ppbV	97
85) styrene	16.967	104	106385	1.265	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.058	83	107198	1.366	ppbV	98
87) o-xylene	17.058	91	147535	1.358	ppbV	96
88) 1,2,3-trichloropropane	17.175	75	79580	1.366	ppbV	97
89) nonane	17.250	43	113427	1.349	ppbV	97
91) isopropylbenzene	17.567	105	184528	1.338	ppbV	98
92) bromobenzene	17.650	77	105101	1.388	ppbV	99
93) 2-chlorotoluene	17.975	126	53011	1.313	ppbV	98
94) n-propylbenzene	18.000	120	62711	1.324	ppbV	100
95) 4-chlorotoluene	18.033	126	55857	1.365	ppbV	98
96) 4-ethyl toluene	18.117	105	188830	1.344	ppbV	98
97) 1,3,5-trimethylbenzene	18.183	105	189346	1.379	ppbV	98
98) tert-butylbenzene	18.525	119	182371	1.395	ppbV	95
99) 1,2,4-trimethylbenzene	18.525	105	169189	1.379	ppbV	99
100) decane	18.600	57	150351	1.351	ppbV	98
101) Benzyl Chloride	18.650	91	82398	1.071	ppbV	96
102) 1,3-dichlorobenzene	18.658	146	110002	1.324	ppbV	99
103) 1,4-dichlorobenzene	18.708	146	109583	1.315	ppbV	99
104) sec-butylbenzene	18.742	105	239684	1.340	ppbV	98
105) 1,2,3-trimethylbenzene	18.875	105	132635	1.357	ppbV	97
106) p-isopropyltoluene	18.875	119	182624	1.347	ppbV	97
107) 1,2-dichlorobenzene	19.000	146	96635	1.449	ppbV	95
108) n-butylbenzene	19.217	91	190436	1.335	ppbV	96
109) indan	19.050	117	162599	1.430	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550428.D
 Acq On : 7 Oct 2024 3:55 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD1.0
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:31 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

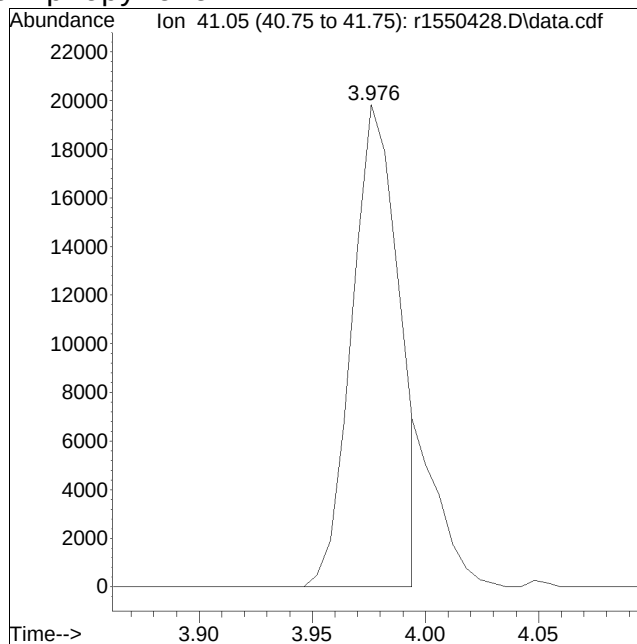
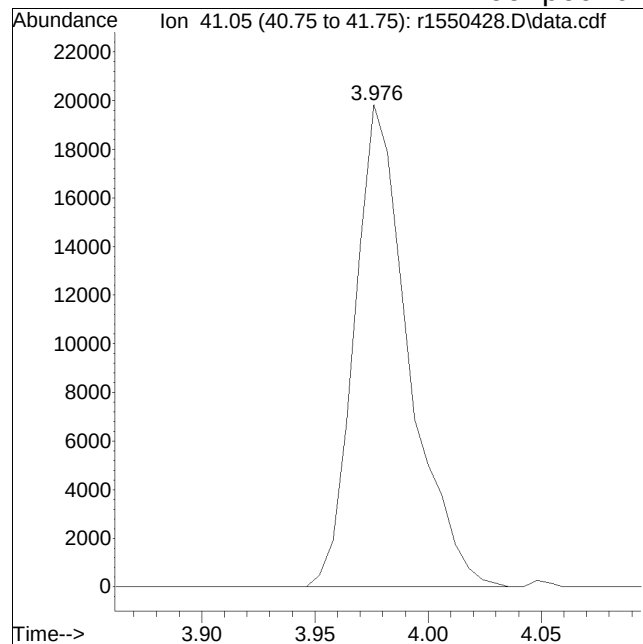
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.125	115	103337	1.292	ppbV	95
111) 1,2-dibromo-3-chloropr...	19.375	75	36078	1.201	ppbV	91
112) undecane	19.625	57	165365	1.336	ppbV	98
113) 1,2,4,5-tetramethylben...	19.858	119	76021	1.090	ppbV	99
114) dodecane	20.542	57	151429	1.179	ppbV	97
115) 1,2,4-trichlorobenzene	20.500	180	69635	1.111	ppbV	98
116) naphthalene	20.617	128	192301	1.136	ppbV	99
117) 1,2,3-trichlorobenzene	20.875	180	63012	1.114	ppbV #	92
118) benzothiophene	20.683	134	76926	0.839	ppbV	99
119) hexachlorobutadiene	20.933	225	69943	1.326	ppbV	95
120) 2-methylnaphthalene	21.783	142	5746	0.362	ppbV	93
121) 1-methylnaphthalene	21.975	142	16561	0.489	ppbV	93

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

Manual Integration Report

Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_241007.M
Data File : r1550428.D Operator : AIRLAB15:JMB
Date Inj'd : 10/7/2024 3:55 PM Instrument :
Sample : IT015-SIMSTD1.0 Quant Date : 10/8/2024 10:34 am

Compound #3: propylene

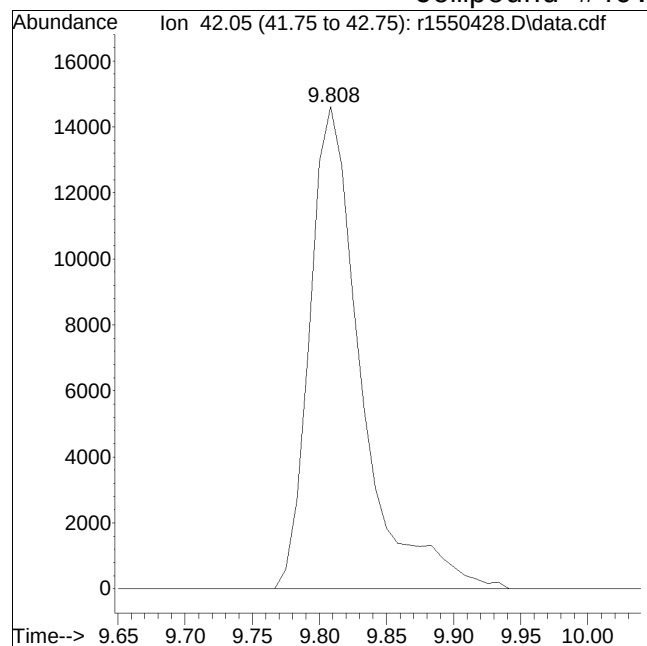


M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

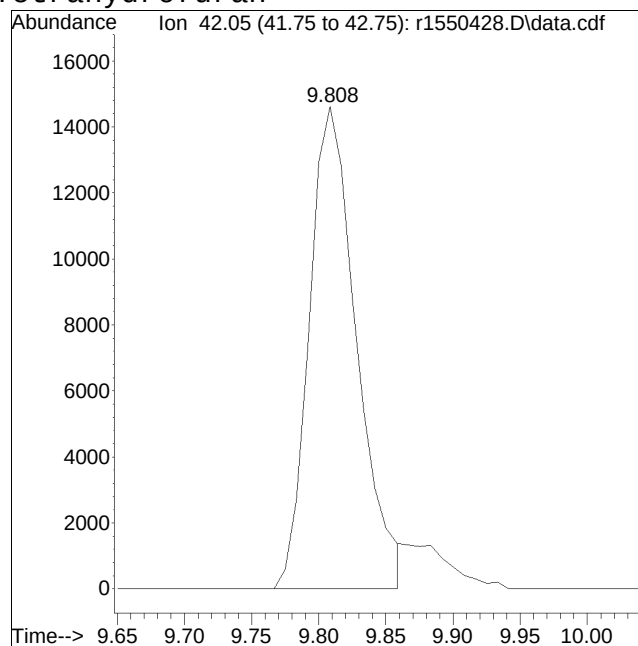
Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_241007.M
Data File : r1550428.D Operator : AIRLAB15:JMB
Date Inj'd : 10/7/2024 3:55 PM Instrument :
Sample : IT015-SIMSTD1.0 Quant Date : 10/8/2024 10:34 am

Compound #40: Tetrahydrofuran



Original Peak Response = 39037

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 35717 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550429.D
 Acq On : 7 Oct 2024 4:32 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD5.0
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:37 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.192	49	363677	10.000	ppbV	0.00
Standard Area = 372739			Recovery =	97.57%		
43) 1,4-difluorobenzene	11.420	114	1077023	10.000	ppbV	0.00
Standard Area = 1100343			Recovery =	97.88%		
67) chlorobenzene-D5	16.100	54	175137	10.000	ppbV	0.00
Standard Area = 174527			Recovery =	100.35%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.058	65	271970	10.044	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.44%		
69) toluene-D8	14.250	98	1003838	9.847	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.47%		
90) bromofluorobenzene	17.458	95	712673	9.889	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.89%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.952	51	174223	5.617	ppbV	100
3) propylene	3.982	41	99610M6	5.380	ppbV	
4) propane	4.006	29	114018	5.395	ppbV	99
5) dichlorodifluoromethane	4.054	85	200898	5.514	ppbV	99
6) chloromethane	4.222	50	69485	5.209	ppbV	99
7) Freon-114	4.330	85	188872	5.340	ppbV	97
8) methanol	4.396	31	161904	26.105	ppbV	96
9) vinyl chloride	4.450	62	99693	5.104	ppbV	99
10) 1,3-butadiene	4.600	54	62461	5.210	ppbV	99
11) butane	4.654	43	130688	5.062	ppbV	99
12) acetaldehyde	4.348	29	162019	26.633	ppbV	97
13) bromomethane	4.888	94	80086	5.163	ppbV	99
14) chloroethane	5.080	64	49211	5.219	ppbV	97
15) ethanol	5.218	31	243410	23.557	ppbV	99
16) dichlorofluoromethane	5.188	67	179840	5.203	ppbV	99
17) vinyl bromide	5.463	106	79595	5.177	ppbV	99
18) acrolein	5.593	56	33703	4.994	ppbV	99
19) acetone	5.733	43	507918	25.645	ppbV	99
20) acetonitrile	5.447	41	77609	4.886	ppbV	94
21) trichlorofluoromethane	5.923	101	152084	5.144	ppbV	95
22) isopropyl alcohol	6.027	45	402923	14.019	ppbV	99
23) acrylonitrile	6.253	53	94132	4.914	ppbV	98
24) pentane	6.323	43	221731	5.132	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550429.D
 Acq On : 7 Oct 2024 4:32 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD5.0
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:37 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.357	31	221628	5.342	ppbV	98
26) 1,1-dichloroethene	6.630	61	177877	5.063	ppbV	99
27) tertiary butyl alcohol	6.708	59	206509	4.899	ppbV	99
28) methylene chloride	6.774	49	131027	5.161	ppbV	99
29) 3-chloropropene	6.906	41	148818	5.033	ppbV	99
30) carbon disulfide	7.080	76	318280	5.054	ppbV	99
31) Freon 113	7.074	101	213449	5.097	ppbV	98
32) trans-1,2-dichloroethene	7.833	61	176259	5.015	ppbV	99
33) 1,1-dichloroethane	8.058	63	228330	5.091	ppbV	99
34) MTBE	8.125	73	267333	5.066	ppbV	98
35) vinyl acetate	8.242	43	207794	4.843	ppbV	99
36) 2-butanone	8.500	43	232683	5.104	ppbV	100
37) cis-1,2-dichloroethene	9.008	61	174039	5.065	ppbV	99
38) Ethyl Acetate	9.275	61	45638	5.197	ppbV	79
39) chloroform	9.350	83	217603	5.142	ppbV	97
40) Tetrahydrofuran	9.792	42	143462	4.991	ppbV	99
41) 2,2-dichloropropane	9.367	77	157387	5.110	ppbV	99
42) 1,2-dichloroethane	10.183	62	137208	5.087	ppbV	99
44) hexane	9.258	57	227168	5.099	ppbV	89
45) diisopropyl ether	9.258	87	116672	5.031	ppbV	95
46) tert-butyl ethyl ether	9.875	59	399271	5.102	ppbV	99
48) 1,1,1-trichloroethane	10.475	97	185105	5.013	ppbV	99
49) 1,1-dichloropropene	10.840	75	174541	5.034	ppbV	99
50) benzene	11.000	78	428723	5.152	ppbV	99
51) thiophene	11.153	84	386638	5.090	ppbV	99
52) carbon tetrachloride	11.173	117	162588	5.025	ppbV	100
53) cyclohexane	11.320	56	242397	5.074	ppbV	98
54) tert-amyl methyl ether	11.700	73	326013	5.024	ppbV	99
55) dibromomethane	11.920	93	130634	5.086	ppbV	95
56) 1,2-dichloropropane	11.947	63	159556	5.081	ppbV	99
57) bromodichloromethane	12.173	83	209735	5.064	ppbV	99
58) 1,4-dioxane	12.227	88	97335	4.992	ppbV	100
59) trichloroethene	12.227	130	178009	5.084	ppbV	97
60) 2,2,4-trimethylpentane	12.273	57	766761	5.123	ppbV	99
61) methyl methacrylate	12.467	41	143370	4.940	ppbV	99
62) heptane	12.587	43	252628	5.096	ppbV	100
63) cis-1,3-dichloropropene	13.233	75	191530	4.898	ppbV	98
64) 4-methyl-2-pentanone	13.283	43	283144	5.030	ppbV	100
65) trans-1,3-dichloropropene	13.858	75	143603	4.859	ppbV	98
66) 1,1,2-trichloroethane	14.050	97	163796	5.160	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550429.D
 Acq On : 7 Oct 2024 4:32 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD5.0
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:37 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.358	91	522237	4.965	ppbV	99
70) 2-methylthiophene	14.425	97	567226	5.010	ppbV	99
71) 1,3-dichloropropane	14.383	76	227868	5.001	ppbV	97
72) 2-hexanone	14.642	43	260826	4.917	ppbV	96
73) 3-methylthiophene	14.617	97	596690	4.952	ppbV	100
74) dibromochloromethane	14.800	129	208558	4.840	ppbV	99
75) 1,2-dibromoethane	15.042	107	233448	5.027	ppbV	95
76) butyl acetate	15.275	73	56243	4.870	ppbV	97
77) octane	15.367	85	200250	5.090	ppbV	99
78) tetrachloroethene	15.500	166	216438	4.998	ppbV	98
79) 1,1,1,2-tetrachloroethane	16.125	131	173704	4.953	ppbV	97
80) chlorobenzene	16.142	112	405318	5.006	ppbV	96
81) ethylbenzene	16.483	91	677746	4.936	ppbV	99
82) 2-ethylthiophene	16.517	97	678248	4.987	ppbV	100
83) m+p-xylene	16.650	91	1092730	10.008	ppbV	98
84) bromoform	16.717	173	181732	4.686	ppbV	98
85) styrene	16.967	104	415964	4.900	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.058	83	398472	5.027	ppbV	97
87) o-xylene	17.058	91	553207	5.045	ppbV	97
88) 1,2,3-trichloropropane	17.175	75	295692	5.025	ppbV	99
89) nonane	17.250	43	429501	5.059	ppbV	99
91) isopropylbenzene	17.567	105	699862	5.024	ppbV	98
92) bromobenzene	17.650	77	383302	5.012	ppbV	98
93) 2-chlorotoluene	17.975	126	203921	5.001	ppbV	99
94) n-propylbenzene	18.000	120	238670	4.992	ppbV	99
95) 4-chlorotoluene	18.033	126	205128	4.965	ppbV	100
96) 4-ethyl toluene	18.117	105	712771	5.024	ppbV	99
97) 1,3,5-trimethylbenzene	18.183	105	704718	5.084	ppbV	100
98) tert-butylbenzene	18.525	119	678254	5.140	ppbV	97
99) 1,2,4-trimethylbenzene	18.525	105	619150	4.998	ppbV	99
100) decane	18.600	57	564503	5.023	ppbV	99
101) Benzyl Chloride	18.642	91	359531	4.628	ppbV	100
102) 1,3-dichlorobenzene	18.658	146	411035	4.899	ppbV	98
103) 1,4-dichlorobenzene	18.717	146	411001	4.884	ppbV	95
104) sec-butylbenzene	18.742	105	898791	4.977	ppbV	98
105) 1,2,3-trimethylbenzene	18.875	105	464686	4.709	ppbV	100
106) p-isopropyltoluene	18.875	119	658644	4.812	ppbV	98
107) 1,2-dichlorobenzene	19.000	146	356966	5.303	ppbV	96
108) n-butylbenzene	19.217	91	721580	5.010	ppbV	98
109) indan	19.050	117	603892	5.259	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550429.D
 Acq On : 7 Oct 2024 4:32 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD5.0
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:37 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

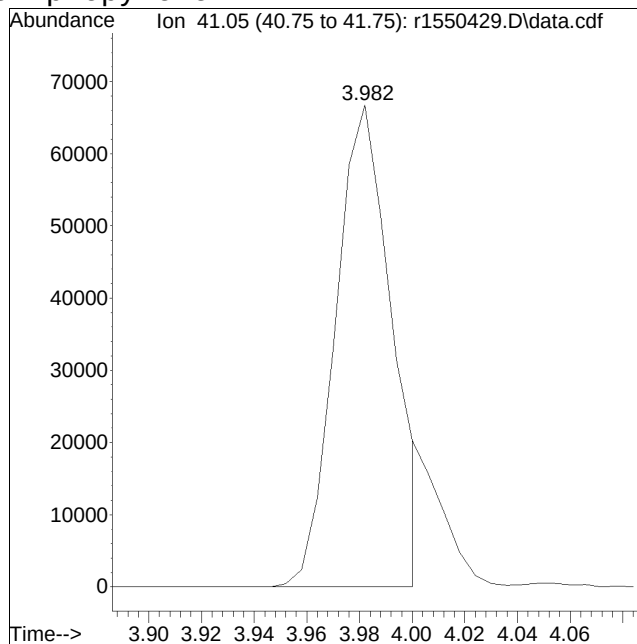
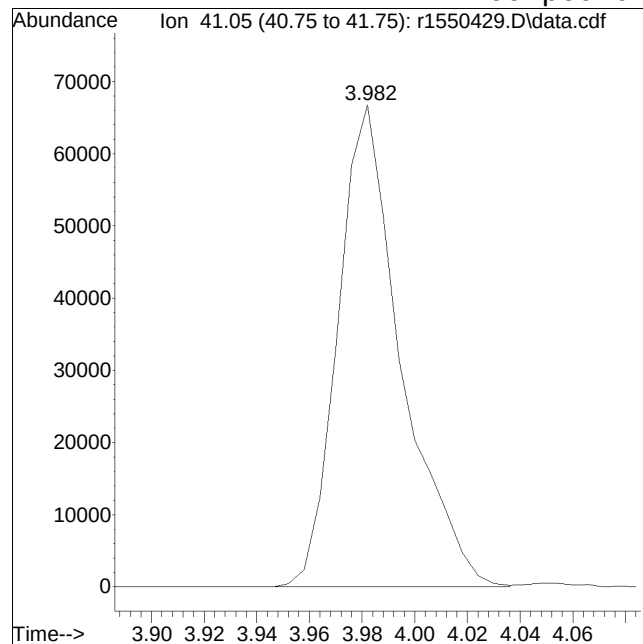
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.125	115	396698	4.913	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.375	75	146675	4.836	ppbV	98
112) undecane	19.625	57	633304	5.068	ppbV	99
113) 1,2,4,5-tetramethylben...	19.858	119	346502	4.921	ppbV	98
114) dodecane	20.542	57	650917	5.017	ppbV	100
115) 1,2,4-trichlorobenzene	20.500	180	290374	4.589	ppbV	98
116) naphthalene	20.617	128	815458	4.769	ppbV	100
117) 1,2,3-trichlorobenzene	20.875	180	273942	4.797	ppbV	96
118) benzothiophene	20.683	134	438488	4.735	ppbV	99
119) hexachlorobutadiene	20.942	225	275219	5.169	ppbV	98
120) 2-methylnaphthalene	21.767	142	61382	3.832	ppbV	95
121) 1-methylnaphthalene	21.967	142	139624	4.080	ppbV	97

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

Manual Integration Report

Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_241007.M
Data File : r1550429.D Operator : AIRLAB15:JMB
Date Inj'd : 10/7/2024 4:32 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 10/8/2024 10:34 am

Compound #3: propylene



Original Peak Response = 111575

Manual Peak Response = 99610 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550430.D
 Acq On : 7 Oct 2024 5:12 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD010
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:32:18 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Sep 28 14:10:33 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.192	49	372739	10.000	ppbV	0.03
Standard Area = 372739			Recovery =	100.00%		
43) 1,4-difluorobenzene	11.427	114	1100343	10.000	ppbV	0.03
Standard Area = 1100343			Recovery =	100.00%		
67) chlorobenzene-D5	16.100	54	174527	10.000	ppbV	0.03
Standard Area = 174527			Recovery =	100.00%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.058	65	276646	10.041	ppbV	0.03
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.41%		
69) toluene-D8	14.250	98	1015857	10.182	ppbV	0.03
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.82%		
90) bromofluorobenzene	17.458	95	718143	10.344	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.44%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.946	51	317886	8.461	ppbV	99
3) propylene	3.976	41	189775M6	8.555	ppbV	
4) propane	4.000	29	216595	9.079	ppbV	98
5) dichlorodifluoromethane	4.048	85	373423	9.171	ppbV	99
6) chloromethane	4.216	50	136724	8.418	ppbV	100
7) Freon-114	4.324	85	362514	8.556	ppbV	96
8) methanol	4.390	31	317834	42.894	ppbV	98
9) vinyl chloride	4.450	62	200200	8.688	ppbV	100
10) 1,3-butadiene	4.594	54	122885	8.468	ppbV	97
11) butane	4.654	43	264613	8.297	ppbV	99
12) acetaldehyde	4.348	29	311752	42.526	ppbV	99
13) bromomethane	4.882	94	158966	8.785	ppbV	98
14) chloroethane	5.074	64	96649	8.219	ppbV	98
15) ethanol	5.212	31	529523	43.330	ppbV	100
16) dichlorofluoromethane	5.188	67	354257	8.062	ppbV	100
17) vinyl bromide	5.457	106	157590	8.549	ppbV	97
18) acrolein	5.587	56	69168	8.360	ppbV	98
19) acetone	5.730	43	1014953	41.808	ppbV	100
20) acetonitrile	5.443	41	162786	8.032	ppbV	98
21) trichlorofluoromethane	5.920	101	302993	8.586	ppbV	98
22) isopropyl alcohol	6.020	45	736439	19.710	ppbV	100
23) acrylonitrile	6.250	53	196327	9.128	ppbV	98
24) pentane	6.323	43	442816	8.919	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550430.D
 Acq On : 7 Oct 2024 5:12 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD010
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:32:18 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Sep 28 14:10:33 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.350	31	425215	9.500	ppbV	99
26) 1,1-dichloroethene	6.630	61	360060	9.273	ppbV	99
27) tertiary butyl alcohol	6.690	59	432080	9.042	ppbV	98
28) methylene chloride	6.774	49	260180	9.067	ppbV	96
29) 3-chloropropene	6.906	41	303027	8.809	ppbV	98
30) carbon disulfide	7.074	76	645399	9.751	ppbV	98
31) Freon 113	7.074	101	429236	9.557	ppbV	99
32) trans-1,2-dichloroethene	7.825	61	360210	9.462	ppbV	96
33) 1,1-dichloroethane	8.050	63	459699	9.327	ppbV	98
34) MTBE	8.125	73	540826	9.378	ppbV	99
35) vinyl acetate	8.242	43	439707	9.386	ppbV	99
36) 2-butanone	8.500	43	467258	9.181	ppbV	97
37) cis-1,2-dichloroethene	9.008	61	352168	9.509	ppbV	99
38) Ethyl Acetate	9.275	61	90010	9.747	ppbV	87
39) chloroform	9.350	83	433770	9.604	ppbV	99
40) Tetrahydrofuran	9.783	42	294602	9.300	ppbV	96
41) 2,2-dichloropropane	9.367	77	315699	9.866	ppbV	94
42) 1,2-dichloroethane	10.183	62	276461	9.313	ppbV	99
44) hexane	9.258	57	455164	9.619	ppbV	98
45) diisopropyl ether	9.250	87	236912	9.795	ppbV	90
46) tert-butyl ethyl ether	9.867	59	799505	9.363	ppbV	97
48) 1,1,1-trichloroethane	10.475	97	377268	9.720	ppbV	98
49) 1,1-dichloropropene	10.840	75	354238	9.915	ppbV	97
50) benzene	11.000	78	850129	9.753	ppbV	98
51) thiophene	11.153	84	776060	11.649	ppbV	97
52) carbon tetrachloride	11.173	117	330569	9.769	ppbV	99
53) cyclohexane	11.320	56	488100	9.547	ppbV	98
54) tert-amyl methyl ether	11.693	73	662912	9.610	ppbV	98
55) dibromomethane	11.913	93	262426	9.915	ppbV	96
56) 1,2-dichloropropane	11.947	63	320804	9.556	ppbV	98
57) bromodichloromethane	12.180	83	423132	9.800	ppbV	99
58) 1,4-dioxane	12.220	88	199212	9.987	ppbV	100
59) trichloroethene	12.227	130	357713	10.003	ppbV	97
60) 2,2,4-trimethylpentane	12.273	57	1529051	9.682	ppbV	99
61) methyl methacrylate	12.467	41	296529	9.430	ppbV	97
62) heptane	12.587	43	506518	9.513	ppbV	99
63) cis-1,3-dichloropropene	13.242	75	399511	9.881	ppbV	97
64) 4-methyl-2-pentanone	13.275	43	575061	9.671	ppbV	99
65) trans-1,3-dichloropropene	13.858	75	301915	9.988	ppbV	97
66) 1,1,2-trichloroethane	14.050	97	324331	9.647	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550430.D
 Acq On : 7 Oct 2024 5:12 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD010
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:32:18 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Sep 28 14:10:33 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.358	91	1048241	9.884	ppbV	99
70) 2-methylthiophene	14.425	97	1128207	11.940	ppbV	99
71) 1,3-dichloropropane	14.383	76	454018	10.050	ppbV	96
72) 2-hexanone	14.633	43	528561	10.137	ppbV	98
73) 3-methylthiophene	14.617	97	1200695	12.047	ppbV	99
74) dibromochloromethane	14.800	129	429437	10.345	ppbV	99
75) 1,2-dibromoethane	15.042	107	462744	9.912	ppbV	98
76) butyl acetate	15.275	73	115092	9.979	ppbV	98
77) octane	15.367	85	392015	9.592	ppbV	97
78) tetrachloroethene	15.500	166	431574	10.108	ppbV	99
79) 1,1,1,2-tetrachloroethane	16.125	131	349503	10.234	ppbV	99
80) chlorobenzene	16.133	112	806910	9.988	ppbV	96
81) ethylbenzene	16.483	91	1368175	10.098	ppbV	98
82) 2-ethylthiophene	16.517	97	1355211	12.236	ppbV	99
83) m+p-xylene	16.650	91	2176024	20.296	ppbV	100
84) bromoform	16.717	173	386476	10.678	ppbV	97
85) styrene	16.967	104	845865	10.088	ppbV	100
86) 1,1,2,2-tetrachloroethane	17.058	83	789882	10.061	ppbV	99
87) o-xylene	17.058	91	1092824	10.263	ppbV	98
88) 1,2,3-trichloropropane	17.175	75	586381	10.127	ppbV	98
89) nonane	17.250	43	846059	10.094	ppbV	95
91) isopropylbenzene	17.567	105	1388068	10.263	ppbV	99
92) bromobenzene	17.650	77	762086	10.137	ppbV	96
93) 2-chlorotoluene	17.975	126	406303	10.185	ppbV	87
94) n-propylbenzene	18.000	120	476400	10.259	ppbV	96
95) 4-chlorotoluene	18.033	126	411688	10.348	ppbV	96
96) 4-ethyl toluene	18.117	105	1413701	10.142	ppbV	98
97) 1,3,5-trimethylbenzene	18.183	105	1381381	10.057	ppbV	96
98) tert-butylbenzene	18.525	119	1314966	10.402	ppbV	97
99) 1,2,4-trimethylbenzene	18.525	105	1234411	10.344	ppbV	95
100) decane	18.600	57	1120022	10.057	ppbV	98
101) Benzyl Chloride	18.642	91	774088	10.484	ppbV	100
102) 1,3-dichlorobenzene	18.658	146	836115	9.960	ppbV	99
103) 1,4-dichlorobenzene	18.708	146	838543	9.898	ppbV	98
104) sec-butylbenzene	18.742	105	1799703	10.479	ppbV	100
105) 1,2,3-trimethylbenzene	18.875	105	983416	9.675	ppbV	96
106) p-isopropyltoluene	18.875	119	1364028	9.753	ppbV	96
107) 1,2-dichlorobenzene	19.000	146	670819	9.152	ppbV	98
108) n-butylbenzene	19.217	91	1435122	10.320	ppbV	96
109) indan	19.050	117	1144259	9.346	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550430.D
 Acq On : 7 Oct 2024 5:12 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD010
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:32:18 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Sat Sep 28 14:10:33 2024
 Response via : Initial Calibration

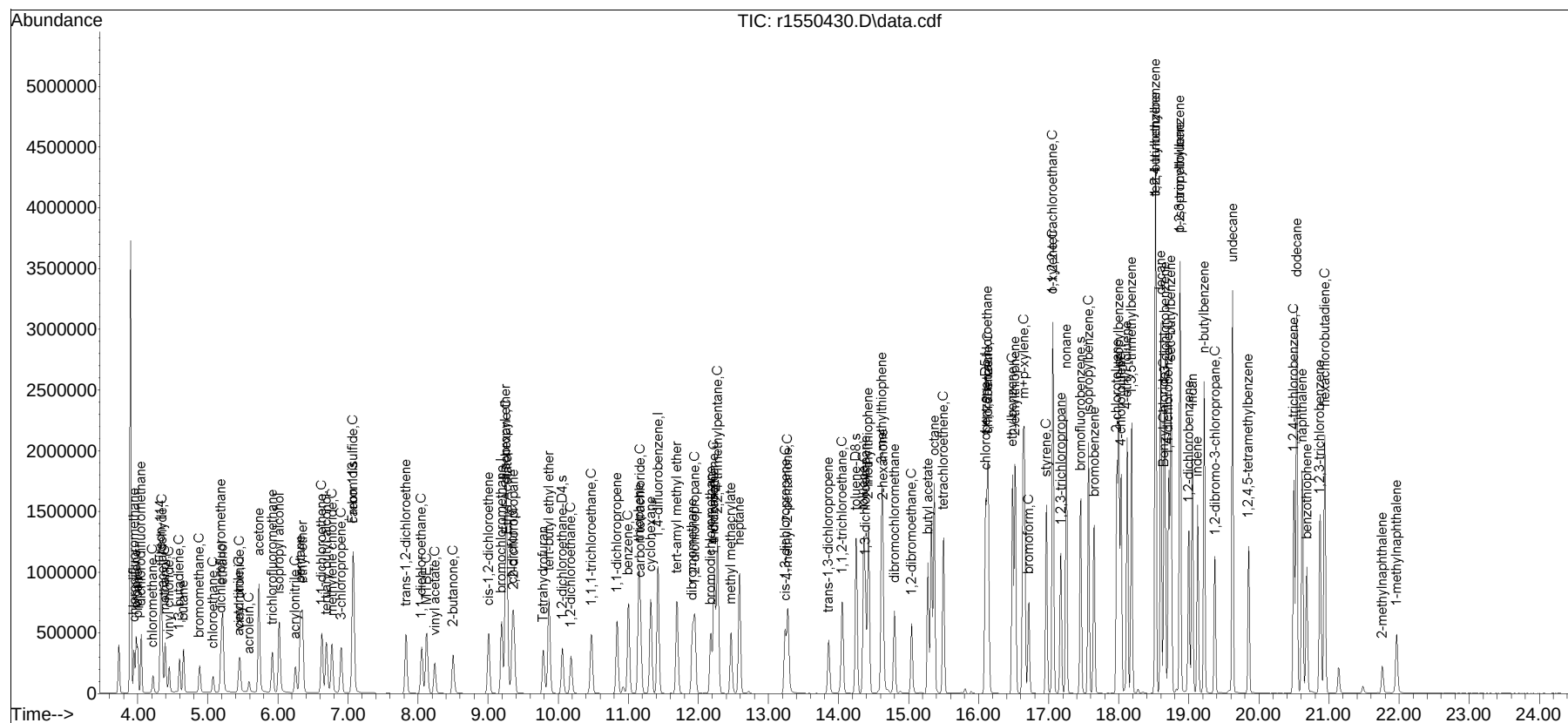
CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.125	115	804598	9.872	ppbV	97
111) 1,2-dibromo-3-chloropr...	19.375	75	302262	10.478	ppbV	95
112) undecane	19.625	57	1245300	10.310	ppbV	98
113) 1,2,4,5-tetramethylben...	19.850	119	701660	9.400	ppbV	99
114) dodecane	20.542	57	1292796	11.371	ppbV	99
115) 1,2,4-trichlorobenzene	20.500	180	630607	10.830	ppbV	97
116) naphthalene	20.617	128	1703812	11.165	ppbV	99
117) 1,2,3-trichlorobenzene	20.867	180	569137	10.961	ppbV	96
118) benzothiophene	20.683	134	922855	10.055	ppbV	99
119) hexachlorobutadiene	20.942	225	530620	10.274	ppbV	97
120) 2-methylnaphthalene	21.758	142	159606	9.617	ppbV	100
121) 1-methylnaphthalene	21.967	142	341022	11.202	ppbV	95

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


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Data Path   : 0:\Forensics\Data\AirLab15\2024\10\1007T_I\
Data File  : r1550430.D
Acq On     : 7 Oct 2024    5:12 PM
Operator   : AIRLAB15:JMB
Sample     : IT015-SIMSTD010
Misc       : WG1982090
ALS Vial   : 0    Sample Multiplier: 1
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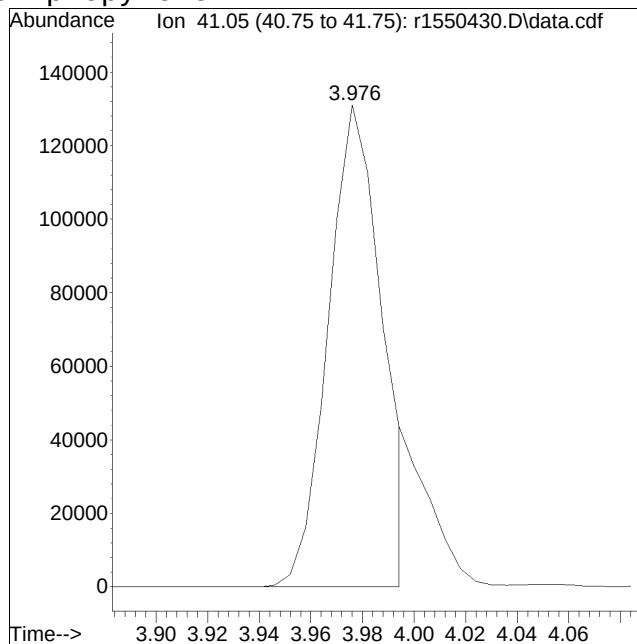
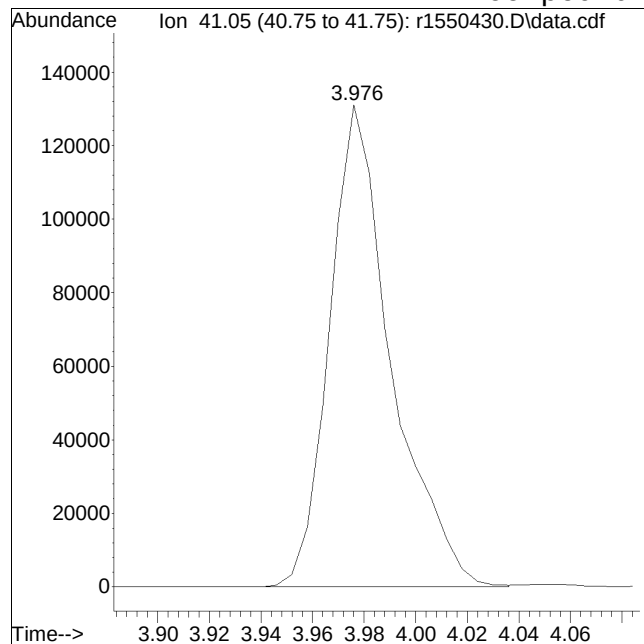
Quant Time: Oct 08 10:32:18 2024
Quant Method : 0:\Forensics\Data\AirLab15\2024\10\1007T_I\TFS15_241007.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Sep 28 14:10:33 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_241007.M
Data File : r1550430.D Operator : AIRLAB15:JMB
Date Inj'd : 10/7/2024 5:12 PM Instrument :
Sample : IT015-SIMSTD010 Quant Date : 10/8/2024 10:32 am

Compound #3: propylene



Original Peak Response = 217646

Manual Peak Response = 189775 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550431.D
 Acq On : 7 Oct 2024 5:48 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD020
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:43 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.192	49	371205	10.000	ppbV	0.00
Standard Area = 372739			Recovery =	99.59%		
43) 1,4-difluorobenzene	11.420	114	1112217	10.000	ppbV	0.00
Standard Area = 1100343			Recovery =	101.08%		
67) chlorobenzene-D5	16.092	54	170864	10.000	ppbV	0.00
Standard Area = 174527			Recovery =	97.90%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.058	65	278209	9.949	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.49%		
69) toluene-D8	14.250	98	1020179	10.258	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.58%		
90) bromofluorobenzene	17.450	95	721624	10.264	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.64%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.946	51	646553	20.423	ppbV	99
3) propylene	3.976	41	403017M6	21.324	ppbV	
4) propane	4.000	29	431015	19.982	ppbV	96
5) dichlorodifluoromethane	4.048	85	768872	20.675	ppbV	99
6) chloromethane	4.216	50	291074	21.377	ppbV	98
7) Freon-114	4.324	85	755322	20.922	ppbV	97
8) methanol	4.390	31	648626	102.460	ppbV	99
9) vinyl chloride	4.450	62	416673	20.899	ppbV	99
10) 1,3-butadiene	4.600	54	257527	21.043	ppbV	99
11) butane	4.654	43	564979	21.439	ppbV	99
12) acetaldehyde	4.348	29	649584	104.613	ppbV	93
13) bromomethane	4.882	94	328613	20.757	ppbV	96
14) chloroethane	5.074	64	206939	21.500	ppbV	99
15) ethanol	5.212	31	1001438	94.951	ppbV	95
16) dichlorofluoromethane	5.188	67	744315	21.097	ppbV	100
17) vinyl bromide	5.460	106	344447	21.947	ppbV	94
18) acrolein	5.587	56	148566	21.568	ppbV	99
19) acetone	5.727	43	2177218	107.700	ppbV	98
20) acetonitrile	5.443	41	346755	21.389	ppbV	100
21) trichlorofluoromethane	5.923	101	634137	21.016	ppbV	99
22) isopropyl alcohol	6.013	45	1821777	62.100	ppbV	100
23) acrylonitrile	6.247	53	419291	21.445	ppbV	99
24) pentane	6.323	43	944906	21.427	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550431.D
 Acq On : 7 Oct 2024 5:48 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD020
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:43 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.350	31	963122	22.744	ppbV	98
26) 1,1-dichloroethene	6.630	61	772003	21.530	ppbV	98
27) tertiary butyl alcohol	6.684	59	963617	22.394	ppbV	99
28) methylene chloride	6.774	49	553644	21.367	ppbV	99
29) 3-chloropropene	6.906	41	664788	22.029	ppbV	99
30) carbon disulfide	7.080	76	1392231	21.661	ppbV	100
31) Freon 113	7.074	101	912582	21.348	ppbV	97
32) trans-1,2-dichloroethene	7.825	61	783511	21.841	ppbV	99
33) 1,1-dichloroethane	8.050	63	986010	21.538	ppbV	100
34) MTBE	8.117	73	1170500	21.732	ppbV	99
35) vinyl acetate	8.233	43	985835	22.513	ppbV	99
36) 2-butanone	8.492	43	1012461	21.758	ppbV	100
37) cis-1,2-dichloroethene	9.008	61	756797	21.578	ppbV	99
38) Ethyl Acetate	9.275	61	199076	22.208	ppbV	89
39) chloroform	9.350	83	910304	21.073	ppbV	100
40) Tetrahydrofuran	9.783	42	644934	21.982	ppbV	98
41) 2,2-dichloropropane	9.367	77	665917	21.181	ppbV	99
42) 1,2-dichloroethane	10.183	62	589216	21.401	ppbV	99
44) hexane	9.258	57	954780	20.753	ppbV	91
45) diisopropyl ether	9.250	87	504651	21.074	ppbV	99
46) tert-butyl ethyl ether	9.867	59	1693413	20.955	ppbV	99
48) 1,1,1-trichloroethane	10.475	97	804118	21.087	ppbV	99
49) 1,1-dichloropropene	10.840	75	754975	21.085	ppbV	98
50) benzene	11.000	78	1823538	21.221	ppbV	100
51) thiophene	11.153	84	1326423	16.909	ppbV	99
52) carbon tetrachloride	11.173	117	709436	21.232	ppbV	100
53) cyclohexane	11.320	56	1032132	20.920	ppbV	98
54) tert-amyl methyl ether	11.687	73	1423787	21.248	ppbV	100
55) dibromomethane	11.913	93	561915	21.184	ppbV	99
56) 1,2-dichloropropane	11.947	63	689335	21.258	ppbV	97
57) bromodichloromethane	12.173	83	911773	21.318	ppbV	99
58) 1,4-dioxane	12.213	88	425800	21.146	ppbV	99
59) trichloroethene	12.227	130	764446	21.142	ppbV	97
60) 2,2,4-trimethylpentane	12.273	57	3211718	20.780	ppbV	99
61) methyl methacrylate	12.460	41	666122	22.224	ppbV	100
62) heptane	12.587	43	1078477	21.065	ppbV	100
63) cis-1,3-dichloropropene	13.233	75	874110	21.646	ppbV	99
64) 4-methyl-2-pentanone	13.267	43	1240970	21.349	ppbV	100
65) trans-1,3-dichloropropene	13.858	75	673953	22.084	ppbV	99
66) 1,1,2-trichloroethane	14.050	97	706310	21.545	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550431.D
 Acq On : 7 Oct 2024 5:48 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD020
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:43 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.358	91	2219182	21.624	ppbV	100
70) 2-methylthiophene	14.425	97	1918961	17.374	ppbV	99
71) 1,3-dichloropropane	14.383	76	948647	21.342	ppbV	97
72) 2-hexanone	14.633	43	1134285	21.920	ppbV	98
73) 3-methylthiophene	14.617	97	2017803	17.166	ppbV	100
74) dibromochloromethane	14.792	129	930238	22.126	ppbV	99
75) 1,2-dibromoethane	15.042	107	1000239	22.079	ppbV	97
76) butyl acetate	15.267	73	249844	22.174	ppbV	94
77) octane	15.367	85	818485	21.327	ppbV	98
78) tetrachloroethene	15.492	166	893837	21.155	ppbV	97
79) 1,1,1,2-tetrachloroethane	16.117	131	749870	21.915	ppbV	98
80) chlorobenzene	16.133	112	1709230	21.637	ppbV	98
81) ethylbenzene	16.483	91	2876519	21.475	ppbV	100
82) 2-ethylthiophene	16.517	97	2250317	16.961	ppbV	100
83) m+p-xylene	16.642	91	4567500	42.880	ppbV	99
84) bromoform	16.708	173	862172	22.787	ppbV	96
85) styrene	16.967	104	1826142	22.052	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.058	83	1638635	21.190	ppbV	97
87) o-xylene	17.058	91	2274923	21.263	ppbV	99
88) 1,2,3-trichloropropane	17.167	75	1217036	21.200	ppbV	98
89) nonane	17.250	43	1730754	20.895	ppbV	99
91) isopropylbenzene	17.567	105	2881295	21.203	ppbV	99
92) bromobenzene	17.642	77	1585304	21.248	ppbV	93
93) 2-chlorotoluene	17.967	126	861004	21.645	ppbV	81
94) n-propylbenzene	18.000	120	1012539	21.710	ppbV	96
95) 4-chlorotoluene	18.025	126	868523	21.549	ppbV	94
96) 4-ethyl toluene	18.117	105	3054728	22.071	ppbV	98
97) 1,3,5-trimethylbenzene	18.183	105	2858426	21.136	ppbV	98
98) tert-butylbenzene	18.525	119	2627162	20.407	ppbV	100
99) 1,2,4-trimethylbenzene	18.525	105	2524507	20.890	ppbV	97
100) decane	18.600	57	2283426	20.824	ppbV	99
101) Benzyl Chloride	18.642	91	1730704	22.837	ppbV	100
102) 1,3-dichlorobenzene	18.658	146	1767705	21.595	ppbV	99
103) 1,4-dichlorobenzene	18.708	146	1748617	21.300	ppbV	99
104) sec-butylbenzene	18.742	105	3703251	21.018	ppbV	99
105) 1,2,3-trimethylbenzene	18.875	105	2043094	21.221	ppbV	100
106) p-isopropyltoluene	18.867	119	2776405	20.791	ppbV	95
107) 1,2-dichlorobenzene	19.000	146	1534911	23.372	ppbV	93
108) n-butylbenzene	19.217	91	2926447	20.829	ppbV	99
109) indan	19.042	117	2524318	22.534	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550431.D
 Acq On : 7 Oct 2024 5:48 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD020
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:43 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

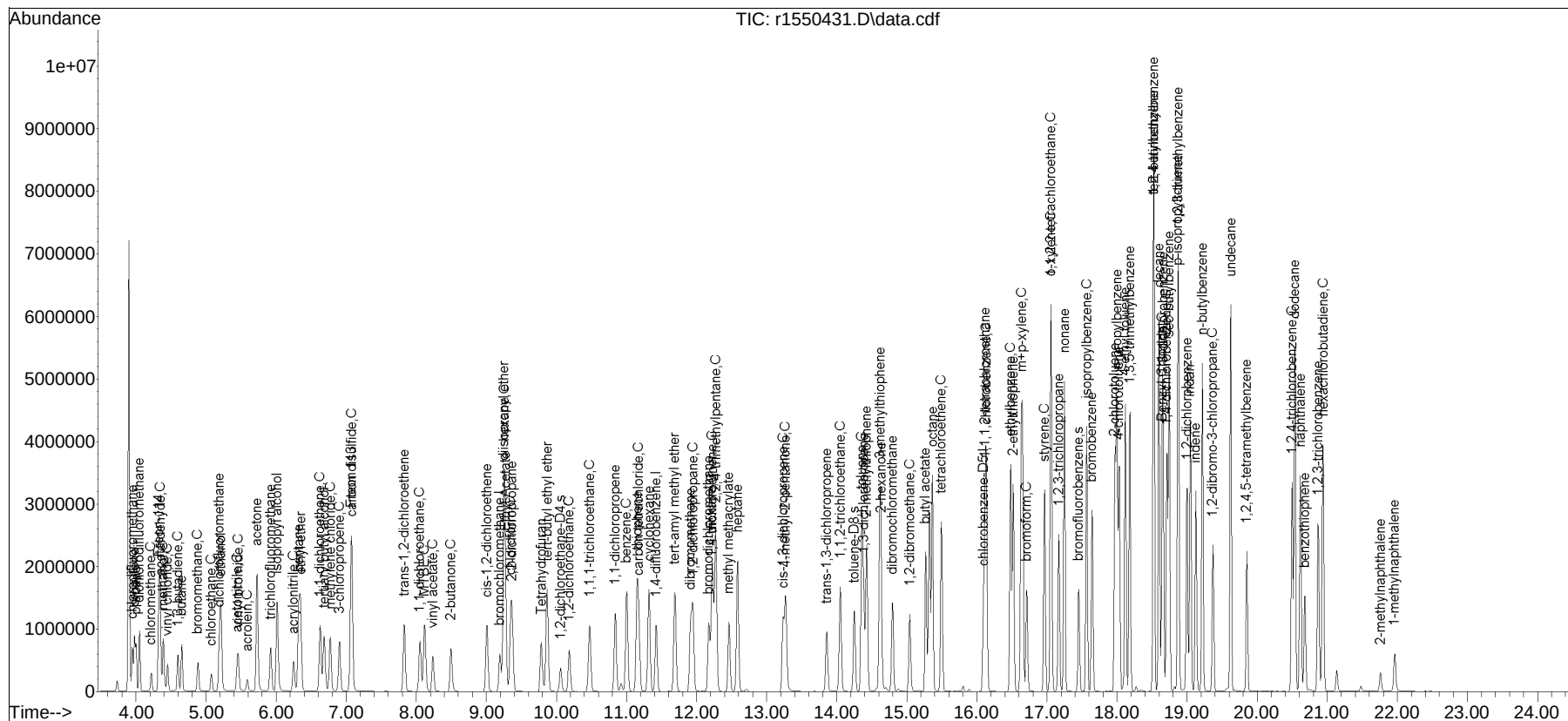
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.125	115	1726835	21.922	ppbV	100
111)	1,2-dibromo-3-chloropr...	19.367	75	619581	20.938	ppbV	87
112)	undecane	19.625	57	2440937	20.021	ppbV	99
113)	1,2,4,5-tetramethylben...	19.850	119	1251402	18.217	ppbV	99
114)	dodecane	20.533	57	2270718	17.941	ppbV	99
115)	1,2,4-trichlorobenzene	20.500	180	1249038	20.232	ppbV	99
116)	naphthalene	20.617	128	3198670	19.176	ppbV	99
117)	1,2,3-trichlorobenzene	20.867	180	1045206	18.758	ppbV	97
118)	benzothiophene	20.675	134	1436731	15.902	ppbV	98
119)	hexachlorobutadiene	20.942	225	1024554	19.723	ppbV	98
120)	2-methylnaphthalene	21.758	142	208443	13.340	ppbV	98
121)	1-methylnaphthalene	21.958	142	424650	12.719	ppbV	97

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

Sub List : Default - All compounds listed4\10\1007T_I\r1550430.D

Data Path : 0:\Forensics\Data\AirLab15\2024\10\1007T_I\
Data File : r1550431.D
Acq On : 7 Oct 2024 5:48 PM
Operator : AIRLAB15:JMB
Sample : IT015-SIMSTD020
Misc : WG1982090
ALS Vial : 0 Sample Multiplier: 1

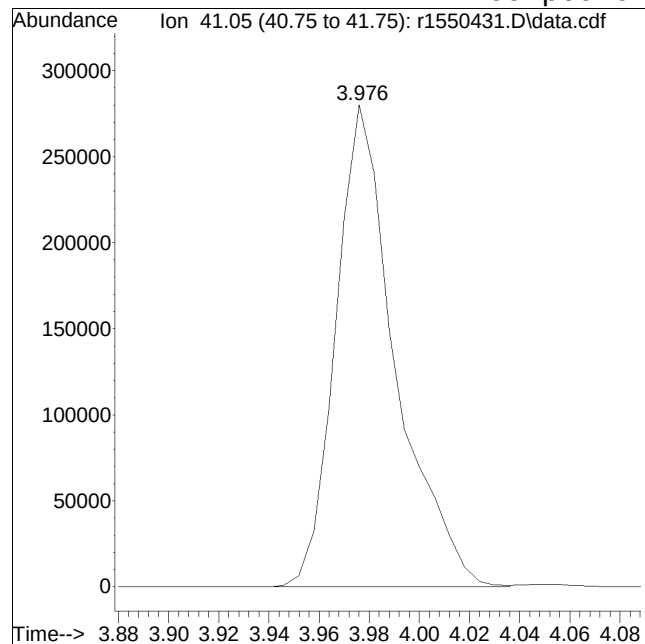
Quant Time: Oct 08 10:34:43 2024
Quant Method : 0:\Forensics\Data\AirLab15\2024\10\1007T_I\TFS15_241007.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Oct 08 10:34:01 2024
Response via : Initial Calibration



Manual Integration Report

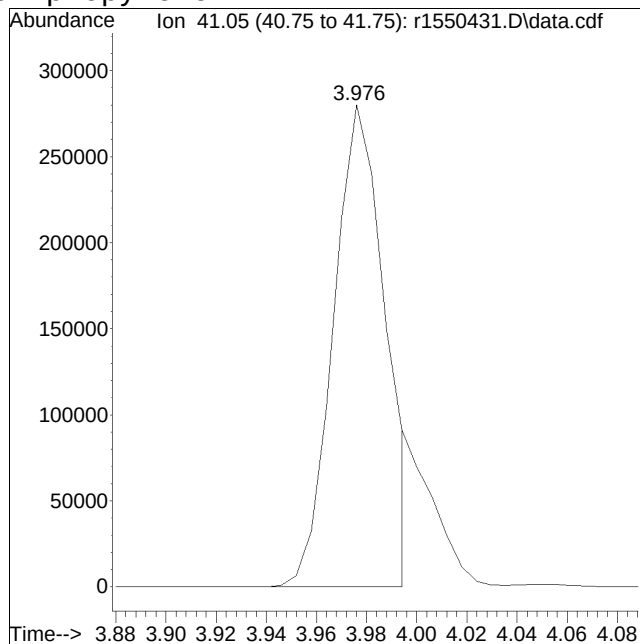
Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_241007.M
Data File : r1550431.D Operator : AIRLAB15:JMB
Date Inj'd : 10/7/2024 5:48 PM Instrument :
Sample : IT015-SIMSTD020 Quant Date : 10/8/2024 10:34 am

Compound #3: propylene



Original Peak Response = 464005

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 403017 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550432.D
 Acq On : 7 Oct 2024 6:26 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD050
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:49 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.192	49	363770	10.000	ppbV	0.00
Standard Area = 372739			Recovery =	97.59%		
43) 1,4-difluorobenzene	11.427	114	1115357	10.000	ppbV	0.00
Standard Area = 1100343			Recovery =	101.36%		
67) chlorobenzene-D5	16.092	54	158136	10.000	ppbV	# 0.00
Standard Area = 174527			Recovery =	90.61%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.058	65	260834	9.302	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.02%		
69) toluene-D8	14.250	98	1031488	11.206	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	112.06%		
90) bromofluorobenzene	17.450	95	729735	11.215	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	112.15%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.946	51	1461993	47.125	ppbV	98
3) propylene	3.976	41	975830M6	52.688	ppbV	
4) propane	4.000	29	955099	45.183	ppbV	94
5) dichlorodifluoromethane	4.048	85	1740986	47.772	ppbV	99
6) chloromethane	4.216	50	691403	51.816	ppbV	98
7) Freon-114	4.324	85	1709259	48.313	ppbV	95
8) methanol	4.390	31	1473067	237.449	ppbV	98
9) vinyl chloride	4.450	62	970263	49.660	ppbV	98
10) 1,3-butadiene	4.594	54	601037	50.116	ppbV	95
11) butane	4.654	43	1380594	53.460	ppbV	98
12) acetaldehyde	4.342	29	1395495	229.333	ppbV	84
13) bromomethane	4.882	94	767426	49.466	ppbV	100
14) chloroethane	5.074	64	490609	52.014	ppbV	100
15) ethanol	5.212	31	2265284	219.172	ppbV	86
16) dichlorofluoromethane	5.188	67	1603682	46.385	ppbV	99
17) vinyl bromide	5.457	106	819455	53.281	ppbV	99
18) acrolein	5.587	56	349699	51.804	ppbV	97
19) acetone	5.727	43	5057074	255.271	ppbV	94
20) acetonitrile	5.443	41	846161	53.262	ppbV	99
21) trichlorofluoromethane	5.920	101	1439481	48.680	ppbV	99
22) isopropyl alcohol	6.013	45	4388417	152.647	ppbV	99
23) acrylonitrile	6.250	53	1007482	52.582	ppbV	98
24) pentane	6.323	43	2215284	51.261	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550432.D
 Acq On : 7 Oct 2024 6:26 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD050
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:49 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.347	31	2148309	51.769	ppbV	93
26) 1,1-dichloroethene	6.630	61	1785379	50.808	ppbV	94
27) tertiary butyl alcohol	6.678	59	2275377	53.959	ppbV	99
28) methylene chloride	6.774	49	1259819	49.615	ppbV	94
29) 3-chloropropene	6.906	41	1619020	54.746	ppbV	98
30) carbon disulfide	7.080	76	3256069	51.694	ppbV	99
31) Freon 113	7.074	101	2139234	51.067	ppbV	97
32) trans-1,2-dichloroethene	7.825	61	1834652	52.189	ppbV	97
33) 1,1-dichloroethane	8.050	63	2314388	51.587	ppbV	98
34) MTBE	8.117	73	2751586	52.132	ppbV	98
35) vinyl acetate	8.233	43	2402023	55.975	ppbV	99
36) 2-butanone	8.492	43	2420586	53.081	ppbV	98
37) cis-1,2-dichloroethene	9.008	61	1770227	51.506	ppbV	96
38) Ethyl Acetate	9.275	61	459770	52.339	ppbV	88
39) chloroform	9.350	83	2013518	47.564	ppbV	99
40) Tetrahydrofuran	9.775	42	1563458	54.379	ppbV	98
41) 2,2-dichloropropane	9.375	77	1509738	49.001	ppbV	98
42) 1,2-dichloroethane	10.183	62	1304968	48.366	ppbV	98
44) hexane	9.258	57	2062542	44.704	ppbV	87
45) diisopropyl ether	9.250	87	1120977	46.679	ppbV	96
46) tert-butyl ethyl ether	9.867	59	3860310	47.634	ppbV	99
48) 1,1,1-trichloroethane	10.475	97	1928719	50.435	ppbV	97
49) 1,1-dichloropropene	10.840	75	1756880	48.928	ppbV	97
50) benzene	11.007	78	4222349	48.999	ppbV	99
51) thiophene	11.153	84	3006965	38.225	ppbV	98
52) carbon tetrachloride	11.173	117	1597196	47.666	ppbV	99
53) cyclohexane	11.320	56	2342577	47.348	ppbV	96
54) tert-amyl methyl ether	11.687	73	3377130	50.258	ppbV	99
55) dibromomethane	11.913	93	1294673	48.671	ppbV	97
56) 1,2-dichloropropane	11.947	63	1615259	49.673	ppbV	99
57) bromodichloromethane	12.173	83	2050288	47.803	ppbV	99
58) 1,4-dioxane	12.207	88	986162	48.837	ppbV	95
59) trichloroethene	12.227	130	1795320	49.513	ppbV	99
60) 2,2,4-trimethylpentane	12.273	57	6924295	44.675	ppbV	98
61) methyl methacrylate	12.460	41	1587490	52.815	ppbV	97
62) heptane	12.587	43	2484466	48.390	ppbV	97
63) cis-1,3-dichloropropene	13.233	75	2087142	51.539	ppbV	98
64) 4-methyl-2-pentanone	13.267	43	2902532	49.794	ppbV	98
65) trans-1,3-dichloropropene	13.858	75	1592919	52.050	ppbV	98
66) 1,1,2-trichloroethane	14.050	97	1671298	50.837	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550432.D
 Acq On : 7 Oct 2024 6:26 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD050
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:49 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.358	91	5080436	53.490	ppbV	100
70) 2-methylthiophene	14.425	97	4433817	43.373	ppbV	98
71) 1,3-dichloropropane	14.383	76	2180380	53.002	ppbV	99
72) 2-hexanone	14.633	43	2626987	54.852	ppbV	96
73) 3-methylthiophene	14.617	97	4655314	42.791	ppbV	99
74) dibromochloromethane	14.800	129	2167960	55.716	ppbV	98
75) 1,2-dibromoethane	15.042	107	2370860	56.545	ppbV	98
76) butyl acetate	15.267	73	596866	57.235	ppbV	88
77) octane	15.367	85	1839488	51.788	ppbV	97
78) tetrachloroethene	15.492	166	2080416	53.202	ppbV	94
79) 1,1,1,2-tetrachloroethane	16.117	131	1667702	52.662	ppbV	98
80) chlorobenzene	16.133	112	3799818	51.972	ppbV	99
81) ethylbenzene	16.483	91	6561702	52.931	ppbV	98
82) 2-ethylthiophene	16.517	97	5142686	41.881	ppbV	98
83) m+p-xylene	16.642	91	10033984	101.782	ppbV	98
84) bromoform	16.717	173	1988057	56.773	ppbV	99
85) styrene	16.967	104	4248678	55.435	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.058	83	3428687	47.907	ppbV	99
87) o-xylene	17.058	91	4821929	48.697	ppbV	98
88) 1,2,3-trichloropropane	17.167	75	2756523	51.882	ppbV	95
89) nonane	17.250	43	3782926	49.347	ppbV	99
91) isopropylbenzene	17.567	105	6500765	51.688	ppbV	99
92) bromobenzene	17.650	77	3572671	51.739	ppbV	93
93) 2-chlorotoluene	17.967	126	2006066	54.491	ppbV	71
94) n-propylbenzene	18.000	120	2281283	52.849	ppbV	87
95) 4-chlorotoluene	18.033	126	2002785	53.691	ppbV	88
96) 4-ethyl toluene	18.117	105	6828552	53.309	ppbV	99
97) 1,3,5-trimethylbenzene	18.183	105	6504244	51.966	ppbV	98
98) tert-butylbenzene	18.525	119	5444618	45.697	ppbV	99
99) 1,2,4-trimethylbenzene	18.525	105	5282809	47.232	ppbV	96
100) decane	18.600	57	4789063	47.191	ppbV #	97
101) Benzyl Chloride	18.642	91	4044170	57.660	ppbV	97
102) 1,3-dichlorobenzene	18.658	146	4060827	53.602	ppbV	98
103) 1,4-dichlorobenzene	18.717	146	3991736	52.537	ppbV	95
104) sec-butylbenzene	18.742	105	8061038	49.434	ppbV	95
105) 1,2,3-trimethylbenzene	18.875	105	4034152	45.274	ppbV	97
106) p-isopropyltoluene	18.875	119	5552544	44.926	ppbV	97
107) 1,2-dichlorobenzene	19.000	146	2914383	47.948	ppbV	96
108) n-butylbenzene	19.217	91	6450158	49.604	ppbV	94
109) indan	19.050	117	5602448	54.036	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550432.D
 Acq On : 7 Oct 2024 6:26 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-SIMSTD050
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:49 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

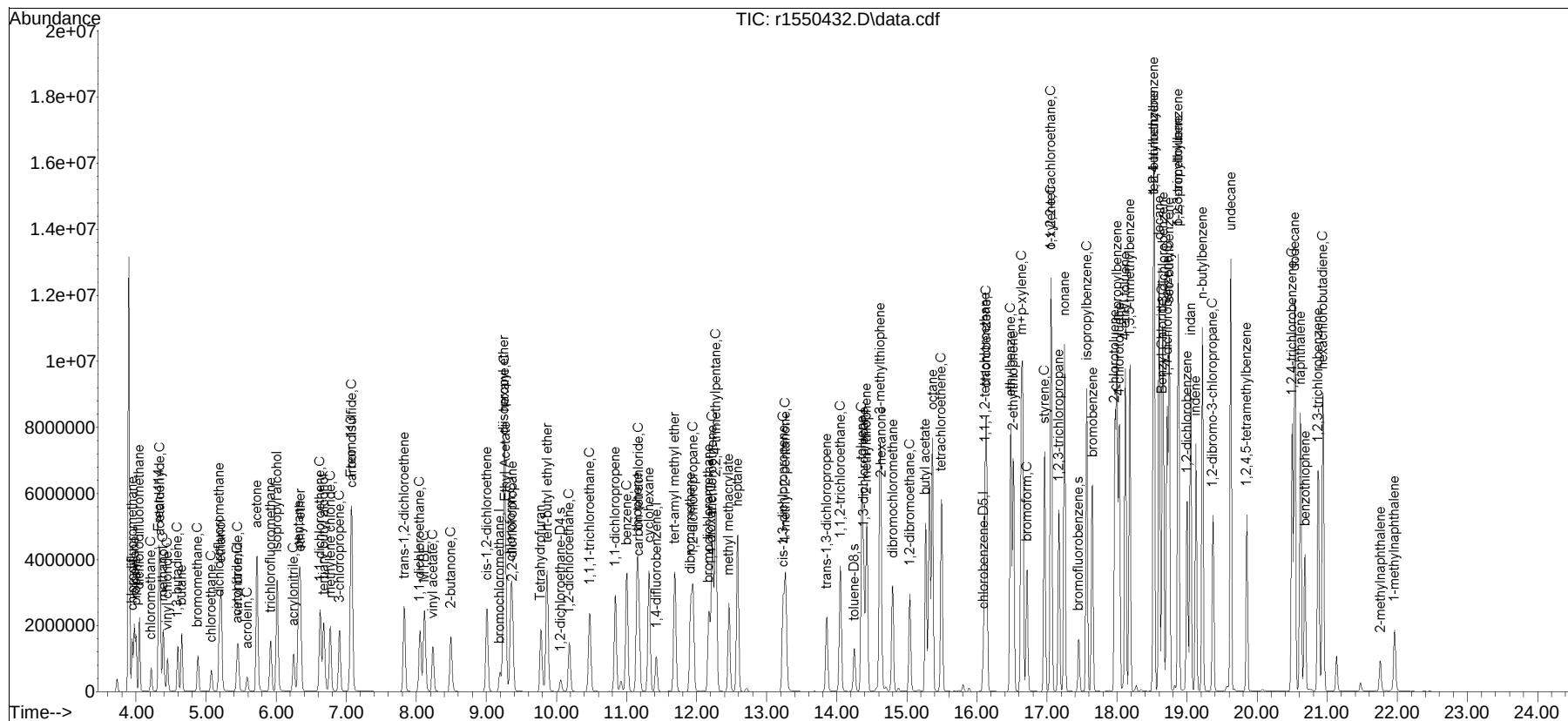
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.125	115	3986563	54.683	ppbV	100
111)	1,2-dibromo-3-chloropr...	19.367	75	1456968	53.198	ppbV	87
112)	undecane	19.625	57	5136196	45.520	ppbV #	93
113)	1,2,4,5-tetramethylben...	19.850	119	3033887	47.720	ppbV	98
114)	dodecane	20.533	57	4883384	41.689	ppbV	97
115)	1,2,4-trichlorobenzene	20.500	180	3112097	54.466	ppbV	98
116)	naphthalene	20.617	128	7976071	51.665	ppbV	99
117)	1,2,3-trichlorobenzene	20.867	180	2716673	52.681	ppbV	97
118)	benzothiophene	20.683	134	3827940	45.779	ppbV	99
119)	hexachlorobutadiene	20.933	225	2424248	50.423	ppbV	92
120)	2-methylnaphthalene	21.758	142	650630	44.990	ppbV	97
121)	1-methylnaphthalene	21.958	142	1289458	41.731	ppbV	98

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

Sub List : Default - All compounds listed4\10\1007T_I\r1550430.D

Data Path : 0:\Forensics\Data\AirLab15\2024\10\1007T_I\
Data File : r1550432.D
Acq On : 7 Oct 2024 6:26 PM
Operator : AIRLAB15:JMB
Sample : IT015-SIMSTD050
Misc : WG1982090
ALS Vial : 0 Sample Multiplier: 1

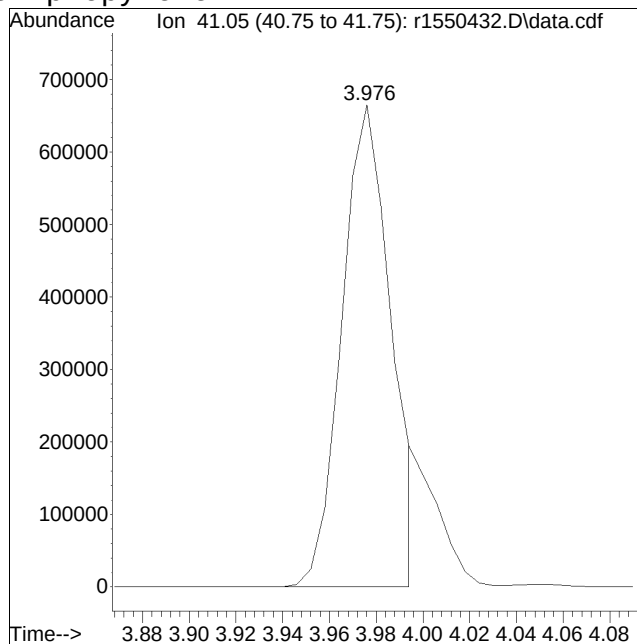
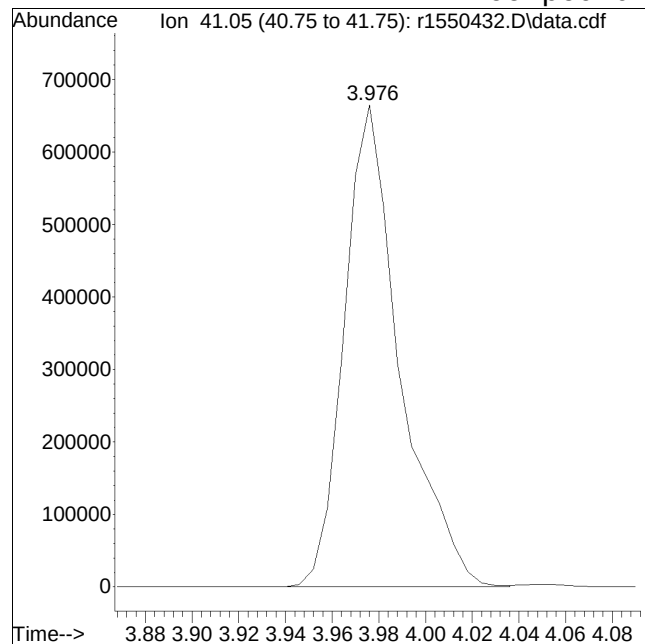
Quant Time: Oct 08 10:34:49 2024
Quant Method : 0:\Forensics\Data\AirLab15\2024\10\1007T_I\TFS15_241007.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Oct 08 10:34:01 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_241007.M
Data File : r1550432.D Operator : AIRLAB15:JMB
Date Inj'd : 10/7/2024 6:26 PM Instrument :
Sample : IT015-SIMSTD050 Quant Date : 10/8/2024 10:34 am

Compound #3: propylene



M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550433.D
 Acq On : 7 Oct 2024 7:05 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-LLSTD100
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:55 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.200	49	364844	10.000	ppbV	0.00
Standard Area = 372739			Recovery =		97.88%	
43) 1,4-difluorobenzene	11.427	114	1121638	10.000	ppbV	0.00
Standard Area = 1100343			Recovery =		101.94%	
67) chlorobenzene-D5	16.092	54	147046	10.000	ppbV	# 0.00
Standard Area = 174527			Recovery =		84.25%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.067	65	255549	9.062	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		90.62%	
69) toluene-D8	14.250	98	1032400	12.062	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		120.62%	
90) bromofluorobenzene	17.450	95	719791	11.896	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		118.96%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.946	51	2765958	88.894	ppbV	98
3) propylene	3.976	41	1813301M6	97.618	ppbV	
4) propane	4.006	29	1660859	78.340	ppbV	# 87
5) dichlorodifluoromethane	4.054	85	3181701	87.047	ppbV	99
6) chloromethane	4.222	50	1365642	102.045	ppbV	96
7) Freon-114	4.330	85	3021704	85.158	ppbV	93
8) methanol	4.396	31	2642109	424.637	ppbV	98
9) vinyl chloride	4.456	62	1777519	90.708	ppbV	99
10) 1,3-butadiene	4.600	54	1126819	93.681	ppbV	93
11) butane	4.654	43	2753140	106.295	ppbV	96
12) acetaldehyde	4.348	29	2448852	401.255	ppbV	# 76
13) bromomethane	4.888	94	1427976	91.773	ppbV	96
14) chloroethane	5.080	64	911783	96.381	ppbV	99
15) ethanol	5.224	31	3555137	342.957	ppbV	# 75
16) dichlorofluoromethane	5.194	67	2764982	79.739	ppbV	98
17) vinyl bromide	5.463	106	1535368	99.536	ppbV	100
18) acrolein	5.590	56	668687	98.768	ppbV	98
19) acetone	5.733	43	9414687	473.835	ppbV	89
20) acetonitrile	5.450	41	1652407	103.704	ppbV	98
21) trichlorofluoromethane	5.927	101	2882402	97.190	ppbV	98
22) isopropyl alcohol	6.027	45	8506654	295.026	ppbV	100
23) acrylonitrile	6.257	53	1887330	98.212	ppbV	98
24) pentane	6.327	43	4825292	111.326	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550433.D
 Acq On : 7 Oct 2024 7:05 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-LLSTD100
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:55 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.350	31	3802381	91.358	ppbV	# 87
26) 1,1-dichloroethene	6.630	61	3311675	93.966	ppbV	91
27) tertiary butyl alcohol	6.690	59	4276254	101.111	ppbV	100
28) methylene chloride	6.780	49	2343844	92.035	ppbV	95
29) 3-chloropropene	6.906	41	3244449	109.385	ppbV	96
30) carbon disulfide	7.080	76	5962191	94.379	ppbV	99
31) Freon 113	7.074	101	3902523	92.885	ppbV	94
32) trans-1,2-dichloroethene	7.833	61	3422323	97.065	ppbV	96
33) 1,1-dichloroethane	8.058	63	4388378	97.528	ppbV	98
34) MTBE	8.117	73	5354677	101.152	ppbV	96
35) vinyl acetate	8.242	43	4768292	110.789	ppbV	100
36) 2-butanone	8.500	43	4756777	104.005	ppbV	98
37) cis-1,2-dichloroethene	9.008	61	3269562	94.850	ppbV	91
38) Ethyl Acetate	9.283	61	821153	93.203	ppbV	74
39) chloroform	9.358	83	3528577	83.107	ppbV	99
40) Tetrahydrofuran	9.783	42	3068002	106.394	ppbV	98
41) 2,2-dichloropropane	9.375	77	2781053	89.998	ppbV	98
42) 1,2-dichloroethane	10.192	62	2378957	87.912	ppbV	98
44) hexane	9.258	57	3368631	72.604	ppbV	91
45) diisopropyl ether	9.250	87	1946256	80.591	ppbV	99
46) tert-butyl ethyl ether	9.867	59	6900774	84.674	ppbV	99
48) 1,1,1-trichloroethane	10.475	97	3620285	94.139	ppbV	95
49) 1,1-dichloropropene	10.847	75	3316719	91.852	ppbV	96
50) benzene	11.007	78	7842719	90.502	ppbV	97
51) thiophene	11.153	84	5348731	67.613	ppbV	97
52) carbon tetrachloride	11.180	117	2902377	86.133	ppbV	98
53) cyclohexane	11.327	56	4177300	83.958	ppbV	92
54) tert-amyl methyl ether	11.693	73	6470676	95.757	ppbV	98
55) dibromomethane	11.920	93	2298293	85.916	ppbV	96
56) 1,2-dichloropropane	11.953	63	2942444	89.980	ppbV	98
57) bromodichloromethane	12.180	83	3695451	85.678	ppbV	99
58) 1,4-dioxane	12.207	88	1752532	86.303	ppbV	94
59) trichloroethene	12.233	130	3192247	87.546	ppbV	96
60) 2,2,4-trimethylpentane	12.280	57	11686396	74.978	ppbV	# 93
61) methyl methacrylate	12.467	41	3074445	101.713	ppbV	96
62) heptane	12.587	43	4654104	90.140	ppbV	93
63) cis-1,3-dichloropropene	13.233	75	3929987	96.502	ppbV	98
64) 4-methyl-2-pentanone	13.275	43	5460734	93.156	ppbV	95
65) trans-1,3-dichloropropene	13.858	75	3049090	99.074	ppbV	99
66) 1,1,2-trichloroethane	14.058	97	3084921	93.311	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550433.D
 Acq On : 7 Oct 2024 7:05 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-LLSTD100
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:55 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.358	91	8841113	100.105	ppbV	99
70) 2-methylthiophene	14.433	97	8065405	84.849	ppbV	99
71) 1,3-dichloropropane	14.392	76	3992931	104.383	ppbV	98
72) 2-hexanone	14.633	43	4779189	107.317	ppbV	91
73) 3-methylthiophene	14.617	97	8068596	79.758	ppbV	98
74) dibromochloromethane	14.800	129	3823490	105.674	ppbV	97
75) 1,2-dibromoethane	15.042	107	4321156	110.833	ppbV	95
76) butyl acetate	15.275	73	1143442	117.918	ppbV	80
77) octane	15.367	85	3257047	98.612	ppbV	96
78) tetrachloroethene	15.500	166	3654835	100.513	ppbV	95
79) 1,1,1,2-tetrachloroethane	16.125	131	2839958	96.443	ppbV	98
80) chlorobenzene	16.142	112	6605473	97.160	ppbV	98
81) ethylbenzene	16.483	91	11292252	97.960	ppbV	94
82) 2-ethylthiophene	16.525	97	8985870	78.698	ppbV	97
83) m+p-xylene	16.650	91	16595567	181.037	ppbV	94
84) bromoform	16.717	173	3569244	109.613	ppbV	98
85) styrene	16.967	104	7829959	109.867	ppbV	97
86) 1,1,2,2-tetrachloroethane	17.058	83	5439976	81.742	ppbV	98
87) o-xylene	17.067	91	7642043	82.998	ppbV	96
88) 1,2,3-trichloropropane	17.175	75	5011806	101.443	ppbV	95
89) nonane	17.250	43	6624331	92.929	ppbV #	91
91) isopropylbenzene	17.567	105	11328419	96.865	ppbV	99
92) bromobenzene	17.650	77	6324207	98.494	ppbV	89
93) 2-chlorotoluene	17.975	126	3524518	102.958	ppbV	79
94) n-propylbenzene	18.000	120	3872568	96.480	ppbV	67
95) 4-chlorotoluene	18.033	126	3580889	103.236	ppbV	82
96) 4-ethyl toluene	18.117	105	11896146	99.875	ppbV	100
97) 1,3,5-trimethylbenzene	18.183	105	11375551	97.739	ppbV	97
98) tert-butylbenzene	18.525	119	8323190	75.125	ppbV	96
99) 1,2,4-trimethylbenzene	18.533	105	8242518	79.252	ppbV	88
100) decane	18.600	57	7663525	81.210	ppbV #	89
101) Benzyl Chloride	18.650	91	7076872	108.508	ppbV	97
102) 1,3-dichlorobenzene	18.658	146	6993649	99.277	ppbV	98
103) 1,4-dichlorobenzene	18.717	146	6891924	97.549	ppbV	95
104) sec-butylbenzene	18.750	105	13426365	88.546	ppbV	94
105) 1,2,3-trimethylbenzene	18.883	105	5888648	71.070	ppbV	100
106) p-isopropyltoluene	18.875	119	8237051	71.673	ppbV	99
107) 1,2-dichlorobenzene	19.000	146	5629723	99.607	ppbV	96
108) n-butylbenzene	19.225	91	10809639	89.399	ppbV	92
109) indan	19.050	117	9678381	100.389	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550433.D
 Acq On : 7 Oct 2024 7:05 PM
 Operator : AIRLAB15:JMB
 Sample : IT015-LLSTD100
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 10:34:55 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 10:34:01 2024
 Response via : Initial Calibration

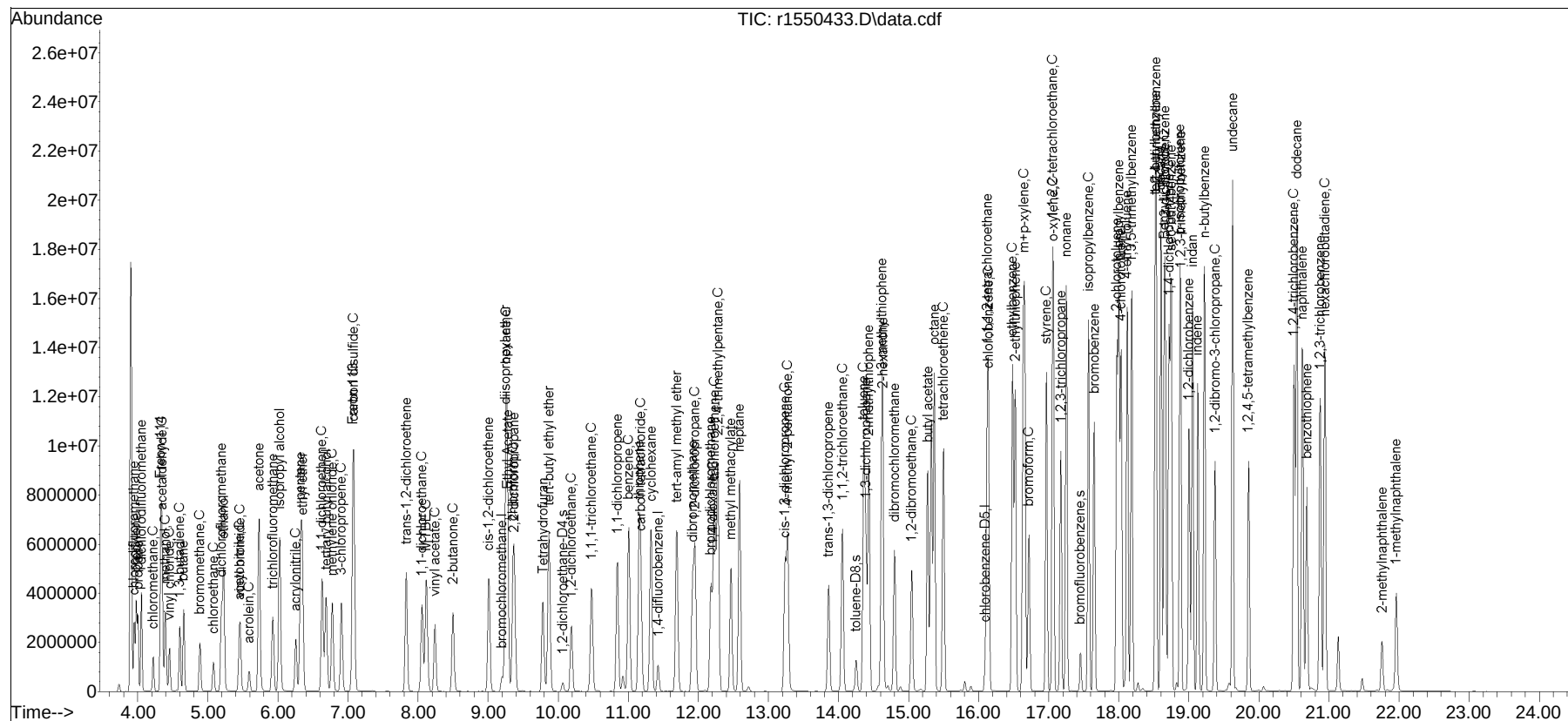
CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.125	115	7289715	107.533	ppbV	99
111)	1,2-dibromo-3-chloropr...	19.375	75	2700846	106.054	ppbV	91
112)	undecane	19.625	57	8072814	76.941	ppbV #	84
113)	1,2,4,5-tetramethylben...	19.850	119	5654715	95.652	ppbV	97
114)	dodecane	20.542	57	7713914	70.820	ppbV	86
115)	1,2,4-trichlorobenzene	20.500	180	5441716	102.420	ppbV	99
116)	naphthalene	20.617	128	14207494	98.970	ppbV	97
117)	1,2,3-trichlorobenzene	20.875	180	5031577	104.929	ppbV	94
118)	benzothiophene	20.683	134	7327502	94.239	ppbV	99
119)	hexachlorobutadiene	20.942	225	4050407	90.599	ppbV	92
120)	2-methylnaphthalene	21.758	142	1436768	106.843	ppbV	97
121)	1-methylnaphthalene	21.958	142	2725373	94.853	ppbV	97

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

```
Data Path : 0:\Forensics\Data\AirLab15\2024\10\1007T_I\
Data File : r1550433.D
Acq On    : 7 Oct 2024    7:05 PM
Operator  : AIRLAB15:JMB
Sample    : IT015-LLSTD100
Misc      : WG1982090
ALS Vial  : 0    Sample Multiplier: 1
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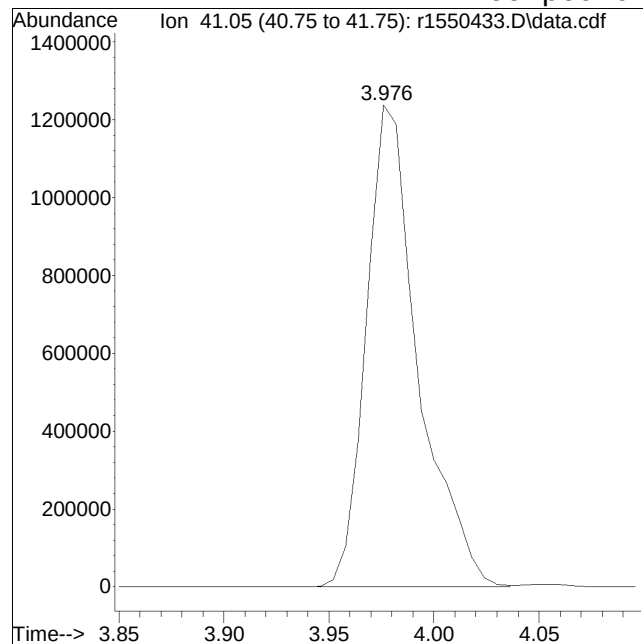
Quant Time: Oct 08 10:34:55 2024
Quant Method : 0:\Forensics\Data\AirLab15\2024\10\1007T_I\TFS15_241007.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Oct 08 10:34:01 2024
Response via : Initial Calibration



Manual Integration Report

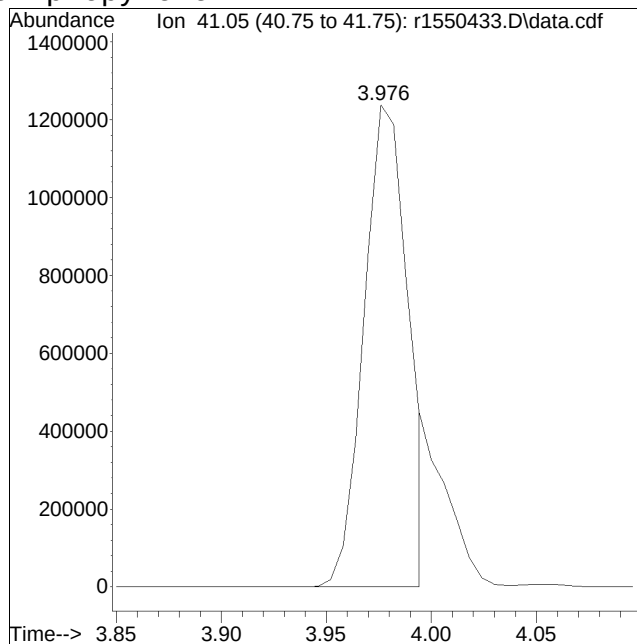
Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_241007.M
Data File : r1550433.D Operator : AIRLAB15:JMB
Date Inj'd : 10/7/2024 7:05 PM Instrument :
Sample : IT015-LLSTD100 Quant Date : 10/8/2024 10:34 am

Compound #3: propylene



Original Peak Response = 2129382

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 1813301 M6

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550436.D
 Acq On : 8 Oct 2024 11:58 AM
 Operator : AIRLAB15:JMB
 Sample : CT015-LLSTD10.0
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 13:56:25 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	88	0.00
2	chlorodifluoromethane	1.108	0.793	28.4	82	-0.01
3	propylene	0.618	0.639	-3.4	111	-0.01
4	propane	0.652	0.524	19.6	80	-0.01
5	dichlorodifluoromethane	1.188	0.988	16.8	87	-0.01
6 C	chloromethane	0.438	0.386	11.9	93	-0.01
7	Freon-114	1.149	1.166	-1.5	106	-0.01
8 C	methanol	0.182	0.154	15.4	80	-0.01
9 C	vinyl chloride	0.611	0.564	7.7	93	-0.01
10 C	1,3-butadiene	0.384	0.363	5.5	97	-0.01
11	butane	0.845	0.795	5.9	99	-0.01
13 C	bromomethane	0.488	0.478	2.0	99	-0.01
14 C	chloroethane	0.309	0.300	2.9	102	-0.01
15	ethanol	0.277	0.280	-1.1	87	-0.01
16	dichlorofluoromethane	1.158	1.008	13.0	93	-0.01
17 C	vinyl bromide	0.491	0.480	2.2	100	-0.01
18 C	acrolein	0.204	0.182	10.8	87	0.00
19	acetone	0.645	0.654	-1.4	106	-0.01
20 C	acetonitrile	0.515	0.477	7.4	96	-0.01
21	trichlorofluoromethane	0.959	0.841	12.3	91	0.00
22	isopropyl alcohol	0.975	0.720	26.2	80	-0.02
23 C	acrylonitrile	0.602	0.557	7.5	93	-0.01
24	pentane	1.403	1.276	9.1	95	-0.01
25	ethyl ether	1.286	1.006	21.8	78	0.00
26 C	1,1-dichloroethene	1.110	1.096	1.3	100	-0.02
27	tertiary butyl alcohol	1.270	1.234	2.8	94	-0.01
28 C	methylene chloride	0.795	0.755	5.0	95	-0.02
29 C	3-chloropropene	0.935	1.026	-9.7	111	-0.02
30 C	carbon disulfide	1.941	1.899	2.2	97	-0.01
31	Freon 113	1.347	1.350	-0.2	103	-0.02
32	trans-1,2-dichloroethene	1.078	1.058	1.9	96	0.00
33 C	1,1-dichloroethane	1.427	1.394	2.3	100	0.00
34 C	MTBE	1.645	1.687	-2.6	102	-0.02
35 C	vinyl acetate	1.319	1.211	8.2	90	-0.02
36 C	2-butanone	1.399	1.427	-2.0	100	-0.02
37	cis-1,2-dichloroethene	1.062	1.052	0.9	98	-0.02
38	Ethyl Acetate	0.266	0.288	-8.3	105	-0.02
39 C	chloroform	1.342	1.200	10.6	91	-0.02
40	Tetrahydrofuran	0.870	0.902	-3.7	101	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550436.D
 Acq On : 8 Oct 2024 11:58 AM
 Operator : AIRLAB15:JMB
 Sample : CT015-LLSTD10.0
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 13:56:25 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	0.955	0.817	14.5	85	0.00
42 C	1,2-dichloroethane	0.863	0.756	12.4	90	0.00
43 I	1,4-difluorobenzene	1.000	1.000	0.0	96	-0.02
44 C	hexane	0.447	0.414	7.4	96	-0.02
45	diisopropyl ether	0.236	0.202	14.4	90	0.00
46	tert-butyl ethyl ether	0.789	0.667	15.5	88	0.00
47 s	1,2-dichloroethane-D4	0.246	0.232	5.7	89	0.00
48 C	1,1,1-trichloroethane	0.388	0.332	14.4	93	-0.02
49	1,1-dichloropropene	0.353	0.313	11.3	94	-0.01
50 C	benzene	0.876	0.759	13.4	94	0.00
52 C	carbon tetrachloride	0.331	0.291	12.1	93	-0.01
53	cyclohexane	0.484	0.443	8.5	96	-0.01
54	tert-amyl methyl ether	0.663	0.592	10.7	95	-0.01
55	dibromomethane	0.268	0.224	16.4	90	0.00
56 C	1,2-dichloropropane	0.332	0.300	9.6	99	-0.01
57	bromodichloromethane	0.420	0.383	8.8	96	-0.02
58 C	1,4-dioxane	0.192	0.188	2.1	100	-0.01
59 C	trichloroethene	0.364	0.330	9.3	98	-0.01
60 C	2,2,4-trimethylpentane	1.508	1.383	8.3	96	-0.01
61	methyl methacrylate	0.289	0.299	-3.5	107	-0.01
62	heptane	0.507	0.481	5.1	101	-0.01
63 C	cis-1,3-dichloropropene	0.389	0.385	1.0	102	-0.02
64 C	4-methyl-2-pentanone	0.551	0.547	0.7	101	0.00
65	trans-1,3-dichloropropene	0.292	0.292	0.0	102	-0.02
66 C	1,1,2-trichloroethane	0.340	0.309	9.1	101	0.00
67 I	chlorobenzene-D5	1.000	1.000	0.0	85	0.00
68 C	toluene	6.888	6.787	1.5	96	0.00
69 s	toluene-D8	6.013	6.672	-11.0	97	0.00
71	1,3-dichloropropane	2.985	2.705	9.4	88	0.00
72	2-hexanone	3.225	3.583	-11.1	100	0.00
74	dibromochloromethane	2.686	2.967	-10.5	102	-0.02
75 C	1,2-dibromoethane	3.065	3.145	-2.6	101	0.00
76	butyl acetate	0.707	0.708	-0.1	91	0.00
77	octane	2.596	2.340	9.9	88	0.00
78 C	tetrachloroethene	2.822	2.782	1.4	96	-0.02
79	1,1,1,2-tetrachloroethane	2.233	2.178	2.5	92	-0.02
80 C	chlorobenzene	5.324	5.229	1.8	96	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550436.D
 Acq On : 8 Oct 2024 11:58 AM
 Operator : AIRLAB15:JMB
 Sample : CT015-LLSTD10.0
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 13:56:25 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81 C	ethylbenzene	8.749	8.748	0.0	95	0.00
83 C	m+p-xylene	6.982	7.021	-0.6	96	-0.02
84 C	bromoform	2.368	2.647	-11.8	102	-0.02
85 C	styrene	5.374	5.635	-4.9	99	0.00
86 C	1,1,2,2-tetrachloroethane	5.045	4.924	2.4	92	0.00
87 C	o-xylene	6.964	7.111	-2.1	96	0.00
88	1,2,3-trichloropropane	3.855	3.412	11.5	86	0.00
89	nonane	5.429	4.996	8.0	88	0.00
90 s	bromofluorobenzene	4.223	4.452	-5.4	92	0.00
91 C	isopropylbenzene	9.016	8.817	2.2	94	0.00
92	bromobenzene	5.032	4.540	9.8	88	0.00
93	2-chlorotoluene	2.611	2.469	5.4	90	0.00
94	n-propylbenzene	3.058	2.930	4.2	91	0.00
95	4-chlorotoluene	2.670	2.476	7.3	89	0.00
96	4-ethyl toluene	9.161	9.336	-1.9	98	0.00
97	1,3,5-trimethylbenzene	9.116	9.166	-0.5	98	0.00
98	tert-butylbenzene	8.237	8.000	2.9	90	0.00
99	1,2,4-trimethylbenzene	7.766	8.137	-4.8	98	0.00
100	decane	7.019	6.559	6.6	87	0.00
101 C	Benzyl Chloride	4.594	4.797	-4.4	92	0.00
102	1,3-dichlorobenzene	5.360	5.379	-0.4	95	0.00
103 C	1,4-dichlorobenzene	5.377	5.472	-1.8	97	0.00
104	sec-butylbenzene	11.421	10.947	4.2	90	0.00
106	p-isopropyltoluene	8.477	7.522	11.3	82	0.00
107	1,2-dichlorobenzene	4.497	5.071	-12.8	112	0.00
108	n-butylbenzene	9.015	8.924	1.0	92	0.00
111 C	1,2-dibromo-3-chloropropane	1.821	1.722	5.4	84	0.00
112	undecane	7.434	7.339	1.3	87	0.00
114	dodecane	6.614	7.251	-9.6	83	0.00
115 C	1,2,4-trichlorobenzene	3.531	3.787	-7.3	89	0.00
116	naphthalene	9.389	9.484	-1.0	83	0.00
117	1,2,3-trichlorobenzene	3.165	3.269	-3.3	85	0.00
119 C	hexachlorobutadiene	3.194	3.252	-1.8	91	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550436.D
 Acq On : 8 Oct 2024 11:58 AM
 Operator : AIRLAB15:JMB
 Sample : CT015-LLSTD10.0
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 13:56:25 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.183	49	328501	10.000	ppbV	0.00
Standard Area = 372739			Recovery =	88.13%		
43) 1,4-difluorobenzene	11.407	114	1058142	10.000	ppbV	-0.02
Standard Area = 1100343			Recovery =	96.16%		
67) chlorobenzene-D5	16.092	54	148235	10.000	ppbV	0.00
Standard Area = 174527			Recovery =	84.94%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.050	65	245275	9.427	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.27%		
69) toluene-D8	14.242	98	989095	11.096	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	110.96%		
90) bromofluorobenzene	17.450	95	659883	10.542	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	105.42%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.934	51	260633	7.163	ppbV	98
3) propylene	3.964	41	209957M6	10.341	ppbV	
4) propane	3.988	29	172200	8.043	ppbV	90
5) dichlorodifluoromethane	4.036	85	324498	8.313	ppbV	98
6) chloromethane	4.204	50	126642	8.808	ppbV	97
7) Freon-114	4.312	85	383040	10.147	ppbV	92
8) methanol	4.378	31	253350	42.380	ppbV	98
9) vinyl chloride	4.438	62	185416	9.235	ppbV	98
10) 1,3-butadiene	4.582	54	119262	9.456	ppbV	95
11) butane	4.642	43	261194	9.412	ppbV	96
13) bromomethane	4.870	94	157108	9.791	ppbV	97
14) chloroethane	5.062	64	98427	9.697	ppbV	100
15) ethanol	5.200	31	460145	50.487	ppbV	86
16) dichlorofluoromethane	5.176	67	331129	8.702	ppbV	99
17) vinyl bromide	5.443	106	157625	9.772	ppbV	100
18) acrolein	5.577	56	59903	8.941	ppbV	98
19) acetone	5.717	43	1073398	50.633	ppbV	95
20) acetonitrile	5.430	41	156575	9.259	ppbV	99
21) trichlorofluoromethane	5.910	101	276428	8.773	ppbV	97
22) isopropyl alcohol	6.000	45	590963	18.449	ppbV	99
23) acrylonitrile	6.237	53	183015	9.248	ppbV	99
24) pentane	6.310	43	419240	9.099	ppbV	98
25) ethyl ether	6.340	31	330366	7.821	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550436.D
 Acq On : 8 Oct 2024 11:58 AM
 Operator : AIRLAB15:JMB
 Sample : CT015-LLSTD10.0
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 13:56:25 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) 1,1-dichloroethene	6.612	61	359940	9.872	ppbV	95
27) tertiary butyl alcohol	6.678	59	405405	9.721	ppbV	100
28) methylene chloride	6.756	49	248135	9.506	ppbV	94
29) 3-chloropropene	6.888	41	337137	10.971	ppbV	97
30) carbon disulfide	7.062	76	623888	9.783	ppbV	98
31) Freon 113	7.056	101	443620	10.025	ppbV	96
32) trans-1,2-dichloroethene	7.817	61	347393	9.813	ppbV	97
33) 1,1-dichloroethane	8.042	63	457967	9.769	ppbV	100
34) MTBE	8.108	73	554136	10.256	ppbV	97
35) vinyl acetate	8.225	43	397701	9.180	ppbV	98
36) 2-butanone	8.483	43	468751	10.197	ppbV	99
37) cis-1,2-dichloroethene	8.992	61	345734	9.911	ppbV	96
38) Ethyl Acetate	9.258	61	94525	10.808	ppbV	87
39) chloroform	9.333	83	394230	8.944	ppbV	98
40) Tetrahydrofuran	9.775	42	296422	10.367	ppbV	99
41) 2,2-dichloropropane	9.358	77	268236	8.553	ppbV	93
42) 1,2-dichloroethane	10.175	62	248191	8.758	ppbV	99
44) hexane	9.242	57	438201	9.260	ppbV	91
45) diisopropyl ether	9.242	87	213319	8.560	ppbV	95
46) tert-butyl ethyl ether	9.858	59	705599	8.453	ppbV	99
48) 1,1,1-trichloroethane	10.458	97	350973	8.541	ppbV	97
49) 1,1-dichloropropene	10.827	75	331666	8.872	ppbV	98
50) benzene	10.993	78	802798	8.657	ppbV	98
52) carbon tetrachloride	11.160	117	307560	8.788	ppbV	99
53) cyclohexane	11.307	56	468615	9.143	ppbV	97
54) tert-amyl methyl ether	11.680	73	626814	8.934	ppbV	98
55) dibromomethane	11.907	93	236552	8.347	ppbV	97
56) 1,2-dichloropropane	11.933	63	317531	9.044	ppbV	97
57) bromodichloromethane	12.160	83	404956	9.118	ppbV	99
58) 1,4-dioxane	12.207	88	198952	9.805	ppbV	98
59) trichloroethene	12.213	130	349253	9.076	ppbV	97
60) 2,2,4-trimethylpentane	12.260	57	1463668	9.171	ppbV	98
61) methyl methacrylate	12.453	41	316270	10.358	ppbV	97
62) heptane	12.573	43	509282	9.492	ppbV	96
63) cis-1,3-dichloropropene	13.225	75	407705	9.907	ppbV	99
64) 4-methyl-2-pentanone	13.267	43	578548	9.927	ppbV	98
65) trans-1,3-dichloropropene	13.842	75	309056	10.012	ppbV	99
66) 1,1,2-trichloroethane	14.042	97	327153	9.105	ppbV	94
68) toluene	14.350	91	1006050	9.853	ppbV	99
71) 1,3-dichloropropane	14.375	76	401046	9.065	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550436.D
 Acq On : 8 Oct 2024 11:58 AM
 Operator : AIRLAB15:JMB
 Sample : CT015-LLSTD10.0
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 13:56:25 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 2-hexanone	14.625	43	531145	11.111	ppbV	93
74) dibromochloromethane	14.783	129	439808	11.044	ppbV	98
75) 1,2-dibromoethane	15.033	107	466250	10.263	ppbV	96
76) butyl acetate	15.267	73	104974	10.014	ppbV	90
77) octane	15.358	85	346870	9.013	ppbV	97
78) tetrachloroethene	15.483	166	412319	9.856	ppbV	93
79) 1,1,1,2-tetrachloroethane	16.108	131	322893	9.753	ppbV	97
80) chlorobenzene	16.125	112	775122	9.822	ppbV	98
81) ethylbenzene	16.475	91	1296810	9.999	ppbV	100
83) m+p-xylene	16.633	91	2081484	20.110	ppbV	98
84) bromoform	16.700	173	392381	11.180	ppbV	99
85) styrene	16.958	104	835237	10.485	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.050	83	729972	9.761	ppbV	98
87) o-xylene	17.050	91	1054163	10.211	ppbV	99
88) 1,2,3-trichloropropane	17.167	75	505845	8.851	ppbV	98
89) nonane	17.242	43	740580	9.203	ppbV	100
91) isopropylbenzene	17.558	105	1306917	9.779	ppbV	100
92) bromobenzene	17.642	77	672971	9.022	ppbV	96
93) 2-chlorotoluene	17.967	126	365977	9.457	ppbV	98
94) n-propylbenzene	17.992	120	434393	9.584	ppbV	98
95) 4-chlorotoluene	18.025	126	366985	9.273	ppbV	98
96) 4-ethyl toluene	18.117	105	1383939	10.191	ppbV	97
97) 1,3,5-trimethylbenzene	18.175	105	1358663	10.055	ppbV	98
98) tert-butylbenzene	18.517	119	1185829	9.712	ppbV	100
99) 1,2,4-trimethylbenzene	18.517	105	1206173	10.477	ppbV	97
100) decane	18.592	57	972309	9.345	ppbV	99
101) Benzyl Chloride	18.642	91	711122	10.442	ppbV	100
102) 1,3-dichlorobenzene	18.650	146	797417	10.036	ppbV	98
103) 1,4-dichlorobenzene	18.708	146	811088	10.177	ppbV	99
104) sec-butylbenzene	18.742	105	1622727	9.585	ppbV	99
106) p-isopropyltoluene	18.867	119	1114956	8.872	ppbV	95
107) 1,2-dichlorobenzene	18.992	146	751636	11.274	ppbV	94
108) n-butylbenzene	19.217	91	1322791	9.898	ppbV	97
111) 1,2-dibromo-3-chloropr...	19.367	75	255279	9.458	ppbV	94
112) undecane	19.617	57	1087912	9.872	ppbV	98
114) dodecane	20.533	57	1074895	10.963	ppbV	99
115) 1,2,4-trichlorobenzene	20.492	180	561339	10.724	ppbV	98
116) naphthalene	20.608	128	1405806	10.101	ppbV	99
117) 1,2,3-trichlorobenzene	20.867	180	484625	10.330	ppbV	97
119) hexachlorobutadiene	20.933	225	482085	10.184	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\
 Data File : r1550436.D
 Acq On : 8 Oct 2024 11:58 AM
 Operator : AIRLAB15:JMB
 Sample : CT015-LLSTD10.0
 Misc : WG1982090
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 08 13:56:25 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\TFS15_241007.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1007T_I\r1550430.D
 Sub List : Default-ICV-AP2 - All compounds listed

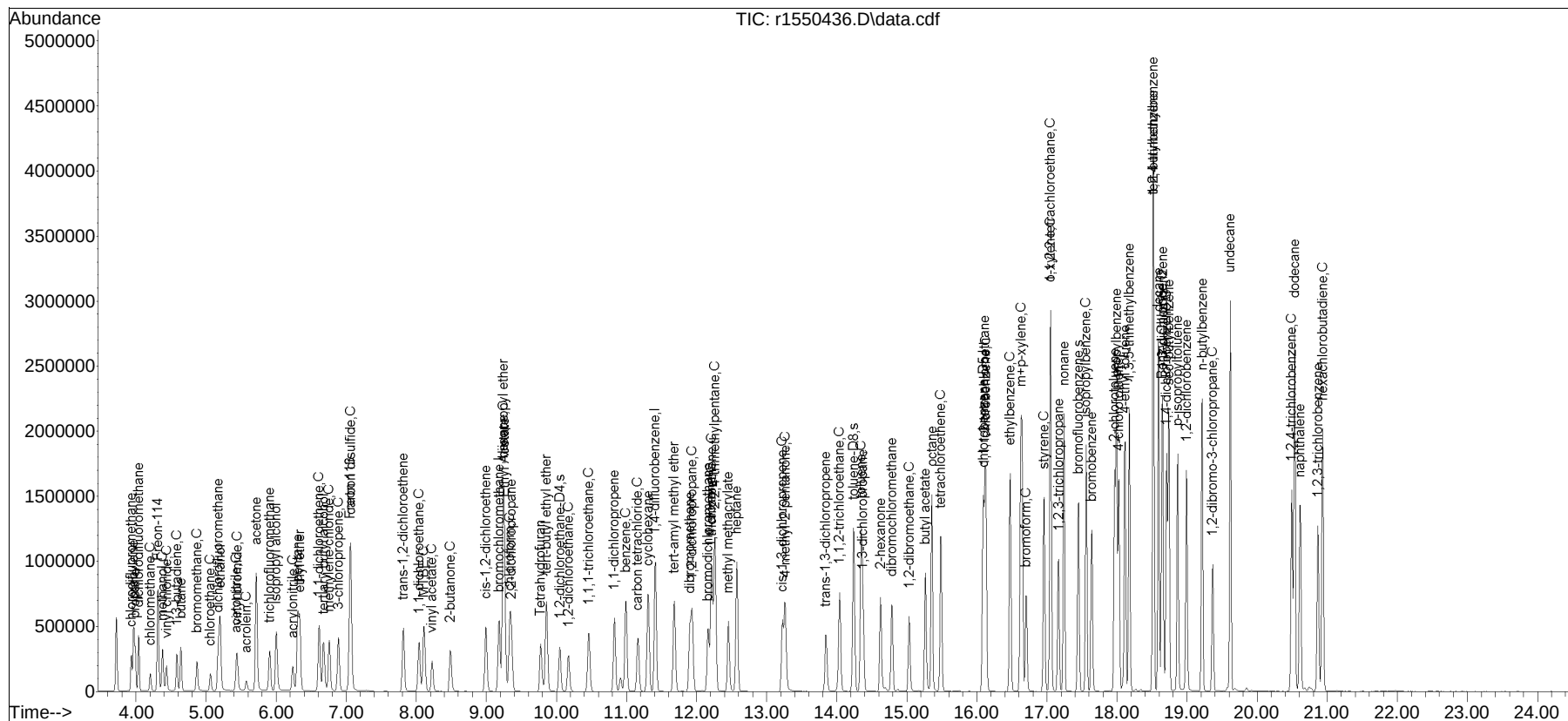
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Sub List : Default-ICV-AP2 - All compounds listed7T_I\r1550430.D

Data Path : 0:\Forensics\Data\AirLab15\2024\10\1007T_I\
Data File : r1550436.D
Acq On : 8 Oct 2024 11:58 AM
Operator : AIRLAB15:JMB
Sample : CT015-LLSTD10.0
Misc : WG1982090
ALS Vial : 0 Sample Multiplier: 1

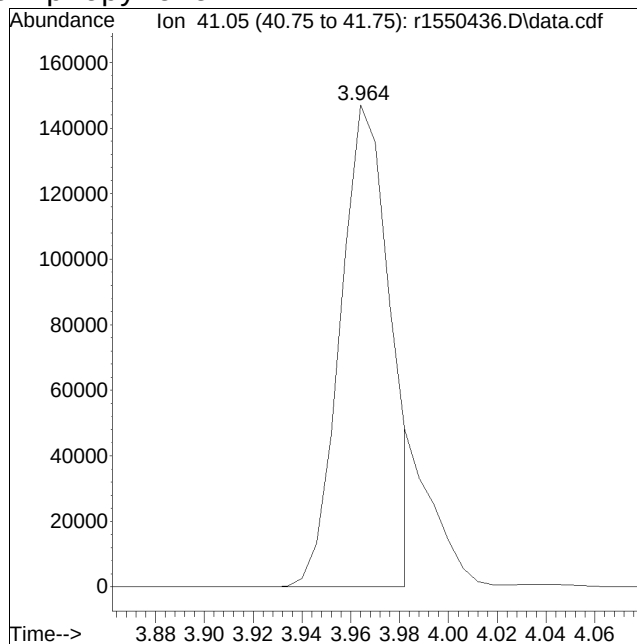
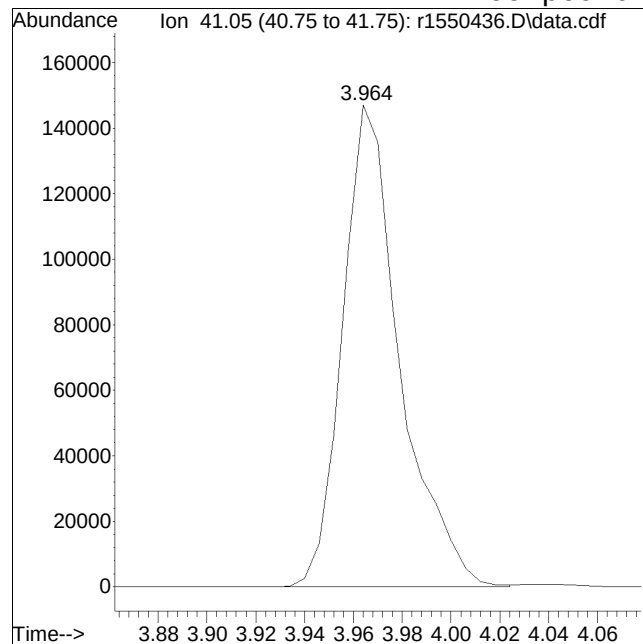
Quant Time: Oct 08 13:56:25 2024
Quant Method : 0:\Forensics\Data\AirLab15\2024\10\1007T_I\TFS15_241007.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Oct 08 13:55:51 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_241007.M
Data File : r1550436.D Operator : AIRLAB15:JMB
Date Inj'd : 10/8/2024 11:58 AM Instrument :
Sample : CT015-LLSTD10.0 Quant Date : 10/8/2024 1:56 pm

Compound #3: propylene



Original Peak Response = 239234

Manual Peak Response = 209957 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Continuing Calibration

Calibration Verification Summary

Form 7

Air Volatiles

Client : Envirotrac Ltd.
 Project Name : FROST ST 001
 Instrument ID : AIRLAB15
 Lab File ID : R1550628
 Sample No : WG1985226-2
 Channel :

Lab Number : L2459547
 Project Number :
 Calibration Date : 10/16/24 13:09
 Init. Calib. Date(s) : 10/07/24 10/07/24
 Init. Calib. Times : 14:37 19:05

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	112	0
chlorodifluoromethane	1.108	0.878	-	20.8	30	115	-.01
propylene	0.618	0.583	-	5.7	30	128	-.01
propane	0.652	0.601	-	7.8	30	116	-.01
dichlorodifluoromethane	1.188	1.067	-	10.2	30	119	-.01
chloromethane	0.438	0.435	-	0.7	30	133	-.01
Freon-114	1.149	1.138	-	1	30	131	-.01
methanol	0.182	0.176	-	3.3	30	115	-.01
vinyl chloride	0.611	0.56	-	8.3	30	116	-.01
1,3-butadiene	0.384	0.339	-	11.7	30	115	-.01
butane	0.845	0.883	-	-4.5	30	139	-.01
acetaldehyde	0.187	0.182	-	2.7	30	121	-.02
bromomethane	0.488	0.437	-	10.5	30	115	-.01
chloroethane	0.309	0.285	-	7.8	30	123	-.01
ethanol	0.277	0.277	-	0	30	109	-.01
dichlorofluoromethane	1.158	1.116	-	3.6	30	131	-.01
vinyl bromide	0.491	0.462	-	5.9	30	122	-.01
acrolein	0.204	0.188	-	7.8	30	113	-.01
acetone	0.645	0.695	-	-7.8	30	143	-.01
acetonitrile	0.515	0.53	-	-2.9	30	135	-.01
trichlorofluoromethane	0.959	0.907	-	5.4	30	125	-.01
isopropyl alcohol	0.975	1.009	-	-3.5	30	142	-.02
acrylonitrile	0.602	0.522	-	13.3	30	111	-.01
pentane	1.403	1.404	-	-0.1	30	132	-.01
ethyl ether	1.286	1.102	-	14.3	30	108	-.01
1,1-dichloroethene	1.11	1.077	-	3	30	124	-.01
tertiary butyl alcohol	1.27	1.172	-	7.7	30	113	-.01
methylene chloride	0.795	0.737	-	7.3	30	118	-.01
3-chloropropene	0.935	0.918	-	1.8	30	126	-.02
carbon disulfide	1.941	1.755	-	9.6	30	113	0
Freon 113	1.347	1.3	-	3.5	30	126	-.01
trans-1,2-dichloroethene	1.078	1.022	-	5.2	30	118	0
1,1-dichloroethane	1.427	1.397	-	2.1	30	126	0
MTBE	1.645	1.555	-	5.5	30	120	-.02
vinyl acetate	1.319	1.275	-	3.3	30	121	-.02
2-butanone	1.399	1.406	-	-0.5	30	125	-.02
cis-1,2-dichloroethene	1.062	1.033	-	2.7	30	122	-.02
Ethyl Acetate	0.266	0.256	-	3.8	30	118	-.02
chloroform	1.342	1.195	-	11	30	115	-.02
Tetrahydrofuran	0.87	0.88	-	-1.1	30	124	0
2,2-dichloropropane	0.955	0.83	-	13.1	30	109	0
1,2-dichloroethane	0.863	0.826	-	4.3	30	124	0
1,4-difluorobenzene	1	1	-	0	30	117	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Envirotrac Ltd.
 Project Name : FROST ST 001
 Instrument ID : AIRLAB15
 Lab File ID : R1550628
 Sample No : WG1985226-2
 Channel :

Lab Number : L2459547
 Project Number :
 Calibration Date : 10/16/24 13:09
 Init. Calib. Date(s) : 10/07/24 10/07/24
 Init. Calib. Times : 14:37 19:05

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
hexane	0.447	0.401	-	10.3	30	113	0
diisopropyl ether	0.236	0.202	-	14.4	30	110	0
tert-butyl ethyl ether	0.789	0.728	-	7.7	30	117	0
1,2-dichloroethane-D4	0.246	0.267	-	-8.5	30	124	0
1,1,1-trichloroethane	0.388	0.342	-	11.9	30	117	-.02
1,1-dichloropropene	0.353	0.317	-	10.2	30	115	-.01
benzene	0.876	0.771	-	12	30	117	0
thiophene	0.657	0.687	-	-4.6	30	114	-.01
carbon tetrachloride	0.331	0.299	-	9.7	30	117	0
cyclohexane	0.484	0.419	-	13.4	30	110	-.01
tert-amyl methyl ether	0.663	0.604	-	8.9	30	117	-.01
dibromomethane	0.268	0.23	-	14.2	30	113	0
1,2-dichloropropane	0.332	0.313	-	5.7	30	126	-.01
bromodichloromethane	0.42	0.352	-	16.2	30	107	-.01
1,4-dioxane	0.192	0.164	-	14.6	30	106	-.01
trichloroethene	0.364	0.322	-	11.5	30	116	-.01
2,2,4-trimethylpentane	1.508	1.332	-	11.7	30	112	-.01
methyl methacrylate	0.289	0.292	-	-1	30	127	-.01
heptane	0.507	0.478	-	5.7	30	122	-.01
cis-1,3-dichloropropene	0.389	0.361	-	7.2	30	116	-.02
4-methyl-2-pentanone	0.551	0.526	-	4.5	30	118	0
trans-1,3-dichloropropene	0.292	0.27	-	7.5	30	115	0
1,1,2-trichloroethane	0.34	0.31	-	8.8	30	123	0
chlorobenzene-D5	1	1	-	0	30	111	-.02
toluene	6.888	6.224	-	9.6	30	115	0
toluene-D8	6.013	6.23	-	-3.6	30	119	0
2-methylthiophene	6.192	6.926	-	-11.9	30	119	0
1,3-dichloropropane	2.985	2.648	-	11.3	30	113	0
2-hexanone	3.225	3.14	-	2.6	30	115	0
3-methylthiophene	6.477	7.401	-	-14.3	30	119	0
dibromochloromethane	2.686	2.35	-	12.5	30	106	-.02
1,2-dibromoethane	3.065	2.871	-	6.3	30	120	0
butyl acetate	0.707	0.66	-	6.6	30	111	0
octane	2.596	2.234	-	13.9	30	110	0
tetrachloroethene	2.822	2.492	-	11.7	30	112	-.02
1,1,1,2-tetrachloroethane	2.233	1.983	-	11.2	30	110	-.02
chlorobenzene	5.324	4.879	-	8.4	30	117	0
ethylbenzene	8.749	8.215	-	6.1	30	116	0
2-ethylthiophene	7.269	8.252	-	-13.5	30	118	0
m+p-xylene	6.982	6.457	-	7.5	30	115	-.02
bromoform	2.368	2.08	-	12.2	30	104	-.02
styrene	5.374	5.141	-	4.3	30	118	0
1,1,2,2-tetrachloroethane	5.045	4.594	-	8.9	30	113	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Envirotrac Ltd.
 Project Name : FROST ST 001
 Instrument ID : AIRLAB15
 Lab File ID : R1550628
 Sample No : WG1985226-2
 Channel :

Lab Number : L2459547
 Project Number :
 Calibration Date : 10/16/24 13:09
 Init. Calib. Date(s) : 10/07/24 10/07/24
 Init. Calib. Times : 14:37 19:05

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
o-xylene	6.964	6.535	-	6.2	30	116	0
1,2,3-trichloropropane	3.855	3.335	-	13.5	30	110	-.02
nonane	5.429	5.057	-	6.9	30	116	0
bromofluorobenzene	4.223	4.21	-	0.3	30	114	-.02
isopropylbenzene	9.016	8.024	-	11	30	112	0
bromobenzene	5.032	4.229	-	16	30	107	-.02
2-chlorotoluene	2.611	2.3	-	11.9	30	110	-.02
n-propylbenzene	3.058	2.668	-	12.8	30	108	0
4-chlorotoluene	2.67	2.286	-	14.4	30	108	-.02
4-ethyl toluene	9.161	8.191	-	10.6	30	112	0
1,3,5-trimethylbenzene	9.116	8.295	-	9	30	116	0
tert-butylbenzene	8.237	7.404	-	10.1	30	109	0
1,2,4-trimethylbenzene	7.766	7.466	-	3.9	30	117	0
decane	7.019	6.357	-	9.4	30	110	0
Benzyl Chloride	4.594	3.817	-	16.9	30	96	0
1,3-dichlorobenzene	5.36	5.028	-	6.2	30	116	0
1,4-dichlorobenzene	5.377	4.975	-	7.5	30	115	0
sec-butylbenzene	11.421	10.22	-	10.5	30	110	0
1,2,3-trimethylbenzene	6.165	6.107	-	0.9	30	120	0
p-isopropyltoluene	8.477	8.54	-	-0.7	30	121	0
1,2-dichlorobenzene	4.497	4.169	-	7.3	30	120	0
n-butylbenzene	9.015	7.925	-	12.1	30	107	0
indan	7.769	7.041	-	9.4	30	119	0
indene	5.156	4.601	-	10.8	30	111	0
1,2-dibromo-3-chloropropan	1.821	1.617	-	11.2	30	104	-.02
undecane	7.434	6.816	-	8.3	30	106	0
1,2,4,5-tetramethylbenzene	3.906	4.035	-	-3.3	30	111	0
dodecane	6.614	6.646	-	-0.5	30	100	0
1,2,4-trichlorobenzene	3.531	3.482	-	1.4	30	107	0
naphthalene	9.389	8.641	-	8	30	98	0
1,2,3-trichlorobenzene	3.165	2.957	-	6.6	30	101	0
benzothiophene	4.631	5.137	-	-10.9	30	108	0
hexachlorobutadiene	3.194	3.065	-	4	30	112	0
2-methylnaphthalene	0.726	0.744	-	-2.5	30	90	0
1-methylnaphthalene	1.538	1.808	-	-17.6	30	103	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550628.D
 Acq On : 16 Oct 2024 1:09 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-2,3,250,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 16 13:45:05 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	112	0.00
2	chlorodifluoromethane	1.108	0.878	20.8	115	-0.01
3	propylene	0.618	0.583	5.7	128	-0.01
4	propane	0.652	0.601	7.8	116	-0.01
5	dichlorodifluoromethane	1.188	1.067	10.2	119	-0.01
6 C	chloromethane	0.438	0.435	0.7	133	-0.01
7	Freon-114	1.149	1.138	1.0	131	-0.01
8 C	methanol	0.182	0.176	3.3	115	-0.01
9 C	vinyl chloride	0.611	0.560	8.3	116	-0.01
10 C	1,3-butadiene	0.384	0.339	11.7	115	-0.01
11	butane	0.845	0.883	-4.5	139	-0.01
12 C	acetaldehyde	0.187	0.182	2.7	121	-0.02
13 C	bromomethane	0.488	0.437	10.5	115	-0.01
14 C	chloroethane	0.309	0.285	7.8	123	-0.01
15	ethanol	0.277	0.277	0.0	109	-0.01
16	dichlorofluoromethane	1.158	1.116	3.6	131	-0.01
17 C	vinyl bromide	0.491	0.462	5.9	122	-0.01
18 C	acrolein	0.204	0.188	7.8	113	-0.01
19	acetone	0.645	0.695	-7.8	143#	-0.01
20 C	acetonitrile	0.515	0.530	-2.9	135	-0.01
21	trichlorofluoromethane	0.959	0.907	5.4	125	-0.01
22	isopropyl alcohol	0.975	1.009	-3.5	142#	-0.02
23 C	acrylonitrile	0.602	0.522	13.3	111	-0.01
24	pentane	1.403	1.404	-0.1	132	-0.01
25	ethyl ether	1.286	1.102	14.3	108	-0.01
26 C	1,1-dichloroethene	1.110	1.077	3.0	124	-0.01
27	tertiary butyl alcohol	1.270	1.172	7.7	113	-0.01
28 C	methylene chloride	0.795	0.737	7.3	118	-0.01
29 C	3-chloropropene	0.935	0.918	1.8	126	-0.02
30 C	carbon disulfide	1.941	1.755	9.6	113	0.00
31	Freon 113	1.347	1.300	3.5	126	-0.01
32	trans-1,2-dichloroethene	1.078	1.022	5.2	118	0.00
33 C	1,1-dichloroethane	1.427	1.397	2.1	126	0.00
34 C	MTBE	1.645	1.555	5.5	120	-0.02
35 C	vinyl acetate	1.319	1.275	3.3	121	-0.02
36 C	2-butanone	1.399	1.406	-0.5	125	-0.02
37	cis-1,2-dichloroethene	1.062	1.033	2.7	122	-0.02
38	Ethyl Acetate	0.266	0.256	3.8	118	-0.02
39 C	chloroform	1.342	1.195	11.0	115	-0.02

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550628.D
 Acq On : 16 Oct 2024 1:09 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-2,3,250,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 16 13:45:05 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	Tetrahydrofuran	0.870	0.880	-1.1	124	0.00
41	2,2-dichloropropane	0.955	0.830	13.1	109	0.00
42 C	1,2-dichloroethane	0.863	0.826	4.3	124	0.00
43 I	1,4-difluorobenzene	1.000	1.000	0.0	117	-0.01
44 C	hexane	0.447	0.401	10.3	113	0.00
45	diisopropyl ether	0.236	0.202	14.4	110	0.00
46	tert-butyl ethyl ether	0.789	0.728	7.7	117	0.00
47 s	1,2-dichloroethane-D4	0.246	0.267	-8.5	124	0.00
48 C	1,1,1-trichloroethane	0.388	0.342	11.9	117	-0.02
49	1,1-dichloropropene	0.353	0.317	10.2	115	-0.01
50 C	benzene	0.876	0.771	12.0	117	0.00
51	thiophene	0.657	0.687	-4.6	114	-0.01
52 C	carbon tetrachloride	0.331	0.299	9.7	117	0.00
53	cyclohexane	0.484	0.419	13.4	110	-0.01
54	tert-amyl methyl ether	0.663	0.604	8.9	117	-0.01
55	dibromomethane	0.268	0.230	14.2	113	0.00
56 C	1,2-dichloropropane	0.332	0.313	5.7	126	-0.01
57	bromodichloromethane	0.420	0.352	16.2	107	-0.01
58 C	1,4-dioxane	0.192	0.164	14.6	106	-0.01
59 C	trichloroethene	0.364	0.322	11.5	116	-0.01
60 C	2,2,4-trimethylpentane	1.508	1.332	11.7	112	-0.01
61	methyl methacrylate	0.289	0.292	-1.0	127	-0.01
62	heptane	0.507	0.478	5.7	122	-0.01
63 C	cis-1,3-dichloropropene	0.389	0.361	7.2	116	-0.02
64 C	4-methyl-2-pentanone	0.551	0.526	4.5	118	0.00
65	trans-1,3-dichloropropene	0.292	0.270	7.5	115	0.00
66 C	1,1,2-trichloroethane	0.340	0.310	8.8	123	0.00
67 I	chlorobenzene-D5	1.000	1.000	0.0	111	-0.02
68 C	toluene	6.888	6.224	9.6	115	0.00
69 s	toluene-D8	6.013	6.230	-3.6	119	0.00
70	2-methylthiophene	6.192	6.926	-11.9	119	0.00
71	1,3-dichloropropane	2.985	2.648	11.3	113	0.00
72	2-hexanone	3.225	3.140	2.6	115	0.00
73	3-methylthiophene	6.477	7.401	-14.3	119	0.00
74	dibromochloromethane	2.686	2.350	12.5	106	-0.02
75 C	1,2-dibromoethane	3.065	2.871	6.3	120	0.00
76	butyl acetate	0.707	0.660	6.6	111	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550628.D
 Acq On : 16 Oct 2024 1:09 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-2,3,250,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 16 13:45:05 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	octane	2.596	2.234	13.9	110	0.00
78 C	tetrachloroethene	2.822	2.492	11.7	112	-0.02
79	1,1,1,2-tetrachloroethane	2.233	1.983	11.2	110	-0.02
80 C	chlorobenzene	5.324	4.879	8.4	117	0.00
81 C	ethylbenzene	8.749	8.215	6.1	116	0.00
82	2-ethylthiophene	7.269	8.252	-13.5	118	0.00
83 C	m+p-xylene	6.982	6.457	7.5	115	-0.02
84 C	bromoform	2.368	2.080	12.2	104	-0.02
85 C	styrene	5.374	5.141	4.3	118	0.00
86 C	1,1,2,2-tetrachloroethane	5.045	4.594	8.9	113	0.00
87 C	o-xylene	6.964	6.535	6.2	116	0.00
88	1,2,3-trichloropropane	3.855	3.335	13.5	110	-0.02
89	nonane	5.429	5.057	6.9	116	0.00
90 s	bromofluorobenzene	4.223	4.210	0.3	114	-0.02
91 C	isopropylbenzene	9.016	8.024	11.0	112	0.00
92	bromobenzene	5.032	4.229	16.0	107	-0.02
93	2-chlorotoluene	2.611	2.300	11.9	110	-0.02
94	n-propylbenzene	3.058	2.668	12.8	108	0.00
95	4-chlorotoluene	2.670	2.286	14.4	108	-0.02
96	4-ethyl toluene	9.161	8.191	10.6	112	0.00
97	1,3,5-trimethylbenzene	9.116	8.295	9.0	116	0.00
98	tert-butylbenzene	8.237	7.404	10.1	109	0.00
99	1,2,4-trimethylbenzene	7.766	7.466	3.9	117	0.00
100	decane	7.019	6.357	9.4	110	0.00
101 C	Benzyl Chloride	4.594	3.817	16.9	96	0.00
102	1,3-dichlorobenzene	5.360	5.028	6.2	116	0.00
103 C	1,4-dichlorobenzene	5.377	4.975	7.5	115	0.00
104	sec-butylbenzene	11.421	10.220	10.5	110	0.00
105	1,2,3-trimethylbenzene	6.165	6.107	0.9	120	0.00
106	p-isopropyltoluene	8.477	8.540	-0.7	121	0.00
107	1,2-dichlorobenzene	4.497	4.169	7.3	120	0.00
108	n-butylbenzene	9.015	7.925	12.1	107	0.00
109	indan	7.769	7.041	9.4	119	0.00
110	indene	5.156	4.601	10.8	111	0.00
111 C	1,2-dibromo-3-chloropropane	1.821	1.617	11.2	104	-0.02
112	undecane	7.434	6.816	8.3	106	0.00
113	1,2,4,5-tetramethylbenzene	3.906	4.035	-3.3	111	0.00
114	dodecane	6.614	6.646	-0.5	100	0.00
115 C	1,2,4-trichlorobenzene	3.531	3.482	1.4	107	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550628.D
 Acq On : 16 Oct 2024 1:09 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-2,3,250,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 16 13:45:05 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
116	naphthalene	9.389	8.641	8.0	98	0.00
117	1,2,3-trichlorobenzene	3.165	2.957	6.6	101	0.00
118	benzothiophene	4.631	5.137	-10.9	108	0.00
119 C	hexachlorobutadiene	3.194	3.065	4.0	112	0.00
120	2-methylnaphthalene	0.726	0.744	-2.5	90	0.00
121	1-methylnaphthalene	1.538	1.808	-17.6	103	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550628.D
 Acq On : 16 Oct 2024 1:09 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-2,3,250,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 16 13:45:05 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1016T\r1550628.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.183	49	416135	10.000	ppbV	0.00
Standard Area = 416135			Recovery =	100.00%		
43) 1,4-difluorobenzene	11.413	114	1287285	10.000	ppbV	-0.01
Standard Area = 1287285			Recovery =	100.00%		
67) chlorobenzene-D5	16.083	54	193671	10.000	ppbV	-0.02
Standard Area = 193671			Recovery =	100.00%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.050	65	343553	10.854	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.54%		
69) toluene-D8	14.242	98	1206525	10.360	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.60%		
90) bromofluorobenzene	17.442	95	815309	9.969	ppbV	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.69%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.934	51	365370	7.927	ppbV	95
3) propylene	3.964	41	242810M6	9.441	ppbV	
4) propane	3.988	29	250203	9.226	ppbV	92
5) dichlorodifluoromethane	4.036	85	444135	8.982	ppbV	98
6) chloromethane	4.204	50	181219	9.950	ppbV	96
7) Freon-114	4.312	85	473437	9.901	ppbV	91
8) methanol	4.378	31	366754	48.430	ppbV	97
9) vinyl chloride	4.438	62	233056	9.163	ppbV	98
10) 1,3-butadiene	4.582	54	141101	8.832	ppbV	88
11) butane	4.642	43	367610	10.457	ppbV	98
12) acetaldehyde	4.330	29	378140	48.467	ppbV #	81
13) bromomethane	4.870	94	182020	8.954	ppbV	97
14) chloroethane	5.062	64	118666	9.229	ppbV	100
15) ethanol	5.200	31	575957	49.886	ppbV #	84
16) dichlorofluoromethane	5.176	67	464300	9.632	ppbV	98
17) vinyl bromide	5.447	106	192063	9.399	ppbV	100
18) acrolein	5.573	56	78400	9.238	ppbV	99
19) acetone	5.717	43	1446620	53.868	ppbV #	86
20) acetonitrile	5.430	41	220541	10.295	ppbV	95
21) trichlorofluoromethane	5.907	101	377333	9.454	ppbV	99
22) isopropyl alcohol	6.003	45	1049269	25.859	ppbV	99
23) acrylonitrile	6.237	53	217416	8.673	ppbV	98
24) pentane	6.310	43	584445	10.013	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550628.D
 Acq On : 16 Oct 2024 1:09 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-2,3,250,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 16 13:45:05 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1016T\r1550628.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.337	31	458461	8.568	ppbV	97
26) 1,1-dichloroethene	6.618	61	448013	9.699	ppbV	99
27) tertiary butyl alcohol	6.678	59	487875	9.235	ppbV	96
28) methylene chloride	6.762	49	306664	9.274	ppbV	98
29) 3-chloropropene	6.888	41	381835	9.808	ppbV	97
30) carbon disulfide	7.068	76	730125	9.038	ppbV	98
31) Freon 113	7.062	101	540920	9.650	ppbV	96
32) trans-1,2-dichloroethene	7.817	61	425210	9.481	ppbV	98
33) 1,1-dichloroethane	8.042	63	581297	9.789	ppbV	99
34) MTBE	8.108	73	647151	9.456	ppbV	98
35) vinyl acetate	8.225	43	530607	9.669	ppbV	98
36) 2-butanone	8.483	43	585038	10.046	ppbV	97
37) cis-1,2-dichloroethene	8.992	61	429864	9.728	ppbV	97
38) Ethyl Acetate	9.258	61	106559	9.618	ppbV #	57
39) chloroform	9.333	83	497180	8.905	ppbV	99
40) Tetrahydrofuran	9.775	42	366289	10.113	ppbV	96
41) 2,2-dichloropropane	9.358	77	345301	8.692	ppbV #	86
42) 1,2-dichloroethane	10.175	62	343758	9.575	ppbV	97
44) hexane	9.250	57	516134	8.966	ppbV	80
45) diisopropyl ether	9.242	87	259461	8.559	ppbV	83
46) tert-butyl ethyl ether	9.858	59	937717	9.234	ppbV	95
48) 1,1,1-trichloroethane	10.458	97	440362	8.809	ppbV	98
49) 1,1-dichloropropene	10.827	75	407876	8.969	ppbV	94
50) benzene	10.993	78	991935	8.793	ppbV	100
51) thiophene	11.140	84	883976	10.445	ppbV	97
52) carbon tetrachloride	11.167	117	385280	9.049	ppbV	97
53) cyclohexane	11.307	56	539227	8.648	ppbV	96
54) tert-amyl methyl ether	11.680	73	777876	9.113	ppbV	97
55) dibromomethane	11.907	93	296317	8.595	ppbV	95
56) 1,2-dichloropropane	11.933	63	403521	9.447	ppbV	98
57) bromodichloromethane	12.167	83	453639	8.396	ppbV	98
58) 1,4-dioxane	12.207	88	211471	8.567	ppbV	97
59) trichloroethene	12.213	130	414328	8.851	ppbV	95
60) 2,2,4-trimethylpentane	12.260	57	1714462	8.831	ppbV	96
61) methyl methacrylate	12.453	41	375284	10.103	ppbV	96
62) heptane	12.573	43	615550	9.430	ppbV	96
63) cis-1,3-dichloropropene	13.225	75	464086	9.269	ppbV	94
64) 4-methyl-2-pentanone	13.267	43	676883	9.547	ppbV	95
65) trans-1,3-dichloropropene	13.850	75	347040	9.241	ppbV	95
66) 1,1,2-trichloroethane	14.042	97	398927	9.126	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550628.D
 Acq On : 16 Oct 2024 1:09 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-2,3,250,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 16 13:45:05 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1016T\r1550628.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	toluene	14.350	91	1205340	9.035	ppbV	100
70)	2-methylthiophene	14.417	97	1341446	11.185	ppbV	99
71)	1,3-dichloropropane	14.375	76	512747	8.871	ppbV	91
72)	2-hexanone	14.625	43	608122	9.737	ppbV	93
73)	3-methylthiophene	14.608	97	1433425	11.427	ppbV	100
74)	dibromochloromethane	14.783	129	455181	8.749	ppbV	98
75)	1,2-dibromoethane	15.033	107	556049	9.368	ppbV	95
76)	butyl acetate	15.267	73	127869	9.336	ppbV	91
77)	octane	15.358	85	432576	8.603	ppbV	87
78)	tetrachloroethene	15.483	166	482649	8.830	ppbV	97
79)	1,1,1,2-tetrachloroethane	16.108	131	384038	8.879	ppbV	99
80)	chlorobenzene	16.125	112	944829	9.163	ppbV	100
81)	ethylbenzene	16.475	91	1591056	9.390	ppbV	100
82)	2-ethylthiophene	16.508	97	1598141	11.352	ppbV	98
83)	m+p-xylene	16.633	91	2501197	18.496	ppbV	100
84)	bromoform	16.700	173	402805	8.785	ppbV	100
85)	styrene	16.958	104	995653	9.567	ppbV	97
86)	1,1,2,2-tetrachloroethane	17.050	83	889717	9.106	ppbV	99
87)	o-xylene	17.050	91	1265671	9.384	ppbV	97
88)	1,2,3-trichloropropane	17.158	75	645891	8.650	ppbV	97
89)	nonane	17.242	43	979298	9.314	ppbV	97
91)	isopropylbenzene	17.558	105	1554000	8.900	ppbV	98
92)	bromobenzene	17.633	77	819035	8.405	ppbV	90
93)	2-chlorotoluene	17.958	126	445352	8.808	ppbV	84
94)	n-propylbenzene	17.992	120	516769	8.726	ppbV	97
95)	4-chlorotoluene	18.017	126	442692	8.562	ppbV	98
96)	4-ethyl toluene	18.108	105	1586312	8.940	ppbV	96
97)	1,3,5-trimethylbenzene	18.175	105	1606442	9.099	ppbV	100
98)	tert-butylbenzene	18.517	119	1434033	8.989	ppbV	100
99)	1,2,4-trimethylbenzene	18.517	105	1445884	9.613	ppbV	96
100)	decane	18.592	57	1231124	9.057	ppbV	96
101)	Benzyl Chloride	18.633	91	739263	8.309	ppbV	100
102)	1,3-dichlorobenzene	18.650	146	973705	9.380	ppbV	99
103)	1,4-dichlorobenzene	18.700	146	963566	9.254	ppbV	99
104)	sec-butylbenzene	18.733	105	1979246	8.948	ppbV	100
105)	1,2,3-trimethylbenzene	18.867	105	1182695	9.905	ppbV	100
106)	p-isopropyltoluene	18.867	119	1653985	10.074	ppbV	99
107)	1,2-dichlorobenzene	18.992	146	807461	9.270	ppbV	96
108)	n-butylbenzene	19.208	91	1534873	8.791	ppbV	98
109)	indan	19.042	117	1363709	9.063	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550628.D
 Acq On : 16 Oct 2024 1:09 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-2,3,250,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 16 13:45:05 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

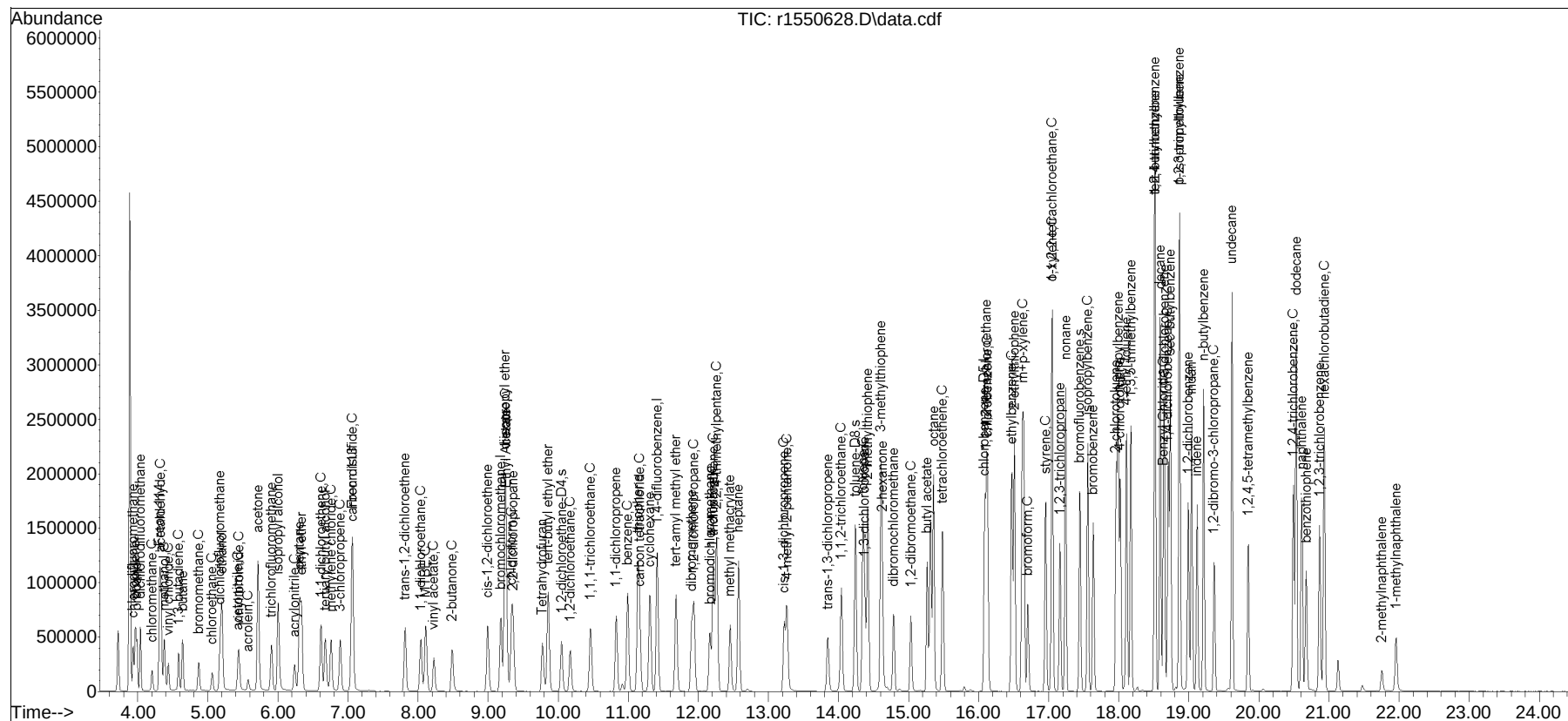
CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1016T\r1550628.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.117	115	891045	8.924	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.358	75	313117	8.880	ppbV	92
112) undecane	19.617	57	1320044	9.169	ppbV	95
113) 1,2,4,5-tetramethylben...	19.850	119	781476	10.331	ppbV	97
114) dodecane	20.533	57	1287105	10.048	ppbV	94
115) 1,2,4-trichlorobenzene	20.492	180	674430	9.862	ppbV	97
116) naphthalene	20.608	128	1673580	9.204	ppbV	98
117) 1,2,3-trichlorobenzene	20.867	180	572733	9.344	ppbV	97
118) benzothiophene	20.675	134	994966	11.095	ppbV	99
119) hexachlorobutadiene	20.933	225	593597	9.597	ppbV	98
120) 2-methylnaphthalene	21.750	142	144159	10.251	ppbV	96
121) 1-methylnaphthalene	21.958	142	350159	11.753	ppbV	94

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

```
Data Path : 0:\Forensics\Data\AirLab15\2024\10\1016T\
Data File : r1550628.D
Acq On    : 16 Oct 2024    1:09 PM
Operator  : AIRLAB15:JMB
Sample    : WG1985226-2,3,250,250
Misc      : WG1985226,ICAL21580
ALS Vial  : 0    Sample Multiplier: 1
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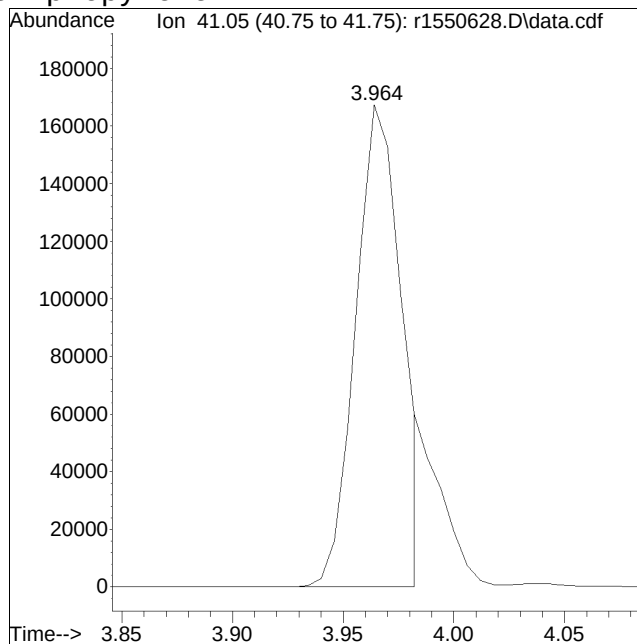
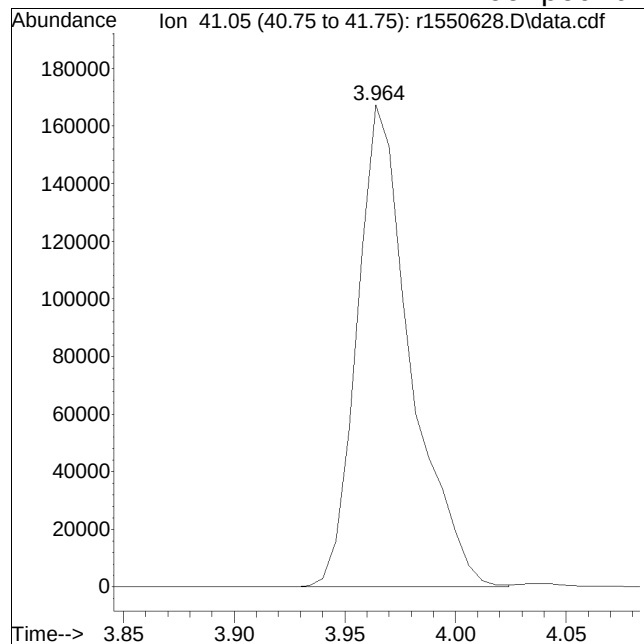
Quant Time: Oct 16 13:45:05 2024
Quant Method : 0:\Forensics\Data\AirLab15\2024\10\1016T\TFS15_241007.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Oct 08 13:55:51 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_241007.M
Data File : r1550628.D Operator : AIRLAB15:JMB
Date Inj'd : 10/16/2024 1:09 PM Instrument :
Sample : WG1985226-2,3,250,250 Quant Date : 10/16/2024 1:45 pm

Compound #3: propylene



Original Peak Response = 282272

Manual Peak Response = 242810 M6

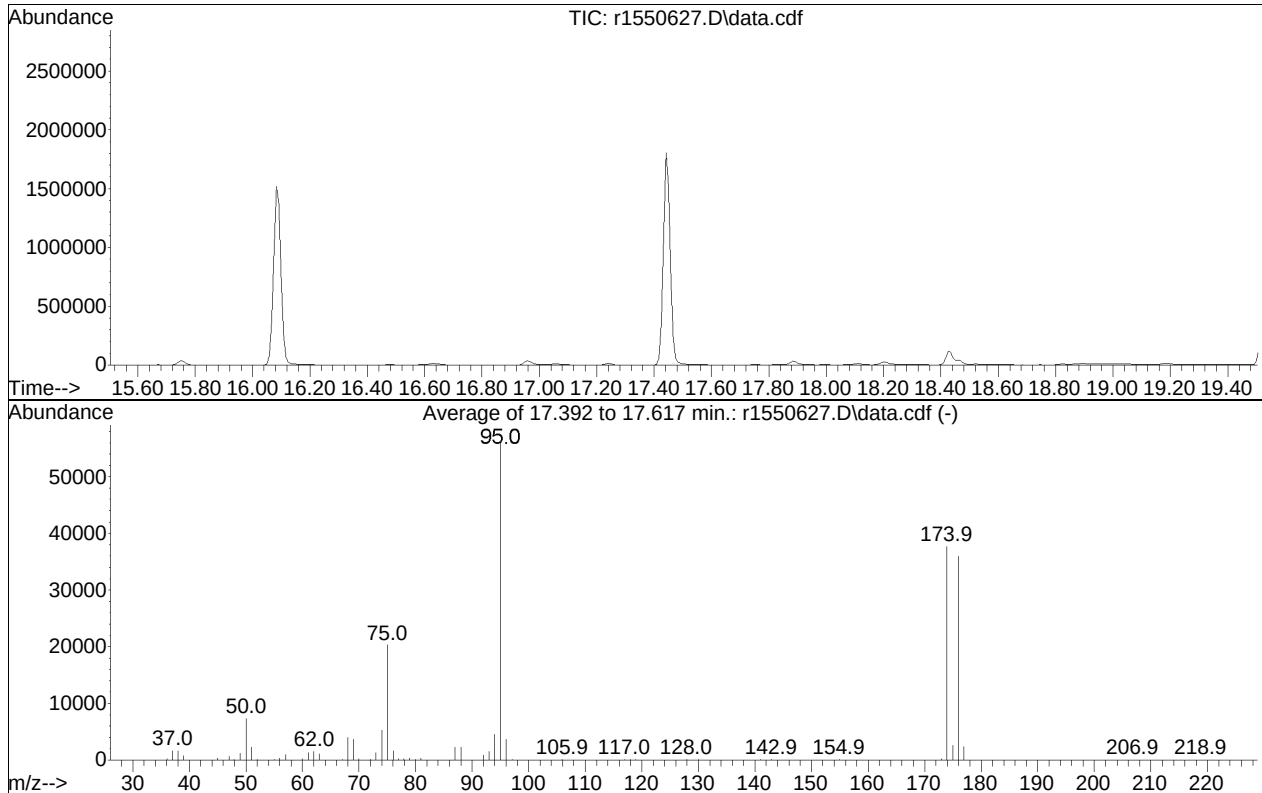
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

BFB

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550627.D
 Acq On : 16 Oct 2024 12:03 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-1,3,250,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Tue Oct 08 13:55:51 2024



Spectrum Information: Average of 17.392 to 17.617 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.1	7404	PASS
75	95	30	66	36.0	20305	PASS
95	95	100	100	100.0	56366	PASS
96	95	5	9	6.6	3742	PASS
173	174	0.00	2	0.6	213	PASS
174	95	50	120	67.0	37751	PASS
175	174	4	9	6.9	2602	PASS
176	174	93	101	95.2	35943	PASS
177	176	5	9	6.6	2366	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550630.D
 Acq On : 16 Oct 2024 4:16 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-4,3,250,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 16 17:23:08 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1016T\r1550628.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.175	49	401894	10.000	ppbV	-0.02
Standard Area = 416135			Recovery =		96.58%	
43) 1,4-difluorobenzene	11.407	114	1226236	10.000	ppbV	-0.02
Standard Area = 1287285			Recovery =		95.26%	
67) chlorobenzene-D5	16.067	54	183802	10.000	ppbV	-0.03
Standard Area = 193671			Recovery =		94.90%	

System Monitoring Compounds

Target Compounds					Qvalue
5) dichlorodifluoromethane	0.000		0	N.D.	
6) chloromethane	0.000		0	N.D.	
7) Freon-114	0.000		0	N.D.	
9) vinyl chloride	0.000		0	N.D.	
10) 1,3-butadiene	0.000		0	N.D.	
13) bromomethane	0.000		0	N.D.	
14) chloroethane	4.960		0	N.D.	
15) ethanol	5.236		0	N.D.	
17) vinyl bromide	5.380		0	N.D.	
19) acetone	5.747	43	3343M4	0.129	ppbV
21) trichlorofluoromethane	0.000		0	N.D.	
22) isopropyl alcohol	6.017		0	N.D.	
26) 1,1-dichloroethene	0.000		0	N.D.	
27) tertiary butyl alcohol	0.000		0	N.D.	
28) methylene chloride	6.762		0	N.D.	
29) 3-chloropropene	0.000		0	N.D.	
30) carbon disulfide	0.000		0	N.D.	
31) Freon 113	0.000		0	N.D.	
32) trans-1,2-dichloroethene	0.000		0	N.D.	
33) 1,1-dichloroethane	0.000		0	N.D.	
34) MTBE	0.000		0	N.D.	
36) 2-butanone	8.533	43	3529	0.063	ppbV # 87
37) cis-1,2-dichloroethene	0.000		0	N.D.	
38) Ethyl Acetate	0.000		0	N.D.	
39) chloroform	0.000		0	N.D.	
40) Tetrahydrofuran	0.000		0	N.D.	
42) 1,2-dichloroethane	0.000		0	N.D.	
44) hexane	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550630.D
 Acq On : 16 Oct 2024 4:16 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-4,3,250,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 16 17:23:08 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1016T\r1550628.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0		N.D.	
50) benzene	10.993		0		N.D.	
52) carbon tetrachloride	0.000		0		N.D.	
53) cyclohexane	0.000		0		N.D.	d
56) 1,2-dichloropropane	11.880		0		N.D.	
57) bromodichloromethane	0.000		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
59) trichloroethene	12.213		0		N.D.	
60) 2,2,4-trimethylpentane	0.000		0		N.D.	
62) heptane	0.000		0		N.D.	
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	0.000		0		N.D.	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	14.342		0		N.D.	
72) 2-hexanone	0.000		0		N.D.	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
78) tetrachloroethene	0.000		0		N.D.	
80) chlorobenzene	16.108		0		N.D.	
81) ethylbenzene	16.458		0		N.D.	
83) m+p-xylene	16.625		0		N.D.	
84) bromoform	16.675		0		N.D.	
85) styrene	16.950		0		N.D.	
86) 1,1,2,2-tetrachloroethane	17.033		0		N.D.	
87) o-xylene	17.033		0		N.D.	
96) 4-ethyl toluene	18.092		0		N.D.	
97) 1,3,5-trimethylbenzene	18.158		0		N.D.	
99) 1,2,4-trimethylbenzene	18.508		0		N.D.	
101) Benzyl Chloride	18.500		0		N.D.	
102) 1,3-dichlorobenzene	18.708		0		N.D.	
103) 1,4-dichlorobenzene	18.708		0		N.D.	
107) 1,2-dichlorobenzene	19.000		0		N.D.	
115) 1,2,4-trichlorobenzene	20.592	180	2885	0.044	ppbV #	90
116) naphthalene	20.725	128	7533	0.044	ppbV #	79
119) hexachlorobutadiene	21.025		0		N.D.	

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550630.D
 Acq On : 16 Oct 2024 4:16 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-4,3,250,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 16 17:23:08 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1016T\r1550628.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listed6T\r1550628.D

Data Path : 0:\Forensics\Data\AirLab15\2024\10\1016T\

Data File : r1550630.D

Acq On : 16 Oct 2024 4:16 PM

Operator : AIRLAB15:JMB

Sample : WG1985226-4,3,250,250

Misc : WG1985226,ICAL21580

ALS Vial : 0 Sample Multiplier: 1

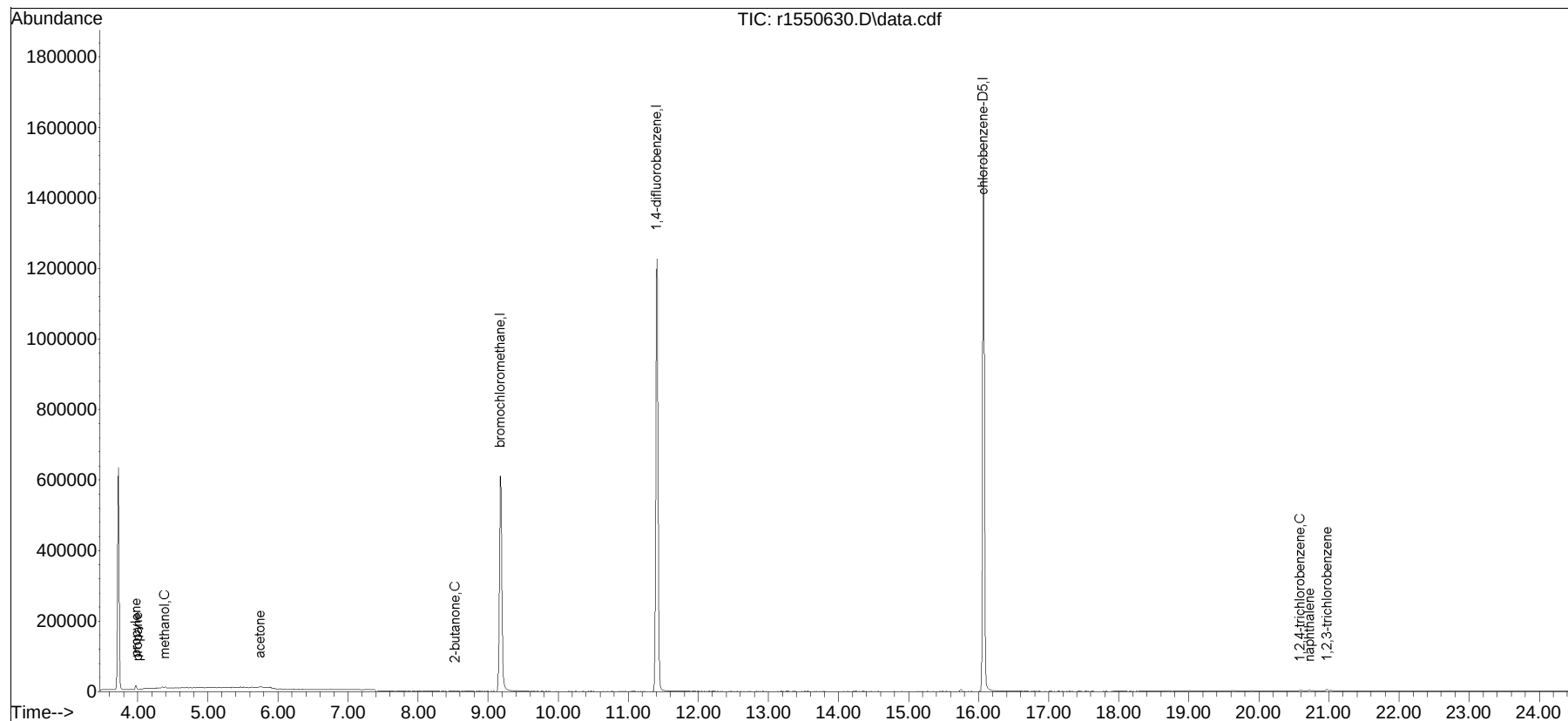
Quant Time: Oct 16 17:23:08 2024

Quant Method : 0:\Forensics\Data\AirLab15\2024\10\1016T\TFS15_241007.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

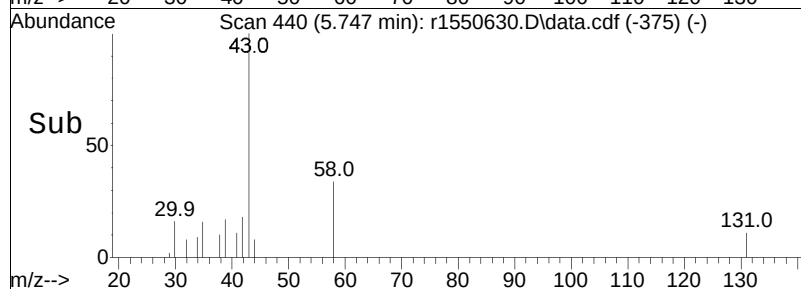
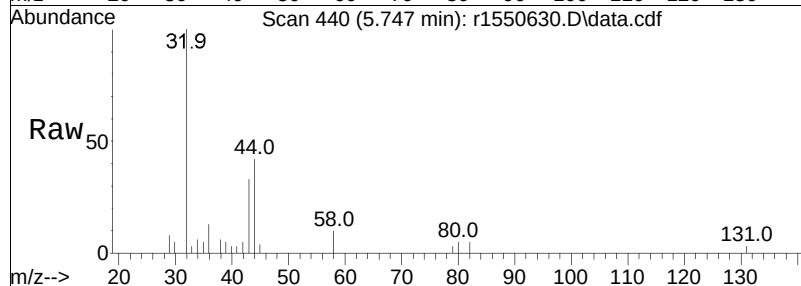
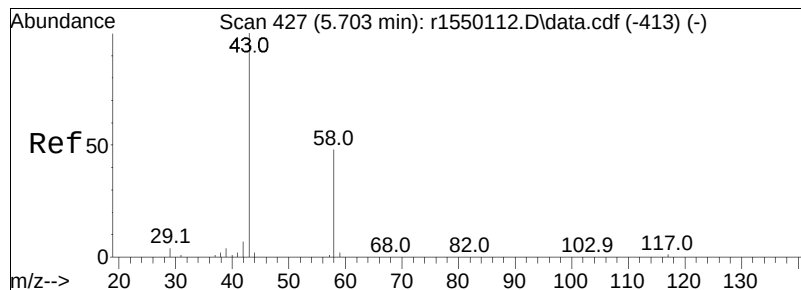
QLast Update : Tue Oct 08 13:55:51 2024

Response via : Initial Calibration



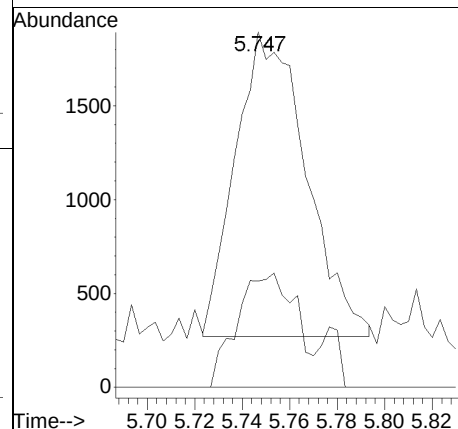
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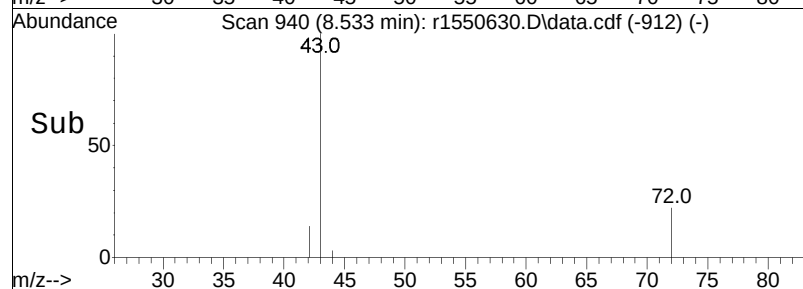
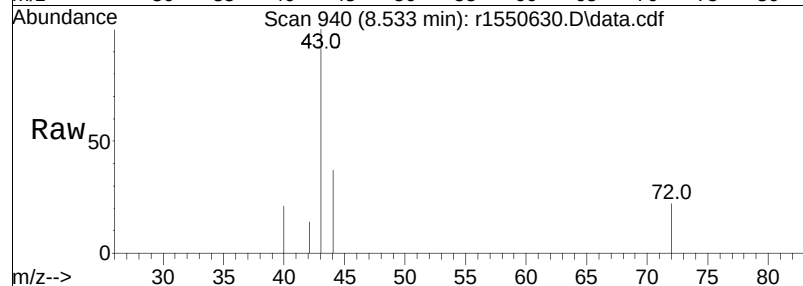
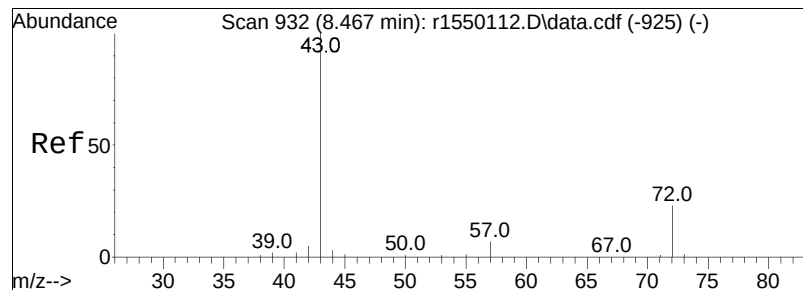
Page: 4



#19
acetone
Concen: 0.13 ppbV m
RT: 5.747 min Scan# 440
Delta R.T. 0.017 min
Lab File: r1550630.D
Acq: 16 Oct 2024 4:16 PM

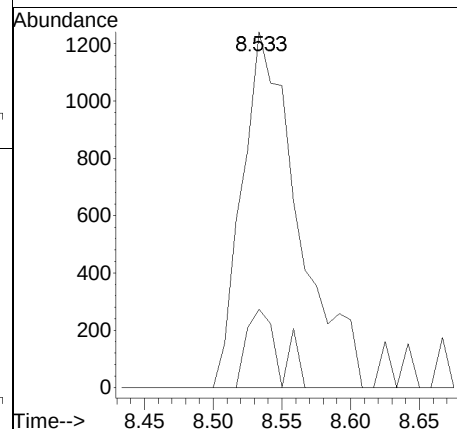
Tgt Ion	Ratio	Lower	Upper
43	100		
58	30.0	31.6	47.4#
57	0.0	0.8	1.2#

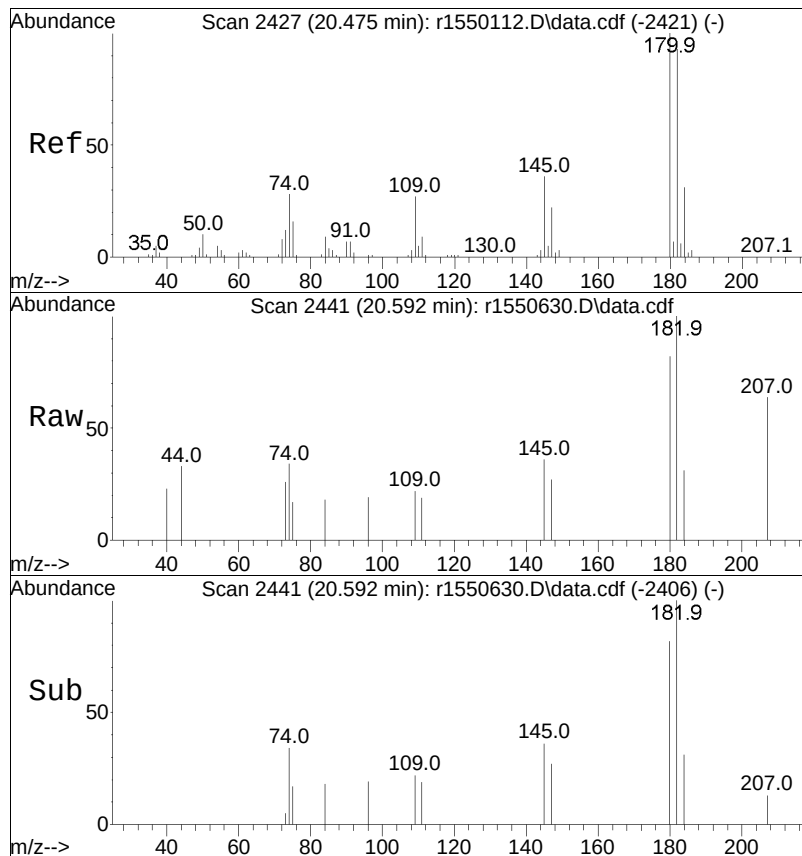




#36
 2-butanone
 Concen: 0.06 ppbV
 RT: 8.533 min Scan# 940
 Delta R.T. 0.033 min
 Lab File: r1550630.D
 Acq: 16 Oct 2024 4:16 PM

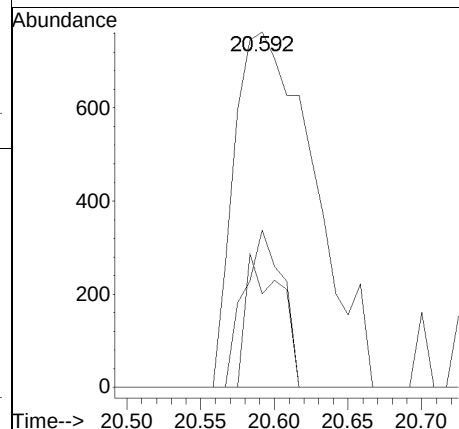
Tgt	Ion	Ratio	Lower	Upper
43	100			
72	22.0	21.7	32.5	
57	0.0	7.0	10.6	

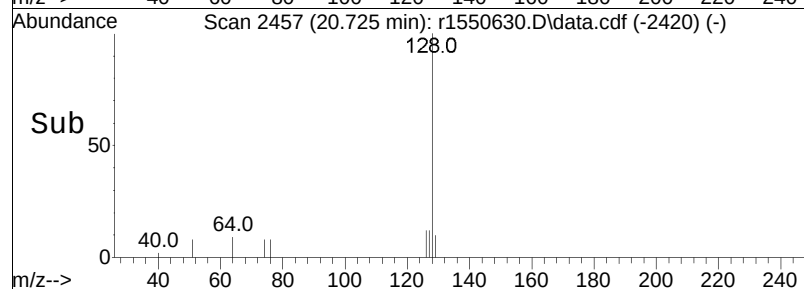
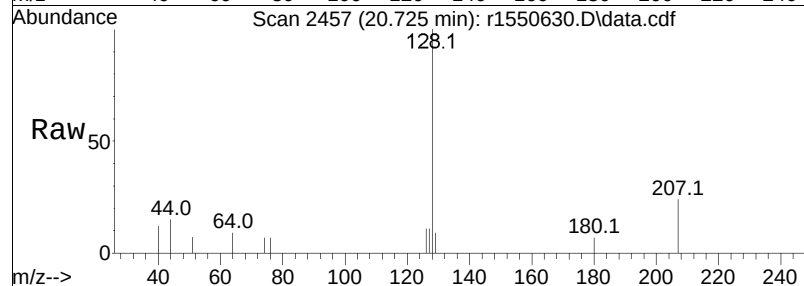
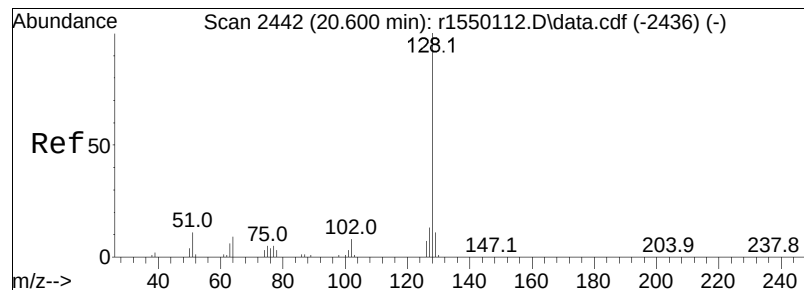




#115
 1,2,4-trichlorobenzene
 Concen: 0.04 ppbV
 RT: 20.592 min Scan# 2441
 Delta R.T. 0.092 min
 Lab File: r1550630.D
 Acq: 16 Oct 2024 4:16 PM

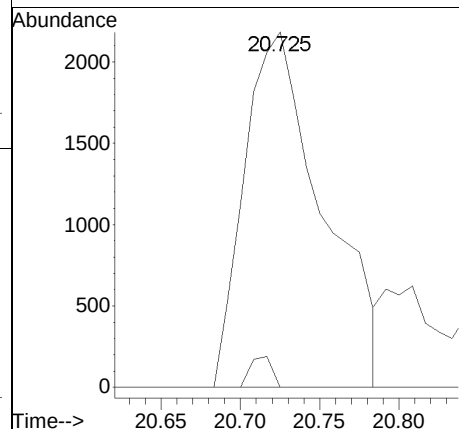
Tgt	Ion:180	Resp:	2885
Ion	Ratio	Lower	Upper
180	100		
145	44.3	28.0	42.0#
109	26.3	20.2	30.4





#116
naphthalene
Concen: 0.04 ppbV
RT: 20.725 min Scan# 2457
Delta R.T. 0.108 min
Lab File: r1550630.D
Acq: 16 Oct 2024 4:16 PM

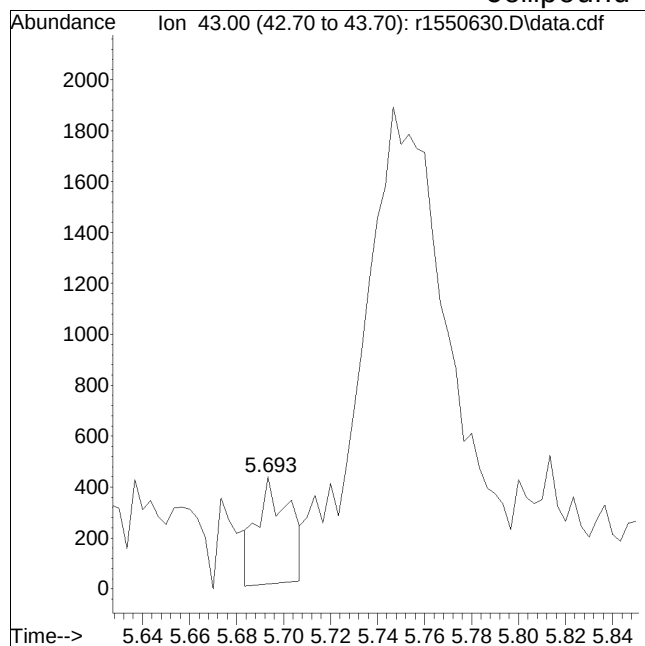
Tgt Ion	Ratio	Lower	Upper
128	100		
102	0.0	5.8	8.6#



Manual Integration Report

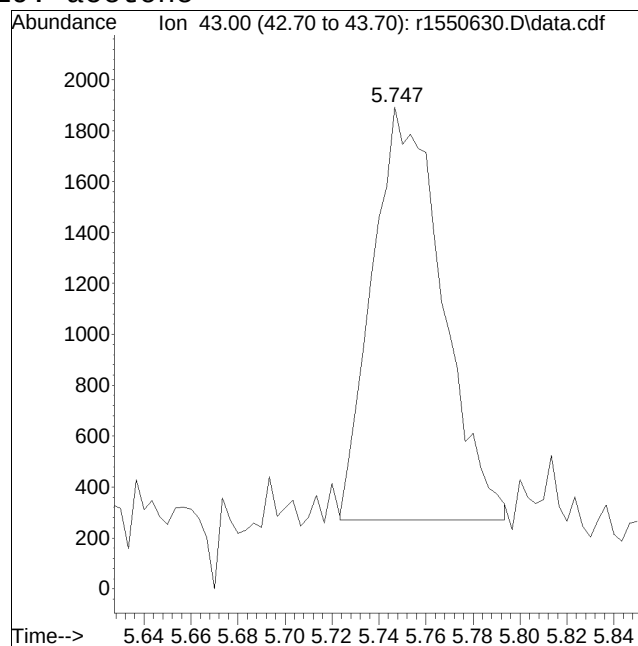
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_241007.M
Data File : r1550630.D Operator : AIRLAB15:JMB
Date Inj'd : 10/16/2024 4:16 PM Instrument :
Sample : WG1985226-4,3,250,250 Quant Date : 10/16/2024 5:23 pm

Compound #19: acetone



Original Peak Response = 398

M4 = Poor automated baseline construction.



Manual Peak Response = 3343 M4

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550629.D
 Acq On : 16 Oct 2024 1:48 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-3,3,250,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 16 14:52:45 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	bromochloromethane	10.000	10.000	0.0	112	0.00
2	chlorodifluoromethane	10.000	6.857	31.4#	100	-0.01
3	propylene	10.000	10.573	-5.7	144	-0.01
4	propane	10.000	7.547	24.5	95	-0.01
5	dichlorodifluoromethane	10.000	8.304	17.0	110	-0.01
6 C	chloromethane	10.000	9.262	7.4	124	-0.01
7	Freon-114	10.000	10.320	-3.2	136	-0.01
8 C	methanol	50.000	40.618	18.8	97	-0.01
9 C	vinyl chloride	10.000	8.523	14.8	109	-0.02
10 C	1,3-butadiene	10.000	9.253	7.5	121	-0.01
11	butane	10.000	10.221	-2.2	136	-0.02
13 C	bromomethane	10.000	9.093	9.1	117	-0.01
14 C	chloroethane	10.000	9.112	8.9	122	-0.01
15	ethanol	50.000	52.675	-5.3	115	-0.01
16	dichlorofluoromethane	10.000	8.611	13.9	117	-0.02
17 C	vinyl bromide	10.000	9.532	4.7	124	-0.02
18 C	acrolein	10.000	8.655	13.5	106	-0.01
19	acetone	50.000	57.513	-15.0	153	-0.02
20 C	acetonitrile	10.000	9.929	0.7	131	-0.01
21	trichlorofluoromethane	10.000	9.261	7.4	122	-0.01
22	isopropyl alcohol	25.000	20.768	16.9	115	-0.02
23 C	acrylonitrile	10.000	8.772	12.3	112	-0.01
24	pentane	10.000	9.826	1.7	130	-0.02
25	ethyl ether	10.000	8.094	19.1	102	-0.02
26 C	1,1-dichloroethene	10.000	10.089	-0.9	130	-0.02
27	tertiary butyl alcohol	10.000	9.732	2.7	119	-0.02
28 C	methylene chloride	10.000	9.419	5.8	120	-0.02
29 C	3-chloropropene	10.000	11.406	-14.1	147	-0.02
30 C	carbon disulfide	10.000	9.349	6.5	117	-0.01
31	Freon 113	10.000	9.911	0.9	130	-0.02
32	trans-1,2-dichloroethene	10.000	9.861	1.4	123	0.00
33 C	1,1-dichloroethane	10.000	9.897	1.0	128	-0.02
34 C	MTBE	10.000	10.278	-2.8	130	-0.02
35 C	vinyl acetate	10.000	9.206	7.9	115	-0.02
36 C	2-butanone	10.000	10.869	-8.7	136	-0.02
37	cis-1,2-dichloroethene	10.000	10.036	-0.4	126	-0.02
38	Ethyl Acetate	10.000	10.497	-5.0	130	-0.02
39 C	chloroform	10.000	8.861	11.4	114	-0.02
40	Tetrahydrofuran	10.000	10.757	-7.6	133	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550629.D
 Acq On : 16 Oct 2024 1:48 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-3,3,250,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 16 14:52:45 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	10.000	8.539	14.6	108	-0.02
42 C	1,2-dichloroethane	10.000	9.477	5.2	123	-0.02
43 I	1,4-difluorobenzene	10.000	10.000	0.0	117	-0.02
44 C	hexane	10.000	9.557	4.4	120	-0.02
45	diisopropyl ether	10.000	8.507	14.9	109	0.00
46	tert-butyl ethyl ether	10.000	8.982	10.2	114	0.00
48 C	1,1,1-trichloroethane	10.000	8.929	10.7	118	-0.02
49	1,1-dichloropropene	10.000	9.183	8.2	118	-0.01
50 C	benzene	10.000	8.652	13.5	114	-0.01
52 C	carbon tetrachloride	10.000	9.115	8.8	117	-0.01
53	cyclohexane	10.000	9.438	5.6	120	-0.01
54	tert-amyl methyl ether	10.000	9.143	8.6	117	-0.01
55	dibromomethane	10.000	8.449	15.5	111	-0.01
56 C	1,2-dichloropropane	10.000	9.498	5.0	126	-0.01
57	bromodichloromethane	10.000	9.260	7.4	118	-0.02
58 C	1,4-dioxane	10.000	9.715	2.9	120	-0.02
59 C	trichloroethene	10.000	8.880	11.2	116	-0.01
60 C	2,2,4-trimethylpentane	10.000	9.608	3.9	122	-0.01
61	methyl methacrylate	10.000	11.411	-14.1	142	-0.01
62	heptane	10.000	10.302	-3.0	132	-0.01
63 C	cis-1,3-dichloropropene	10.000	9.787	2.1	122	-0.02
64 C	4-methyl-2-pentanone	10.000	10.735	-7.3	132	-0.02
65	trans-1,3-dichloropropene	10.000	9.994	0.1	124	-0.02
66 C	1,1,2-trichloroethane	10.000	9.273	7.3	125	0.00
67 I	chlorobenzene-D5	10.000	10.000	0.0	112	-0.02
68 C	toluene	10.000	8.898	11.0	114	0.00
71	1,3-dichloropropane	10.000	8.518	14.8	109	0.00
72	2-hexanone	10.000	10.906	-9.1	130	0.00
74	dibromochloromethane	10.000	9.754	2.5	119	-0.02
75 C	1,2-dibromoethane	10.000	9.418	5.8	122	0.00
76	butyl acetate	10.000	9.195	8.0	110	-0.02
77	octane	10.000	8.304	17.0	107	-0.02
78 C	tetrachloroethene	10.000	8.673	13.3	111	-0.02
79	1,1,1,2-tetrachloroethane	10.000	8.698	13.0	109	-0.02
80 C	chlorobenzene	10.000	8.929	10.7	115	0.00
81 C	ethylbenzene	10.000	9.052	9.5	113	0.00
83 C	m+p-xylene	20.000	18.462	7.7	116	-0.02

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550629.D
 Acq On : 16 Oct 2024 1:48 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-3,3,250,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 16 14:52:45 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
84 C	bromoform	10.000	9.534	4.7	114	-0.02
85 C	styrene	10.000	9.682	3.2	120	0.00
86 C	1,1,2,2-tetrachloroethane	10.000	8.962	10.4	112	0.00
87 C	o-xylene	10.000	9.314	6.9	116	0.00
88	1,2,3-trichloropropane	10.000	8.192	18.1	105	-0.02
89	nonane	10.000	8.913	10.9	112	0.00
91 C	isopropylbenzene	10.000	8.900	11.0	113	0.00
92	bromobenzene	10.000	8.124	18.8	105	-0.02
93	2-chlorotoluene	10.000	8.470	15.3	106	-0.02
94	n-propylbenzene	10.000	8.434	15.7	106	0.00
95	4-chlorotoluene	10.000	8.220	17.8	104	-0.02
96	4-ethyl toluene	10.000	9.299	7.0	118	0.00
97	1,3,5-trimethylbenzene	10.000	9.123	8.8	118	0.00
98	tert-butylbenzene	10.000	8.740	12.6	107	0.00
99	1,2,4-trimethylbenzene	10.000	9.637	3.6	118	0.00
100	decane	10.000	8.730	12.7	107	0.00
101 C	Benzyl Chloride	10.000	8.402	16.0	97	0.00
102	1,3-dichlorobenzene	10.000	9.296	7.0	116	0.00
103 C	1,4-dichlorobenzene	10.000	9.107	8.9	114	0.00
104	sec-butylbenzene	10.000	8.731	12.7	108	0.00
106	p-isopropyltoluene	10.000	8.204	18.0	100	0.00
107	1,2-dichlorobenzene	10.000	10.492	-4.9	137	0.00
108	n-butylbenzene	10.000	8.930	10.7	110	0.02
111 C	1,2-dibromo-3-chloropropane	10.000	8.628	13.7	102	0.02
112	undecane	10.000	9.362	6.4	109	0.03
114	dodecane	10.000	9.940	0.6	99	0.04
115 C	1,2,4-trichlorobenzene	10.000	9.469	5.3	104	0.04
116	naphthalene	10.000	8.755	12.4	94	0.05
117	1,2,3-trichlorobenzene	10.000	9.019	9.8	98	0.05
119 C	hexachlorobutadiene	10.000	9.231	7.7	109	0.04

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550629.D
 Acq On : 16 Oct 2024 1:48 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-3,3,250,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 16 14:52:45 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1016T\r1550628.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.183	49	417148	10.000	ppbV	0.00
Standard Area = 416135			Recovery =	100.24%		
43) 1,4-difluorobenzene	11.407	114	1283258	10.000	ppbV	-0.02
Standard Area = 1287285			Recovery =	99.69%		
67) chlorobenzene-D5	16.083	54	195329	10.000	ppbV	-0.02
Standard Area = 193671			Recovery =	100.86%		

System Monitoring Compounds

Target Compounds					Qvalue	
5) dichlorodifluoromethane	4.036	85	411611	8.304	ppbV	98
6) chloromethane	4.204	50	169106	9.262	ppbV	95
7) Freon-114	4.312	85	494708	10.320	ppbV	89
9) vinyl chloride	4.432	62	217292	8.523	ppbV	98
10) 1,3-butadiene	4.582	54	148192	9.253	ppbV	89
13) bromomethane	4.870	94	185293	9.093	ppbV	99
14) chloroethane	5.062	64	117448	9.112	ppbV	98
15) ethanol	5.200	31	609647	52.675	ppbV #	77
17) vinyl bromide	5.440	106	195243	9.532	ppbV	99
19) acetone	5.713	43	1548266	57.513	ppbV #	84
21) trichlorofluoromethane	5.907	101	370547	9.261	ppbV	100
22) isopropyl alcohol	6.000	45	844747	20.768	ppbV #	96
26) 1,1-dichloroethene	6.612	61	467126	10.089	ppbV	98
27) tertiary butyl alcohol	6.672	59	515412	9.732	ppbV	96
28) methylene chloride	6.756	49	312200	9.419	ppbV	100
29) 3-chloropropene	6.888	41	445100	11.406	ppbV	98
30) carbon disulfide	7.062	76	757083	9.349	ppbV	99
31) Freon 113	7.056	101	556926	9.911	ppbV	98
32) trans-1,2-dichloroethene	7.817	61	443288	9.861	ppbV	99
33) 1,1-dichloroethane	8.033	63	589168	9.897	ppbV	100
34) MTBE	8.108	73	705177	10.278	ppbV	98
36) 2-butanone	8.483	43	634461	10.869	ppbV	98
37) cis-1,2-dichloroethene	8.992	61	444582	10.036	ppbV	99
38) Ethyl Acetate	9.258	61	116586	10.497	ppbV	82
39) chloroform	9.333	83	495949	8.861	ppbV	98
40) Tetrahydrofuran	9.775	42	390564	10.757	ppbV	97
42) 1,2-dichloroethane	10.167	62	341054	9.477	ppbV	97
44) hexane	9.242	57	548443	9.557	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550629.D
 Acq On : 16 Oct 2024 1:48 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-3,3,250,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 16 14:52:45 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1016T\r1550628.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	10.458	97	444994	8.929	ppbV	100
50) benzene	10.987	78	973002	8.652	ppbV	99
52) carbon tetrachloride	11.160	117	386872	9.115	ppbV	97
53) cyclohexane	11.307	56	586649	9.438	ppbV	97
56) 1,2-dichloropropane	11.933	63	404446	9.498	ppbV	98
57) bromodichloromethane	12.160	83	498760	9.260	ppbV	98
58) 1,4-dioxane	12.200	88	239058	9.715	ppbV	98
59) trichloroethene	12.213	130	414412	8.880	ppbV	94
60) 2,2,4-trimethylpentane	12.260	57	1859480	9.608	ppbV	96
62) heptane	12.573	43	670372	10.302	ppbV	95
63) cis-1,3-dichloropropene	13.225	75	488466	9.787	ppbV	96
64) 4-methyl-2-pentanone	13.258	43	758748	10.735	ppbV	96
65) trans-1,3-dichloropropene	13.842	75	374135	9.994	ppbV	95
66) 1,1,2-trichloroethane	14.042	97	404093	9.273	ppbV	95
68) toluene	14.350	91	1197294	8.898	ppbV	98
72) 2-hexanone	14.625	43	686985	10.906	ppbV #	91
74) dibromochloromethane	14.783	129	511840	9.754	ppbV	97
75) 1,2-dibromoethane	15.033	107	563745	9.418	ppbV	99
78) tetrachloroethene	15.483	166	478124	8.673	ppbV	96
80) chlorobenzene	16.125	112	928551	8.929	ppbV	99
81) ethylbenzene	16.475	91	1547023	9.052	ppbV	98
83) m+p-xylene	16.633	91	2517929	18.462	ppbV	98
84) bromoform	16.700	173	440901	9.534	ppbV	98
85) styrene	16.958	104	1016311	9.682	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.050	83	883153	8.962	ppbV	98
87) o-xylene	17.050	91	1267009	9.314	ppbV	100
96) 4-ethyl toluene	18.108	105	1664062	9.299	ppbV	96
97) 1,3,5-trimethylbenzene	18.175	105	1624415	9.123	ppbV	100
99) 1,2,4-trimethylbenzene	18.517	105	1461984	9.637	ppbV	94
101) Benzyl Chloride	18.642	91	753930	8.402	ppbV	98
102) 1,3-dichlorobenzene	18.650	146	973303	9.296	ppbV	95
103) 1,4-dichlorobenzene	18.708	146	956412	9.107	ppbV	98
107) 1,2-dichlorobenzene	19.008	146	921718	10.492	ppbV	93
115) 1,2,4-trichlorobenzene	20.542	180	653114	9.469	ppbV	96
116) naphthalene	20.667	128	1605631	8.755	ppbV	98
119) hexachlorobutadiene	20.983	225	575844	9.231	ppbV	97

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550629.D
 Acq On : 16 Oct 2024 1:48 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-3,3,250,250
 Misc : WG1985226,ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 16 14:52:45 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

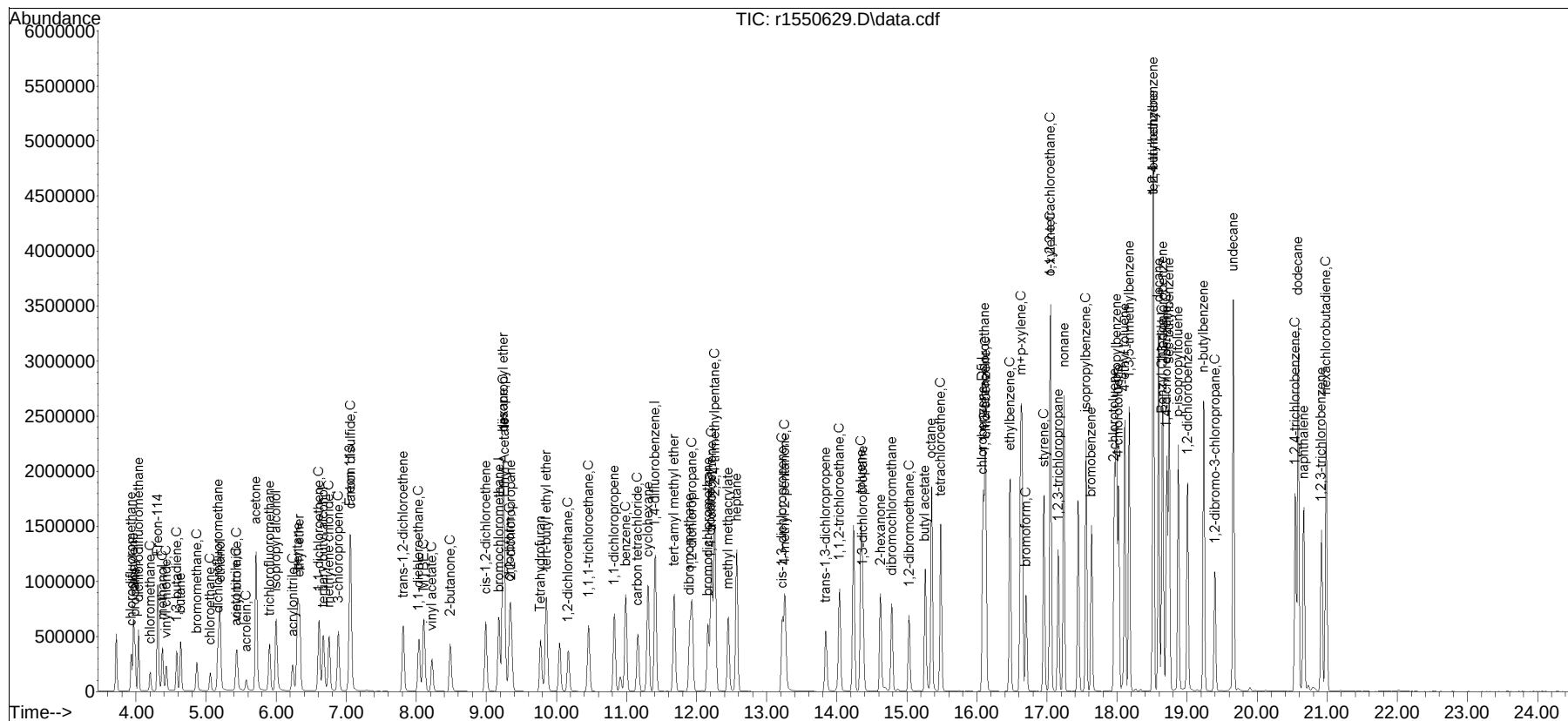
CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1016T\r1550628.D
 Sub List : Default-LCS-AP2 - All compounds listed

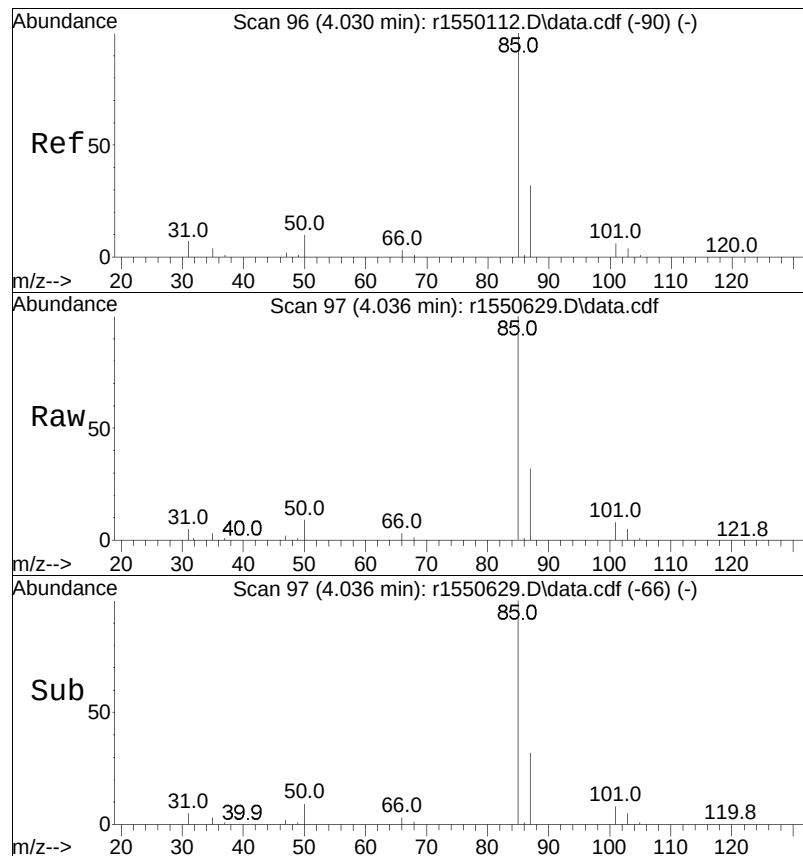
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Sub List : Default-LCS-AP2 - All compounds listed6T\r1550628.D

Data Path : 0:\Forensics\Data\AirLab15\2024\10\1016T\
Data File : r1550629.D
Acq On : 16 Oct 2024 1:48 PM
Operator : AIRLAB15:JMB
Sample : WG1985226-3,3,250,250
Misc : WG1985226,ICAL21580
ALS Vial : 0 Sample Multiplier: 1

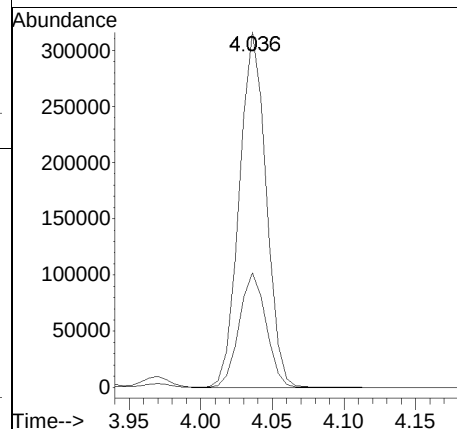
Quant Time: Oct 16 14:52:45 2024
Quant Method : 0:\Forensics\Data\AirLab15\2024\10\1016T\TFS15_241007.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Oct 08 13:55:51 2024
Response via : Initial Calibration

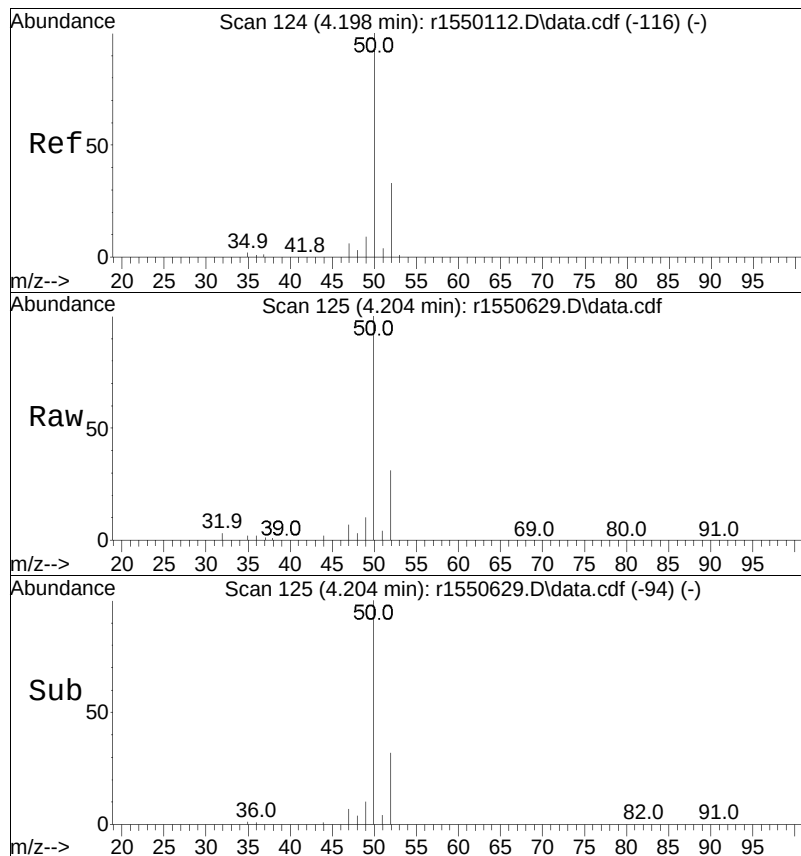




#5
dichlorodifluoromethane
Concen: 8.30 ppbV
RT: 4.036 min Scan# 97
Delta R.T. -0.012 min
Lab File: r1550629.D
Acq: 16 Oct 2024 1:48 PM

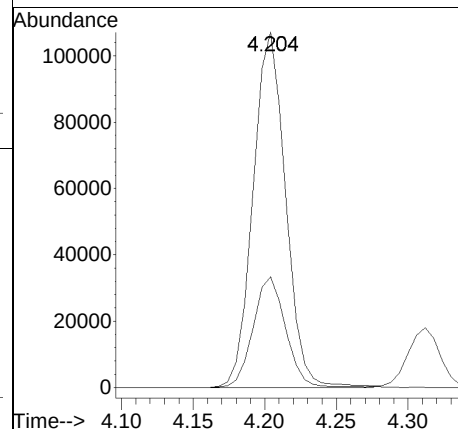
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.3	26.8	40.2

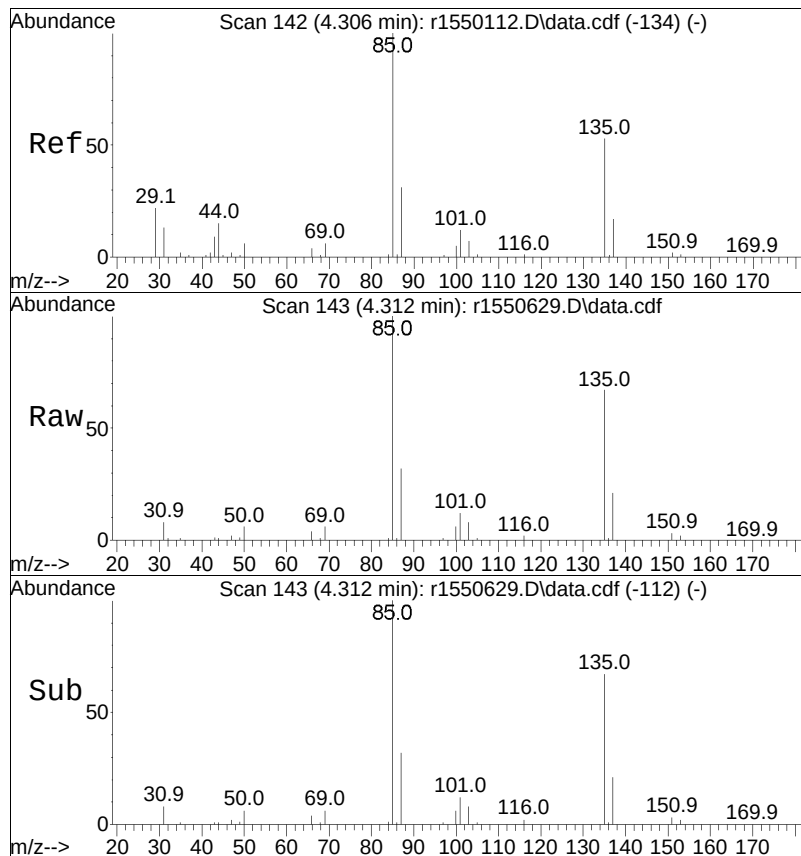




#6
 chloromethane
 Concen: 9.26 ppbV
 RT: 4.204 min Scan# 125
 Delta R.T. -0.012 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

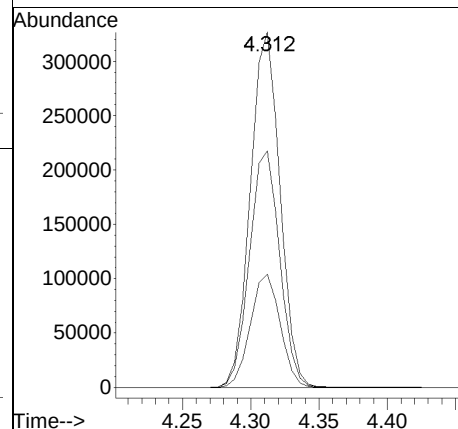
Tgt Ion	Ratio	Lower	Upper
50	100		
52	31.1	27.4	41.0

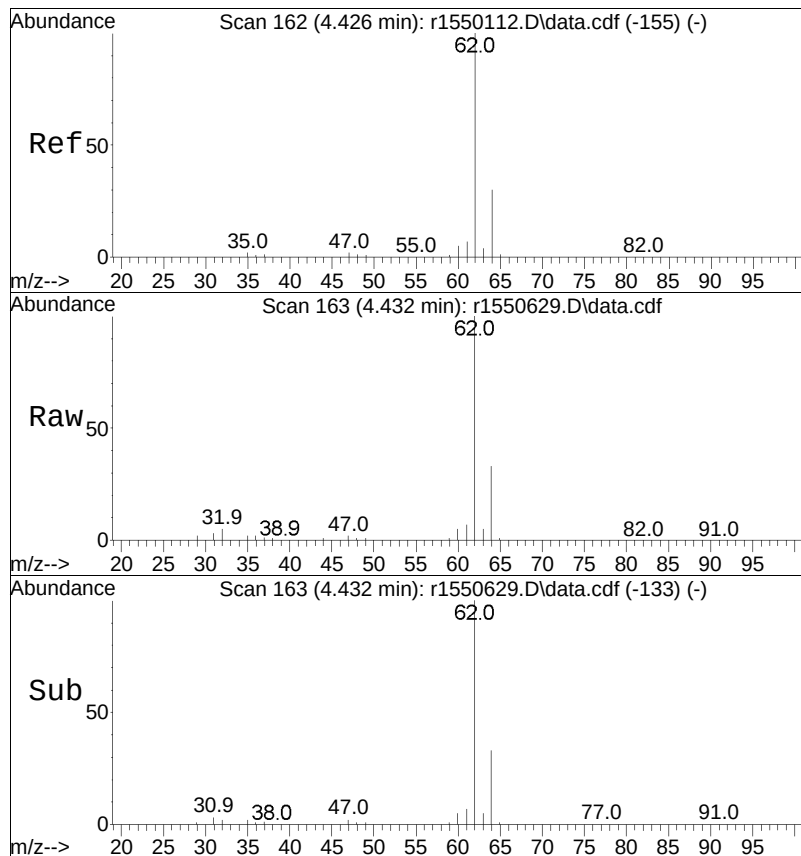




#7
 Freon-114
 Concen: 10.32 ppbV
 RT: 4.312 min Scan# 143
 Delta R.T. -0.012 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

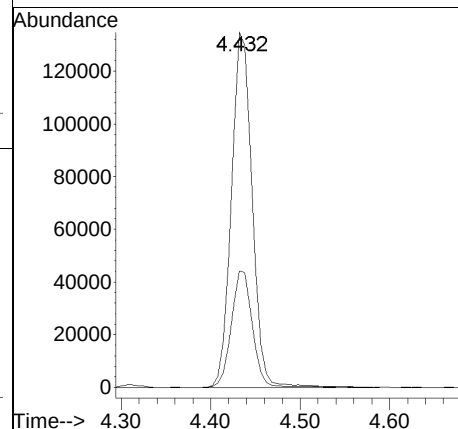
Tgt	Ion: 85	Resp:	494708
Ion	Ratio	Lower	Upper
85	100		
87	31.9	26.5	39.7
135	66.6	64.1	96.1

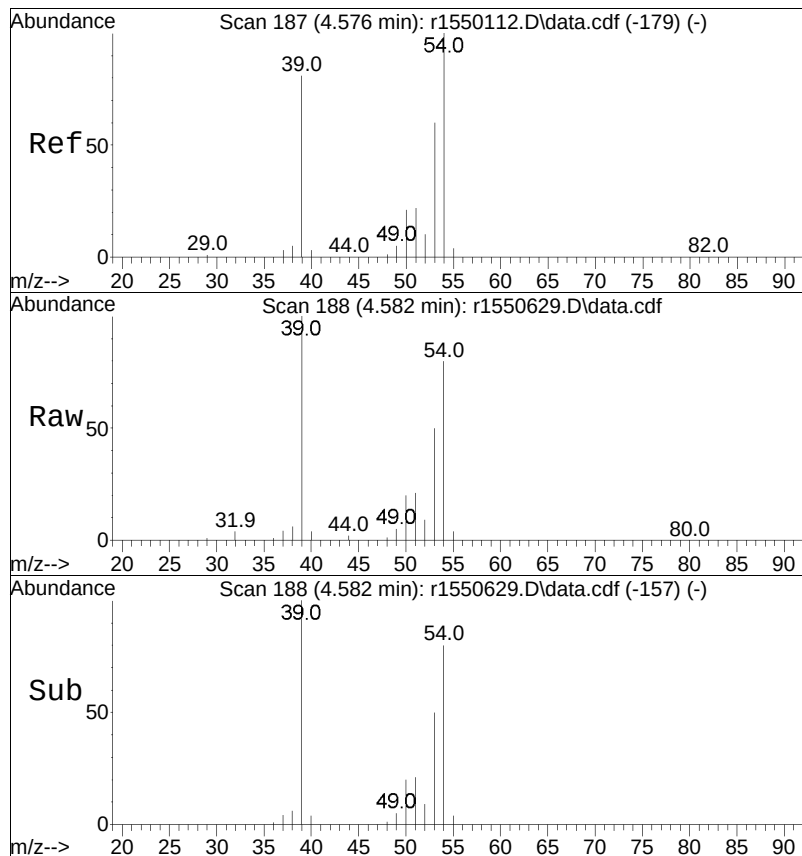




#9
 vinyl chloride
 Concen: 8.52 ppbV
 RT: 4.432 min Scan# 163
 Delta R.T. -0.018 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

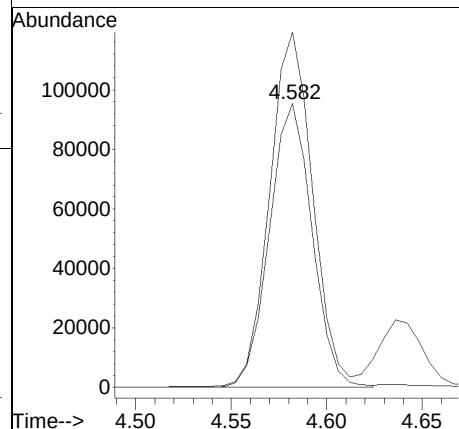
Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.5	38.3

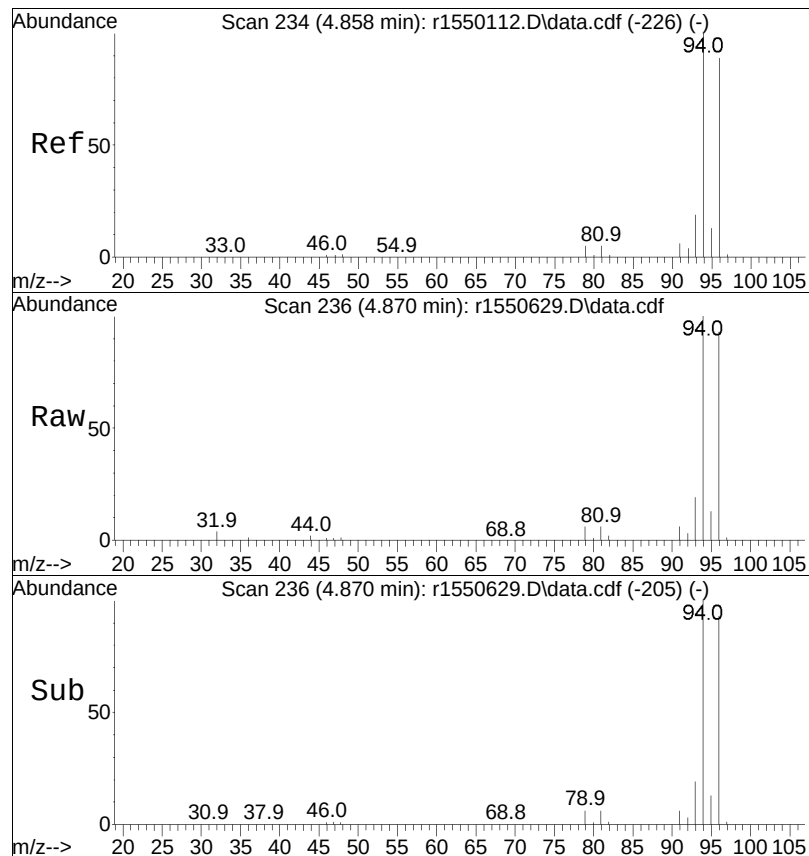




#10
 1,3-butadiene
 Concen: 9.25 ppbV
 RT: 4.582 min Scan# 188
 Delta R.T. -0.012 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

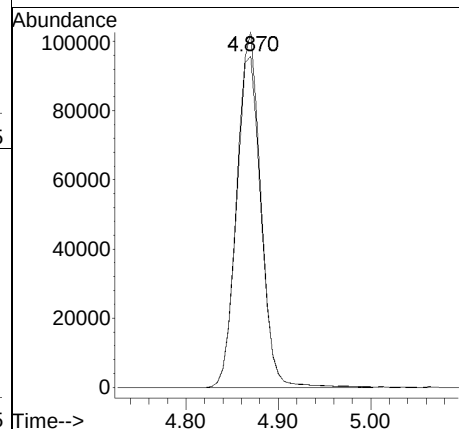
Tgt	Ion	Resp	Lower	Upper
54	100	148192		
39	125.2	90.3	135.5	

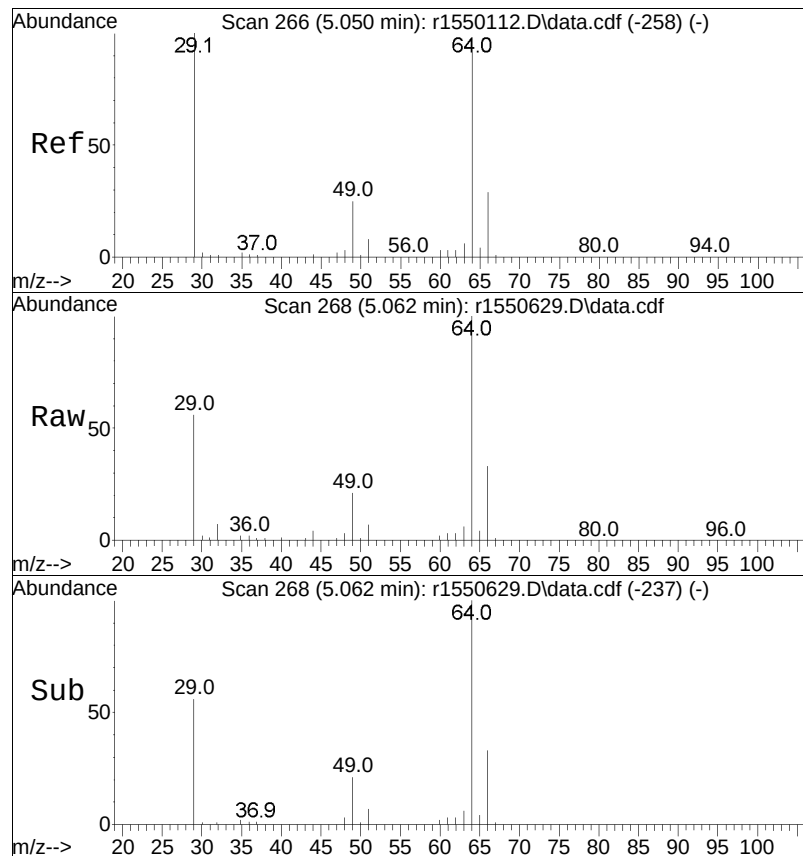




#13
bromomethane
Concen: 9.09 ppbV
RT: 4.870 min Scan# 236
Delta R.T. -0.012 min
Lab File: r1550629.D
Acq: 16 Oct 2024 1:48 PM

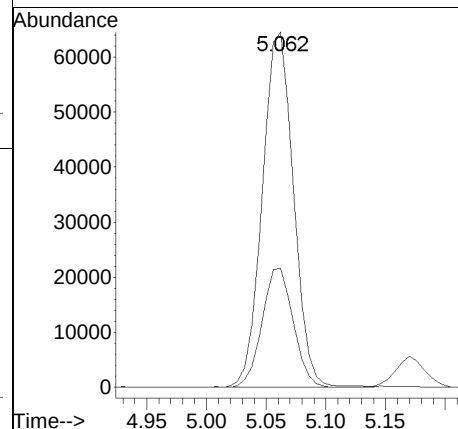
Tgt Ion	Ratio	Lower	Upper
94	100		
96	93.2	75.6	113.4

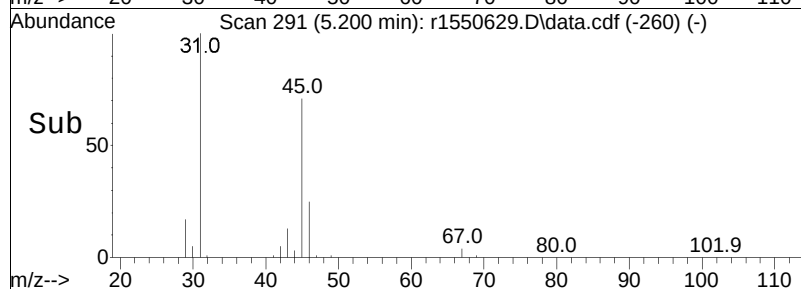
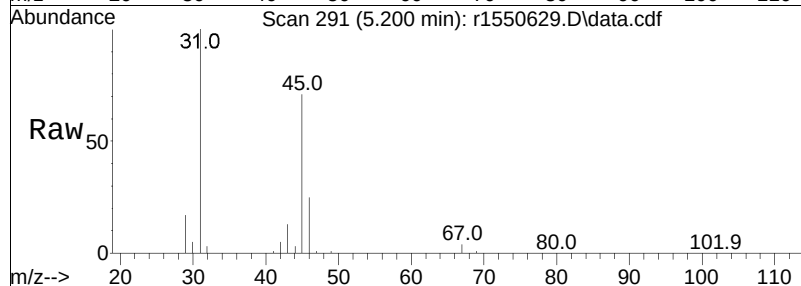
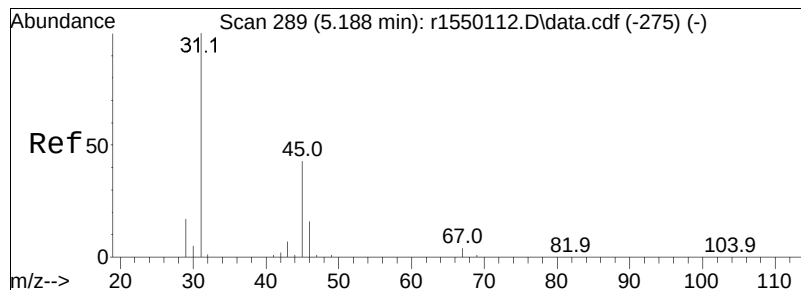




#14
 chloroethane
 Concen: 9.11 ppbV
 RT: 5.062 min Scan# 268
 Delta R.T. -0.012 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

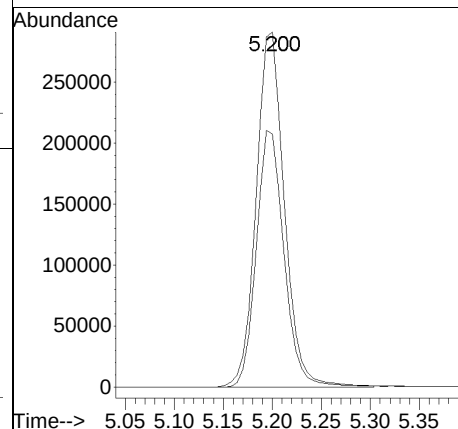
Tgt Ion	Ratio	Lower	Upper
64	100		
66	33.5	25.8	38.6

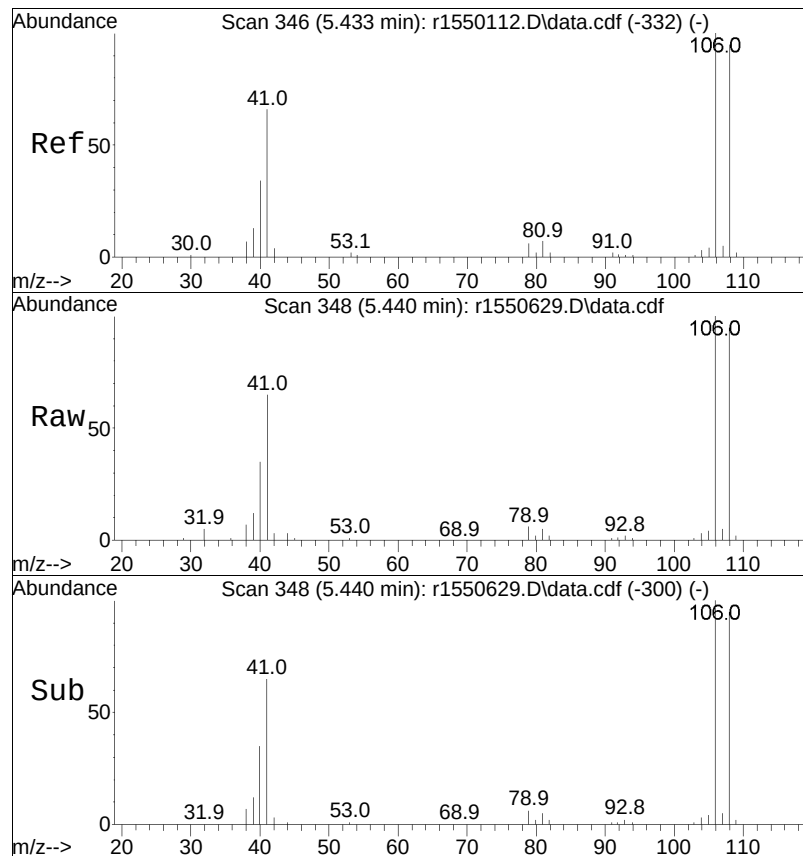




#15
ethanol
Concen: 52.68 ppbV
RT: 5.200 min Scan# 291
Delta R.T. -0.012 min
Lab File: r1550629.D
Acq: 16 Oct 2024 1:48 PM

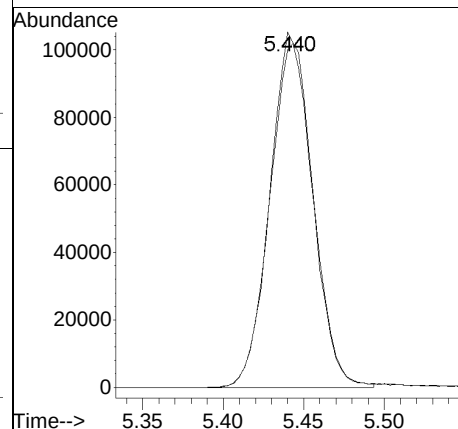
Tgt	Ion	Ratio	Lower	Upper
31	100			
45	71.4	44.0	66.0	

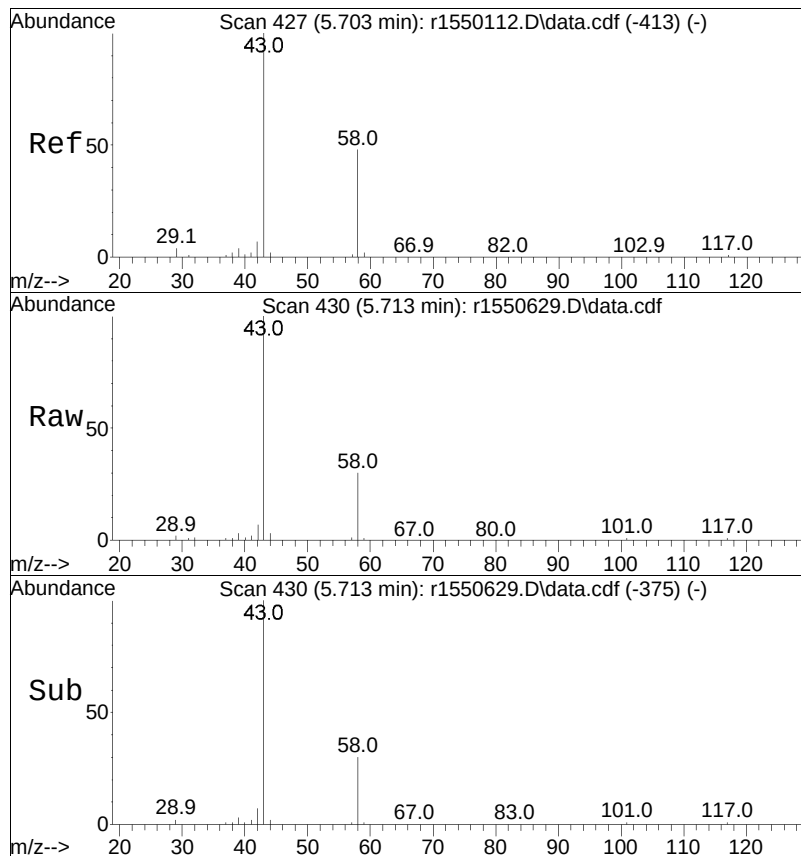




#17
 vinyl bromide
 Concen: 9.53 ppbV
 RT: 5.440 min Scan# 348
 Delta R.T. -0.017 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

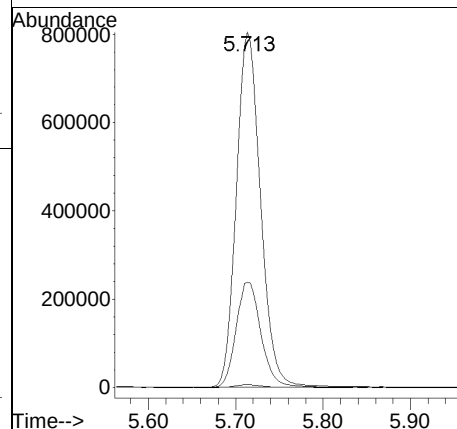
Tgt Ion	Ratio	Lower	Upper
106	100		
108	95.1	76.7	115.1

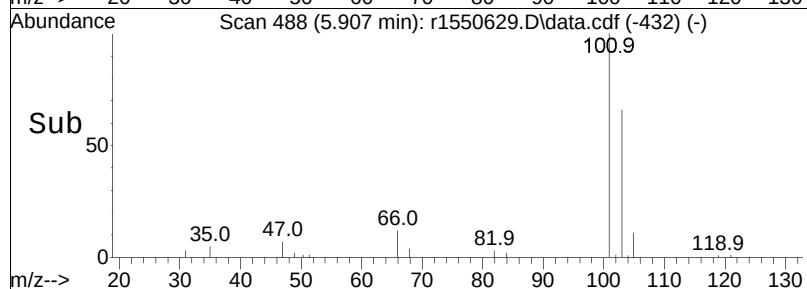
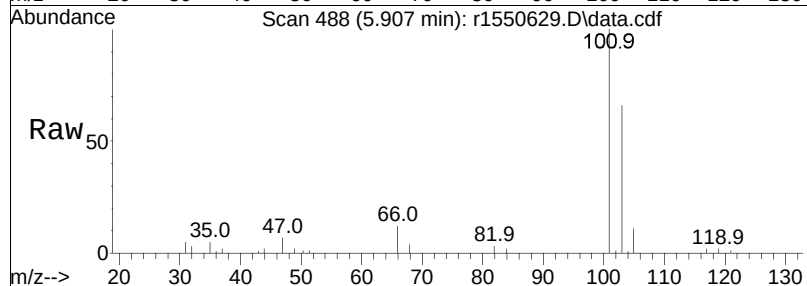
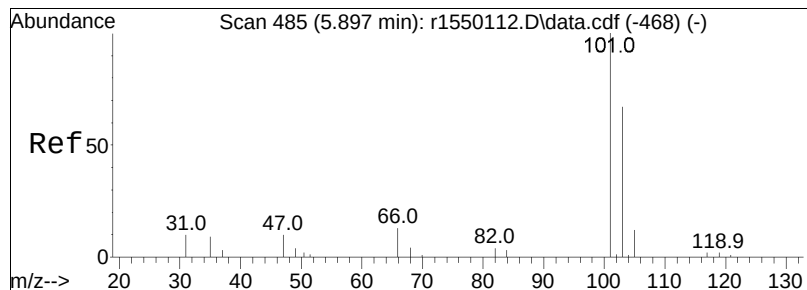




#19
 acetone
 Concen: 57.51 ppbV
 RT: 5.713 min Scan# 430
 Delta R.T. -0.017 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

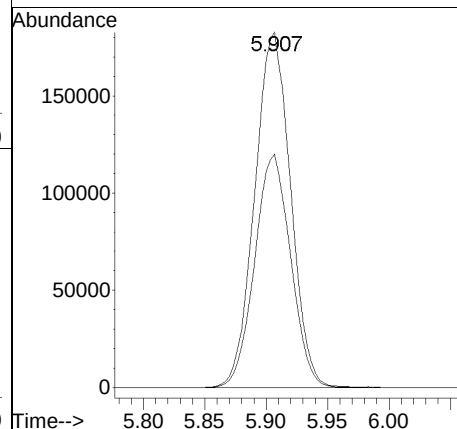
Tgt Ion:	43	Resp:	1548266
Ion Ratio	Lower	Upper	
43	100		
58	29.6	31.6	47.4#
57	0.7	0.8	1.2#

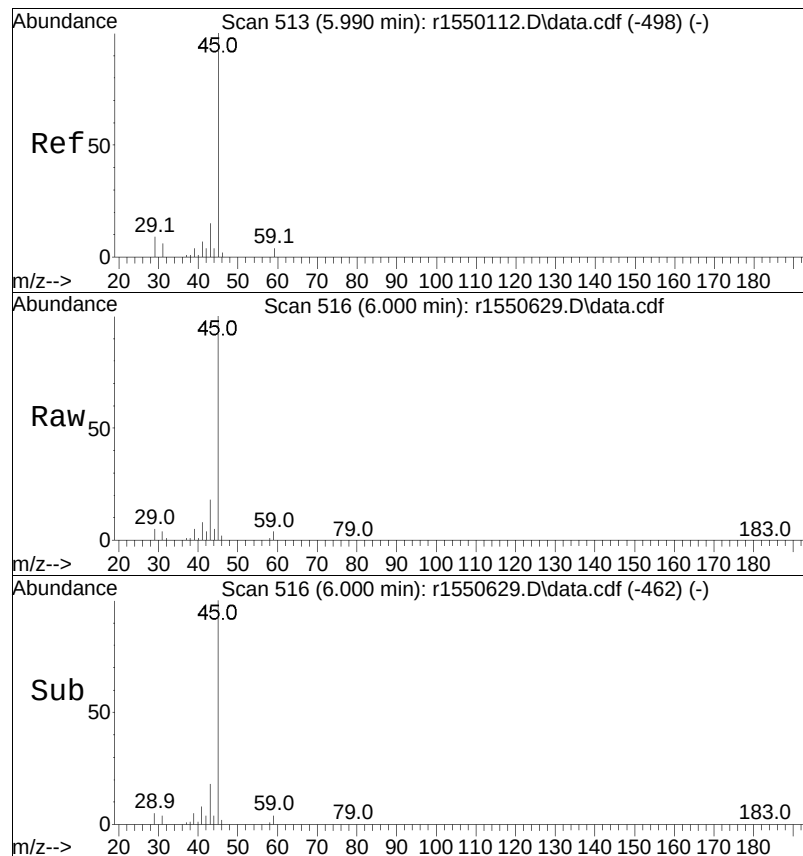




#21
trichlorofluoromethane
Concen: 9.26 ppbV
RT: 5.907 min Scan# 488
Delta R.T. -0.013 min
Lab File: r1550629.D
Acq: 16 Oct 2024 1:48 PM

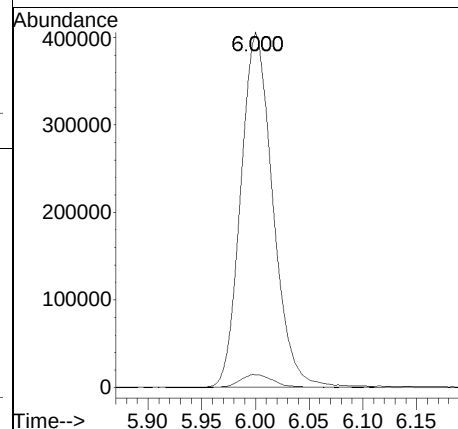
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	65.7	52.2	78.4	

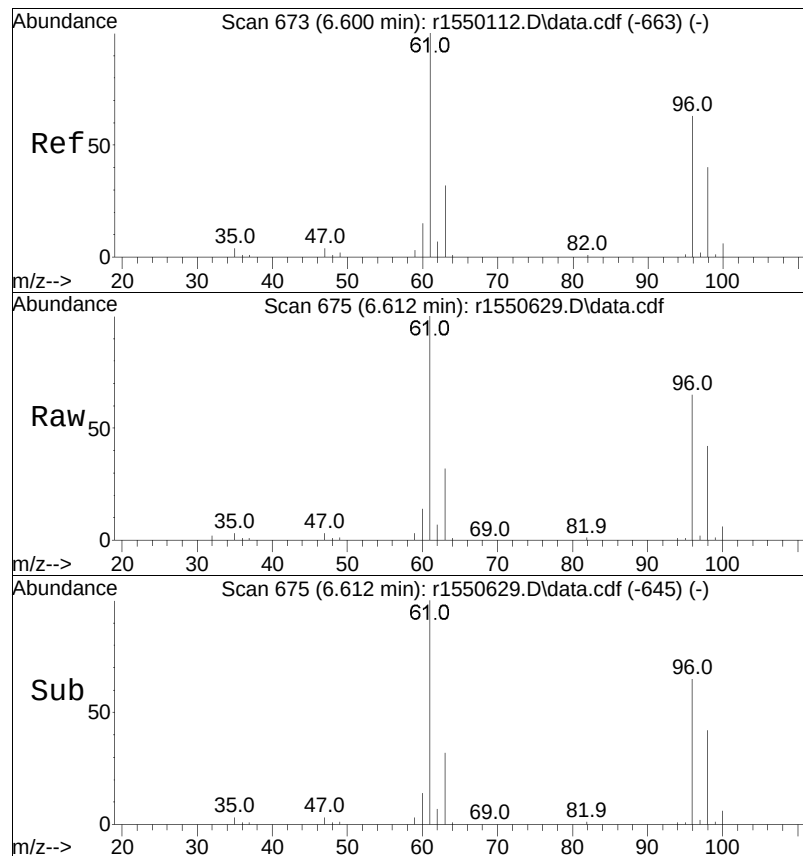




#22
isopropyl alcohol
Concen: 20.77 ppbV
RT: 6.000 min Scan# 516
Delta R.T. -0.020 min
Lab File: r1550629.D
Acq: 16 Oct 2024 1:48 PM

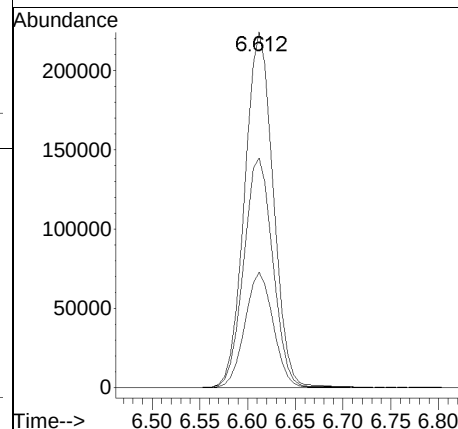
Tgt	Ion	Resp	Ratio	Lower	Upper
45	100				
59	3.6		3.8	5.8#	

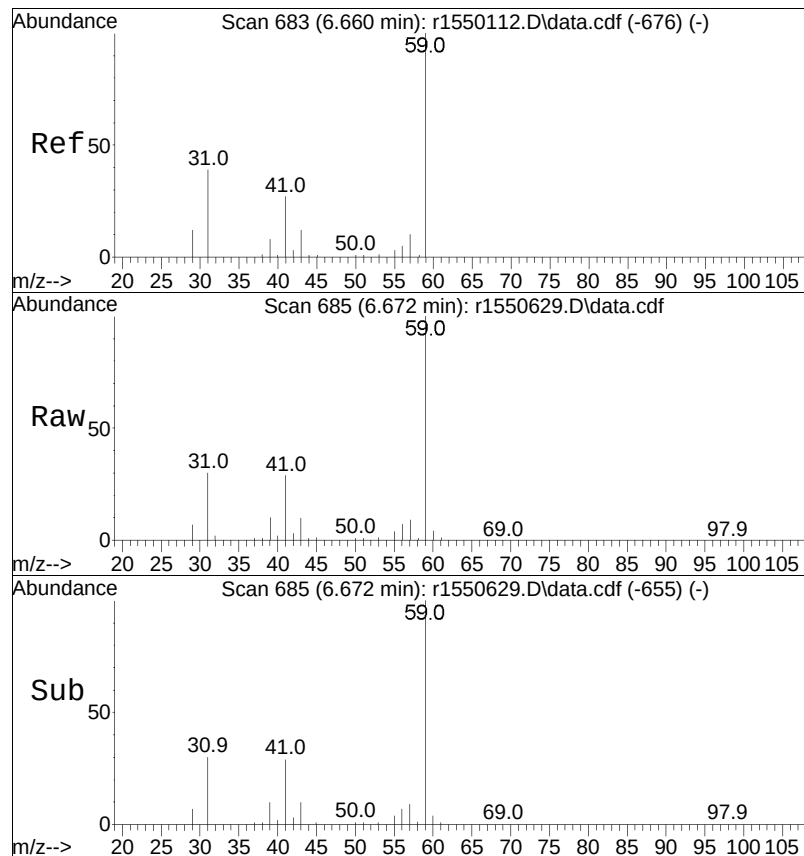




#26
 1,1-dichloroethene
 Concen: 10.09 ppbV
 RT: 6.612 min Scan# 675
 Delta R.T. -0.018 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

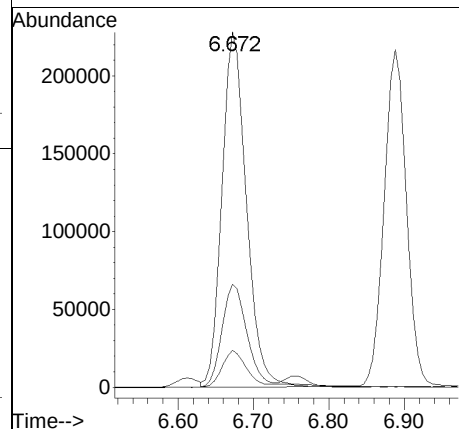
Tgt Ion:	61	Resp:	467126
Ion Ratio	Lower	Upper	
61	100		
96	64.6	51.0	76.6
63	32.4	24.6	37.0

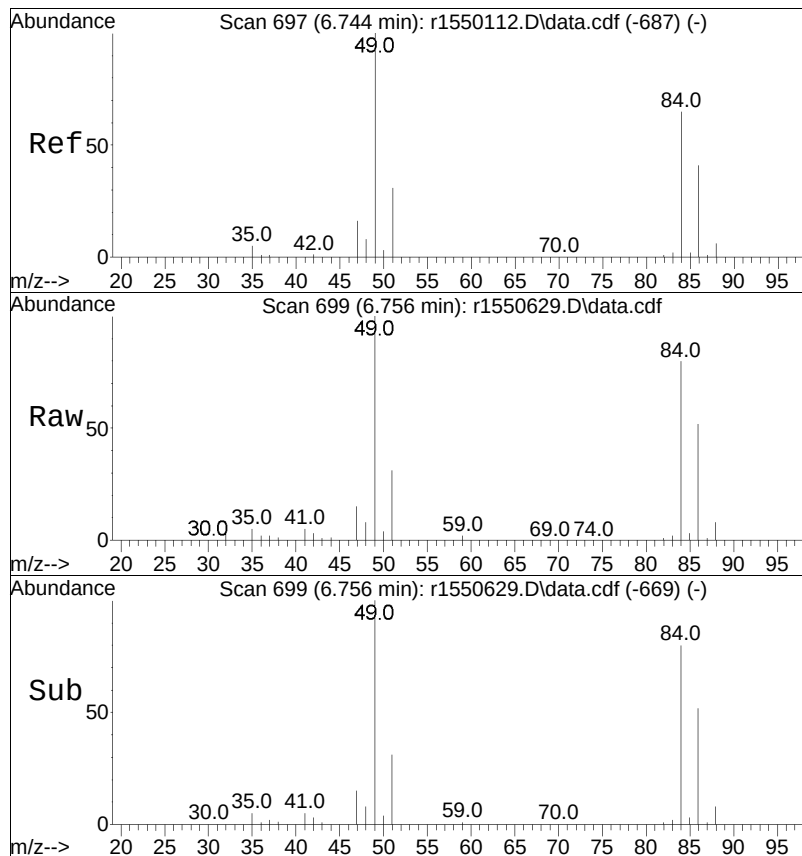




#27
 tertiary butyl alcohol
 Concen: 9.73 ppbV
 RT: 6.672 min Scan# 685
 Delta R.T. -0.018 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

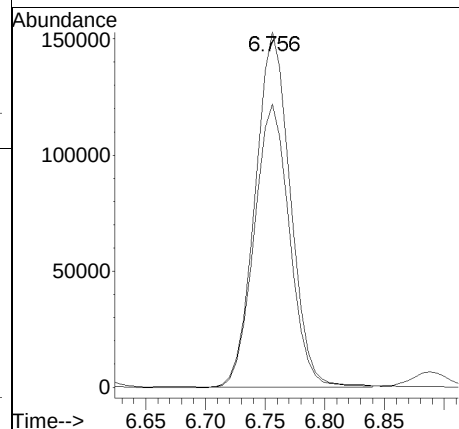
Tgt	Ion: 59	Resp:	515412
Ion	Ratio	Lower	Upper
59	100		
41	29.0	21.3	31.9
43	10.4	7.7	11.5

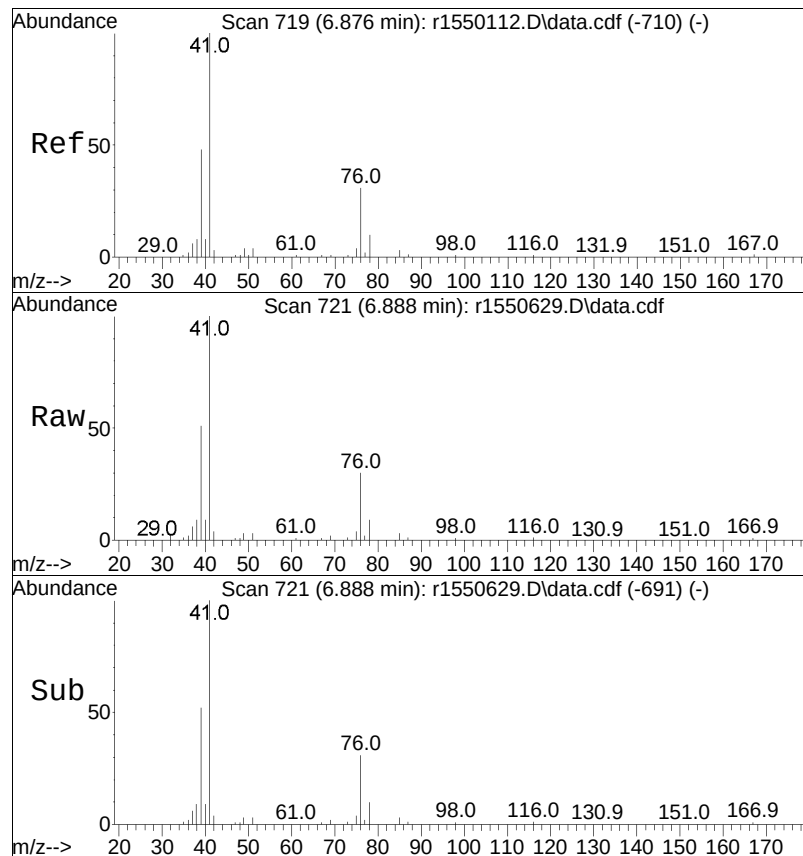




#28
 methylene chloride
 Concen: 9.42 ppbV
 RT: 6.756 min Scan# 699
 Delta R.T. -0.018 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

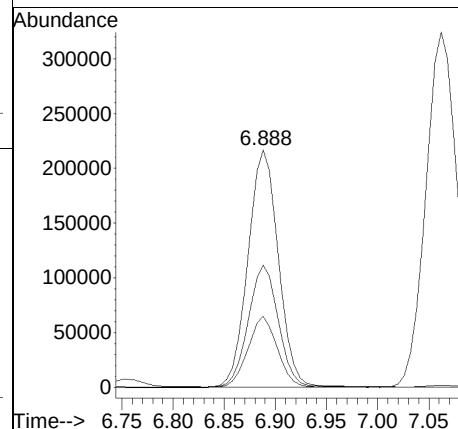
Tgt Ion:	49	Resp:	312200
Ion Ratio	Lower	Upper	
49	100		
84	79.7	63.4	95.2

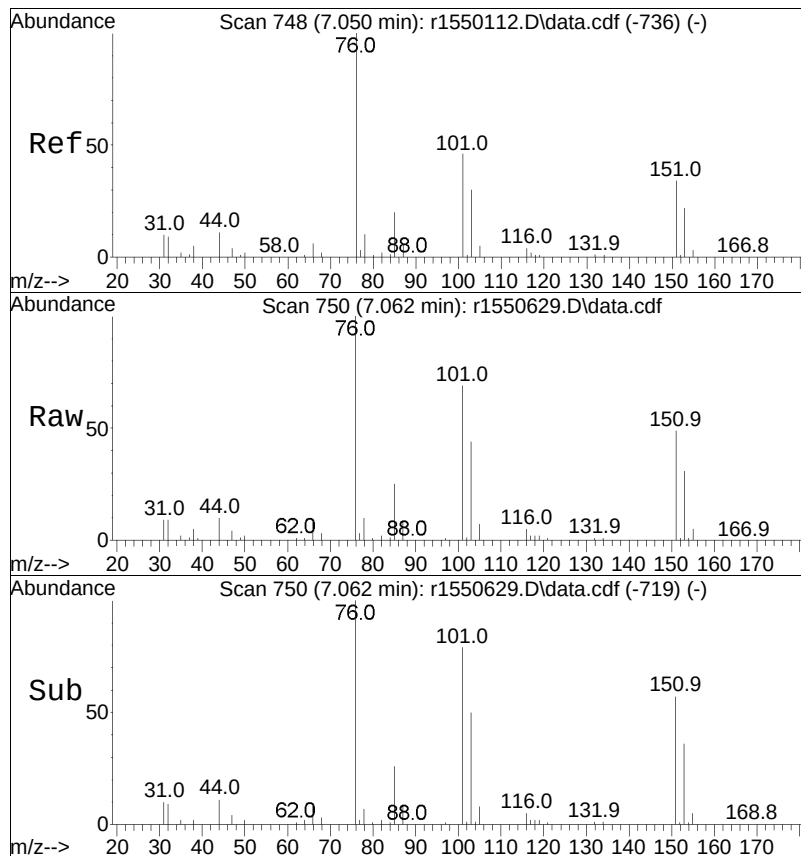




#29
 3-chloropropene
 Concen: 11.41 ppbV
 RT: 6.888 min Scan# 721
 Delta R.T. -0.018 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

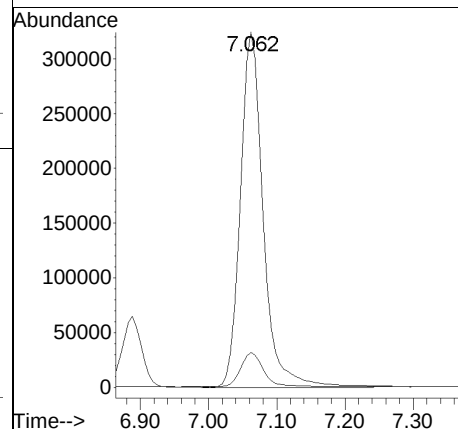
Tgt	Ion: 41	Resp:	445100
Ion	Ratio	Lower	Upper
41	100		
39	51.5	40.9	61.3
76	30.0	26.3	39.5

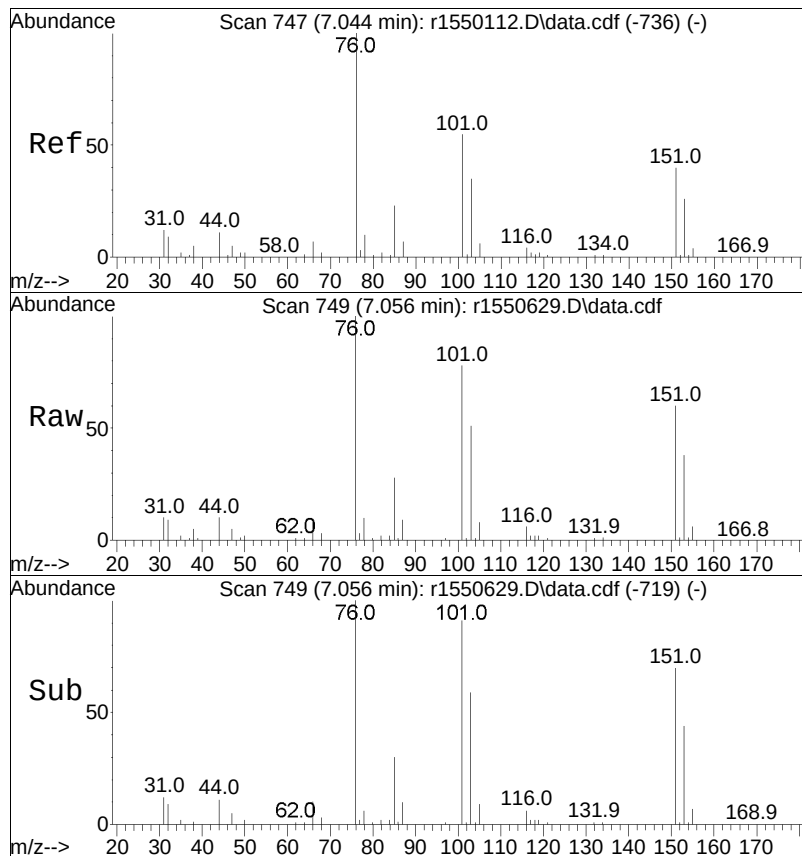




#30
 carbon disulfide
 Concen: 9.35 ppbV
 RT: 7.062 min Scan# 750
 Delta R.T. -0.012 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

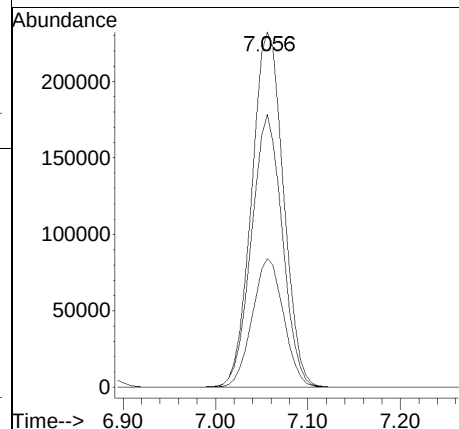
Tgt Ion	Ratio	Lower	Upper
76	100		
44	9.8	7.4	11.2

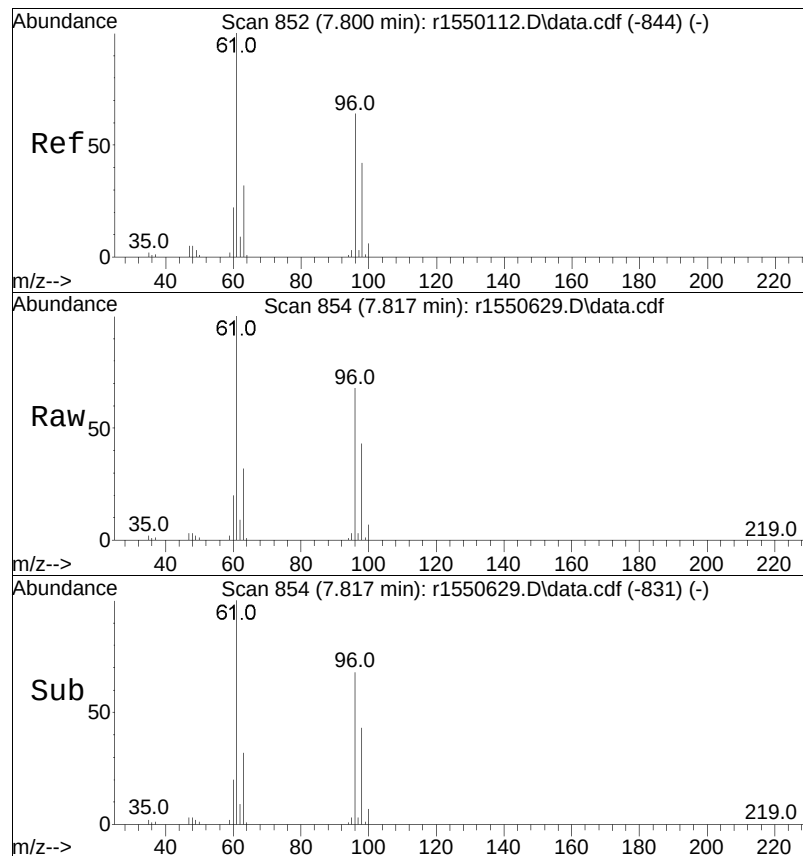




#31
 Freon 113
 Concen: 9.91 ppbV
 RT: 7.056 min Scan# 749
 Delta R.T. -0.018 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

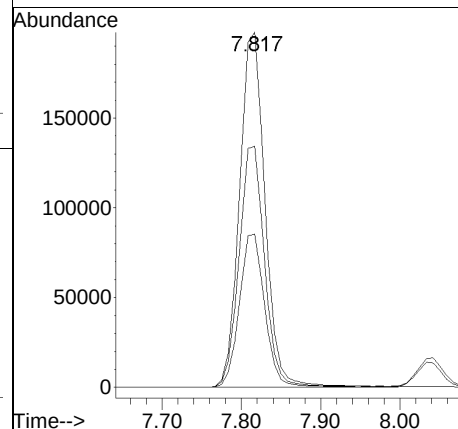
Tgt	Ion	Ratio	Resp	Lower	Upper
101	100		556926		
85	36.2	31.3		46.9	
151	76.8	60.9		91.3	

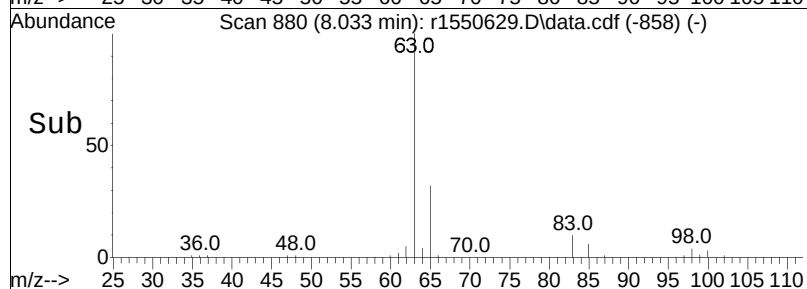
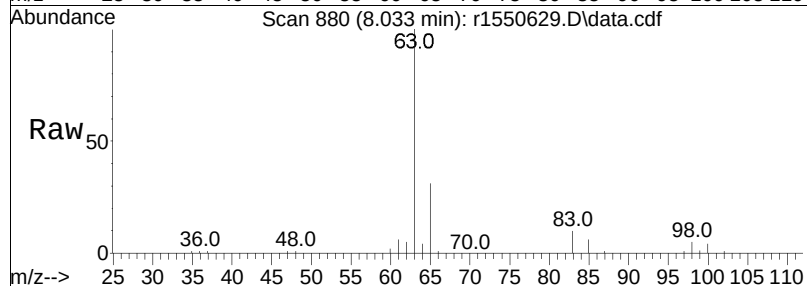
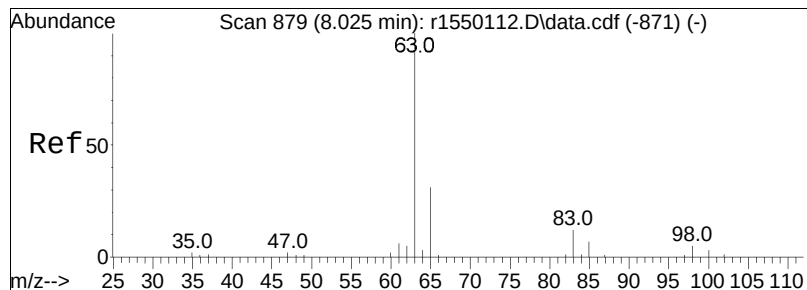




#32
 trans-1,2-dichloroethene
 Concen: 9.86 ppbV
 RT: 7.817 min Scan# 854
 Delta R.T. -0.008 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

Tgt Ion:	61	Resp:	443288
Ion Ratio	Lower	Upper	
61	100		
96	67.8	54.6	81.8
98	43.1	35.3	52.9





#33

1,1-dichloroethane

Concen: 9.90 ppbV

RT: 8.033 min Scan# 880

Delta R.T. -0.017 min

Lab File: r1550629.D

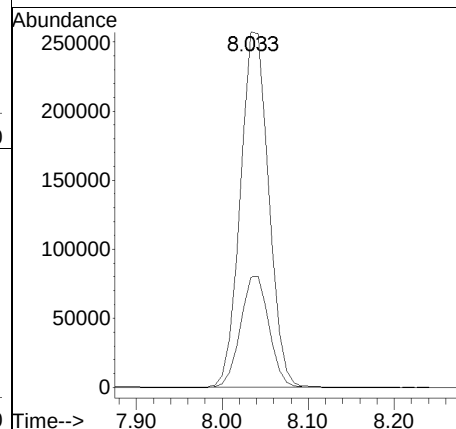
Acq: 16 Oct 2024 1:48 PM

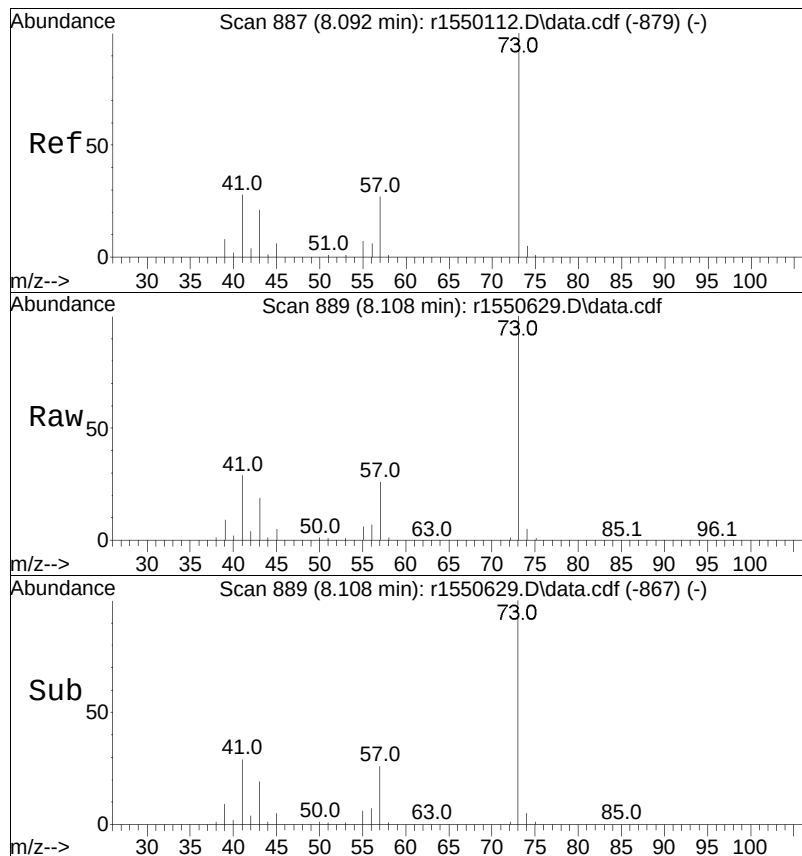
Tgt Ion: 63 Resp: 589168

Ion Ratio Lower Upper

63 100

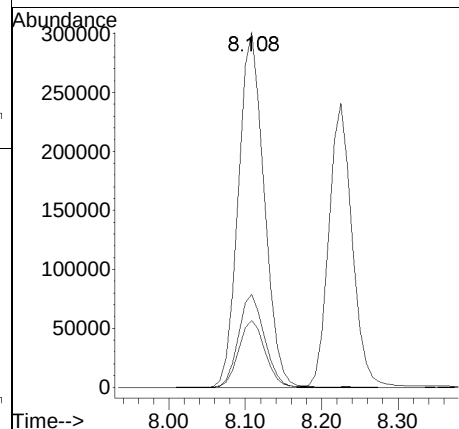
65 31.0 24.9 37.3

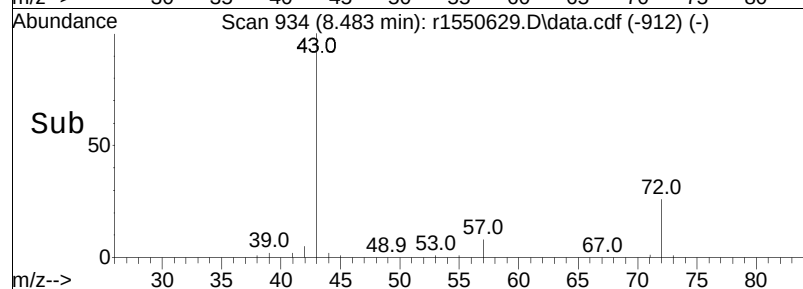
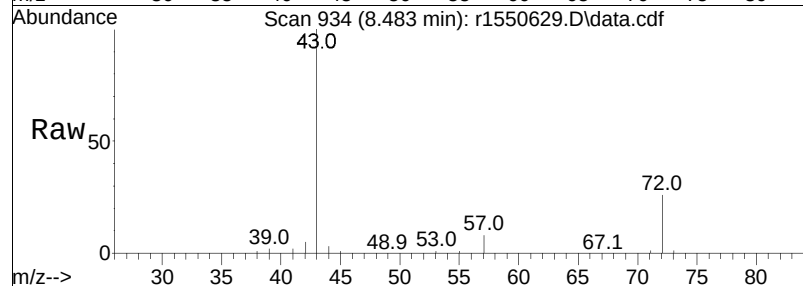
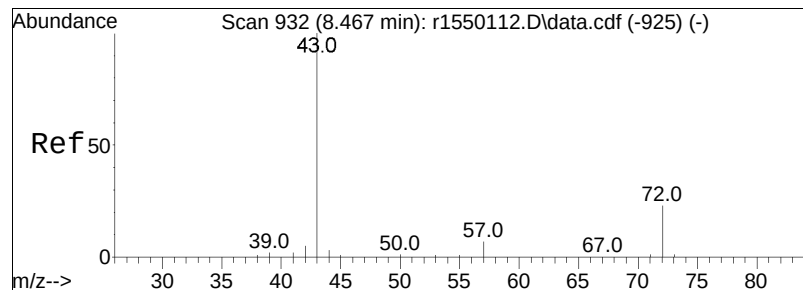




#34
 MTBE
 Concen: 10.28 ppbV
 RT: 8.108 min Scan# 889
 Delta R.T. -0.017 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

Tgt Ion:	73	Resp:	705177
Ion Ratio	Lower	Upper	
73	100		
57	26.2	22.6	33.8
43	18.8	15.0	22.6





#36

2-butanone

Concen: 10.87 ppbV

RT: 8.483 min Scan# 934

Delta R.T. -0.017 min

Lab File: r1550629.D

Acq: 16 Oct 2024 1:48 PM

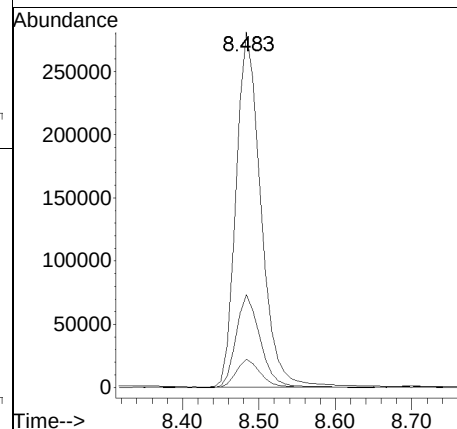
Tgt Ion: 43 Resp: 634461

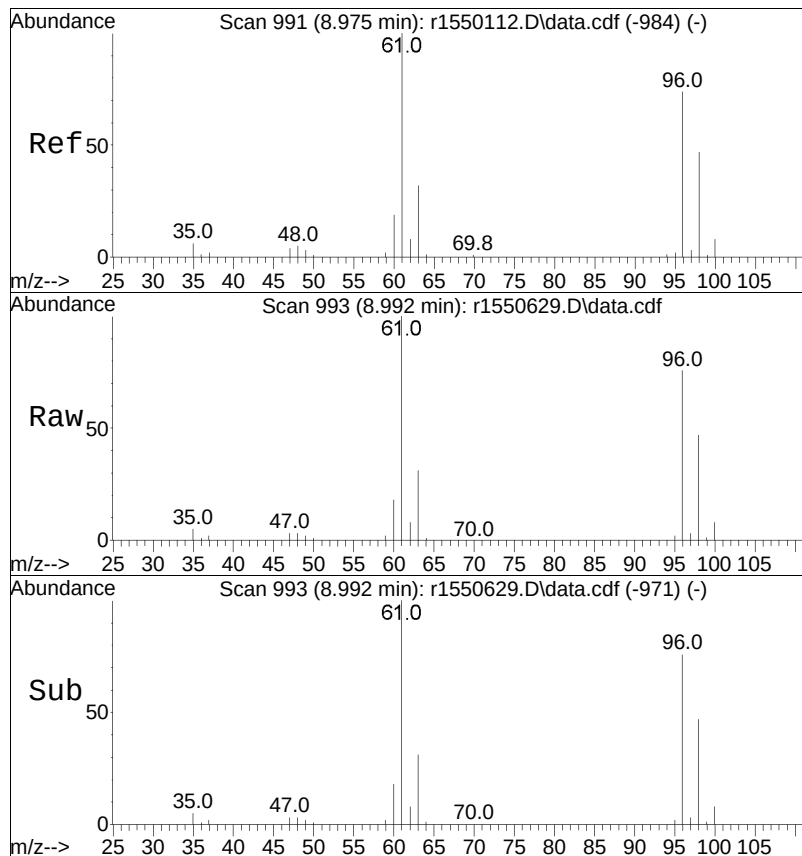
Ion Ratio Lower Upper

43 100

72 26.1 21.7 32.5

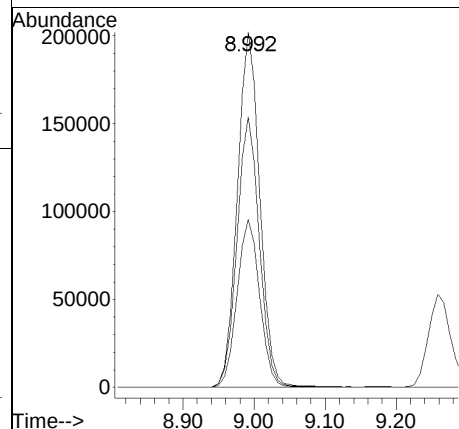
57 7.9 7.0 10.6

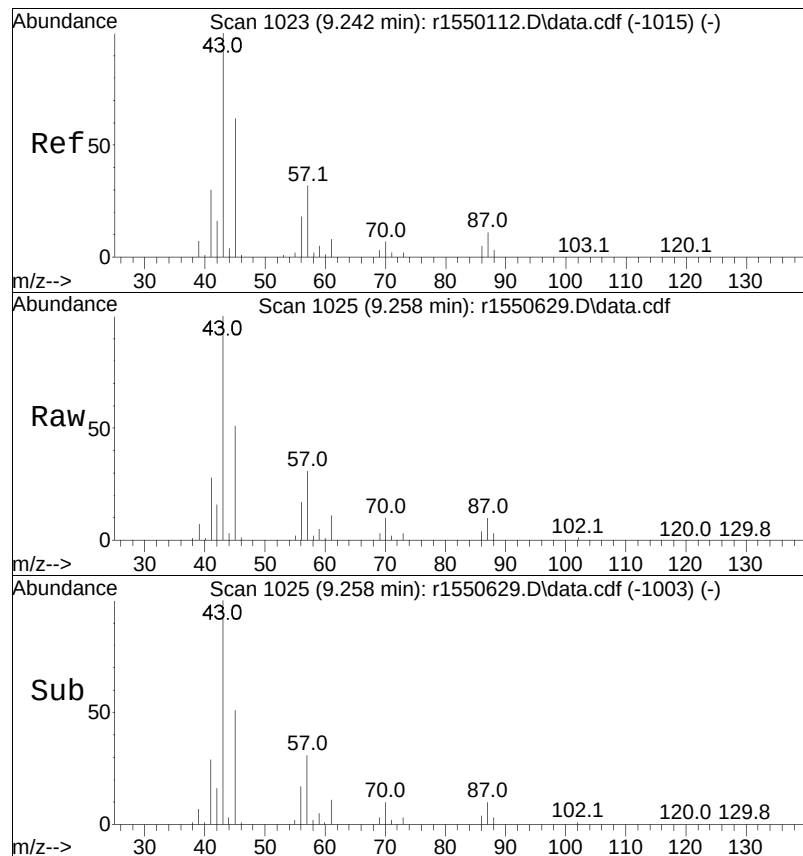




#37
 cis-1,2-dichloroethene
 Concen: 10.04 ppbV
 RT: 8.992 min Scan# 993
 Delta R.T. -0.017 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

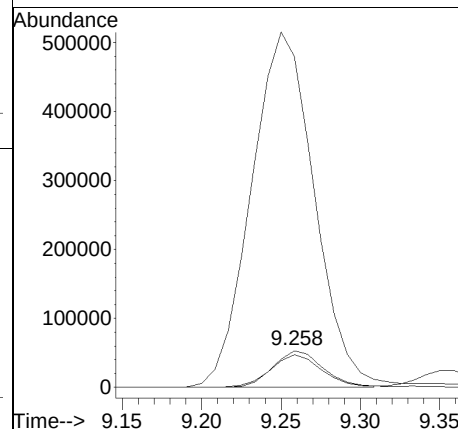
Tgt Ion:	61	Resp:	444582
Ion Ratio	Lower	Upper	
61	100		
96	76.2	59.8	89.8
98	47.3	38.0	57.0

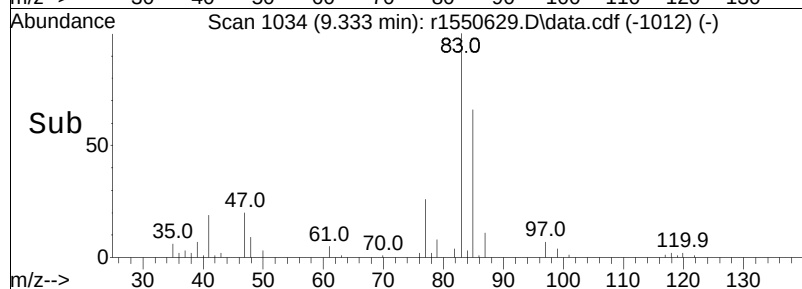
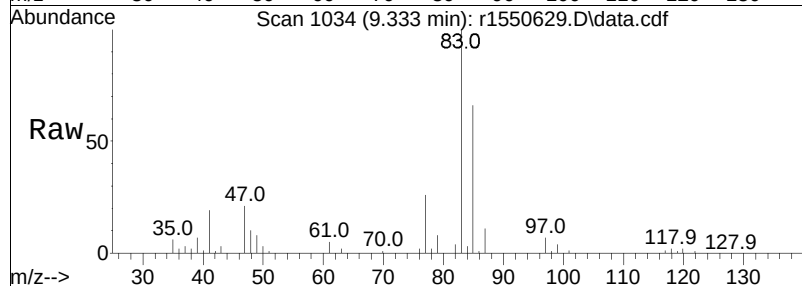
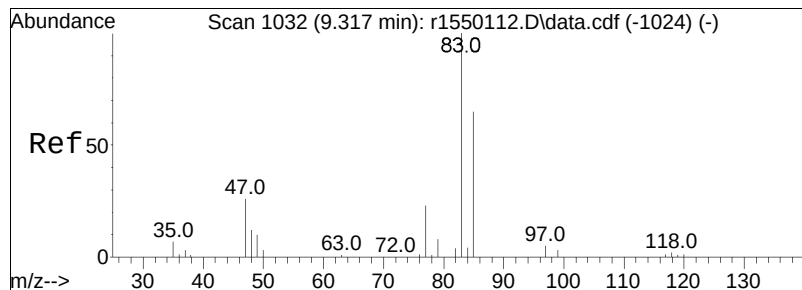




#38
 Ethyl Acetate
 Concen: 10.50 ppbV
 RT: 9.258 min Scan# 1025
 Delta R.T. -0.017 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

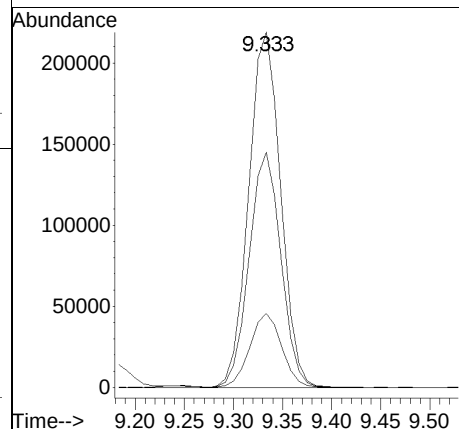
Tgt	Ion	Ratio	Lower	Upper
61	100			
70	89.2	69.8	104.6	
43	902.8	659.5	989.3	

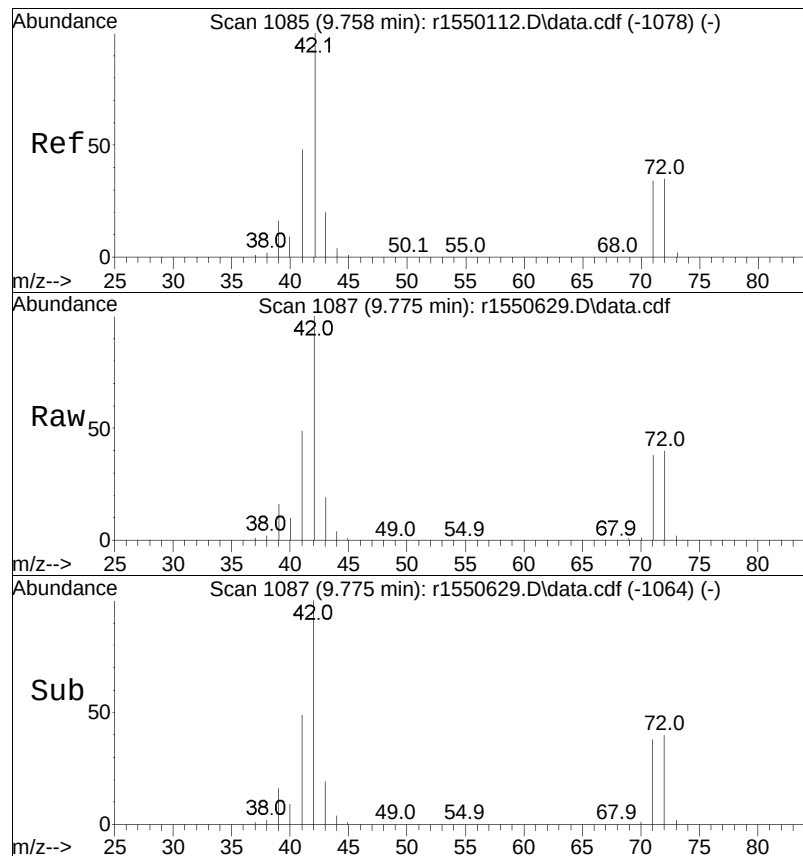




#39
chloroform
Concen: 8.86 ppbV
RT: 9.333 min Scan# 1034
Delta R.T. -0.017 min
Lab File: r1550629.D
Acq: 16 Oct 2024 1:48 PM

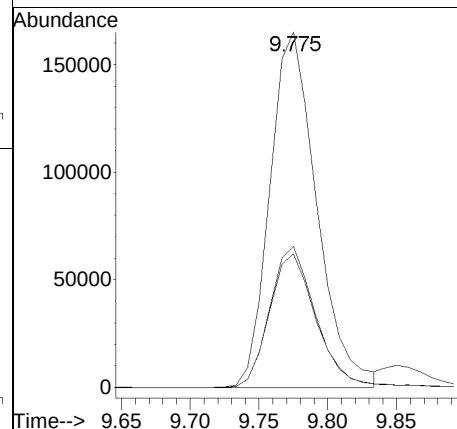
Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.2	51.9	77.9
47	20.8	15.7	23.5

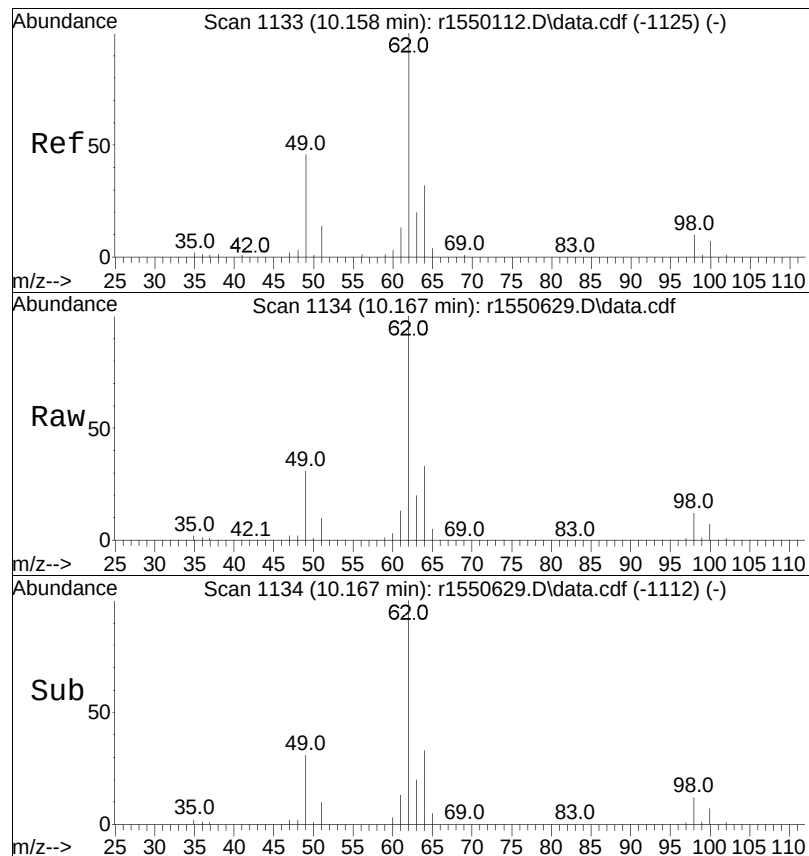




#40
Tetrahydrofuran
Concen: 10.76 ppbV
RT: 9.775 min Scan# 1087
Delta R.T. -0.008 min
Lab File: r1550629.D
Acq: 16 Oct 2024 1:48 PM

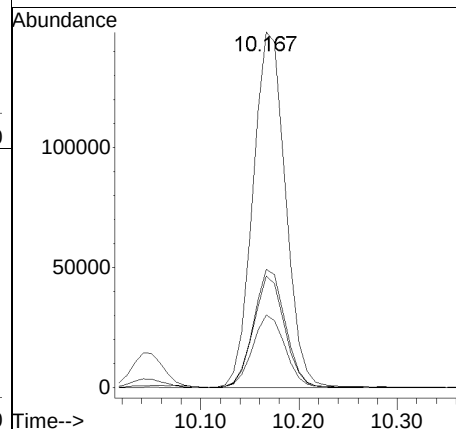
Tgt	Ion: 42	Resp:	390564
Ion	Ratio	Lower	Upper
42	100		
71	37.6	31.2	46.8
72	39.7	33.3	49.9

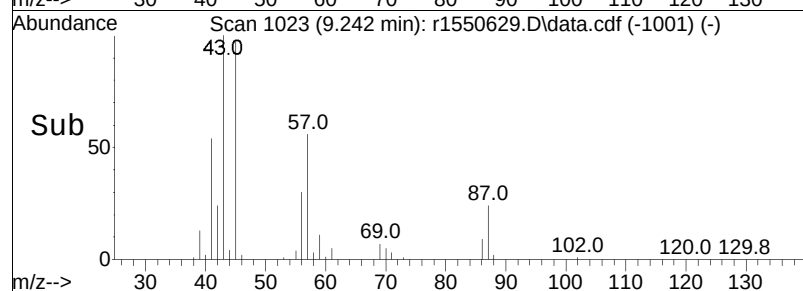
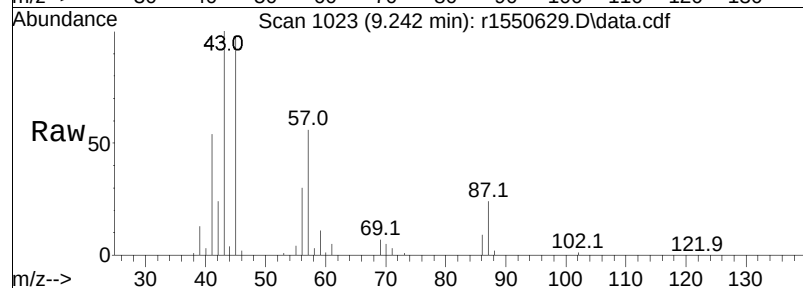
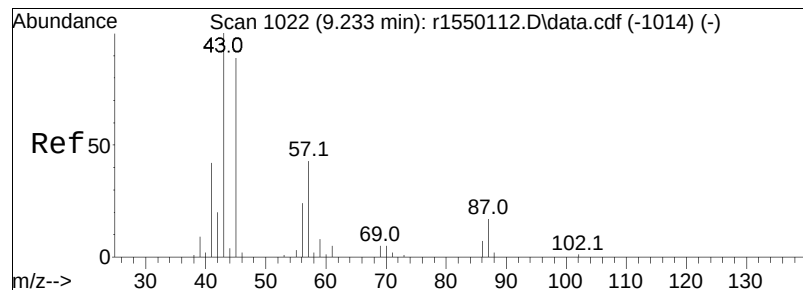




#42
 1,2-dichloroethane
 Concen: 9.48 ppbV
 RT: 10.167 min Scan# 1134
 Delta R.T. -0.017 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

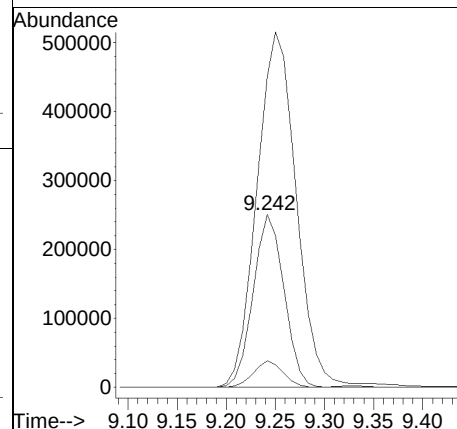
Tgt Ion:	62	Resp:	341054
Ion Ratio	Lower	Upper	
62	100		
64	33.2	25.4	38.2
49	31.4	26.9	40.3
63	20.4	15.8	23.8

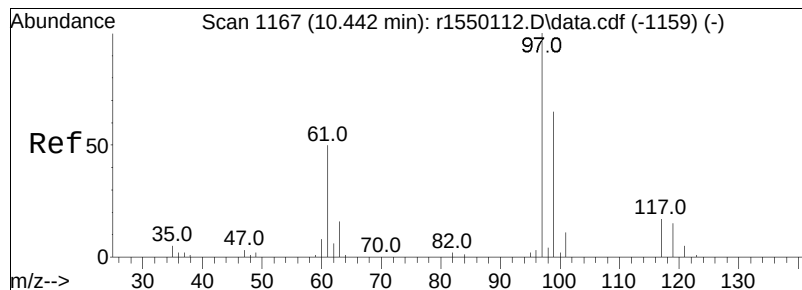




#44
hexane
Concen: 9.56 ppbV
RT: 9.242 min Scan# 1023
Delta R.T. -0.017 min
Lab File: r1550629.D
Acq: 16 Oct 2024 1:48 PM

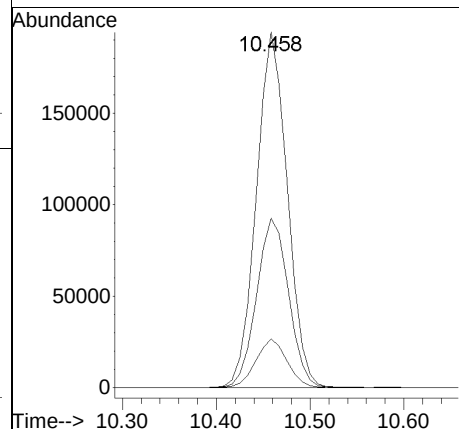
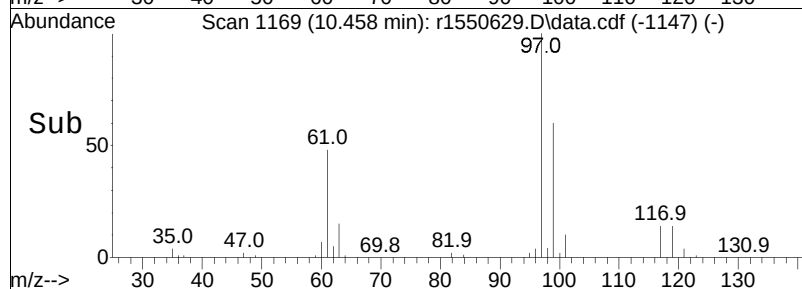
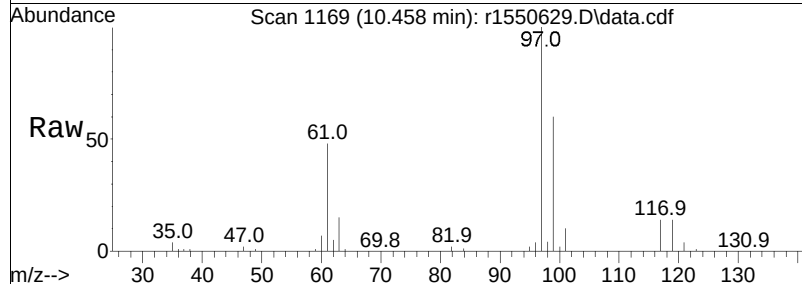
Tgt	Ion	Ratio	Lower	Upper
57	100			
43	179.9	141.0	211.4	
86	15.4	12.2	18.4	

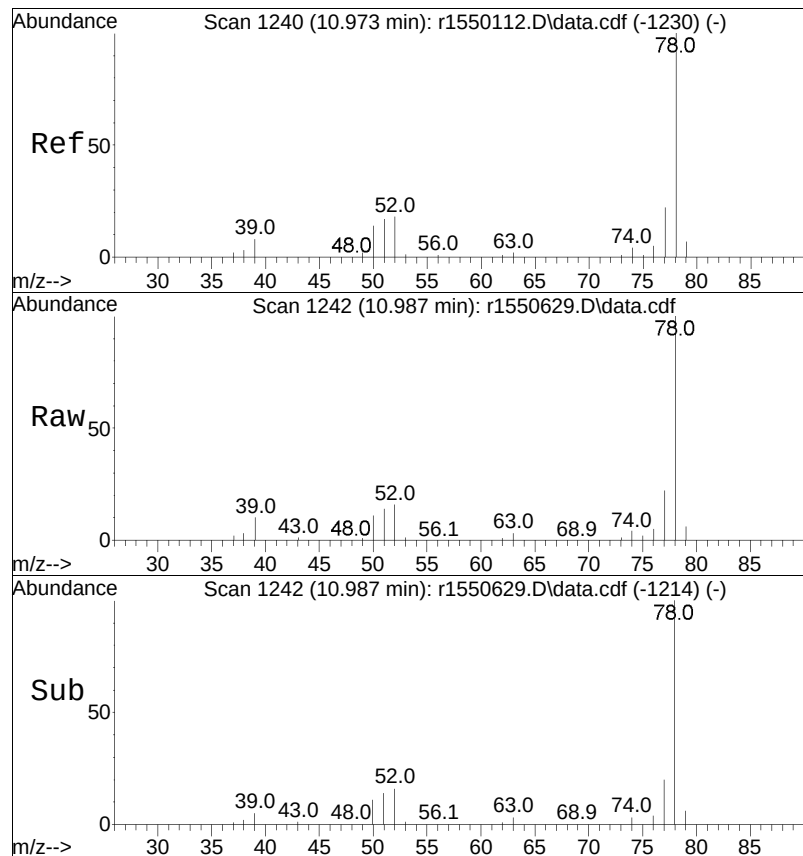




#48
 1,1,1-trichloroethane
 Concen: 8.93 ppbV
 RT: 10.458 min Scan# 1169
 Delta R.T. -0.017 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

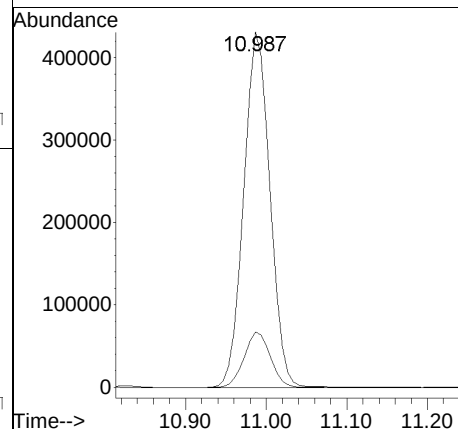
Tgt Ion	Ratio	Lower	Upper
97	100		
61	47.6	38.1	57.1
119	13.7	11.1	16.7

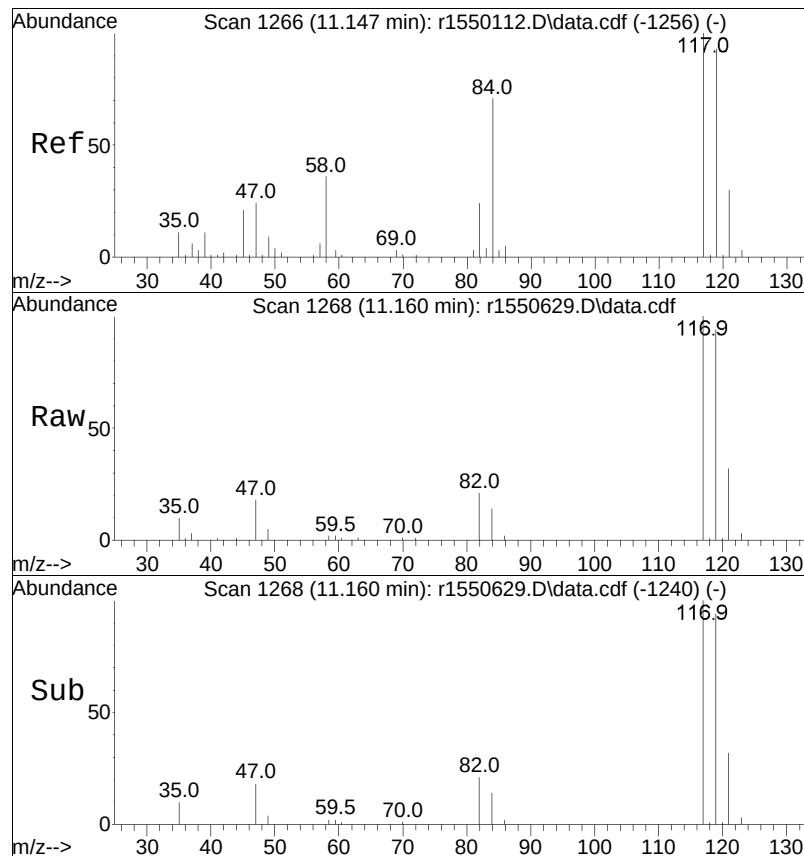




#50
benzene
Concen: 8.65 ppbV
RT: 10.987 min Scan# 1242
Delta R.T. -0.013 min
Lab File: r1550629.D
Acq: 16 Oct 2024 1:48 PM

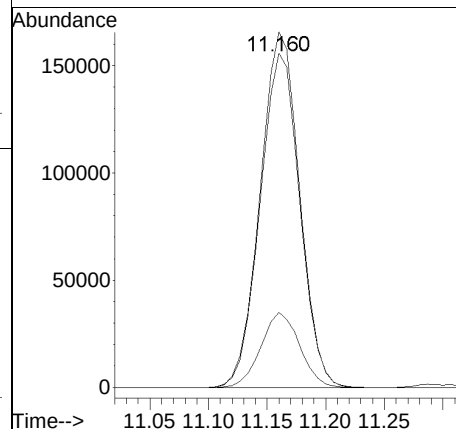
Tgt	Ion	Resp	Lower	Upper
78	100	973002		
52	15.7	12.8	19.2	

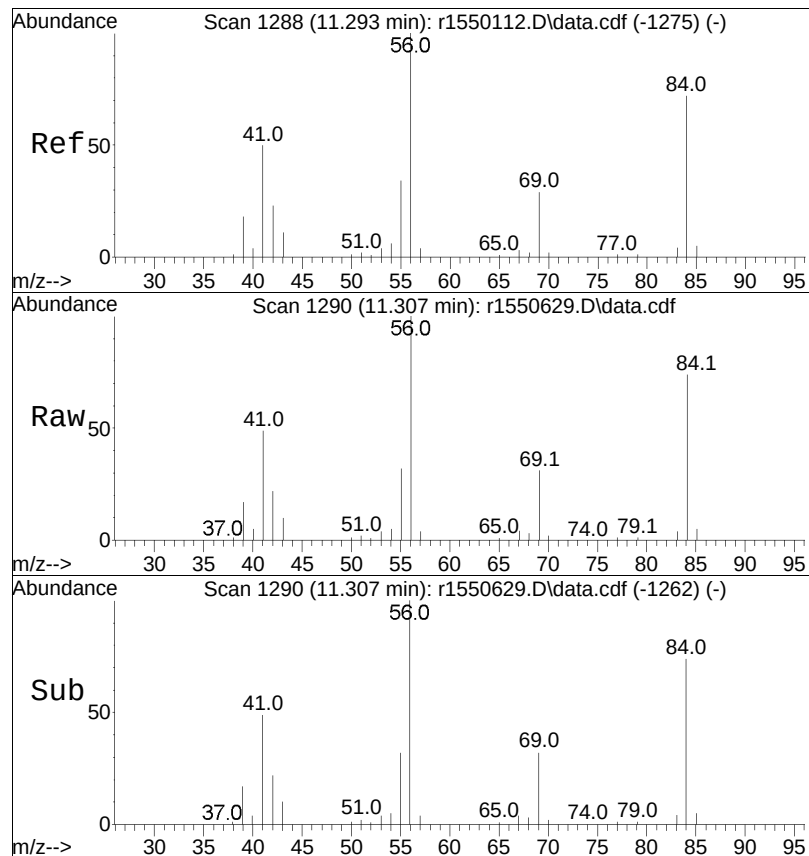




#52
 carbon tetrachloride
 Concen: 9.12 ppbV
 RT: 11.160 min Scan# 1268
 Delta R.T. -0.013 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

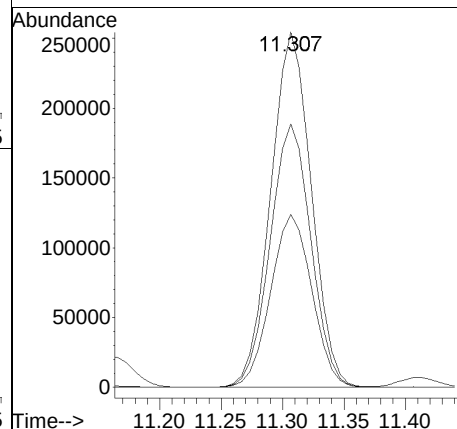
Tgt Ion:	117	Resp:	386872
Ion Ratio	Lower	Upper	
117	100		
119	94.0	77.2	115.8
82	21.1	18.2	27.2

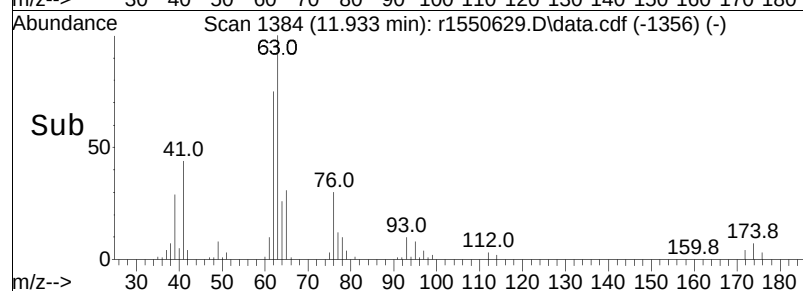
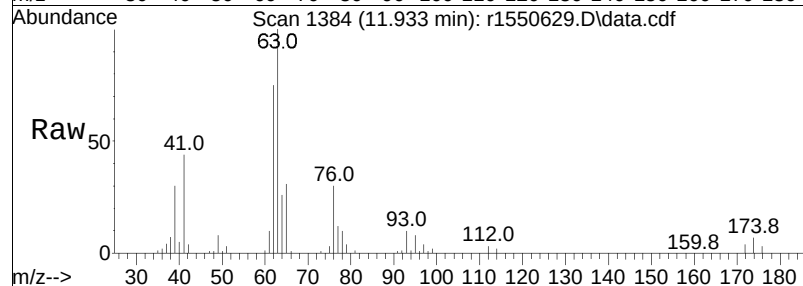
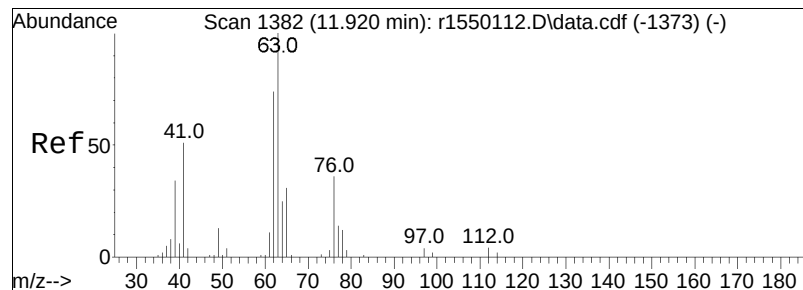




#53
cyclohexane
Concen: 9.44 ppbV
RT: 11.307 min Scan# 1290
Delta R.T. -0.013 min
Lab File: r1550629.D
Acq: 16 Oct 2024 1:48 PM

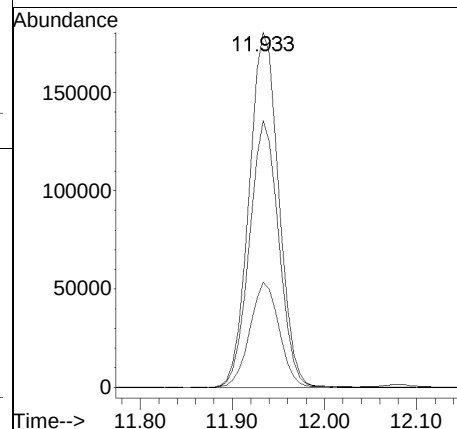
Tgt	Ion: 56	Resp: 586649
Ion	Ratio	Lower Upper
56	100	
84	74.2	59.7 89.5
41	48.7	34.6 51.8

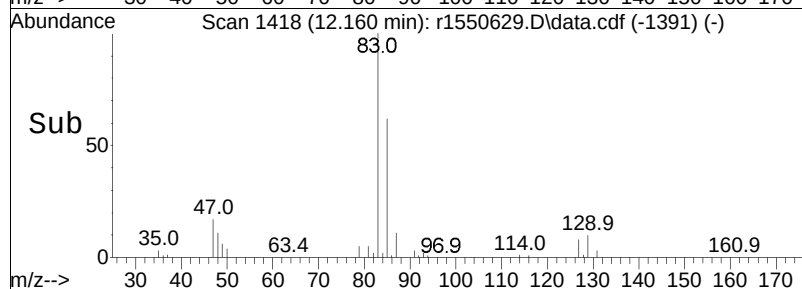
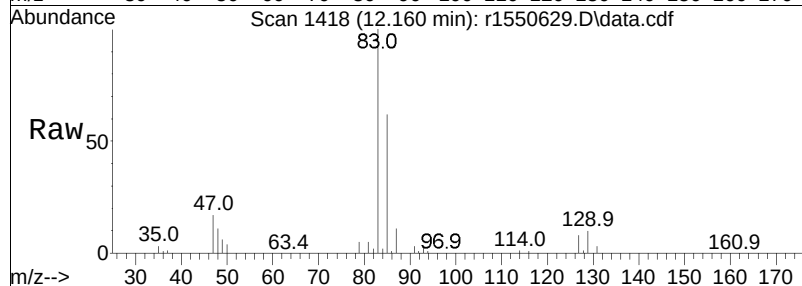
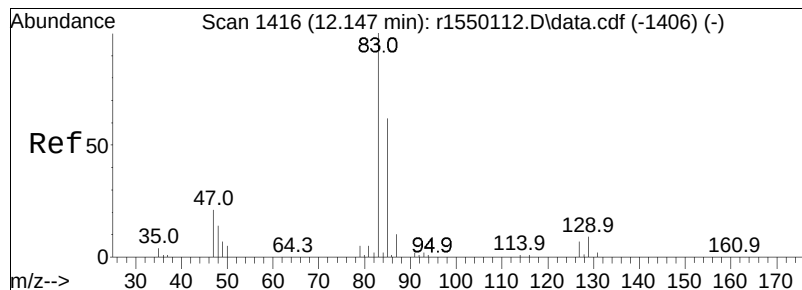




#56
 1,2-dichloropropane
 Concen: 9.50 ppbV
 RT: 11.933 min Scan# 1384
 Delta R.T. -0.013 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

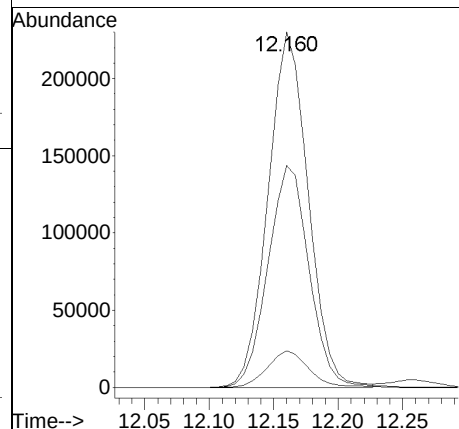
Tgt Ion:	63	Resp:	404446
Ion Ratio	Lower	Upper	
63	100		
62	75.1	59.0	88.4
39	29.6	22.0	33.0

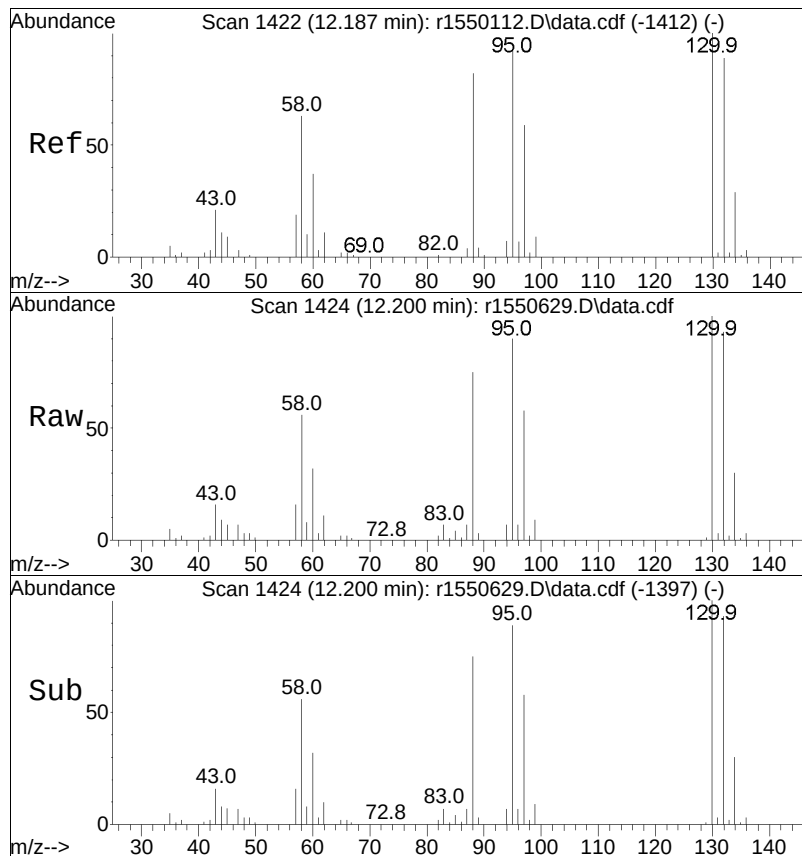




#57
bromodichloromethane
Concen: 9.26 ppbV
RT: 12.160 min Scan# 1418
Delta R.T. -0.020 min
Lab File: r1550629.D
Acq: 16 Oct 2024 1:48 PM

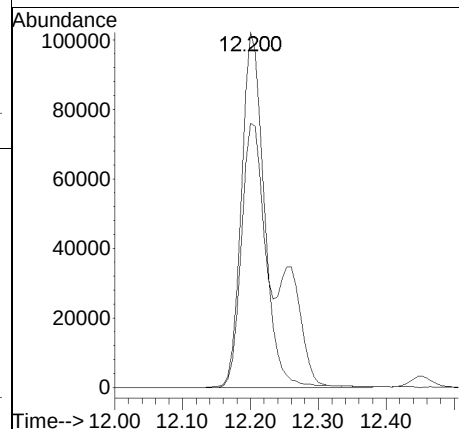
Tgt Ion:	83	Resp:	498760
Ion Ratio	Lower	Upper	
83	100		
85	62.4	51.1	76.7
129	10.3	8.2	12.2

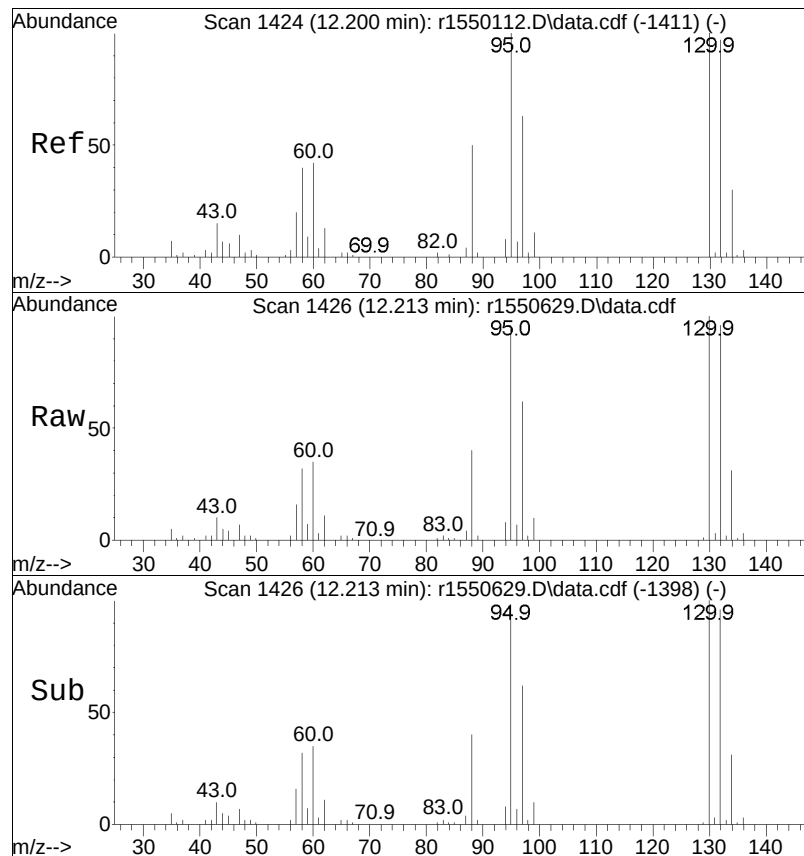




#58
 1,4-dioxane
 Concen: 9.71 ppbV
 RT: 12.200 min Scan# 1424
 Delta R.T. -0.020 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

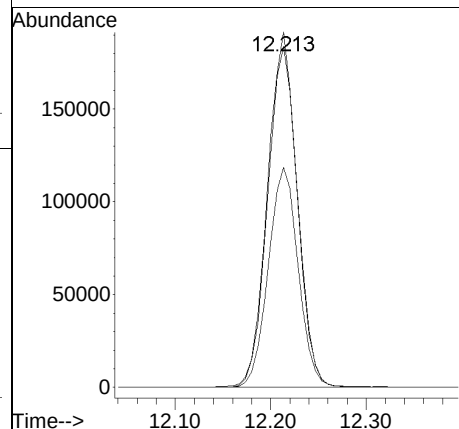
Tgt	Ion	Ratio	Lower	Upper
88	100			
58	74.3	60.6	91.0	

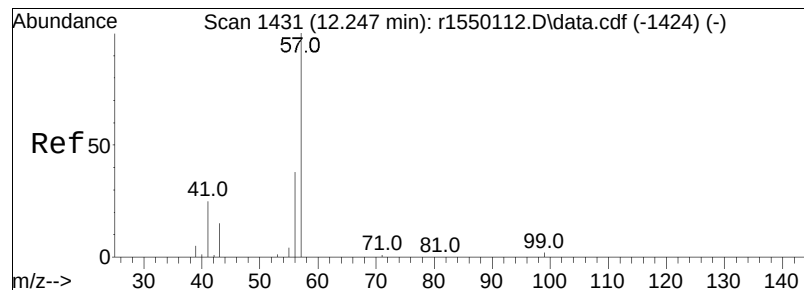




#59
trichloroethene
Concen: 8.88 ppbV
RT: 12.213 min Scan# 1426
Delta R.T. -0.013 min
Lab File: r1550629.D
Acq: 16 Oct 2024 1:48 PM

Tgt	Ion:130	Resp:	414412
Ion	Ratio	Lower	Upper
130	100		
132	95.9	72.2	108.2
97	61.9	46.3	69.5





#60

2,2,4-trimethylpentane

Concen: 9.61 ppbV

RT: 12.260 min Scan# 1433

Delta R.T. -0.013 min

Lab File: r1550629.D

Acq: 16 Oct 2024 1:48 PM

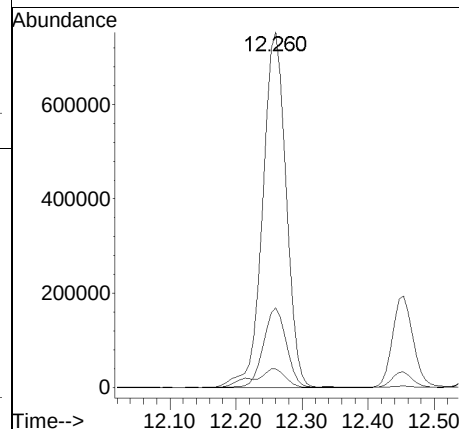
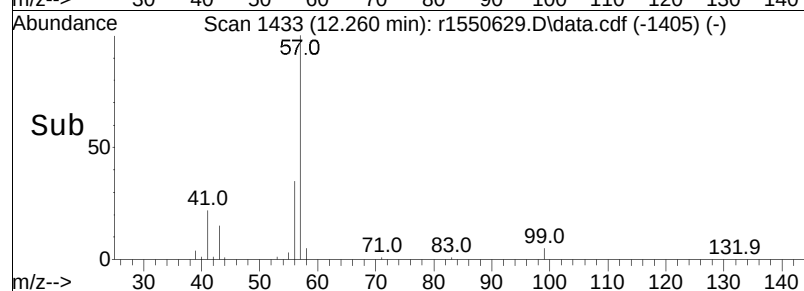
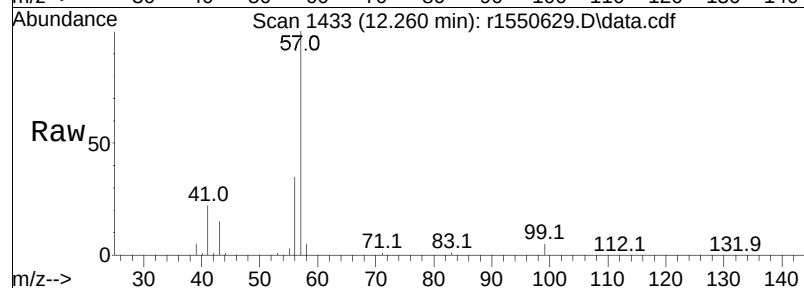
Tgt Ion: 57 Resp: 1859480

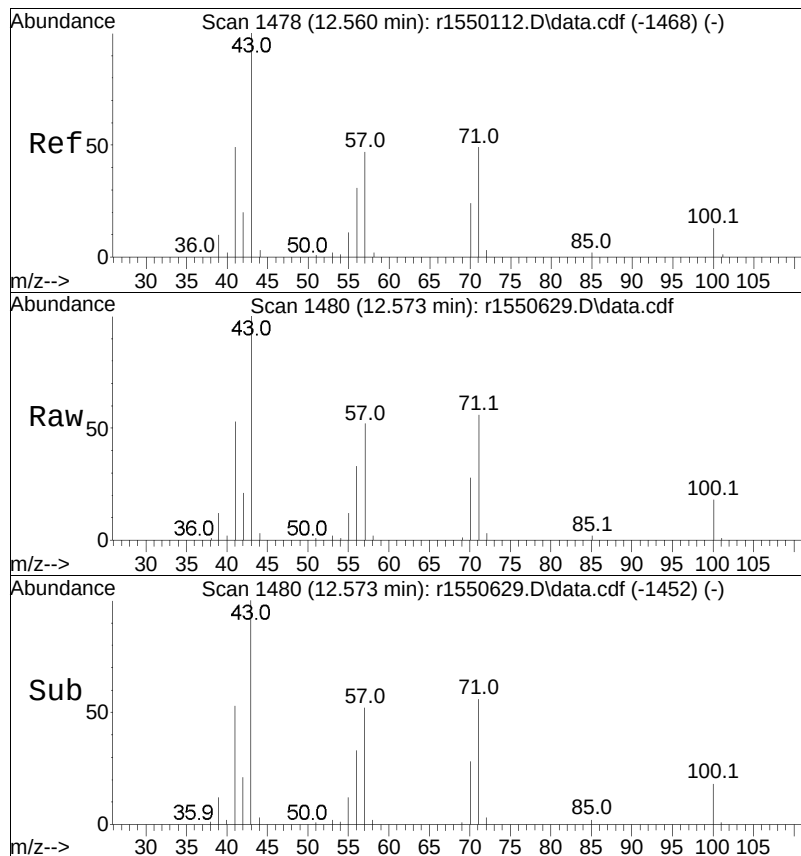
Ion Ratio Lower Upper

57 100

99 5.2 3.9 5.9

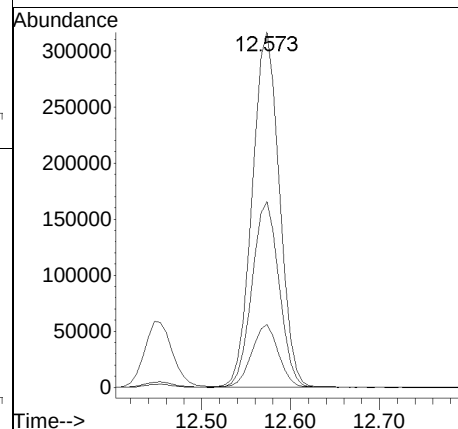
41 22.4 16.0 24.0

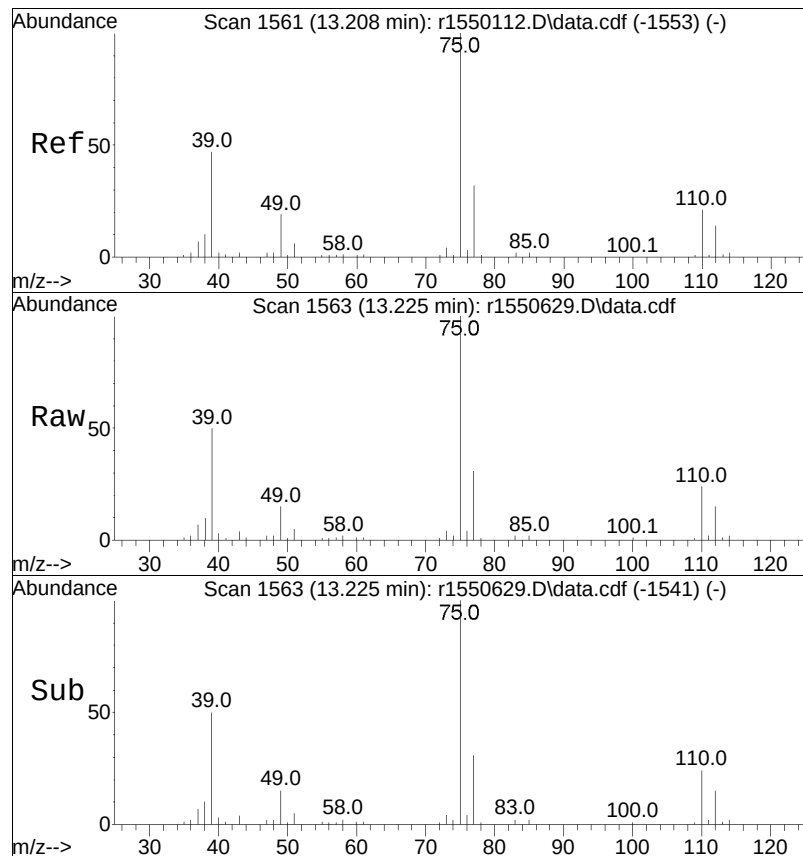




#62
 heptane
 Concen: 10.30 ppbV
 RT: 12.573 min Scan# 1480
 Delta R.T. -0.013 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

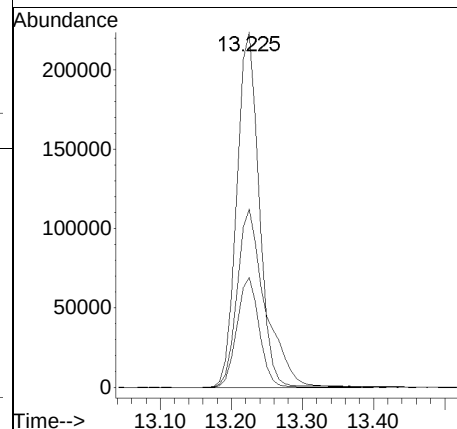
Tgt	Ion: 43	Resp: 670372
Ion	Ratio	Lower Upper
43	100	
57	52.4	45.6 68.4
100	17.7	13.9 20.9

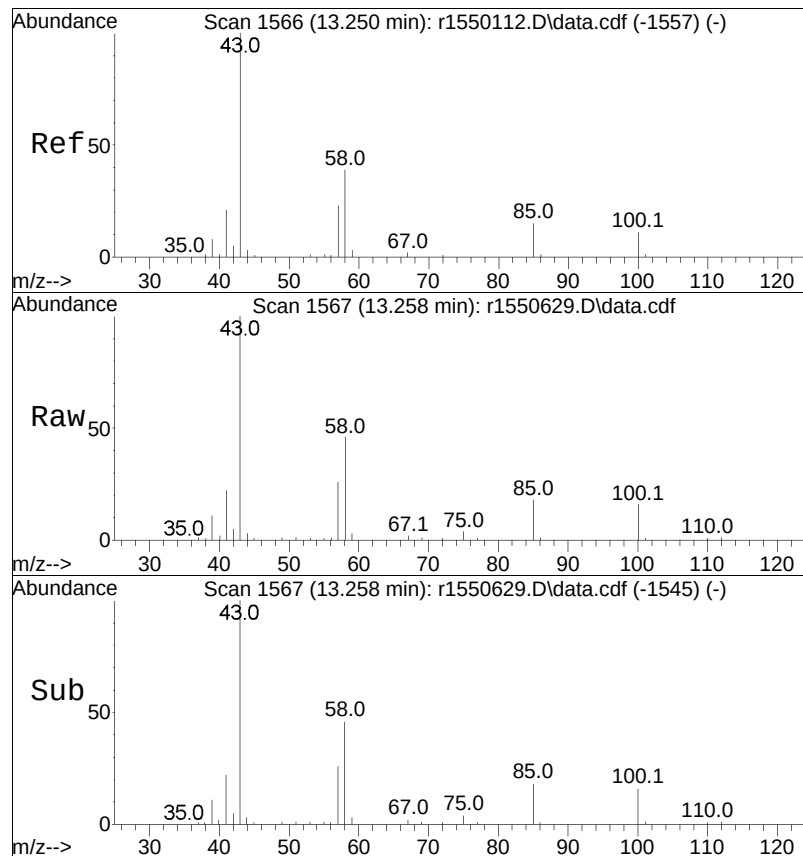




#63
 cis-1,3-dichloropropene
 Concen: 9.79 ppbV
 RT: 13.225 min Scan# 1563
 Delta R.T. -0.017 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

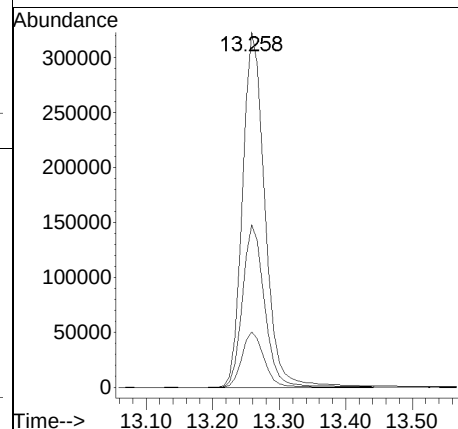
Tgt Ion:	75	Resp:	488466
Ion Ratio	Lower	Upper	
75	100		
39	50.2	36.6	55.0
77	31.0	25.3	37.9

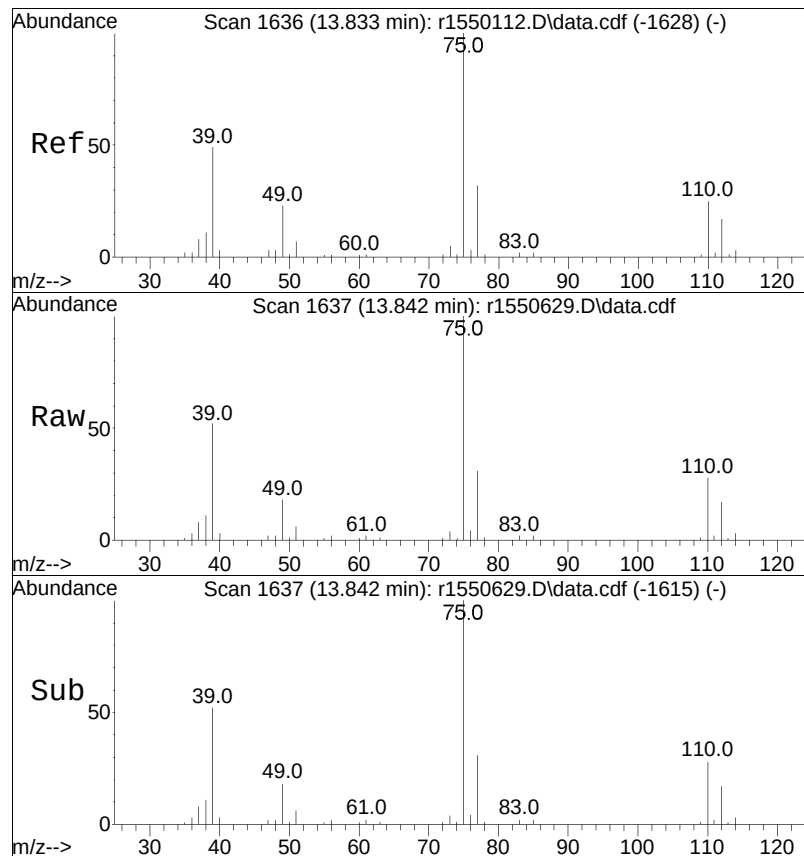




#64
 4-methyl-2-pentanone
 Concen: 10.74 ppbV
 RT: 13.258 min Scan# 1567
 Delta R.T. -0.017 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

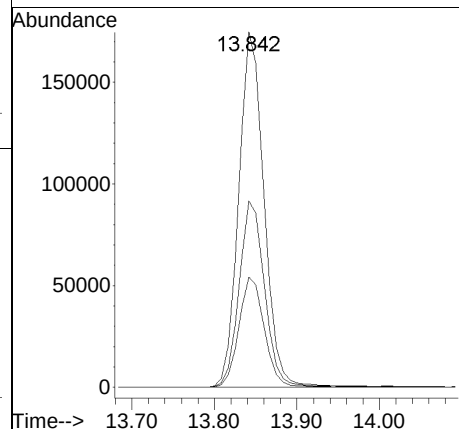
Tgt Ion:	43	Resp:	758748
Ion Ratio	Lower	Upper	
43	100		
58	45.7	39.0	58.6
100	15.6	12.8	19.2

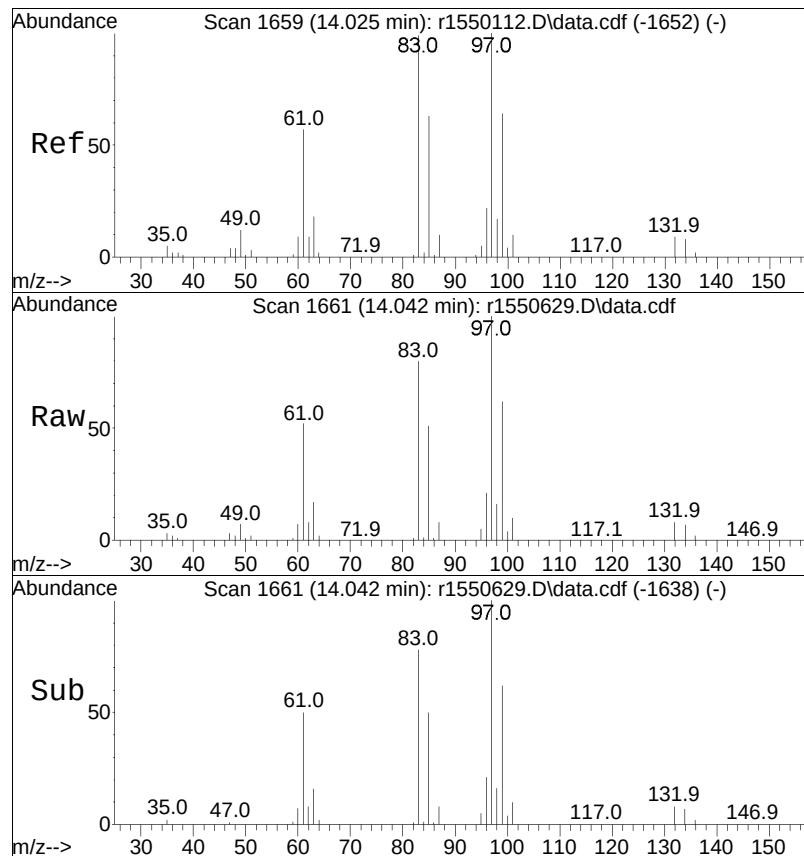




#65
 trans-1,3-dichloropropene
 Concen: 9.99 ppbV
 RT: 13.842 min Scan# 1637
 Delta R.T. -0.017 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

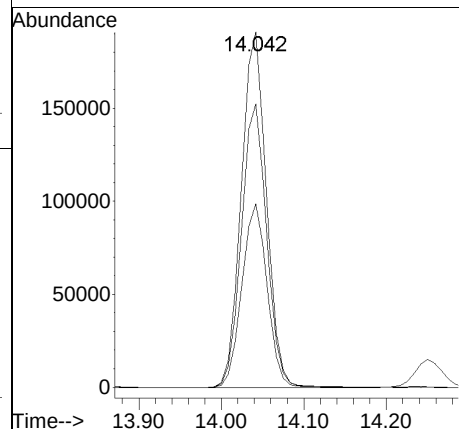
Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.1	24.7	37.1
39	52.4	37.4	56.0

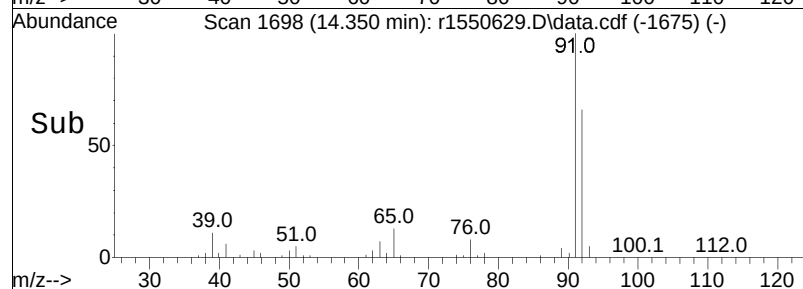
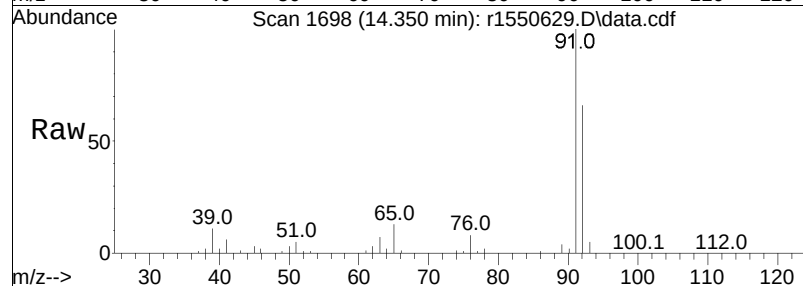
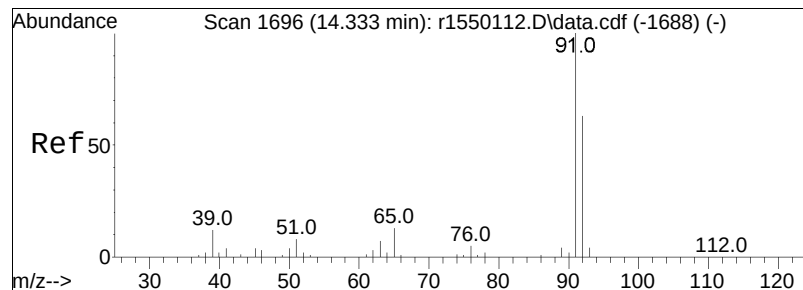




#66
 1,1,2-trichloroethane
 Concen: 9.27 ppbV
 RT: 14.042 min Scan# 1661
 Delta R.T. -0.008 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

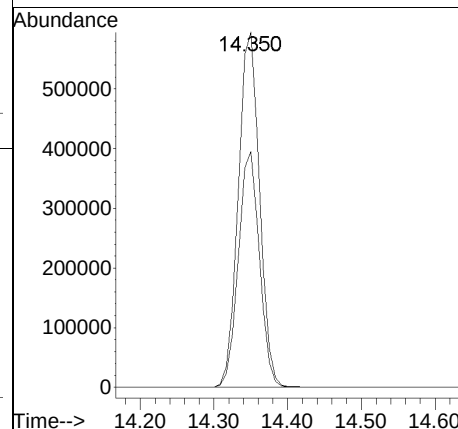
Tgt Ion:	97	Resp:	404093
Ion Ratio	100	Lower	Upper
97	100		
83	79.8	69.2	103.8
61	51.7	41.3	61.9

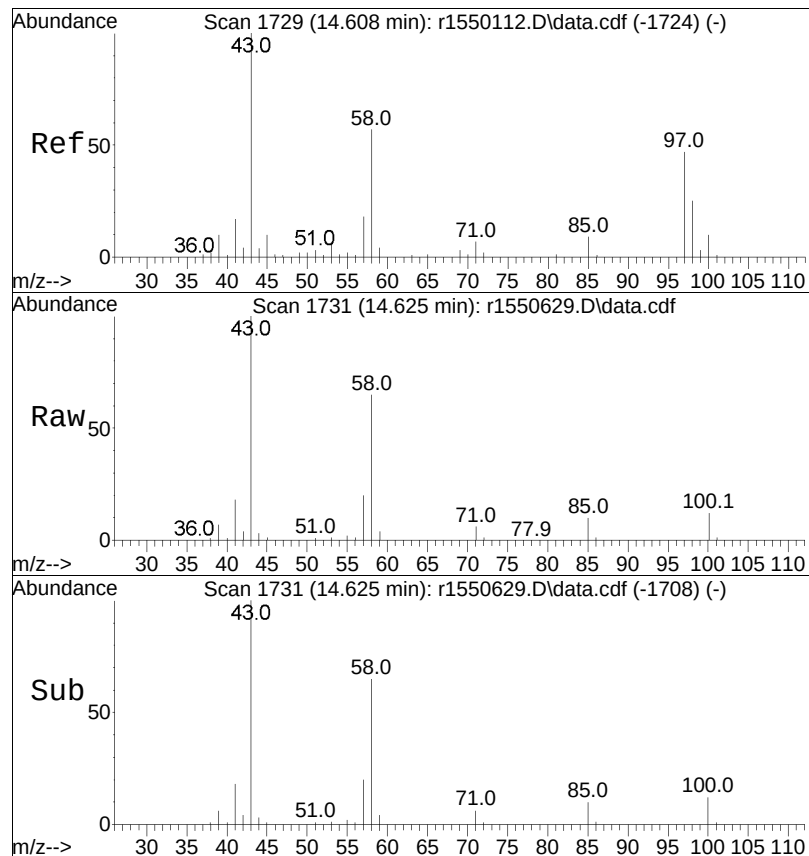




#68
toluene
Concen: 8.90 ppbV
RT: 14.350 min Scan# 1698
Delta R.T. -0.008 min
Lab File: r1550629.D
Acq: 16 Oct 2024 1:48 PM

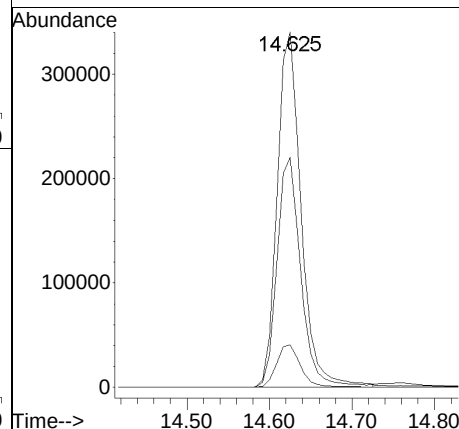
Tgt Ion: 91 Resp: 1197294
Ion Ratio Lower Upper
91 100
92 66.4 51.6 77.4

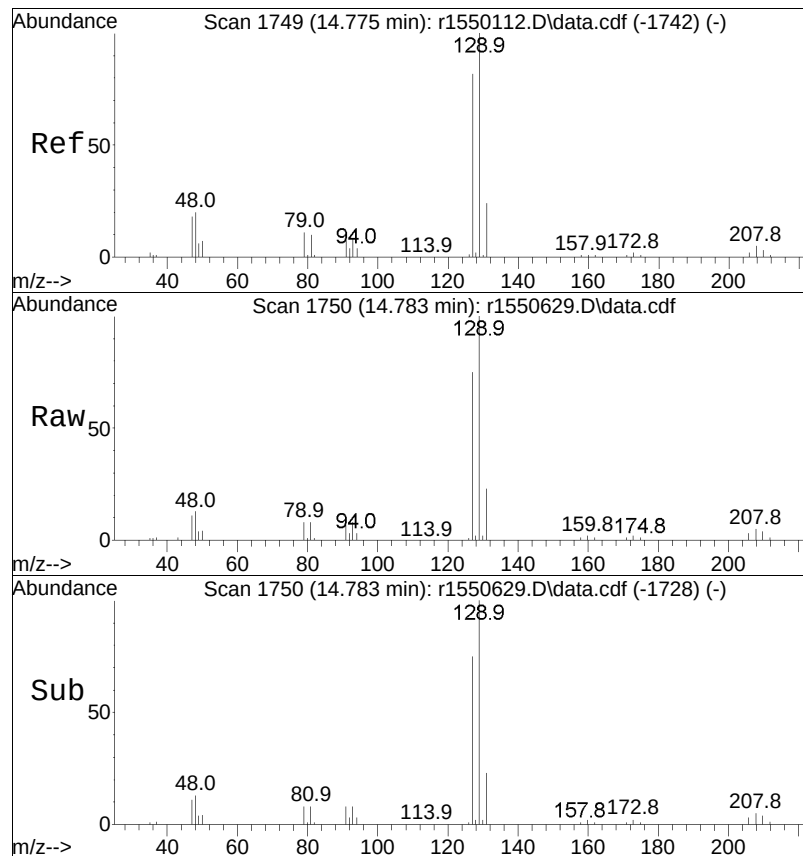




#72
 2-hexanone
 Concen: 10.91 ppbV
 RT: 14.625 min Scan# 1731
 Delta R.T. -0.008 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

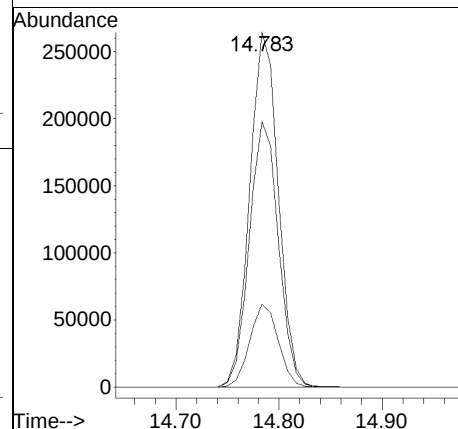
Tgt	Ion: 43	Resp: 686985
Ion	Ratio	Lower Upper
43	100	
58	64.8	58.0 87.0
100	12.0	12.4 18.6#

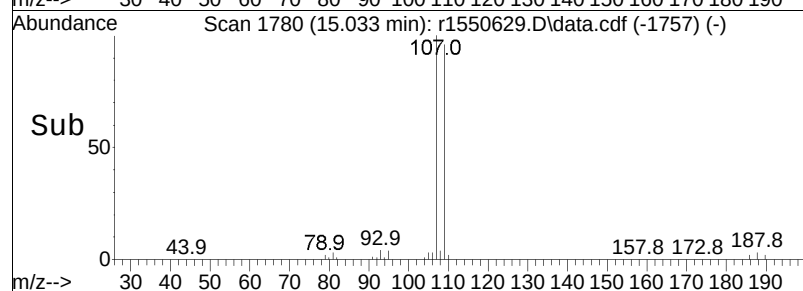
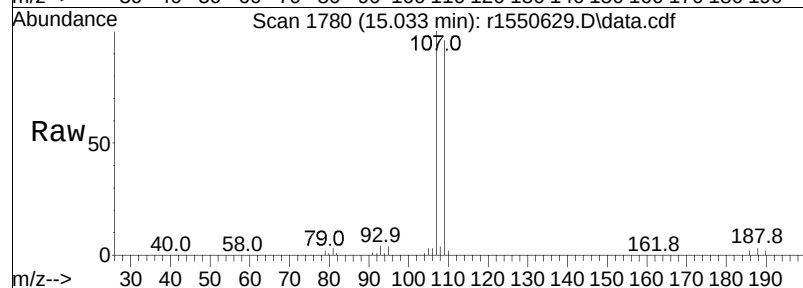
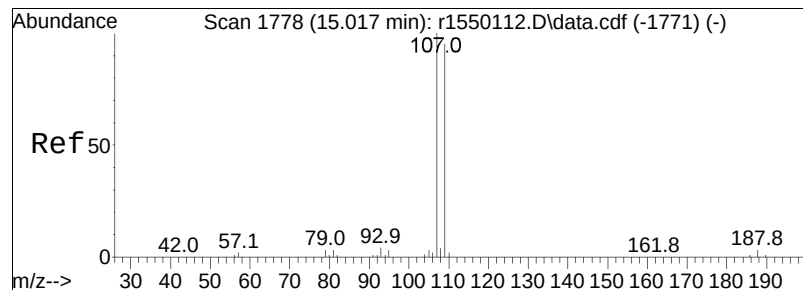




#74
 dibromochloromethane
 Concen: 9.75 ppbV
 RT: 14.783 min Scan# 1750
 Delta R.T. -0.017 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

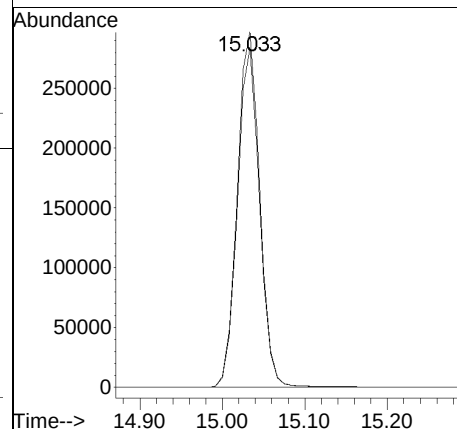
Tgt Ion	Ratio	Resp	Lower	Upper
129	100	511840		
127	74.9		62.7	94.1
131	23.4		19.4	29.2

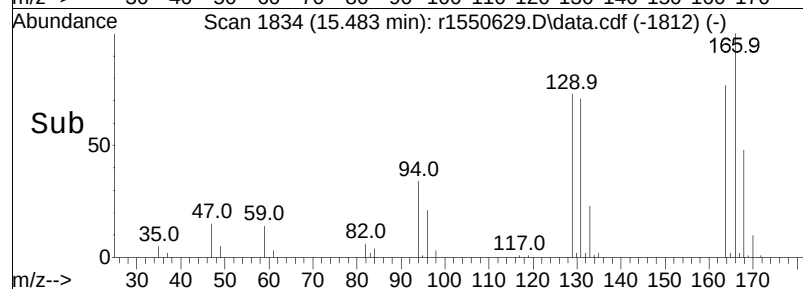
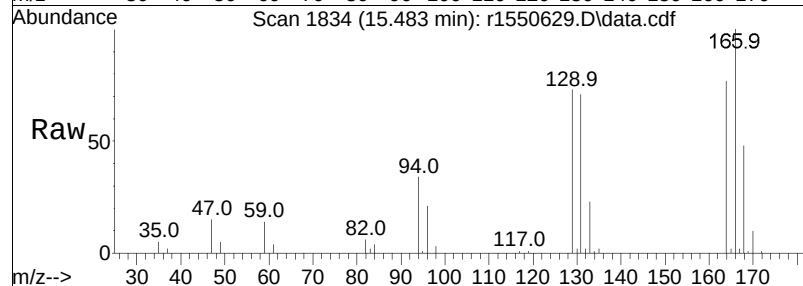
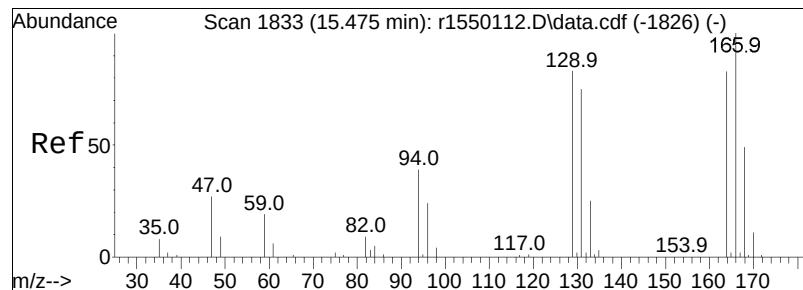




#75
 1,2-dibromoethane
 Concen: 9.42 ppbV
 RT: 15.033 min Scan# 1780
 Delta R.T. -0.008 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

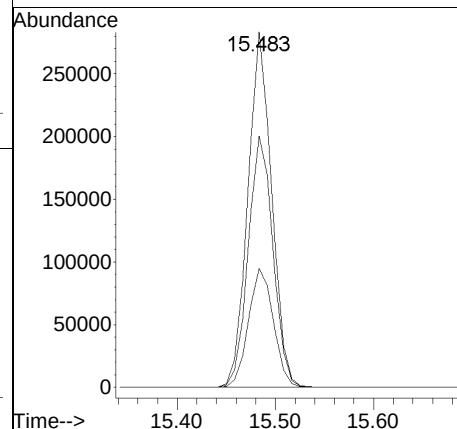
Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.6	76.9	115.3

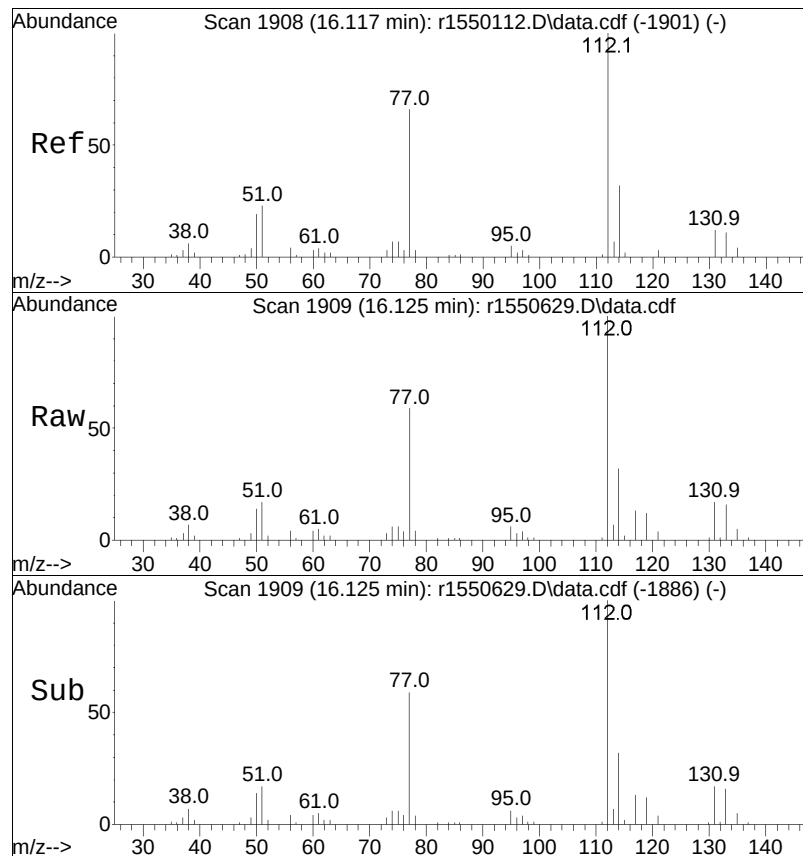




#78
 tetrachloroethene
 Concen: 8.67 ppbV
 RT: 15.483 min Scan# 1834
 Delta R.T. -0.017 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

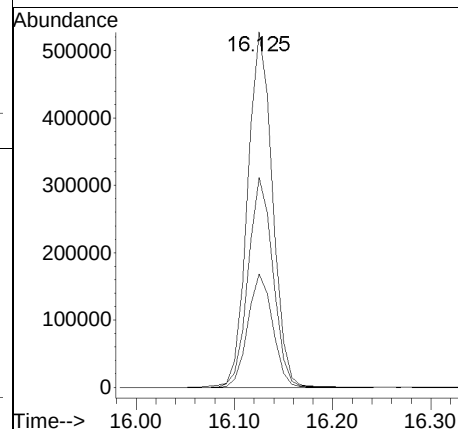
Tgt	Ion	Ratio	Resp	Lower	Upper
166	100		478124		
131	70.8	59.6		89.4	
94	33.5	27.6		41.4	

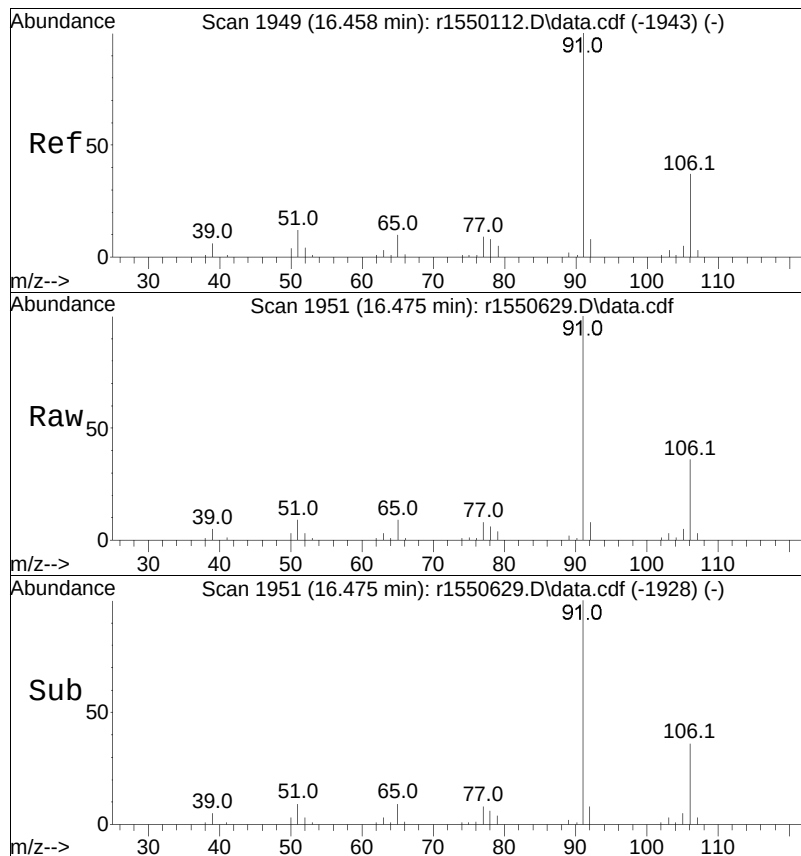




#80
chlorobenzene
Concen: 8.93 ppbV
RT: 16.125 min Scan# 1909
Delta R.T. -0.008 min
Lab File: r1550629.D
Acq: 16 Oct 2024 1:48 PM

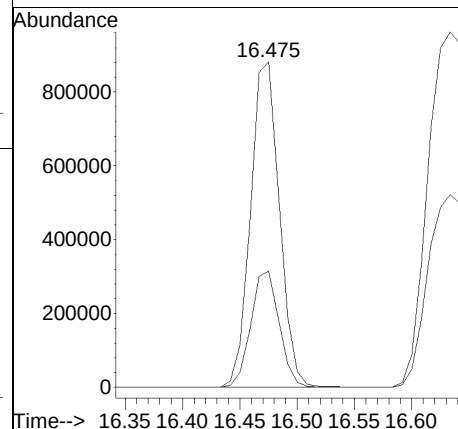
Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.4	38.0
77	59.1	46.7	70.1

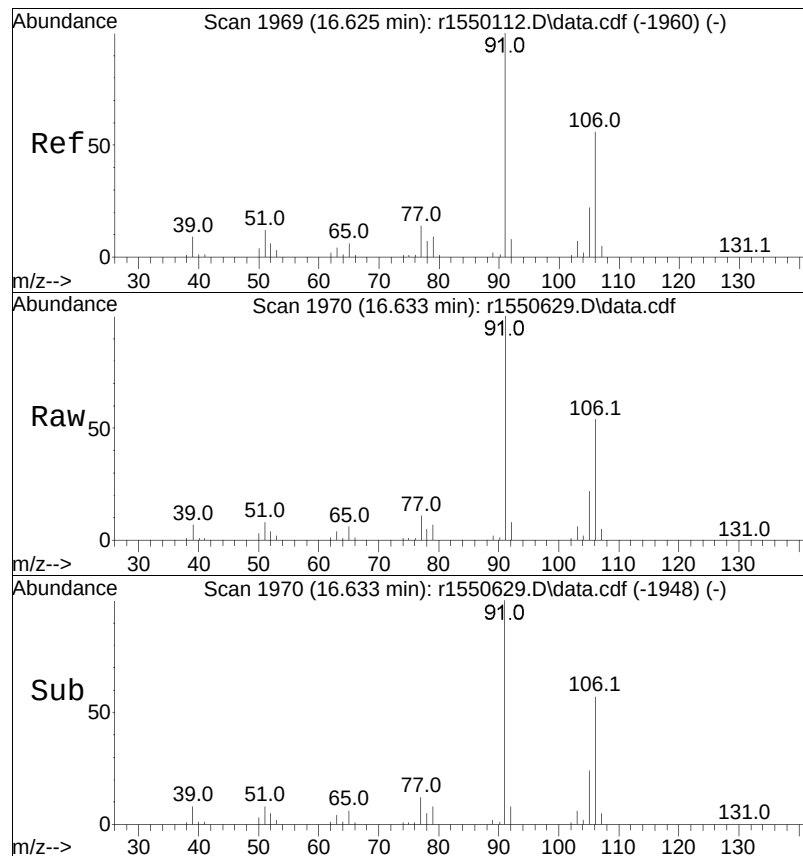




#81
ethylbenzene
Concen: 9.05 ppbV
RT: 16.475 min Scan# 1951
Delta R.T. -0.008 min
Lab File: r1550629.D
Acq: 16 Oct 2024 1:48 PM

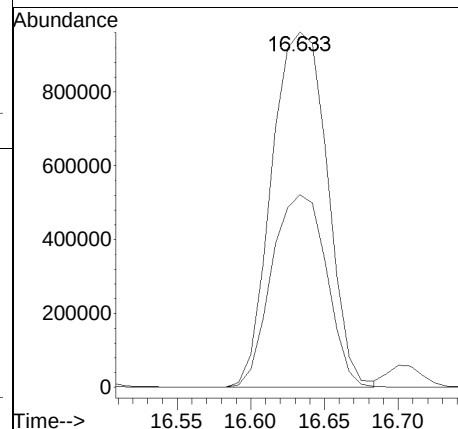
Tgt Ion: 91 Resp: 1547023
Ion Ratio Lower Upper
91 100
106 35.7 27.6 41.4

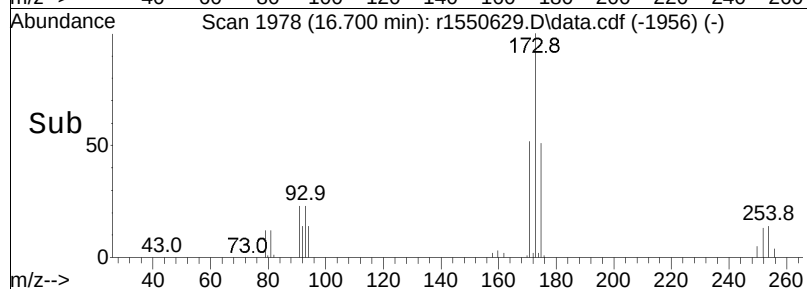
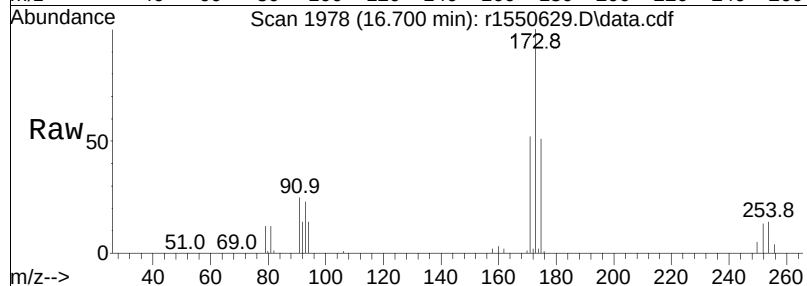
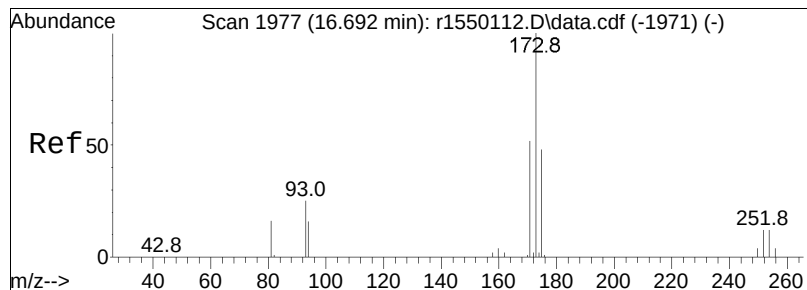




#83
 m+p-xylene
 Concen: 18.46 ppbV
 RT: 16.633 min Scan# 1970
 Delta R.T. -0.017 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

Tgt	Ion	Resp	Lower	Upper
91	100	2517929		
106	54.2	42.1	63.1	





#84

bromoform

Concen: 9.53 ppbV

RT: 16.700 min Scan# 1978

Delta R.T. -0.017 min

Lab File: r1550629.D

Acq: 16 Oct 2024 1:48 PM

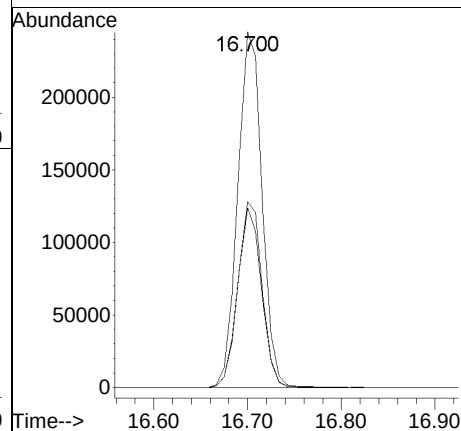
Tgt Ion:173 Resp: 440901

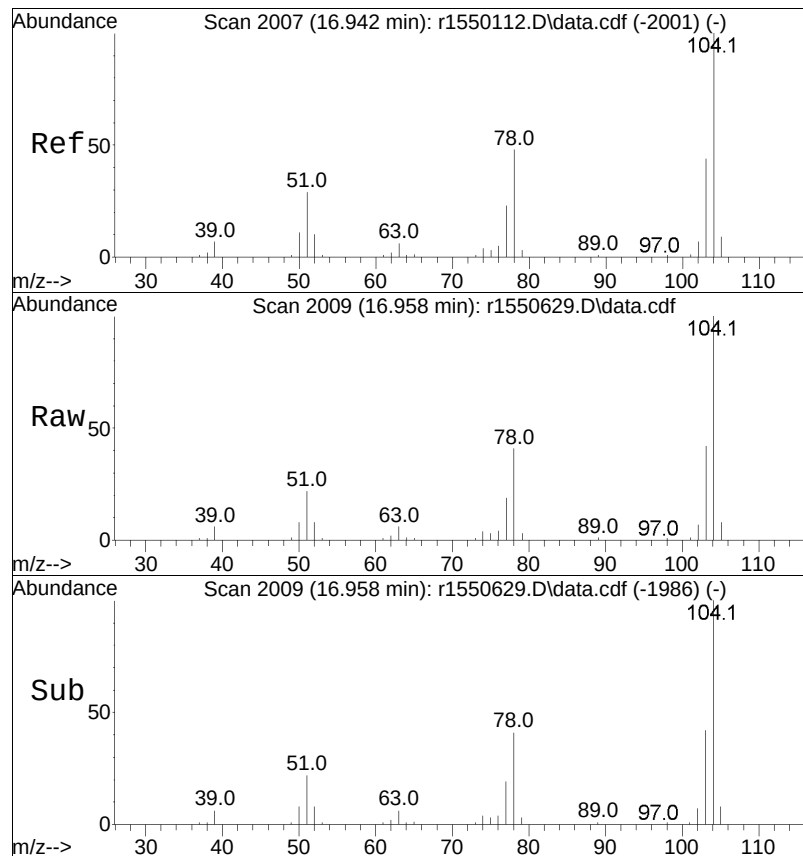
Ion Ratio Lower Upper

173 100

175 50.5 39.2 58.8

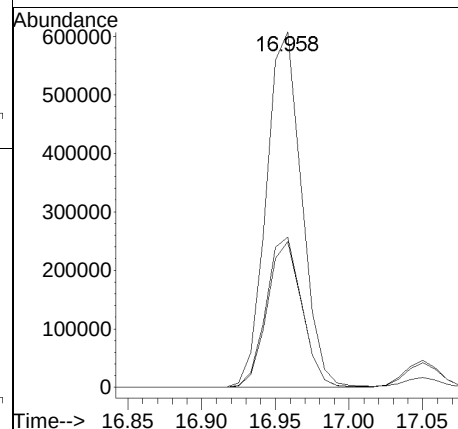
171 52.3 41.2 61.8

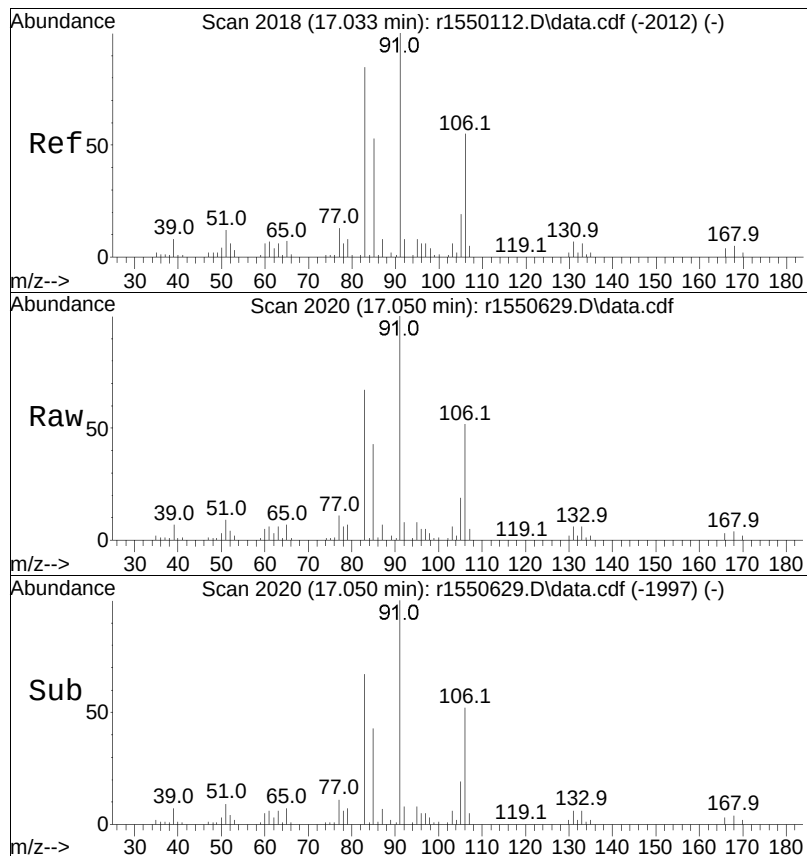




#85
styrene
Concen: 9.68 ppbV
RT: 16.958 min Scan# 2009
Delta R.T. -0.008 min
Lab File: r1550629.D
Acq: 16 Oct 2024 1:48 PM

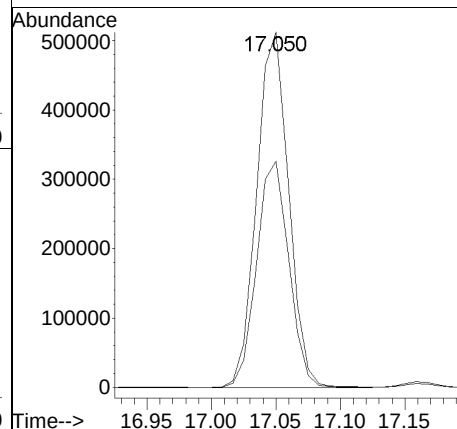
Tgt Ion	Ratio	Lower	Upper
104	100		
103	42.3	34.5	51.7
78	41.0	34.6	51.8

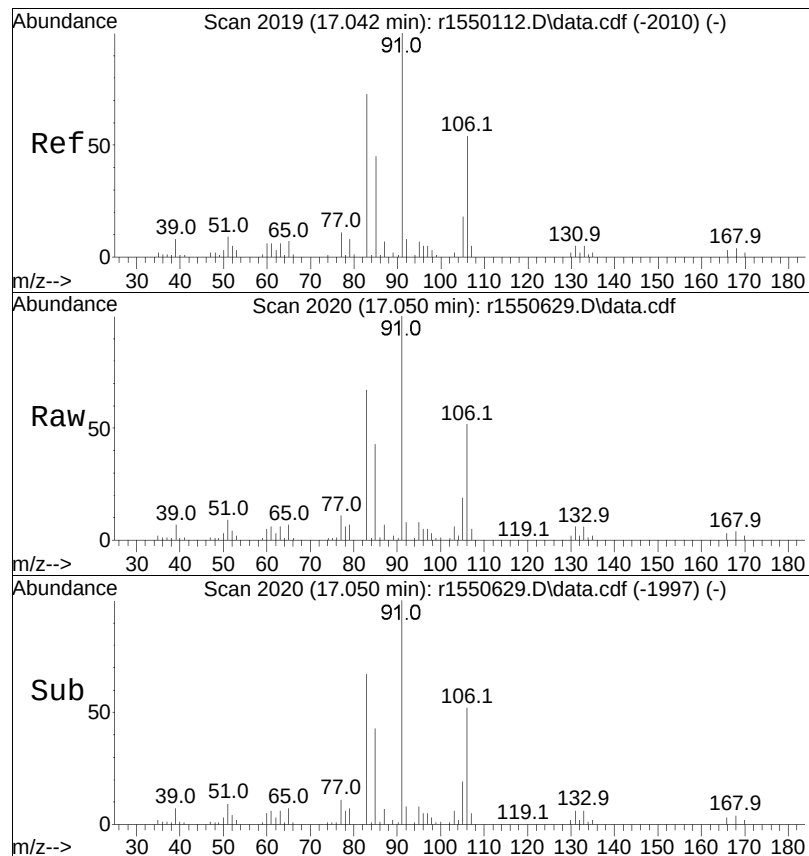




#86
 1,1,2,2-tetrachloroethane
 Concen: 8.96 ppbV
 RT: 17.050 min Scan# 2020
 Delta R.T. -0.008 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

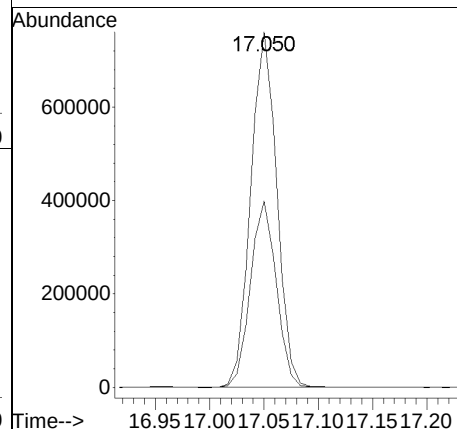
Tgt Ion:	83	Resp:	883153
Ion Ratio	Lower	Upper	
83	100		
85	63.7	52.2	78.4

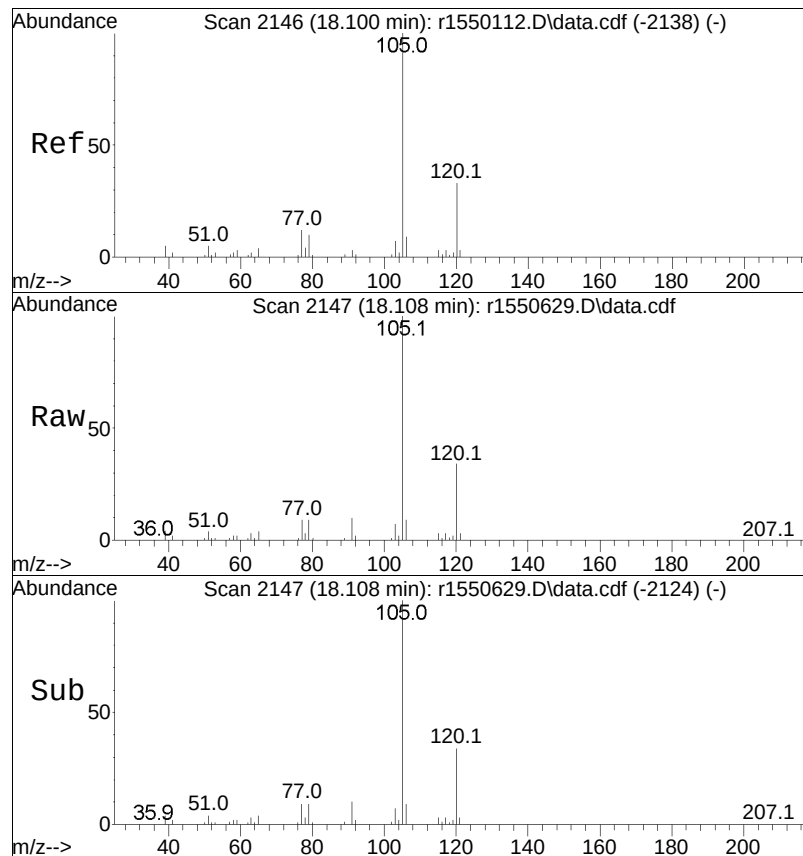




#87
 o-xylene
 Concen: 9.31 ppbV
 RT: 17.050 min Scan# 2020
 Delta R.T. -0.008 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

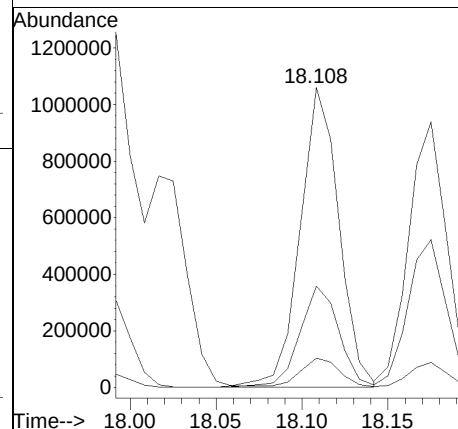
Tgt Ion	Ratio	Lower	Upper
91	100		
106	52.4	42.0	63.0

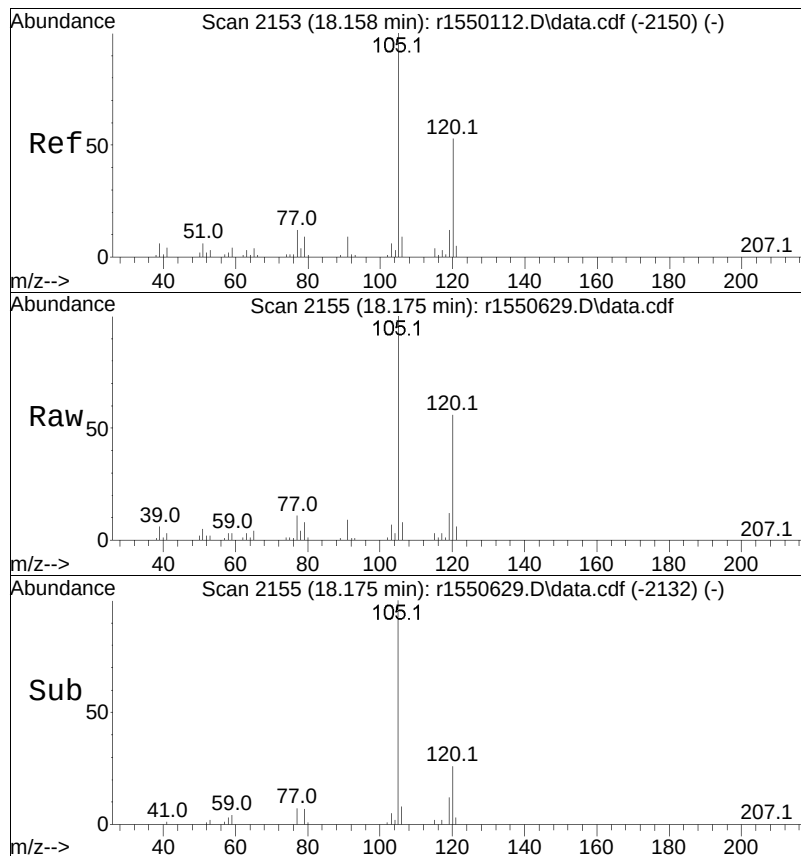




#96
 4-ethyl toluene
 Concen: 9.30 ppbV
 RT: 18.108 min Scan# 2147
 Delta R.T. -0.008 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

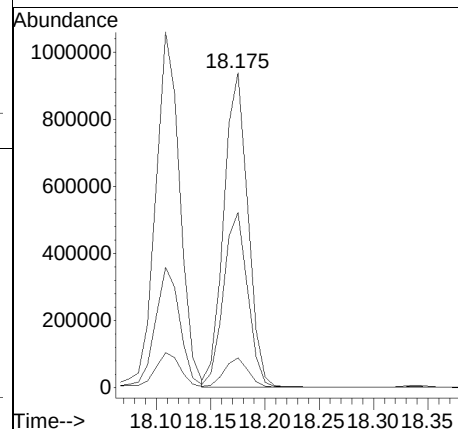
Tgt Ion:105	Resp: 1664062
Ion Ratio	Lower Upper
105 100	
120 33.8	29.5 44.3
91 9.8	8.2 12.2

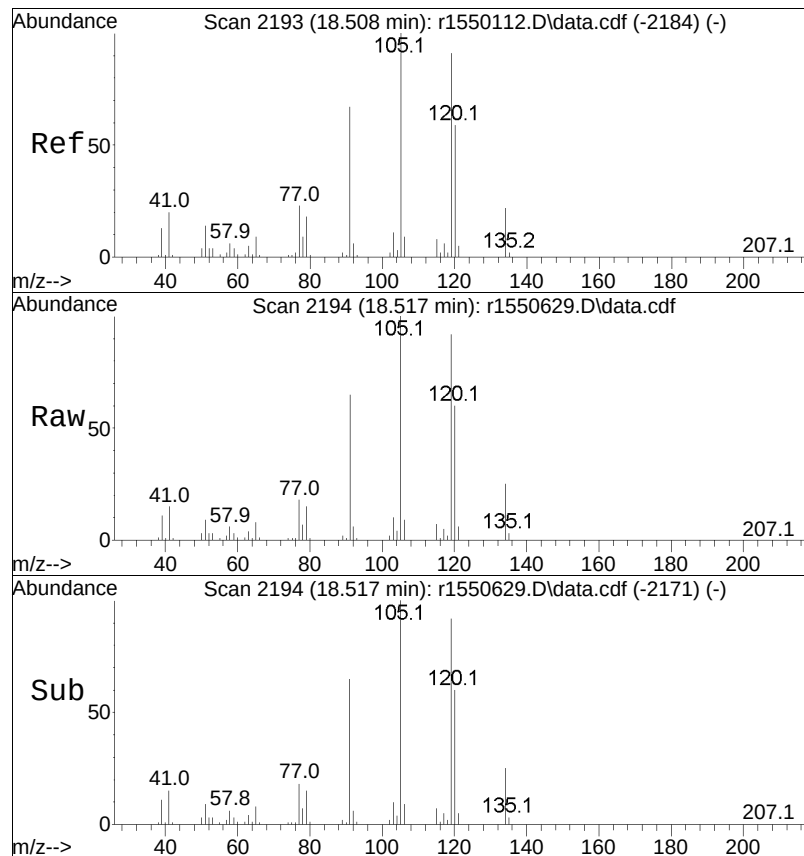




#97
 1,3,5-trimethylbenzene
 Concen: 9.12 ppbV
 RT: 18.175 min Scan# 2155
 Delta R.T. -0.008 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

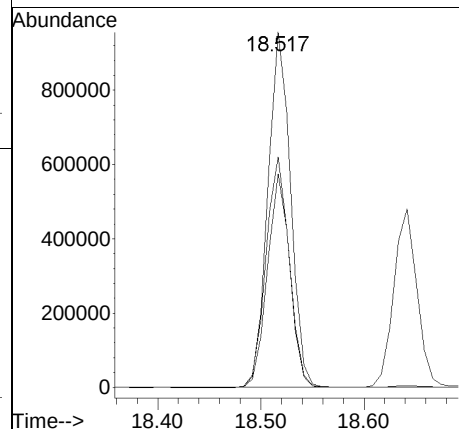
Tgt Ion	Ratio	Lower	Upper
105	100		
120	55.6	44.3	66.5
91	9.4	7.4	11.2

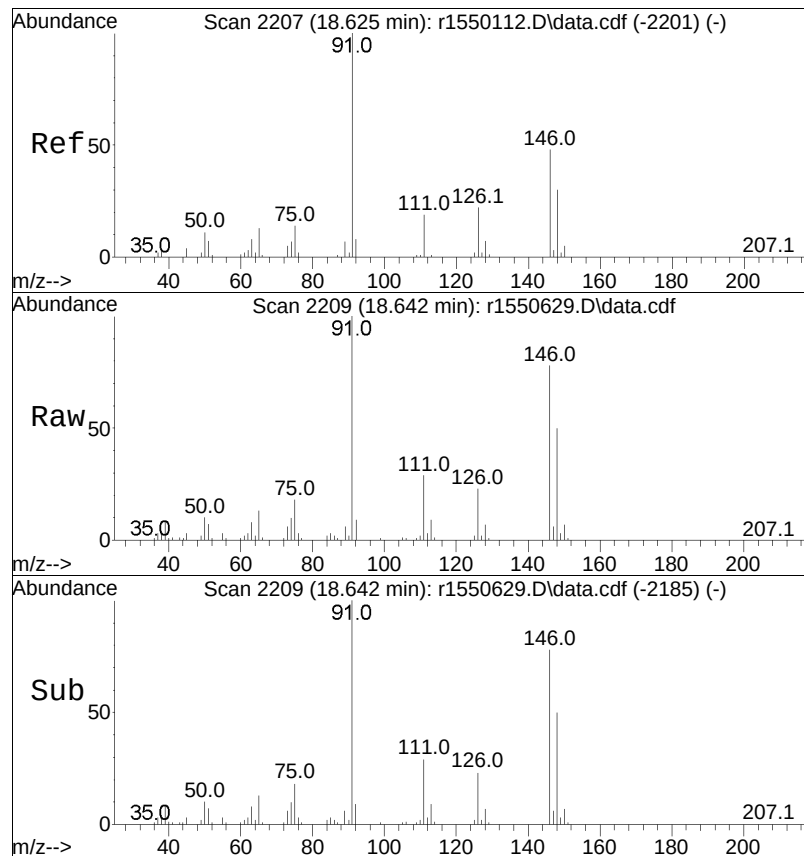




#99
 1,2,4-trimethylbenzene
 Concen: 9.64 ppbV
 RT: 18.517 min Scan# 2194
 Delta R.T. -0.008 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

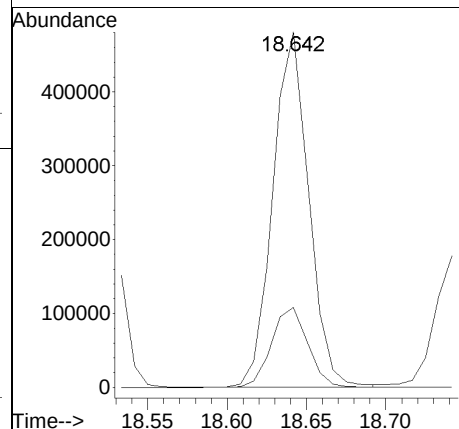
Tgt	Ion	Ratio	Resp	Lower	Upper
105	105	100	1461984		
120	120	60.1		50.1	75.1
91	91	64.9		57.3	85.9

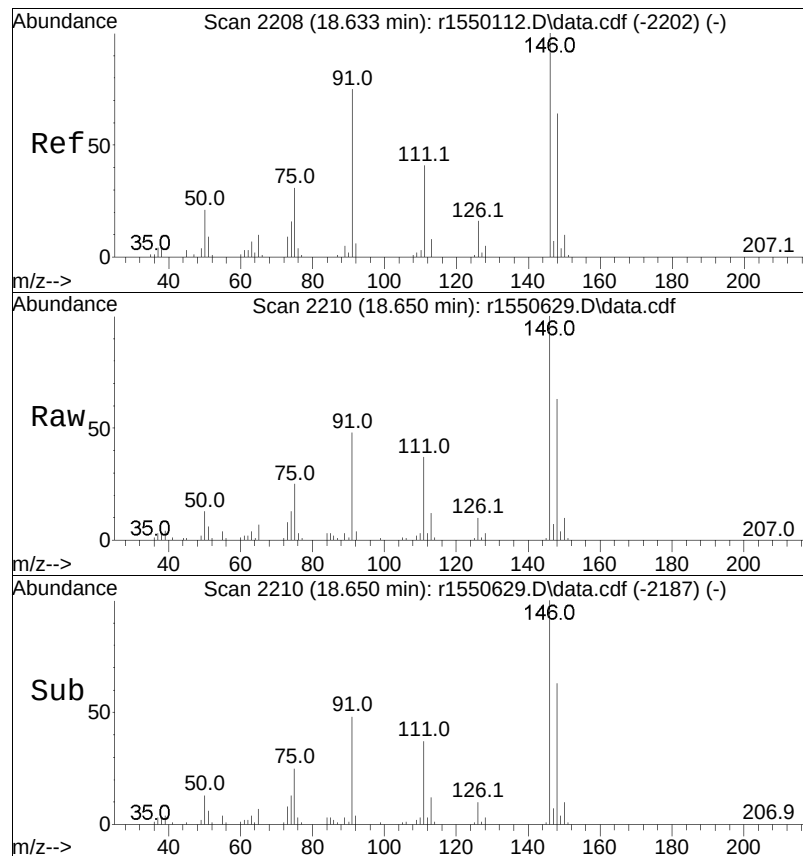




#101
 Benzyl Chloride
 Concen: 8.40 ppbV
 RT: 18.642 min Scan# 2209
 Delta R.T. 0.000 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

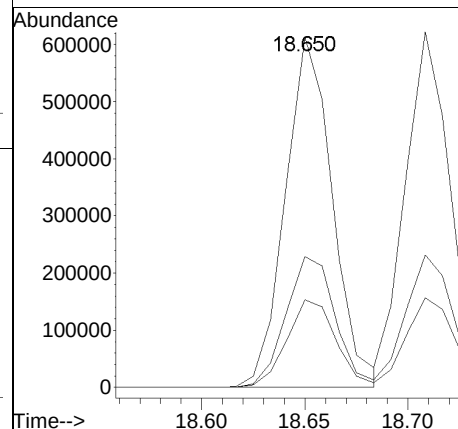
Tgt	Ion	Resp	753930
Ion	Ratio	Lower	Upper
91	100		
126	22.5	18.8	28.2

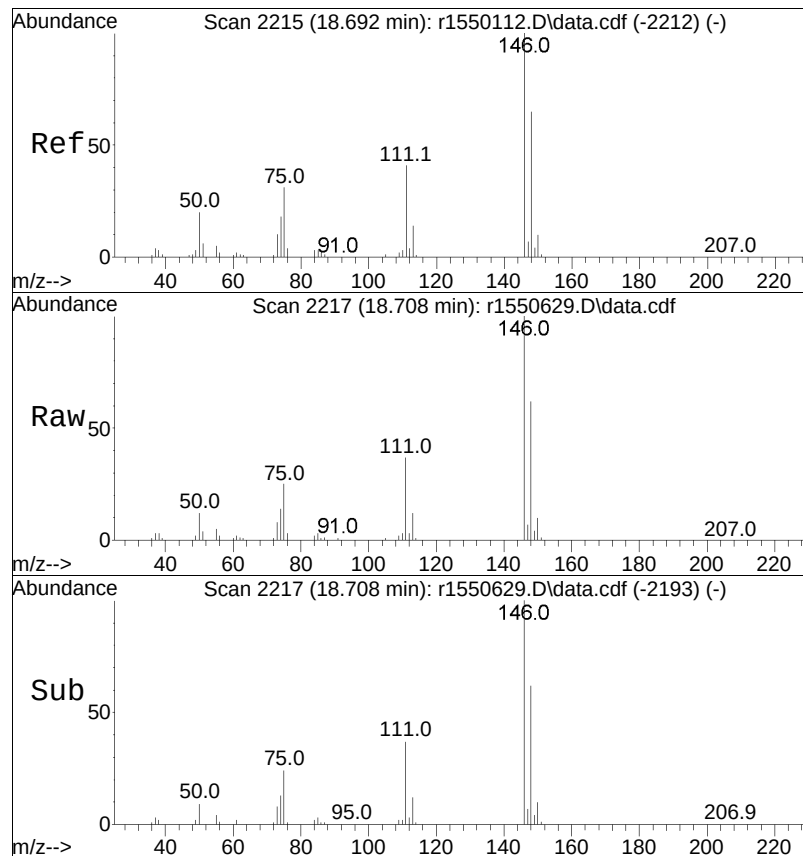




#102
 1,3-dichlorobenzene
 Concen: 9.30 ppbV
 RT: 18.650 min Scan# 2210
 Delta R.T. -0.008 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

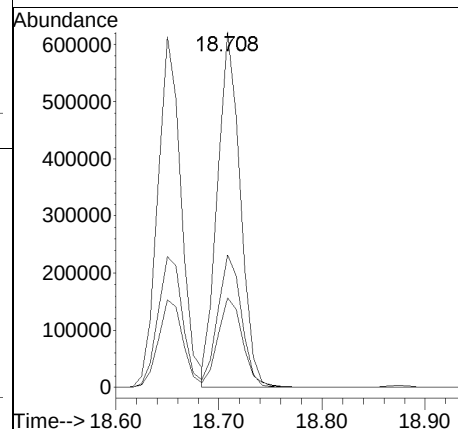
Tgt Ion:	146	Resp:	973303
Ion Ratio	Lower	Upper	
146	100		
111	37.3	32.3	48.5
75	25.0	21.8	32.8

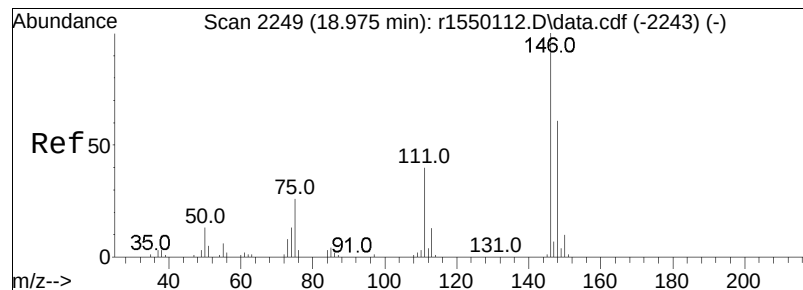




#103
 1,4-dichlorobenzene
 Concen: 9.11 ppbV
 RT: 18.708 min Scan# 2217
 Delta R.T. 0.000 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

Tgt Ion:	146	Resp:	956412
Ion Ratio	Lower	Upper	
146	100		
111	37.3	31.1	46.7
75	25.2	20.3	30.5





#107

1,2-dichlorobenzene

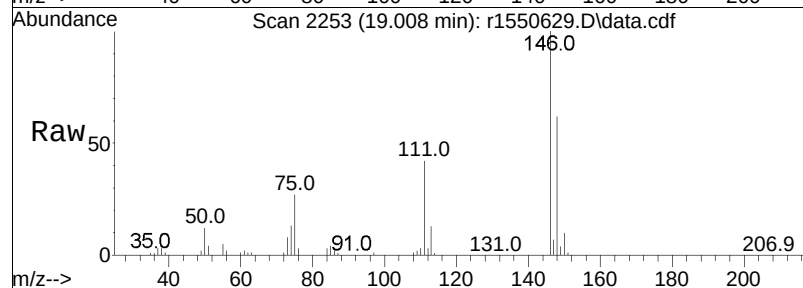
Concen: 10.49 ppbV

RT: 19.008 min Scan# 2253

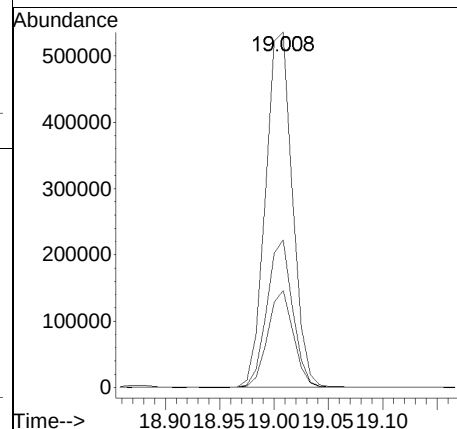
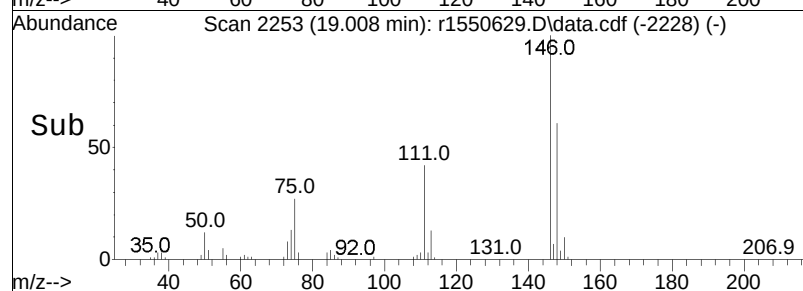
Delta R.T. 0.008 min

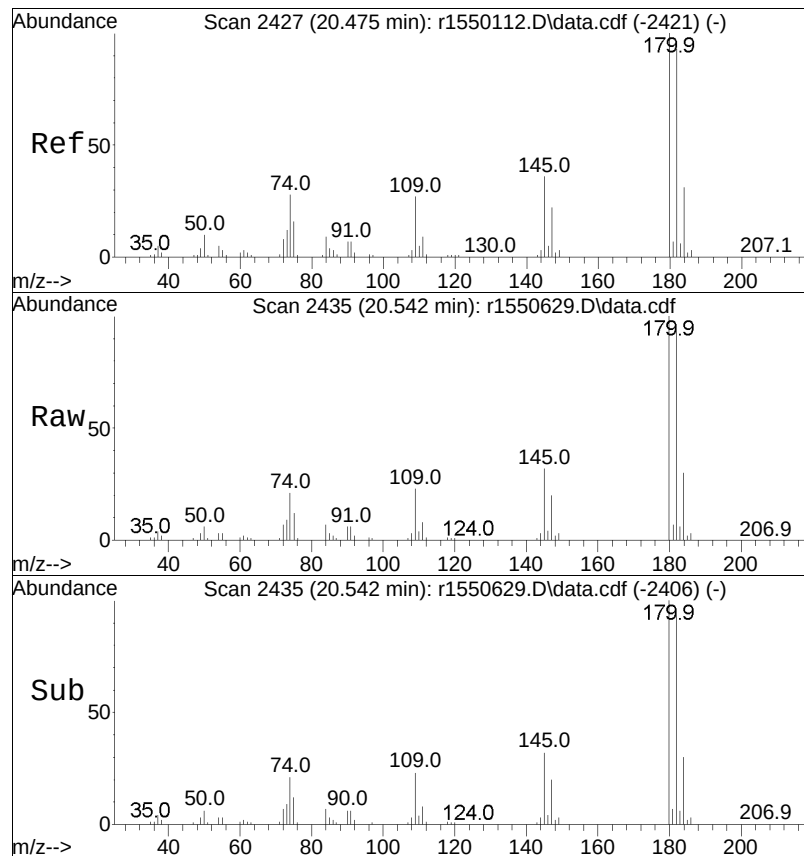
Lab File: r1550629.D

Acq: 16 Oct 2024 1:48 PM



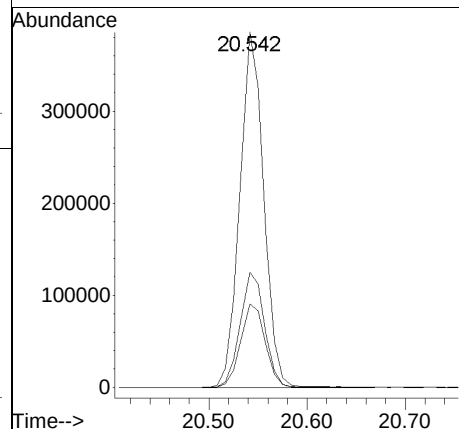
Tgt Ion:	146	Resp:	921718
Ion Ratio	Lower	Upper	
146	100		
111	41.5	30.6	46.0
75	27.3	18.3	27.5

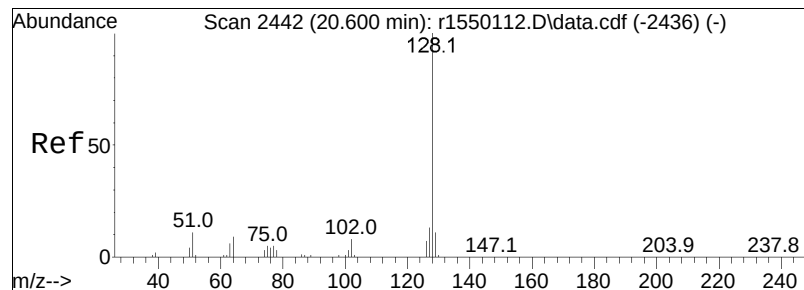




#115
 1,2,4-trichlorobenzene
 Concen: 9.47 ppbV
 RT: 20.542 min Scan# 2435
 Delta R.T. 0.042 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

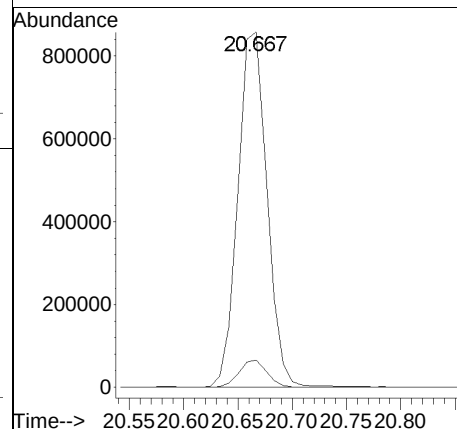
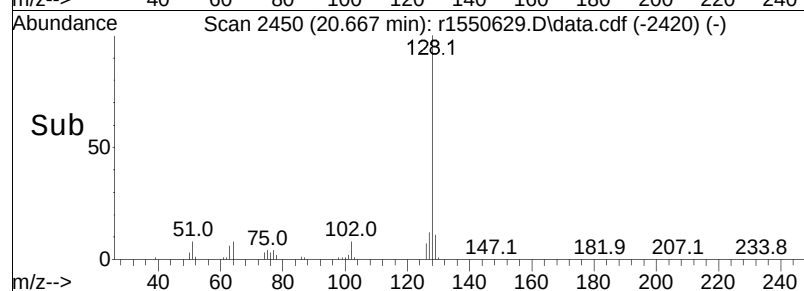
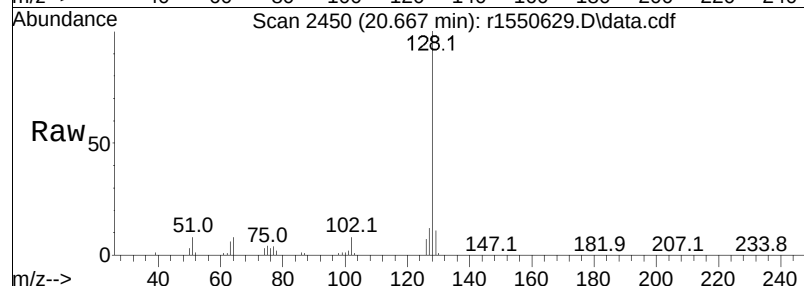
Tgt	Ion:180	Resp:	653114
Ion	Ratio	Lower	Upper
180	100		
145	32.4	28.0	42.0
109	23.5	20.2	30.4

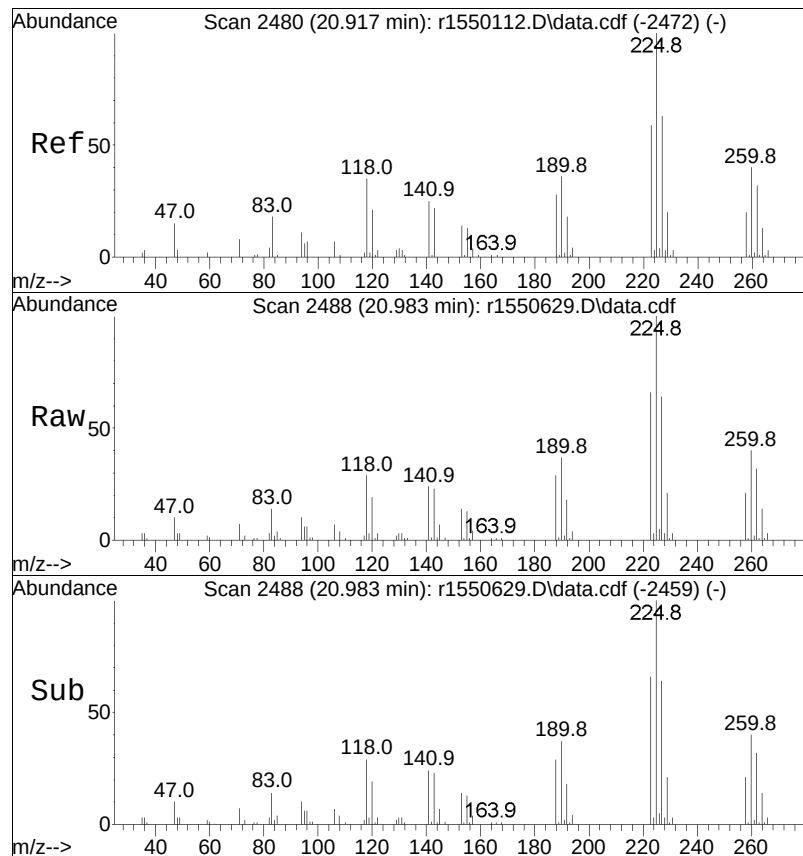




#116
naphthalene
Concen: 8.75 ppbV
RT: 20.667 min Scan# 2450
Delta R.T. 0.050 min
Lab File: r1550629.D
Acq: 16 Oct 2024 1:48 PM

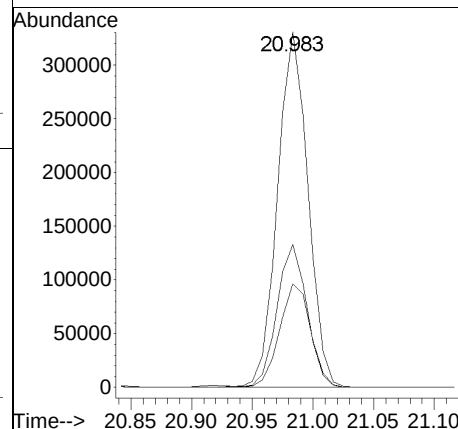
Tgt Ion:128 Resp: 1605631
Ion Ratio Lower Upper
128 100
102 7.7 5.8 8.6





#119
 hexachlorobutadiene
 Concen: 9.23 ppbV
 RT: 20.983 min Scan# 2488
 Delta R.T. 0.042 min
 Lab File: r1550629.D
 Acq: 16 Oct 2024 1:48 PM

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	575844		
260	40.2		31.0	46.6
118	29.2		25.4	38.0



Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550637.D
 Acq On : 16 Oct 2024 10:35 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-5D, 3, 110.48, 250
 Misc : WG1985226, ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 17 05:01:44 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1016T\r1550628.D
 Sub List : PADEP-T015 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.150	49	421769	10.000	ppbV	-0.04
Standard Area = 416135			Recovery =	101.35%		
43) 1,4-difluorobenzene	11.387	114	1271012	10.000	ppbV	-0.04
Standard Area = 1287285			Recovery =	98.74%		
67) chlorobenzene-D5	16.067	54	208802	10.000	ppbV	-0.03
Standard Area = 193671			Recovery =	107.81%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.024	85	12951	0.258	ppbV	100
6) chloromethane	4.186	50	5340	0.289	ppbV	92
9) vinyl chloride	4.420	62	6669	0.259	ppbV #	88
10) 1,3-butadiene	4.564	54	2032	0.125	ppbV #	69
13) bromomethane	0.000		0	N.D.		
14) chloroethane	5.044	64	1429	0.110	ppbV	93
17) vinyl bromide	0.000		0	N.D.		
18) acrolein	5.560	56	3146	0.366	ppbV #	70
19) acetone	5.700	43	308625M6	11.339	ppbV	
21) trichlorofluoromethane	5.887	101	26013	0.643	ppbV	97
22) isopropyl alcohol	6.000	45	13613	0.331	ppbV #	96
23) acrylonitrile	0.000		0	N.D.	d	
26) 1,1-dichloroethene	6.540		0	N.D.		
28) methylene chloride	6.732	49	8522	0.254	ppbV	95
29) 3-chloropropene	6.852		0	N.D.		
30) carbon disulfide	7.038	76	163426	1.996	ppbV #	93
31) Freon 113	7.026	101	2901	0.051	ppbV	90
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	8.125		0	N.D.		
34) MTBE	8.075		0	N.D.		
37) cis-1,2-dichloroethene	8.975		0	N.D.		
39) chloroform	9.308	83	15993	0.283	ppbV	98
40) Tetrahydrofuran	9.775	42	48772	1.329	ppbV #	83
42) 1,2-dichloroethane	10.133		0	N.D.		
44) hexane	9.217	57	282539	4.971	ppbV #	22
48) 1,1,1-trichloroethane	10.433	97	6252	0.127	ppbV	89
50) benzene	10.967	78	51520	0.463	ppbV	99
52) carbon tetrachloride	11.140		0	N.D.		
53) cyclohexane	11.280	56	30718	0.499	ppbV #	92

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
 Data File : r1550637.D
 Acq On : 16 Oct 2024 10:35 PM
 Operator : AIRLAB15:JMB
 Sample : WG1985226-5D, 3, 110.48, 250
 Misc : WG1985226, ICAL21580
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Oct 17 05:01:44 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Oct 08 13:55:51 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\10\1016T\r1550628.D
 Sub List : PADEP-T015 - .

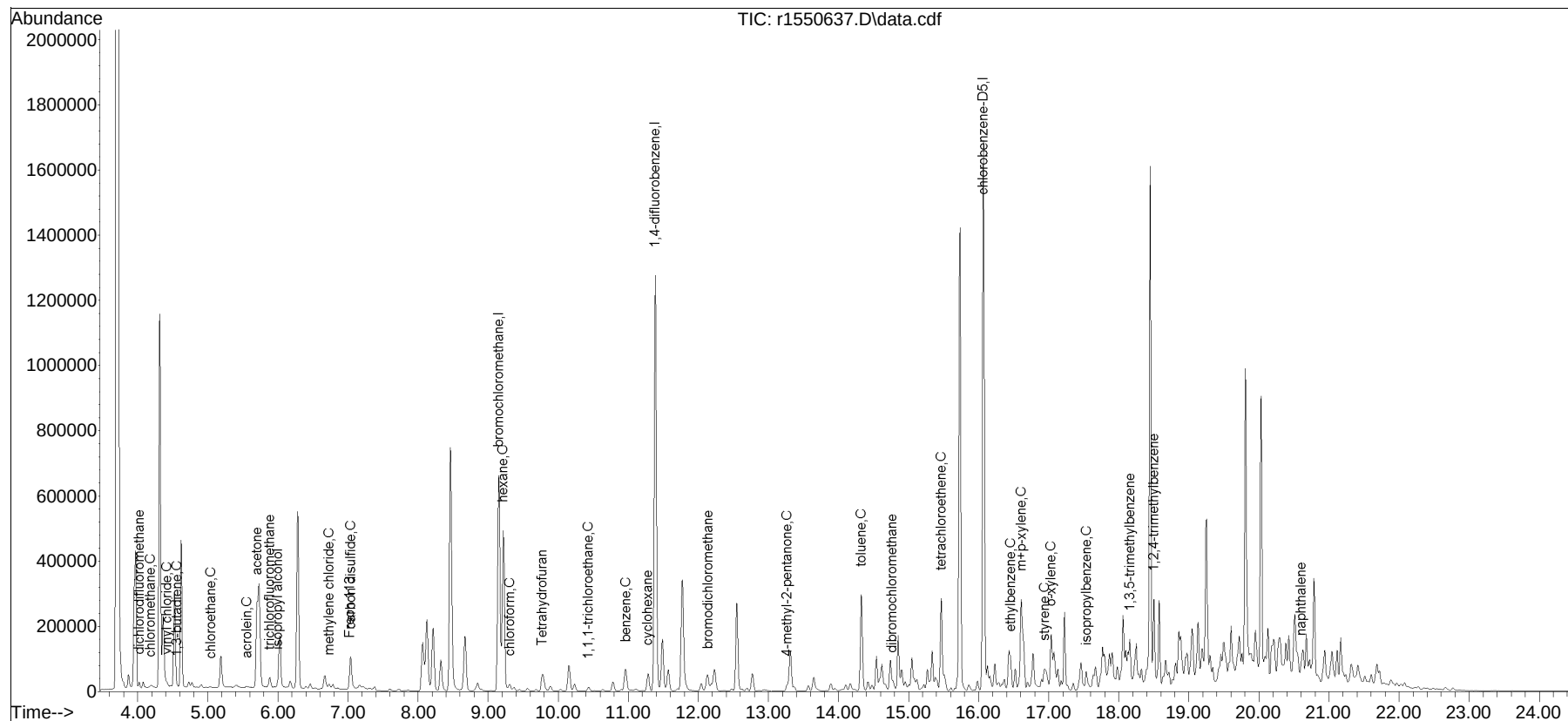
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
56)	1,2-dichloropropane	0.000		0	N.D.			
57)	bromodichloromethane	12.140	83	8712	0.163	ppbV #		83
58)	1,4-dioxane	0.000		0	N.D.			
59)	trichloroethene	12.200		0	N.D.			
61)	methyl methacrylate	0.000		0	N.D.	d		
64)	4-methyl-2-pentanone	13.267	43	4773	0.068	ppbV		89
66)	1,1,2-trichloroethane	14.108		0	N.D.			
68)	toluene	14.325	91	235319	1.636	ppbV		99
71)	1,3-dichloropropane	14.325		0	N.D.			
74)	dibromochloromethane	14.767	129	1935	0.034	ppbV #		94
75)	1,2-dibromoethane	0.000		0	N.D.			
78)	tetrachloroethene	15.467	166	89735	1.523	ppbV		97
80)	chlorobenzene	0.000		0	N.D.	d		
81)	ethylbenzene	16.458	91	72469	0.397	ppbV		96
83)	m+p-xylene	16.608	91	221726	1.521	ppbV		97
84)	bromoform	0.000		0	N.D.			
85)	styrene	16.942	104	5054	0.045	ppbV		97
86)	1,1,2,2-tetrachloroethane	0.000		0	N.D.	d		
87)	o-xylene	17.033	91	92711	0.638	ppbV		94
91)	isopropylbenzene	17.542	105	13890	0.074	ppbV		99
97)	1,3,5-trimethylbenzene	18.158	105	40569	0.213	ppbV		100
99)	1,2,4-trimethylbenzene	18.500	105	107468	0.663	ppbV #		55
101)	Benzyl Chloride	18.633		0	N.D.			
103)	1,4-dichlorobenzene	18.700		0	N.D.			
107)	1,2-dichlorobenzene	0.000		0	N.D.			
115)	1,2,4-trichlorobenzene	20.483		0	N.D.			
116)	naphthalene	20.600	128	8350	0.043	ppbV		96

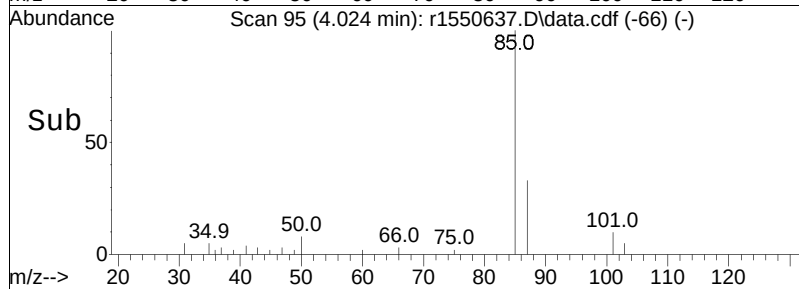
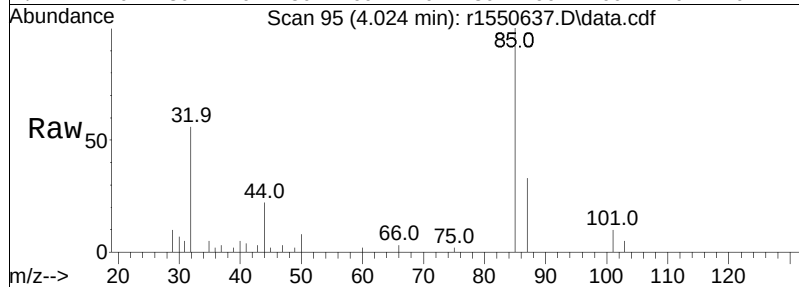
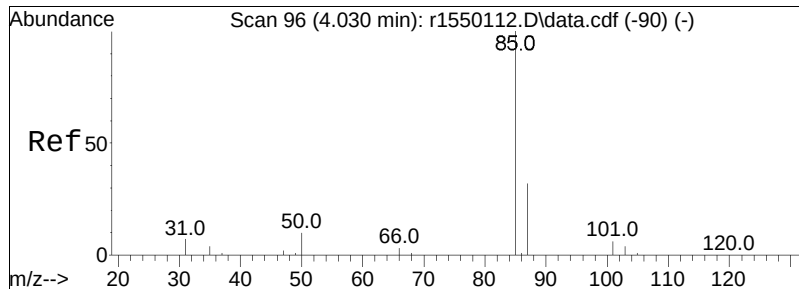
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : PADEP-T015 - .ata\Airlab15\2024\10\1016T\r1550628.D

Data Path : 0:\Forensics\Data\Airlab15\2024\10\1016T\
Data File : r1550637.D
Acq On : 16 Oct 2024 10:35 PM
Operator : AIRLAB15:JMB
Sample : WG1985226-5D,3,110.48,250
Misc : WG1985226,ICAL21580
ALS Vial : 0 Sample Multiplier: 1

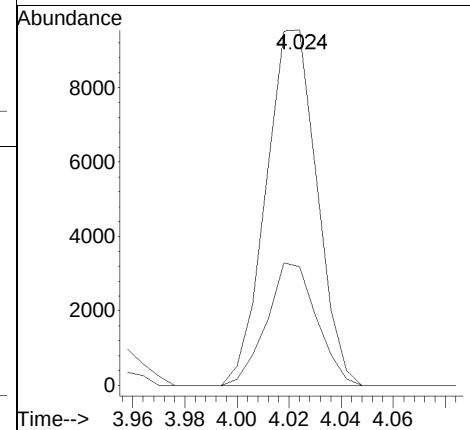
Quant Time: Oct 17 05:01:44 2024
Quant Method : 0:\Forensics\Data\Airlab15\2024\10\1016T\TFS15_241007.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Oct 08 13:55:51 2024
Response via : Initial Calibration

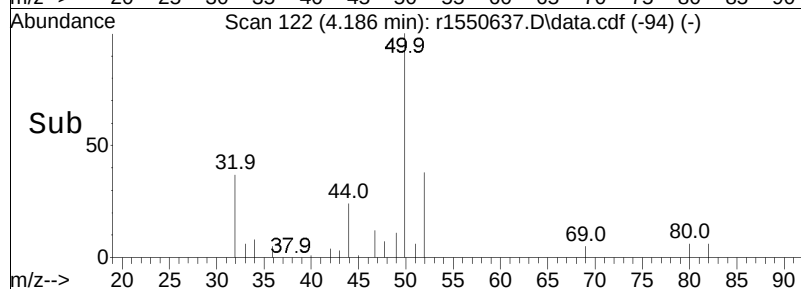
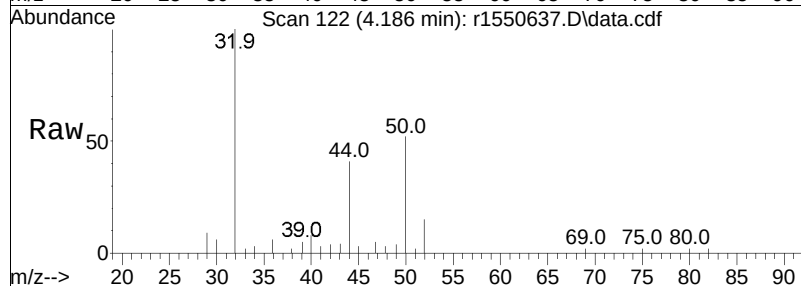
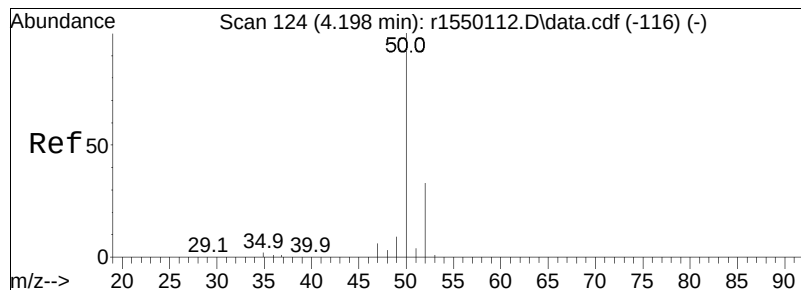




#5
dichlorodifluoromethane
Concen: 0.26 ppbV
RT: 4.024 min Scan# 95
Delta R.T. -0.024 min
Lab File: r1550637.D
Acq: 16 Oct 2024 10:35 PM

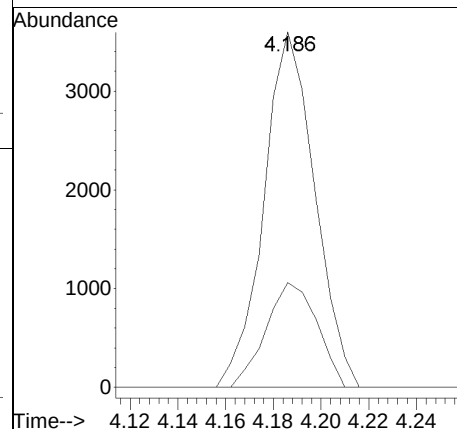
Tgt Ion: 85 Resp: 12951
Ion Ratio Lower Upper
85 100
87 33.4 26.8 40.2

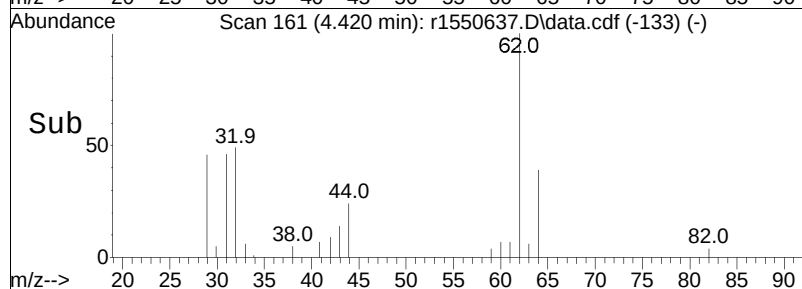
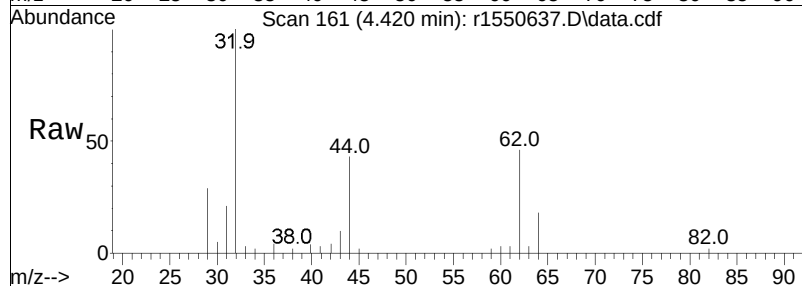
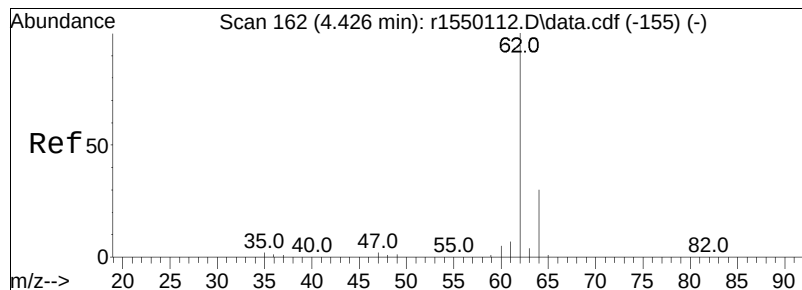




#6
chloromethane
Concen: 0.29 ppbV
RT: 4.186 min Scan# 122
Delta R.T. -0.030 min
Lab File: r1550637.D
Acq: 16 Oct 2024 10:35 PM

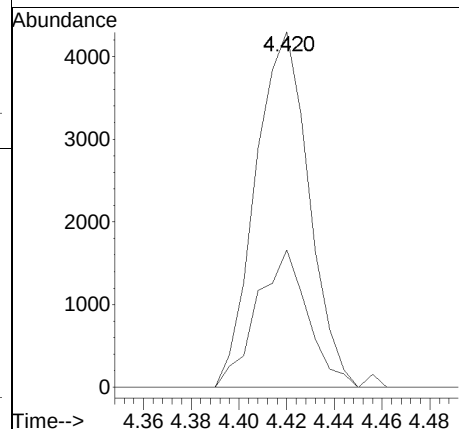
Tgt	Ion	Ratio	Lower	Upper
50	100			
52	29.5	27.4	41.0	

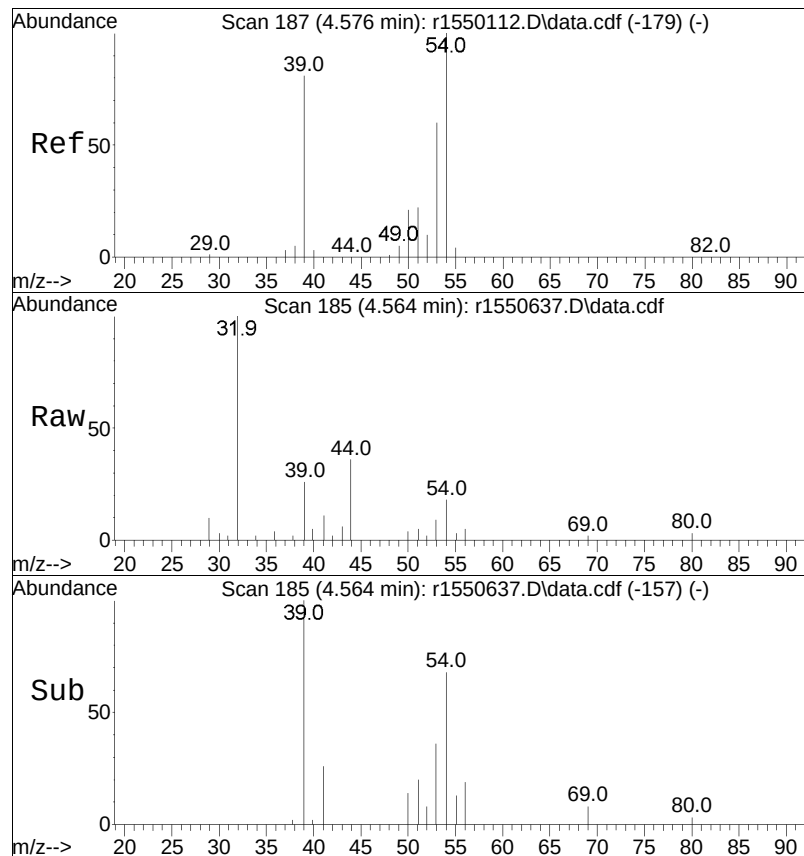




#9
 vinyl chloride
 Concen: 0.26 ppbV
 RT: 4.420 min Scan# 161
 Delta R.T. -0.030 min
 Lab File: r1550637.D
 Acq: 16 Oct 2024 10:35 PM

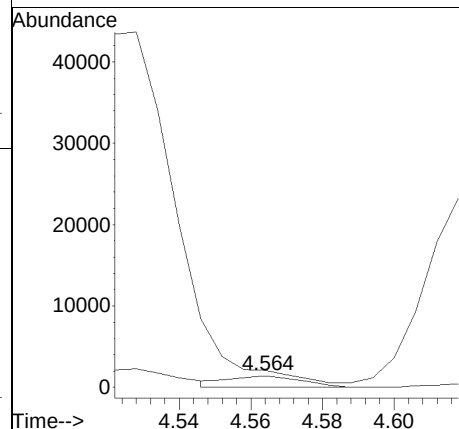
Tgt Ion	Ratio	Lower	Upper
62	100		
64	38.7	25.5	38.3

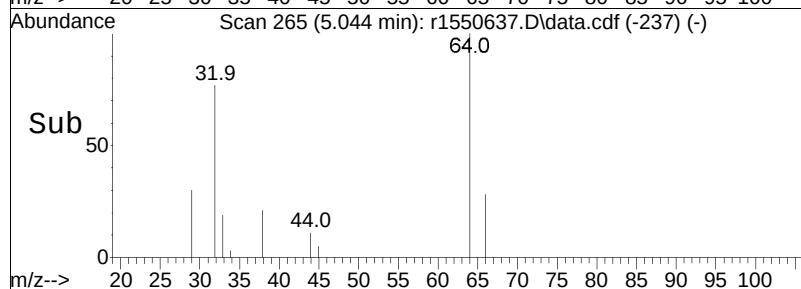
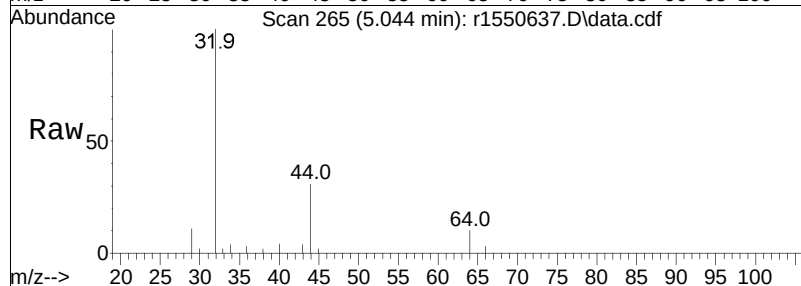
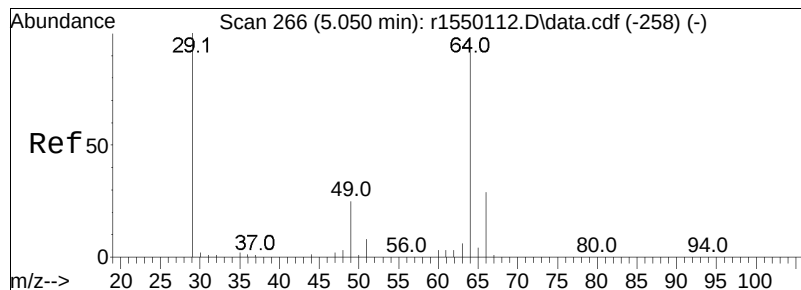




#10
1,3-butadiene
Concen: 0.13 ppbV
RT: 4.564 min Scan# 185
Delta R.T. -0.030 min
Lab File: r1550637.D
Acq: 16 Oct 2024 10:35 PM

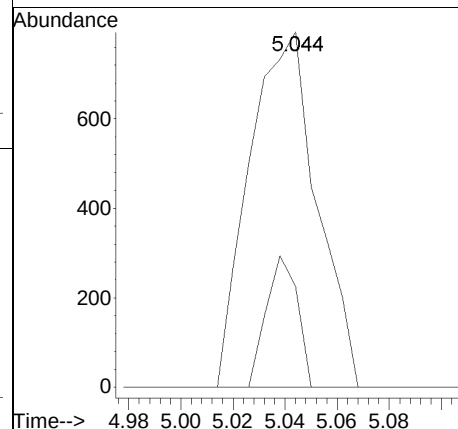
Tgt Ion:	54	Resp:	2032
Ion Ratio	Lower	Upper	
54	100		
39	146.4	90.3	135.5#

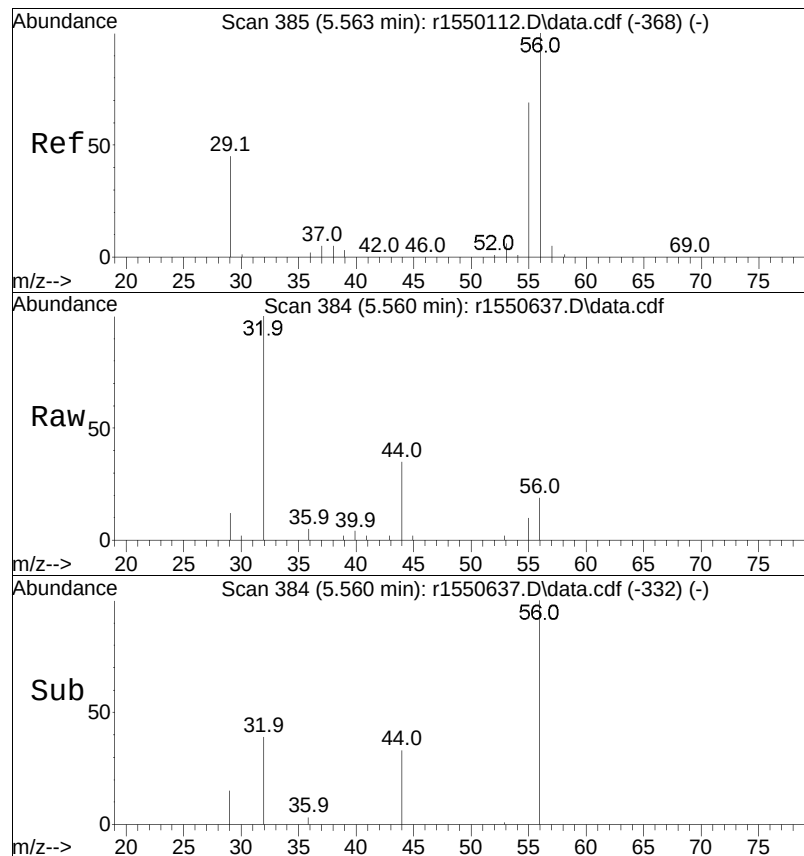




#14
chloroethane
Concen: 0.11 ppbV
RT: 5.044 min Scan# 265
Delta R.T. -0.030 min
Lab File: r1550637.D
Acq: 16 Oct 2024 10:35 PM

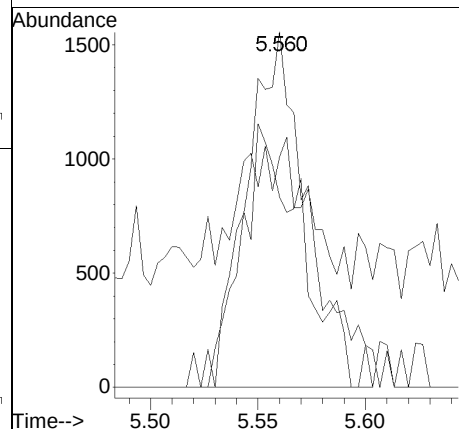
Tgt	Ion	Ratio	Lower	Upper
64	100			
66	28.5	25.8	38.6	

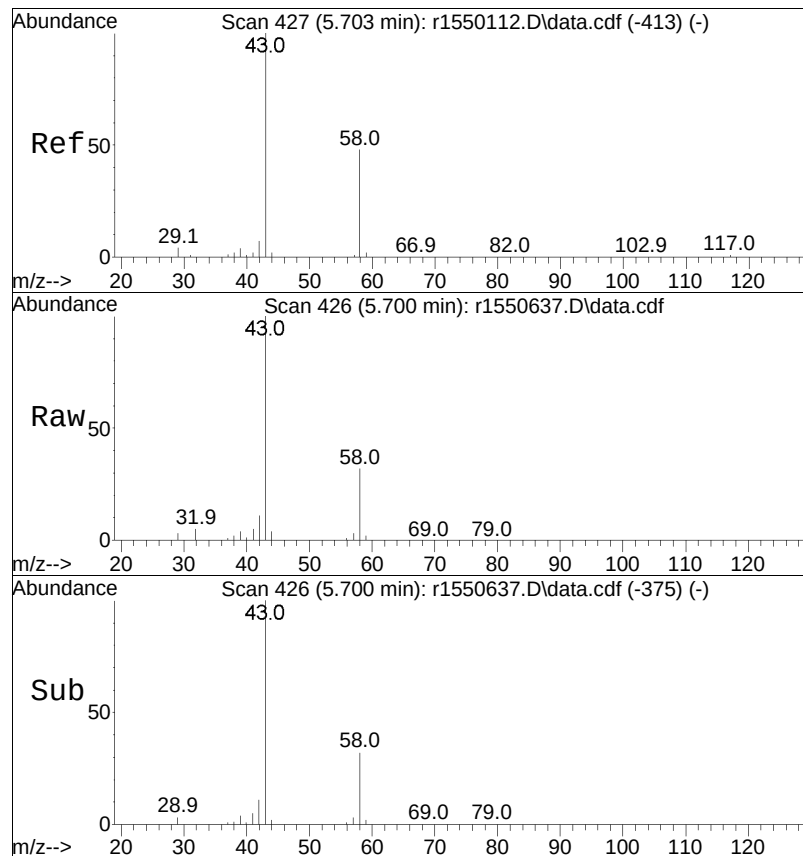




#18
acrolein
Concen: 0.37 ppbV
RT: 5.560 min Scan# 384
Delta R.T. -0.027 min
Lab File: r1550637.D
Acq: 16 Oct 2024 10:35 PM

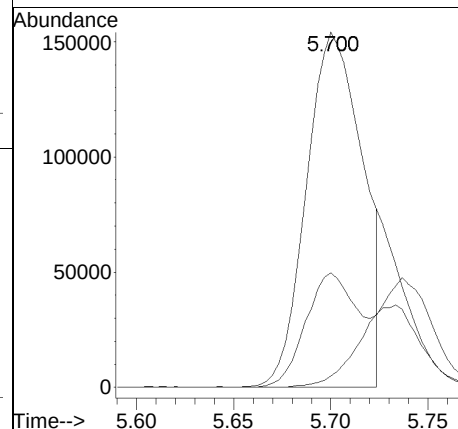
Tgt	Ion	Ratio	Lower	Upper
56	100			
55	53.5	54.2	81.2#	
29	64.9	26.7	40.1#	

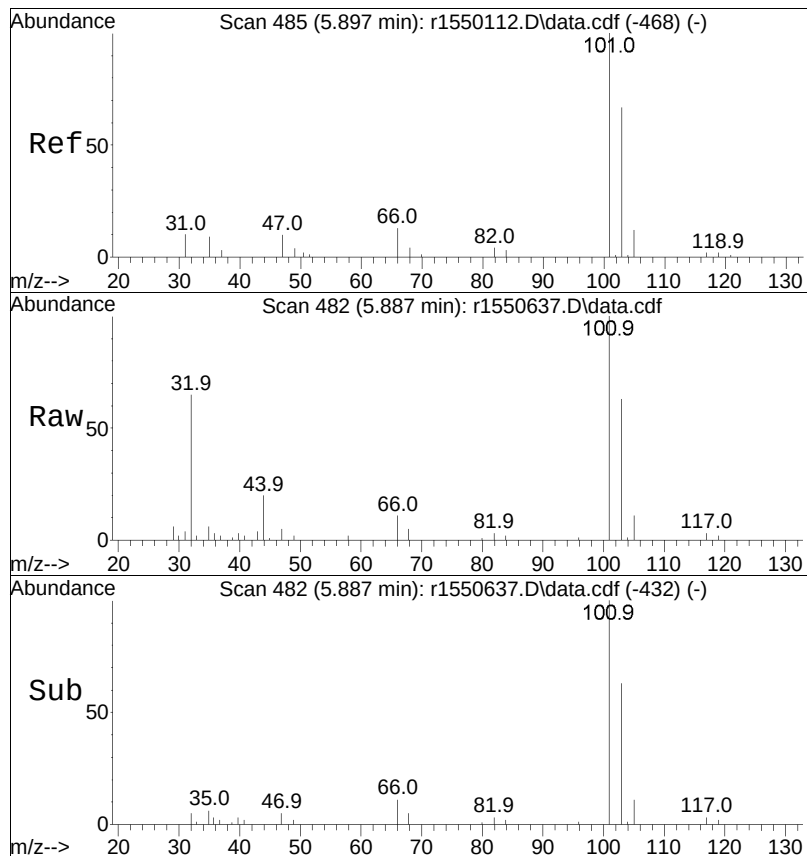




#19
 acetone
 Concen: 11.34 ppbV m
 RT: 5.700 min Scan# 426
 Delta R.T. -0.030 min
 Lab File: r1550637.D
 Acq: 16 Oct 2024 10:35 PM

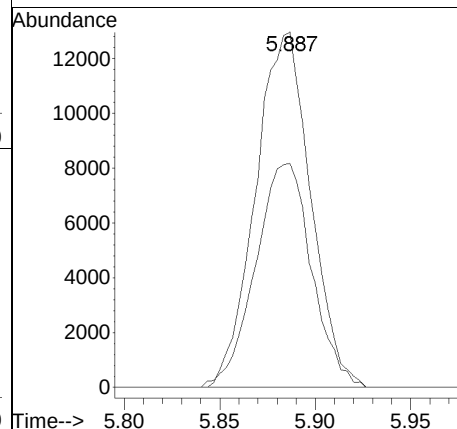
Tgt Ion:	43	Resp:	308625
Ion Ratio	Lower	Upper	
43	100		
58	32.3	31.6	47.4
57	3.3	0.8	1.2#

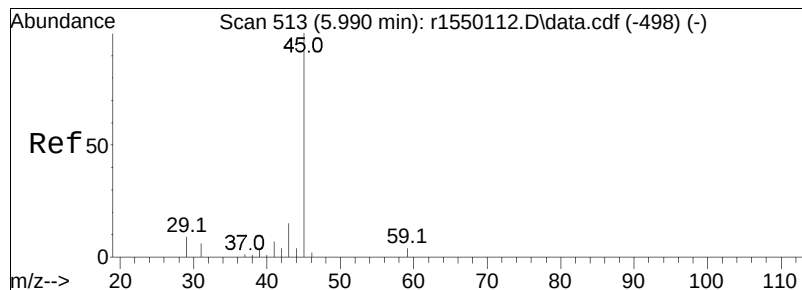




#21
trichlorofluoromethane
Concen: 0.64 ppbV
RT: 5.887 min Scan# 482
Delta R.T. -0.033 min
Lab File: r1550637.D
Acq: 16 Oct 2024 10:35 PM

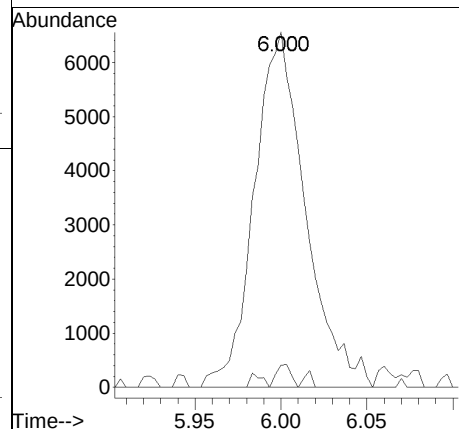
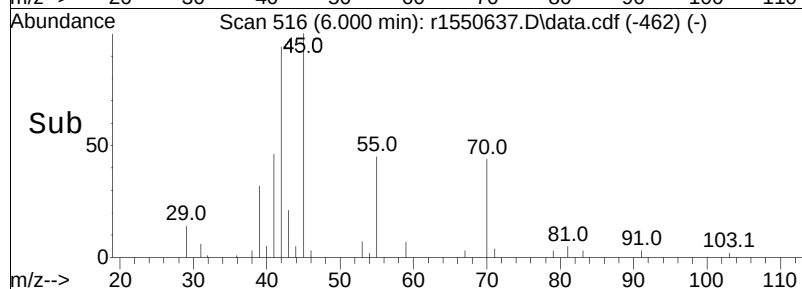
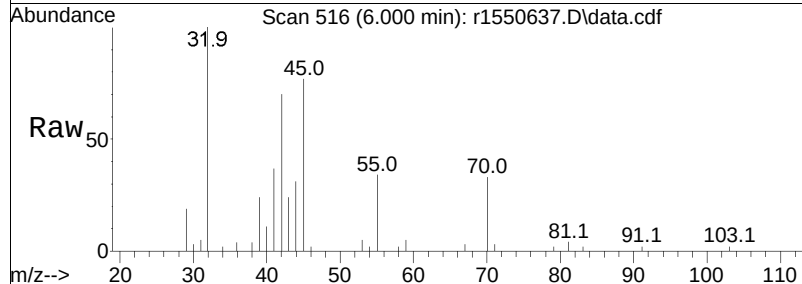
Tgt Ion	Ratio	Lower	Upper
101	100		
103	63.0	52.2	78.4

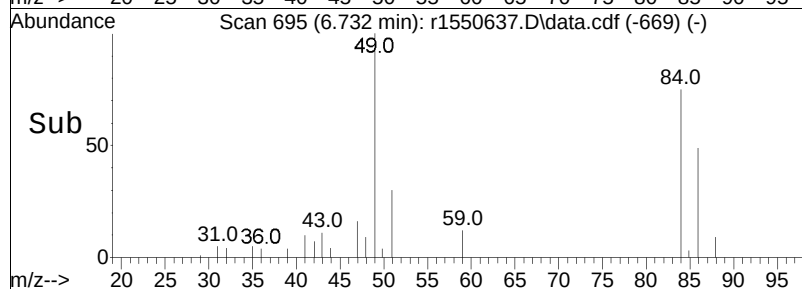
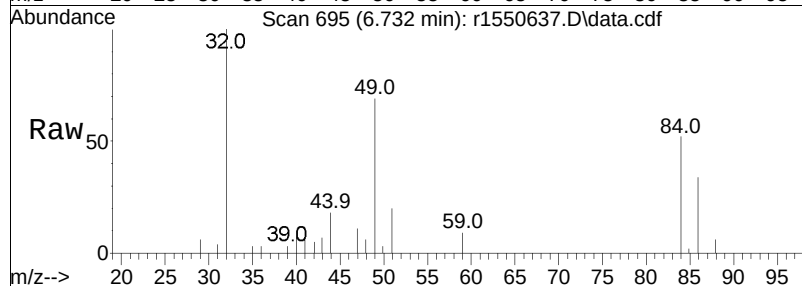
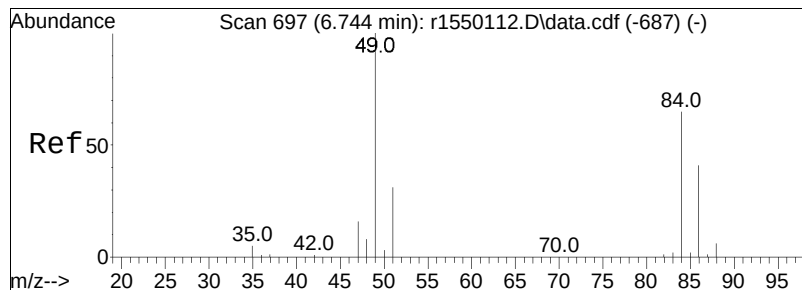




#22
isopropyl alcohol
Concen: 0.33 ppbV
RT: 6.000 min Scan# 516
Delta R.T. -0.020 min
Lab File: r1550637.D
Acq: 16 Oct 2024 10:35 PM

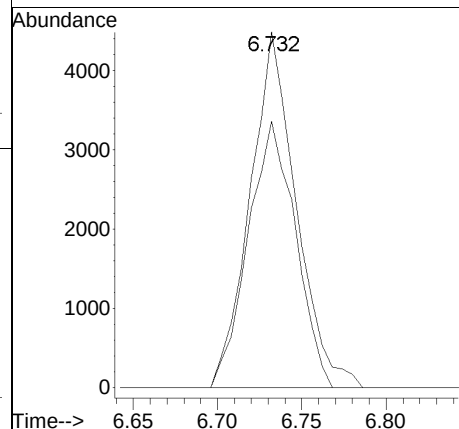
Tgt Ion	Ratio	Lower	Upper
45	100		
59	6.3	3.8	5.8#

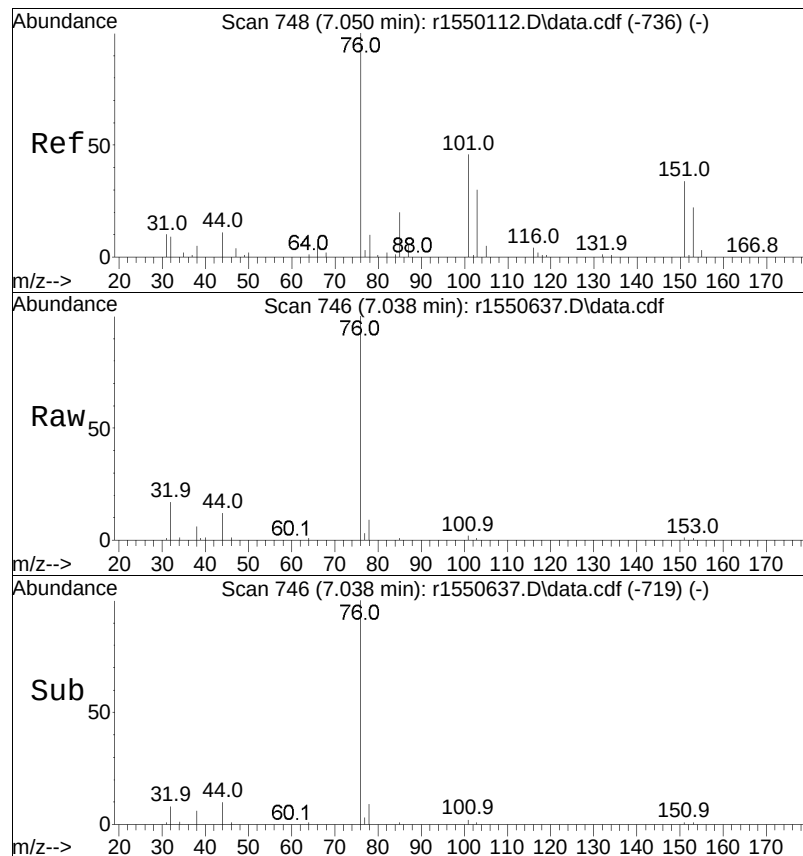




#28
 methylene chloride
 Concen: 0.25 ppbV
 RT: 6.732 min Scan# 695
 Delta R.T. -0.042 min
 Lab File: r1550637.D
 Acq: 16 Oct 2024 10:35 PM

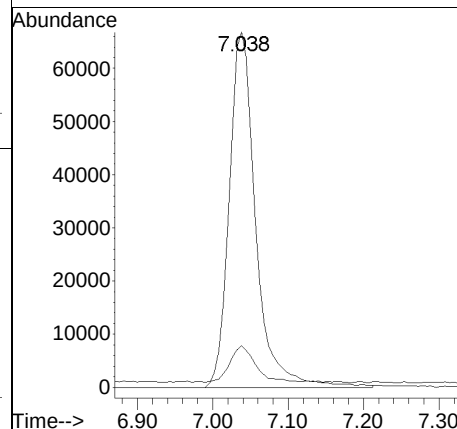
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	8522				
Ion Ratio	100	74.8			
		63.4			95.2

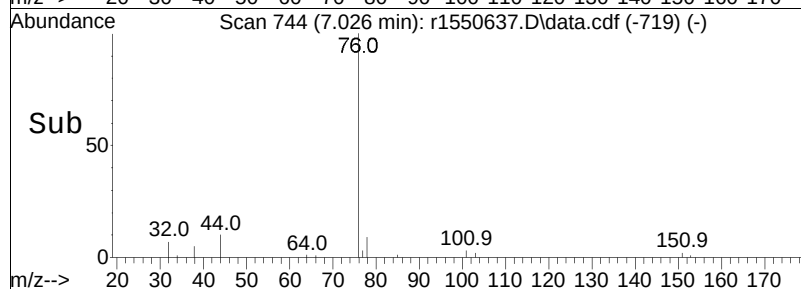
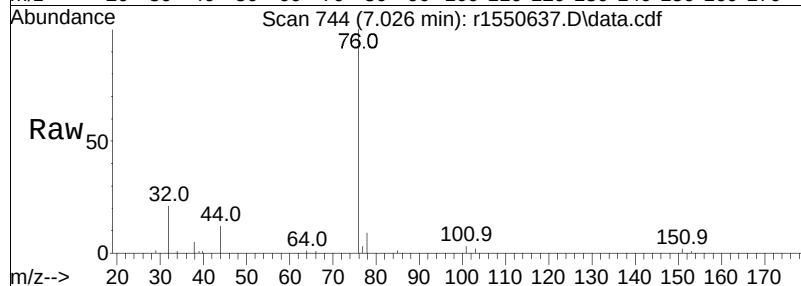
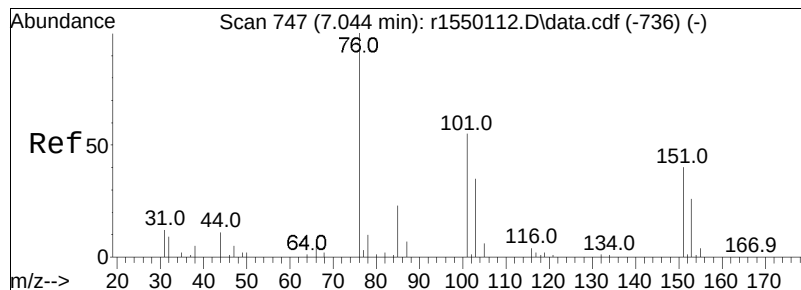




#30
 carbon disulfide
 Concen: 2.00 ppbV
 RT: 7.038 min Scan# 746
 Delta R.T. -0.036 min
 Lab File: r1550637.D
 Acq: 16 Oct 2024 10:35 PM

Tgt Ion	Ratio	Lower	Upper
76	100		
44	11.8	7.4	11.2#





#31

Freon 113

Concen: 0.05 ppbV

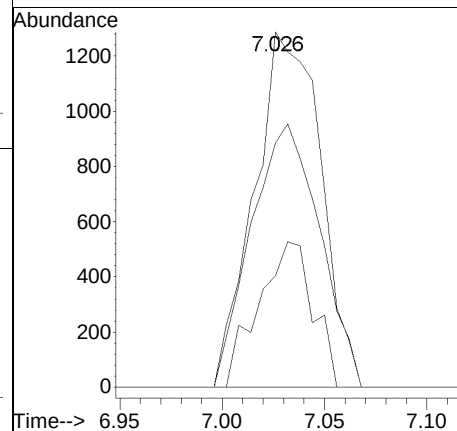
RT: 7.026 min Scan# 744

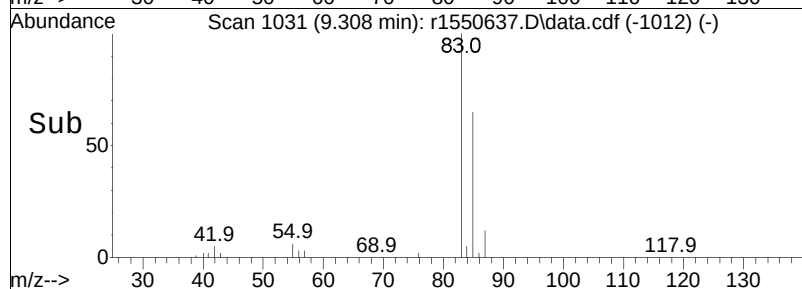
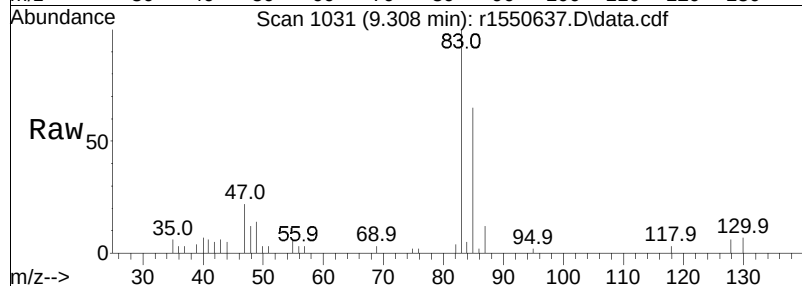
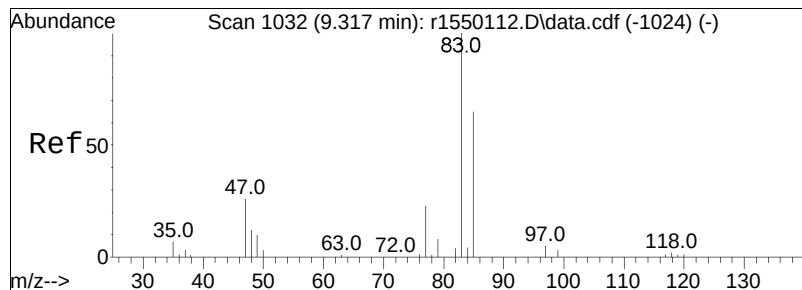
Delta R.T. -0.048 min

Lab File: r1550637.D

Acq: 16 Oct 2024 10:35 PM

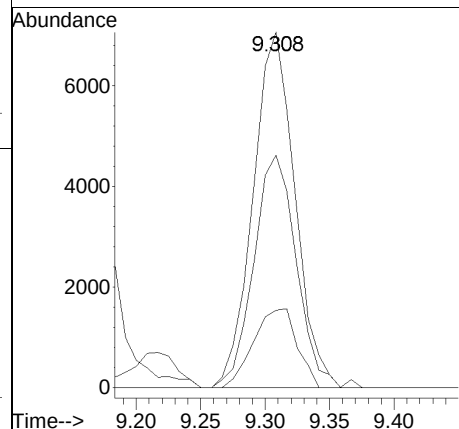
Tgt	Ion:101	Resp:	2901
Ion	Ratio	Lower	Upper
101	100		
85	31.4	31.3	46.9
151	68.8	60.9	91.3

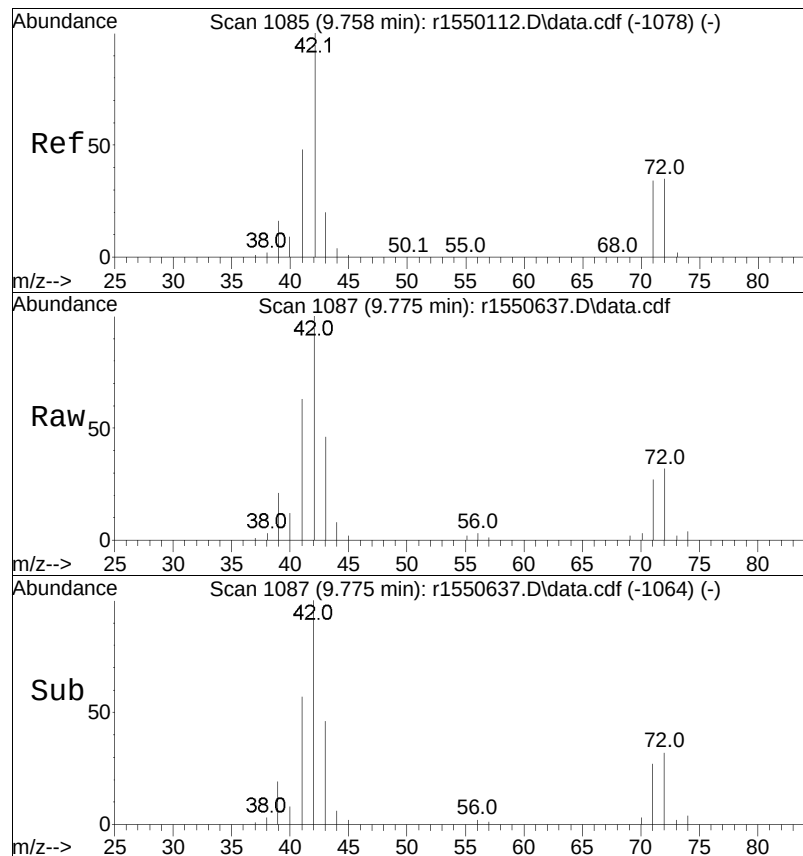




#39
chloroform
Concen: 0.28 ppbV
RT: 9.308 min Scan# 1031
Delta R.T. -0.042 min
Lab File: r1550637.D
Acq: 16 Oct 2024 10:35 PM

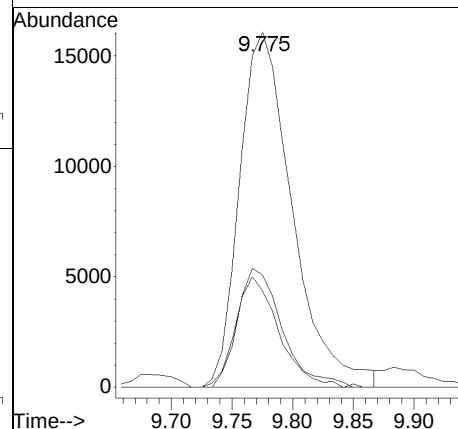
Tgt Ion:	83	Resp:	15993
Ion Ratio	Lower	Upper	
83	100		
85	65.4	51.9	77.9
47	21.7	15.7	23.5

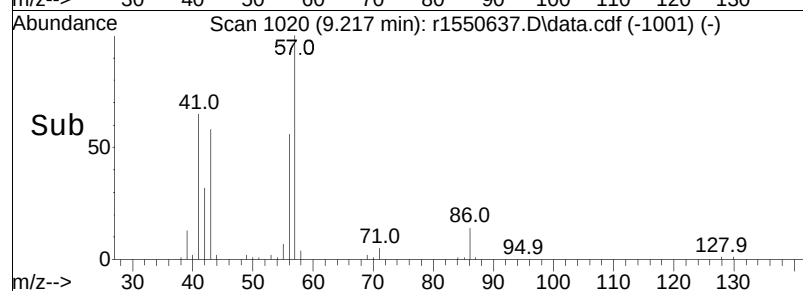
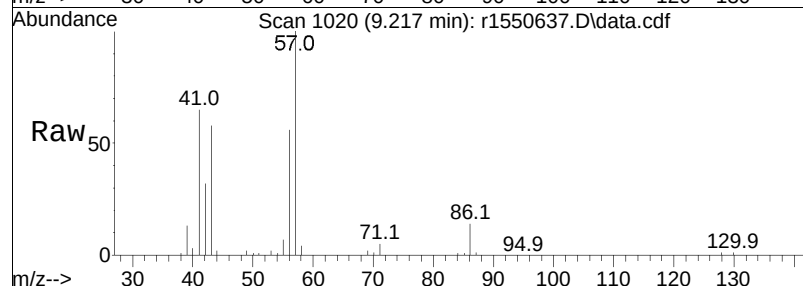
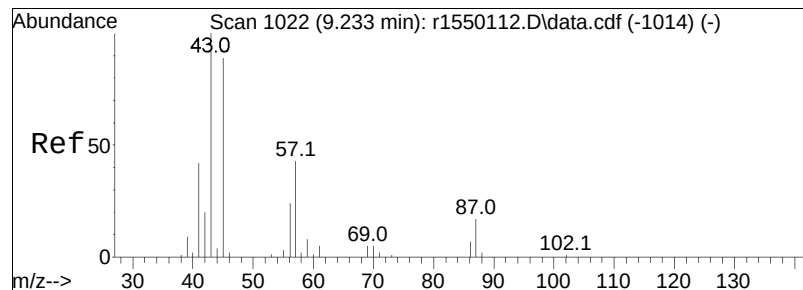




#40
Tetrahydrofuran
Concen: 1.33 ppbV
RT: 9.775 min Scan# 1087
Delta R.T. -0.008 min
Lab File: r1550637.D
Acq: 16 Oct 2024 10:35 PM

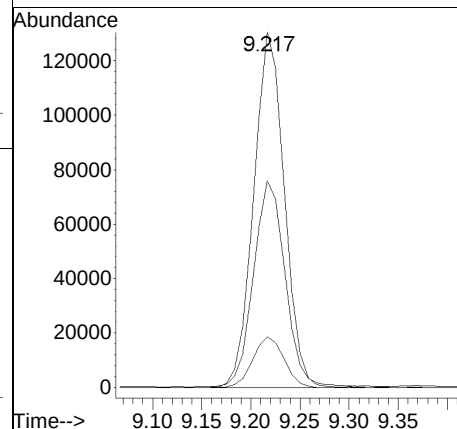
Tgt Ion	Ratio	Lower	Upper
42	100		
71	27.2	31.2	46.8#
72	31.7	33.3	49.9#

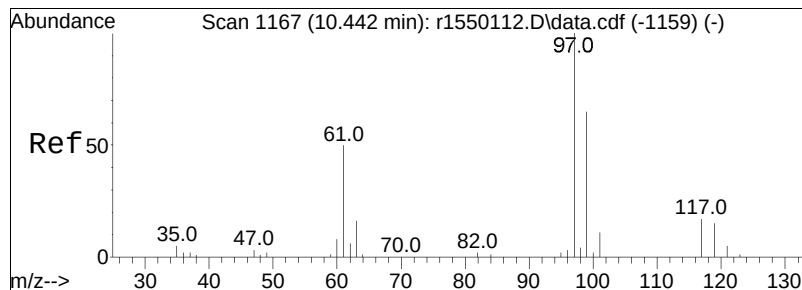




#44
hexane
Concen: 4.97 ppbV
RT: 9.217 min Scan# 1020
Delta R.T. -0.042 min
Lab File: r1550637.D
Acq: 16 Oct 2024 10:35 PM

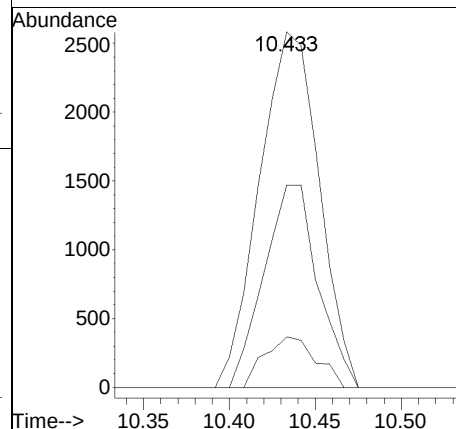
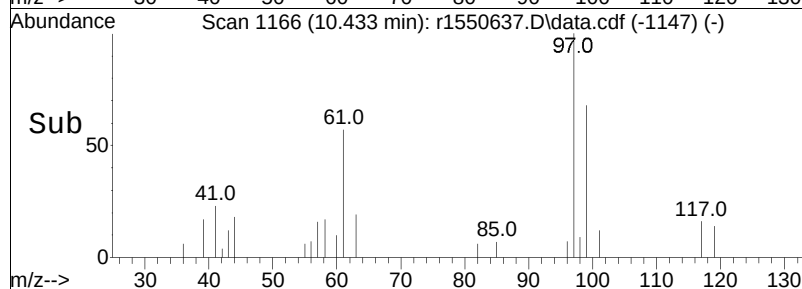
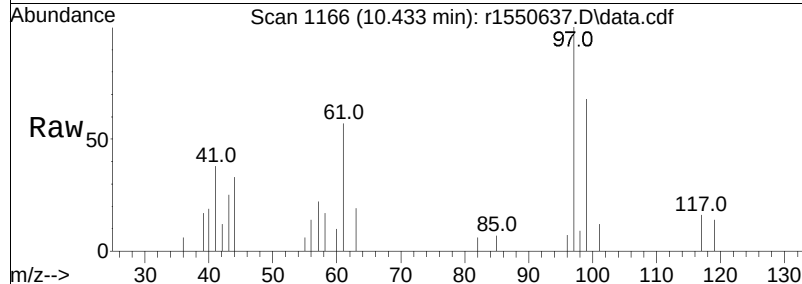
Tgt	Ion	Ratio	Lower	Upper
57	100			
43	58.2	141.0	211.4#	
86	14.2	12.2	18.4	

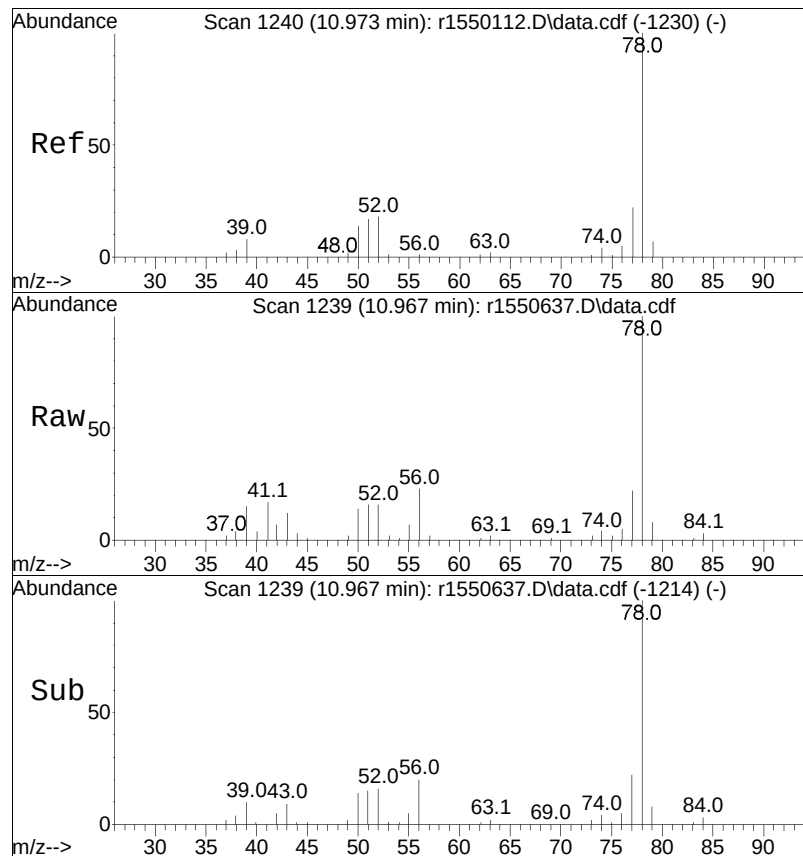




#48
 1,1,1-trichloroethane
 Concen: 0.13 ppbV
 RT: 10.433 min Scan# 1166
 Delta R.T. -0.042 min
 Lab File: r1550637.D
 Acq: 16 Oct 2024 10:35 PM

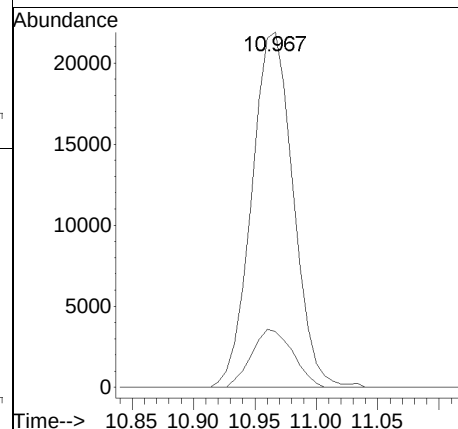
Tgt Ion	Ratio	Lower	Upper
97	100		
61	56.9	38.1	57.1
119	14.3	11.1	16.7

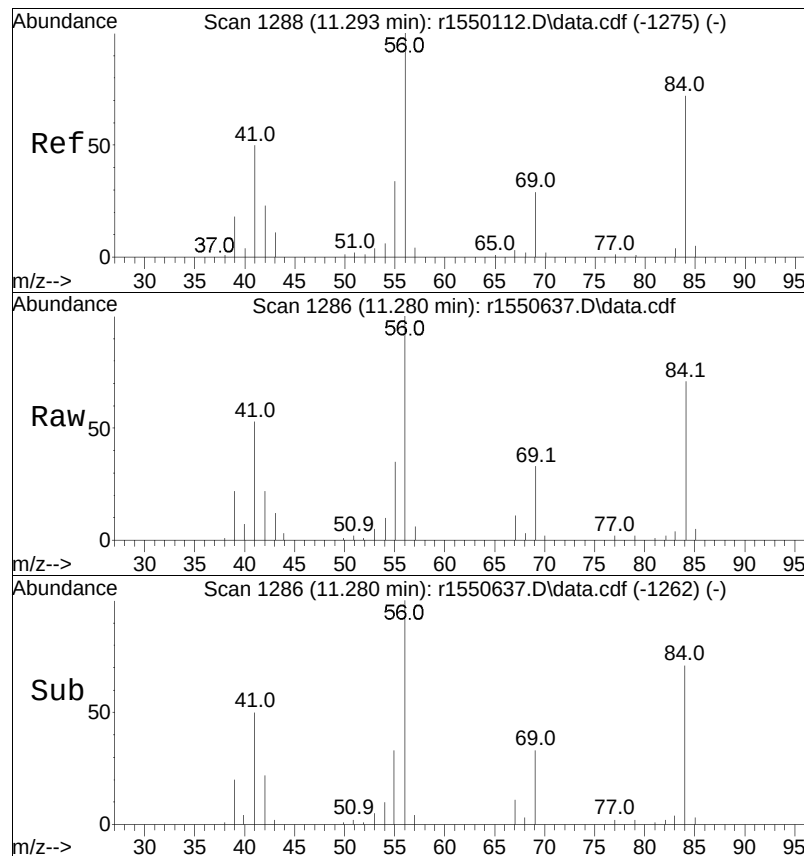




#50
benzene
Concen: 0.46 ppbV
RT: 10.967 min Scan# 1239
Delta R.T. -0.033 min
Lab File: r1550637.D
Acq: 16 Oct 2024 10:35 PM

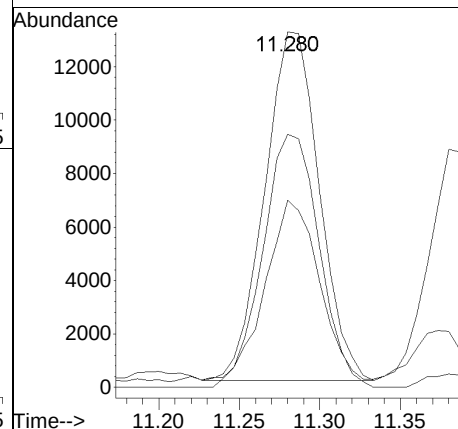
Tgt	Ion	Ratio	Lower	Upper
78	100			
52	15.7	12.8	19.2	

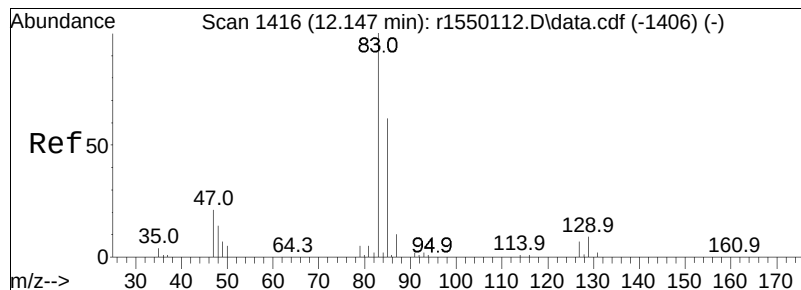




#53
cyclohexane
Concen: 0.50 ppbV
RT: 11.280 min Scan# 1286
Delta R.T. -0.040 min
Lab File: r1550637.D
Acq: 16 Oct 2024 10:35 PM

Tgt Ion	Ratio	Lower	Upper
56	100		
84	71.2	59.7	89.5
41	52.7	34.6	51.8#





#57

bromodichloromethane

Concen: 0.16 ppbV

RT: 12.140 min Scan# 1415

Delta R.T. -0.040 min

Lab File: r1550637.D

Acq: 16 Oct 2024 10:35 PM

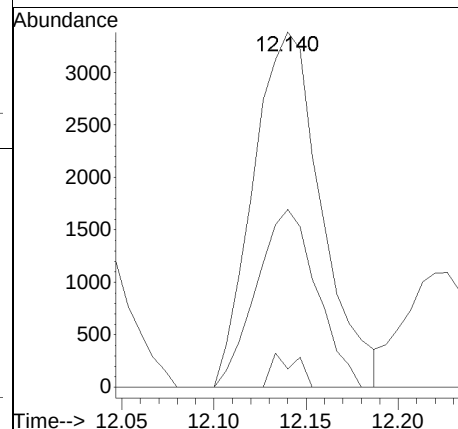
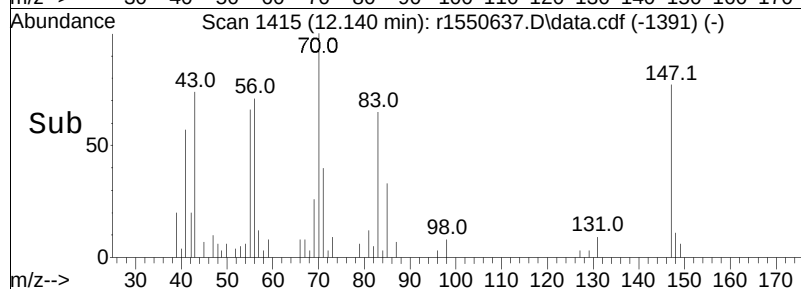
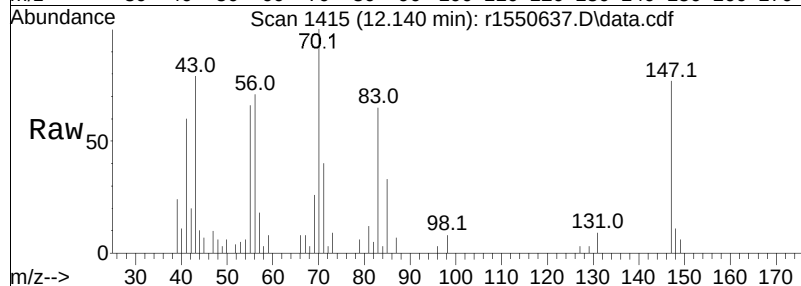
Tgt Ion: 83 Resp: 8712

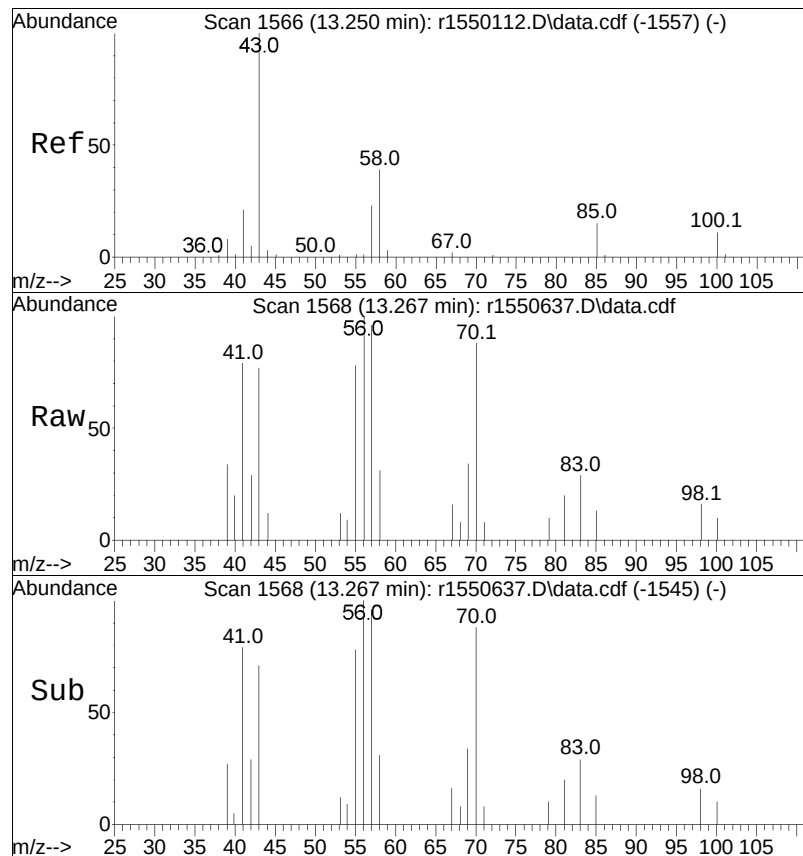
Ion Ratio Lower Upper

83 100

85 50.0 51.1 76.7#

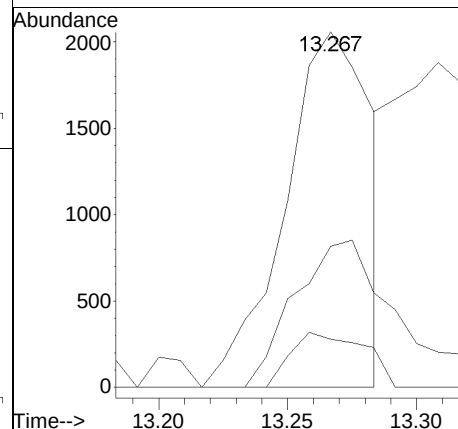
129 5.2 8.2 12.2#

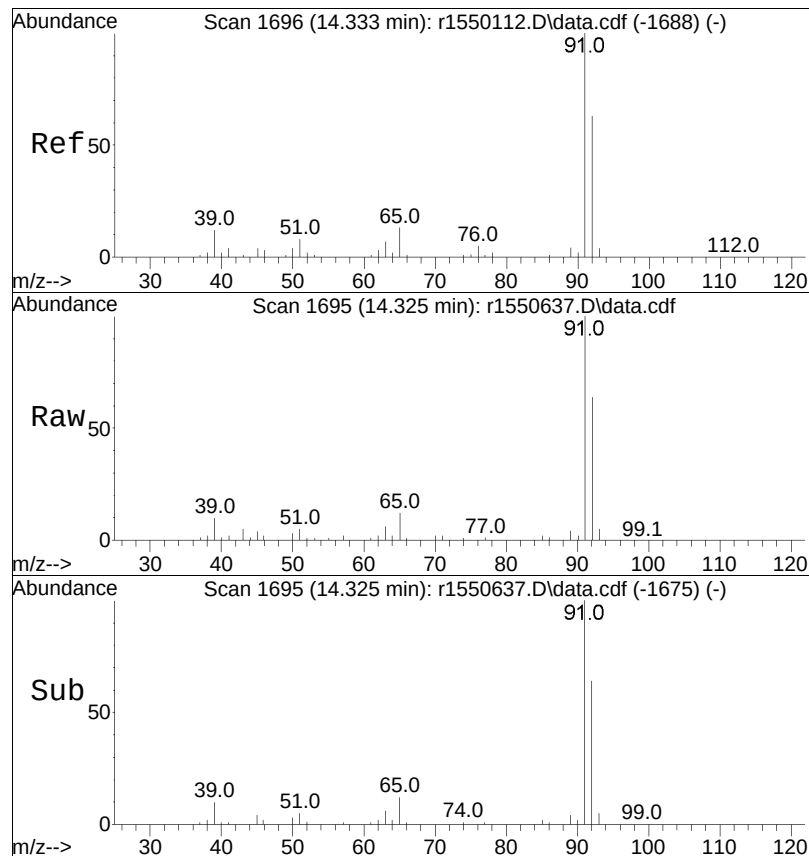




#64
 4-methyl-2-pentanone
 Concen: 0.07 ppbV
 RT: 13.267 min Scan# 1568
 Delta R.T. -0.008 min
 Lab File: r1550637.D
 Acq: 16 Oct 2024 10:35 PM

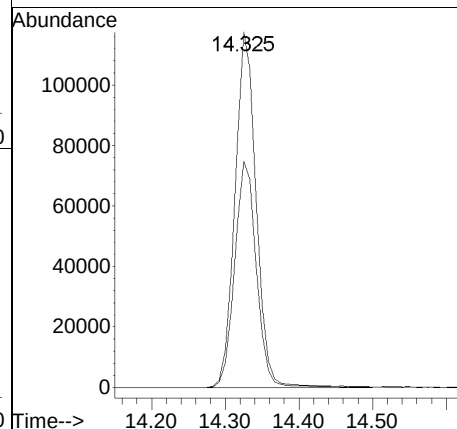
Tgt Ion:	43	Resp:	4773
Ion Ratio	Lower	Upper	
43	100		
58	39.7	39.0	58.6
100	13.6	12.8	19.2

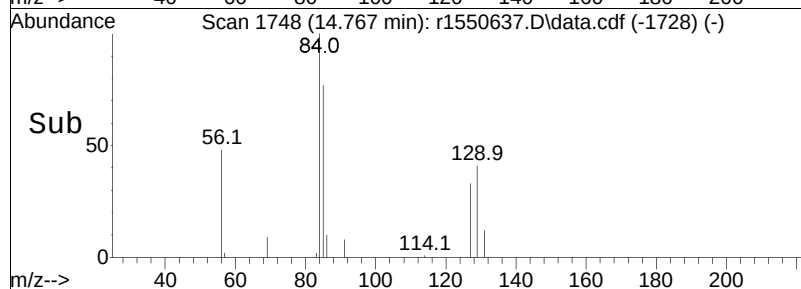
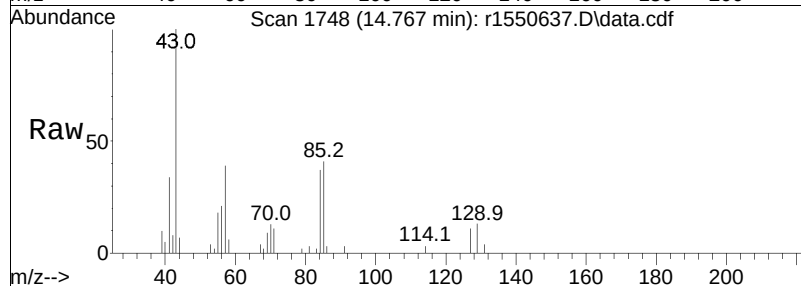
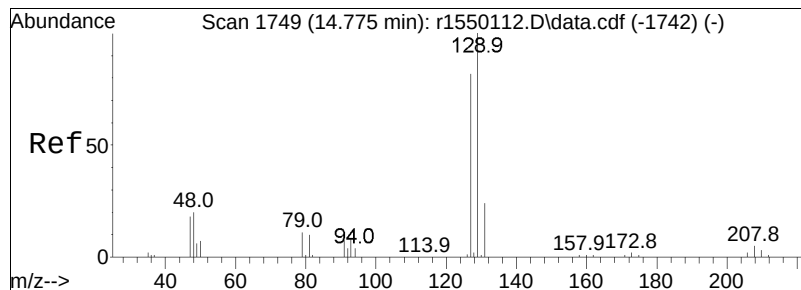




#68
 toluene
 Concen: 1.64 ppbV
 RT: 14.325 min Scan# 1695
 Delta R.T. -0.033 min
 Lab File: r1550637.D
 Acq: 16 Oct 2024 10:35 PM

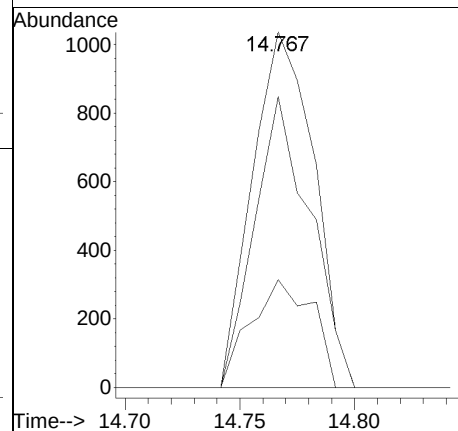
Tgt	Ion	Resp	Lower	Upper
91	100	235319		
92	63.6	51.6	77.4	

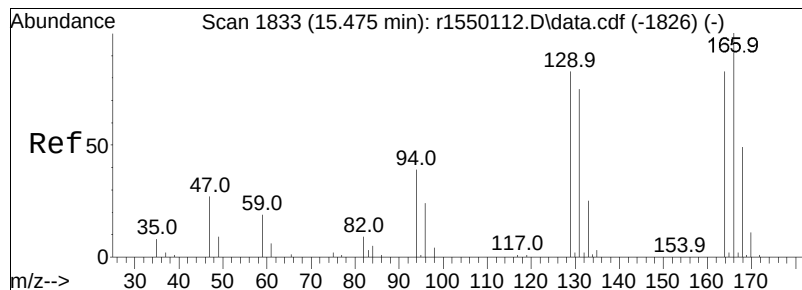




#74
dibromochloromethane
Concen: 0.03 ppbV
RT: 14.767 min Scan# 1748
Delta R.T. -0.033 min
Lab File: r1550637.D
Acq: 16 Oct 2024 10:35 PM

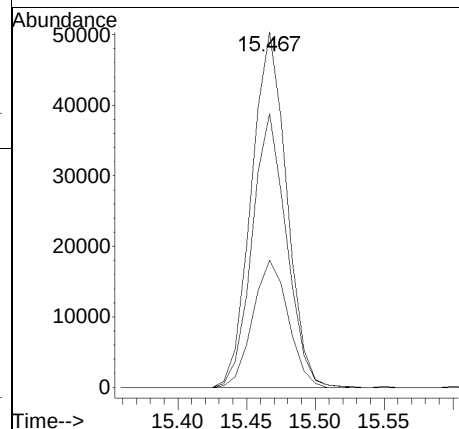
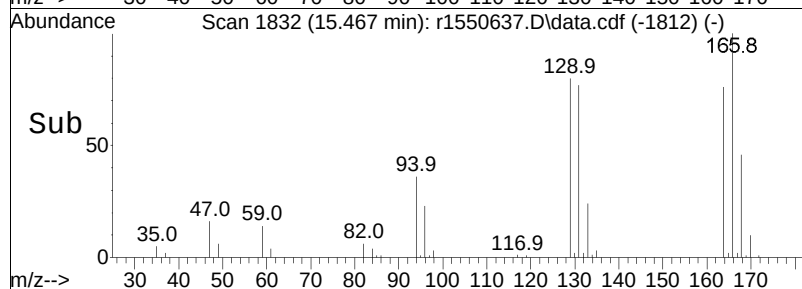
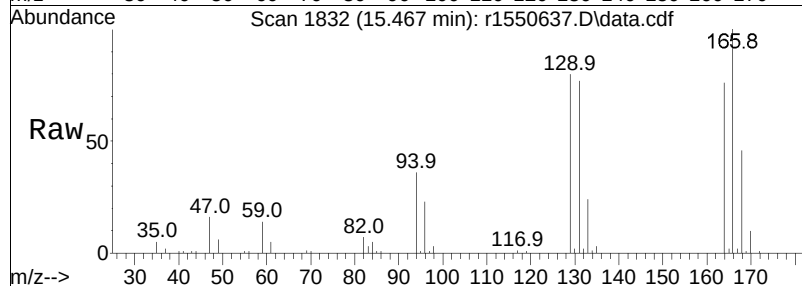
Tgt Ion	Ratio	Lower	Upper
129	100		
127	81.8	62.7	94.1
131	30.3	19.4	29.2#

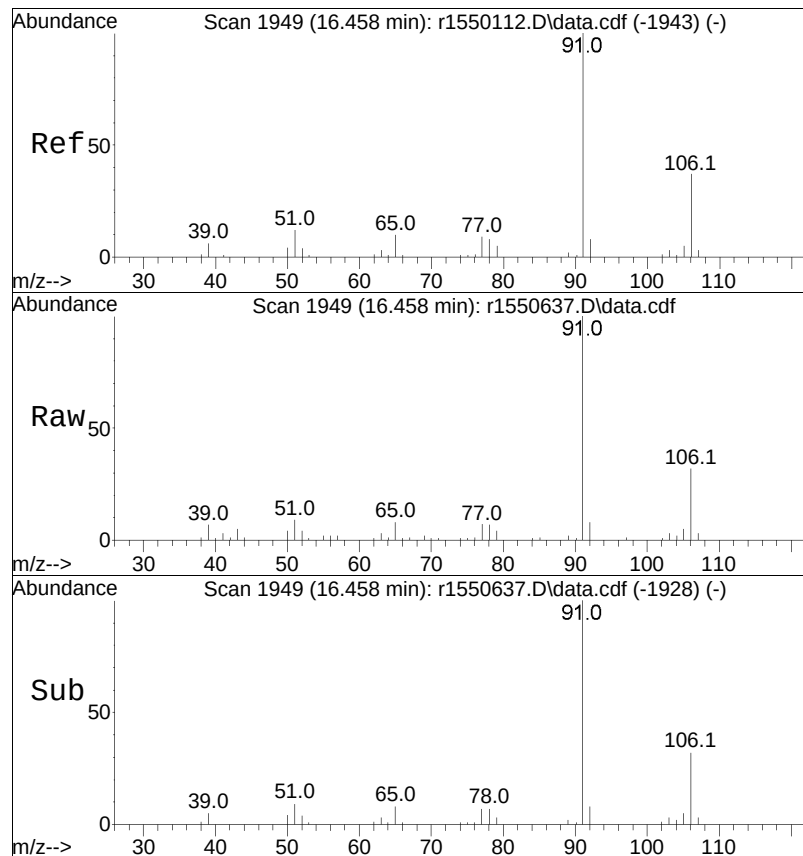




#78
 tetrachloroethene
 Concen: 1.52 ppbV
 RT: 15.467 min Scan# 1832
 Delta R.T. -0.033 min
 Lab File: r1550637.D
 Acq: 16 Oct 2024 10:35 PM

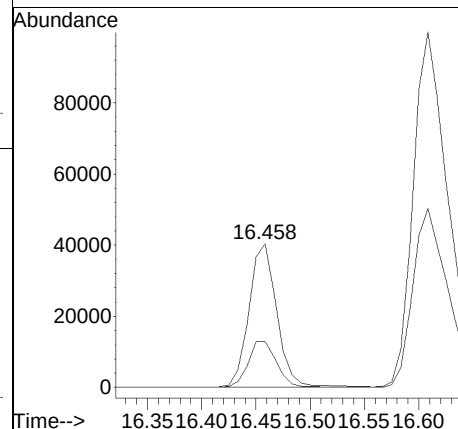
Tgt Ion	Ratio	Lower	Upper
166	100		
131	77.1	59.6	89.4
94	35.8	27.6	41.4

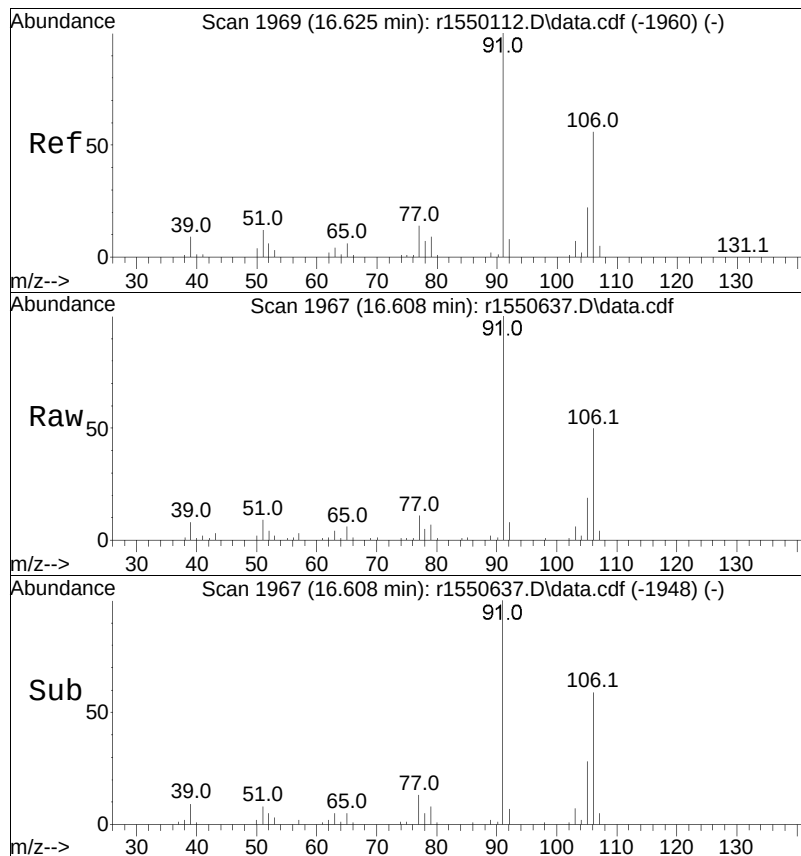




#81
ethylbenzene
Concen: 0.40 ppbV
RT: 16.458 min Scan# 1949
Delta R.T. -0.025 min
Lab File: r1550637.D
Acq: 16 Oct 2024 10:35 PM

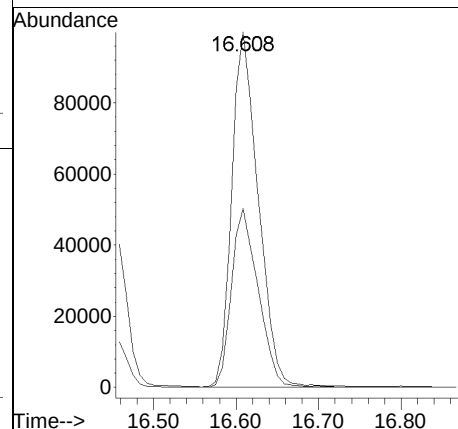
Tgt	Ion	Resp	Lower	Upper
91	100	72469		
106	32.0	27.6	41.4	

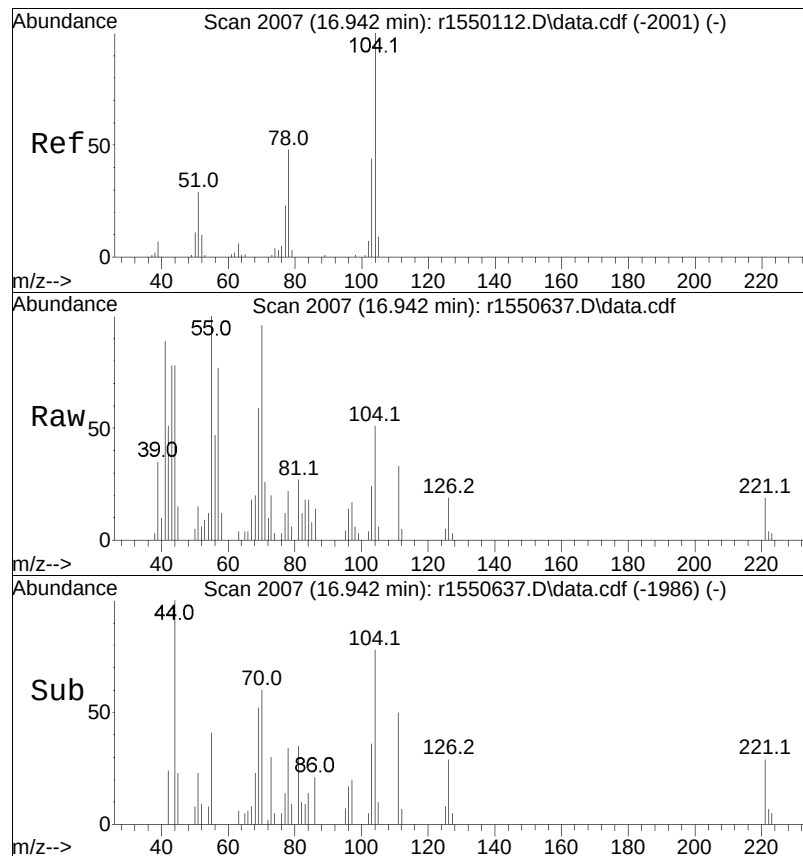




#83
 m+p-xylene
 Concen: 1.52 ppbV
 RT: 16.608 min Scan# 1967
 Delta R.T. -0.042 min
 Lab File: r1550637.D
 Acq: 16 Oct 2024 10:35 PM

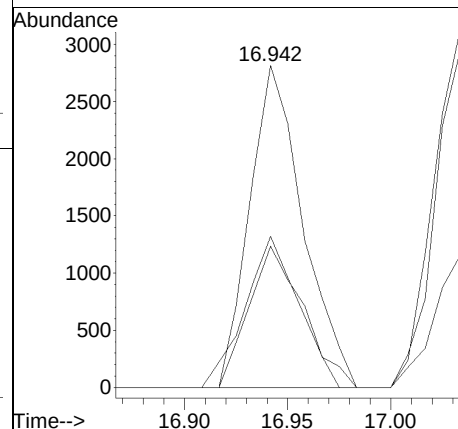
Tgt	Ion	Resp	Lower	Upper
91	100	221726		
106	50.3	42.1	63.1	

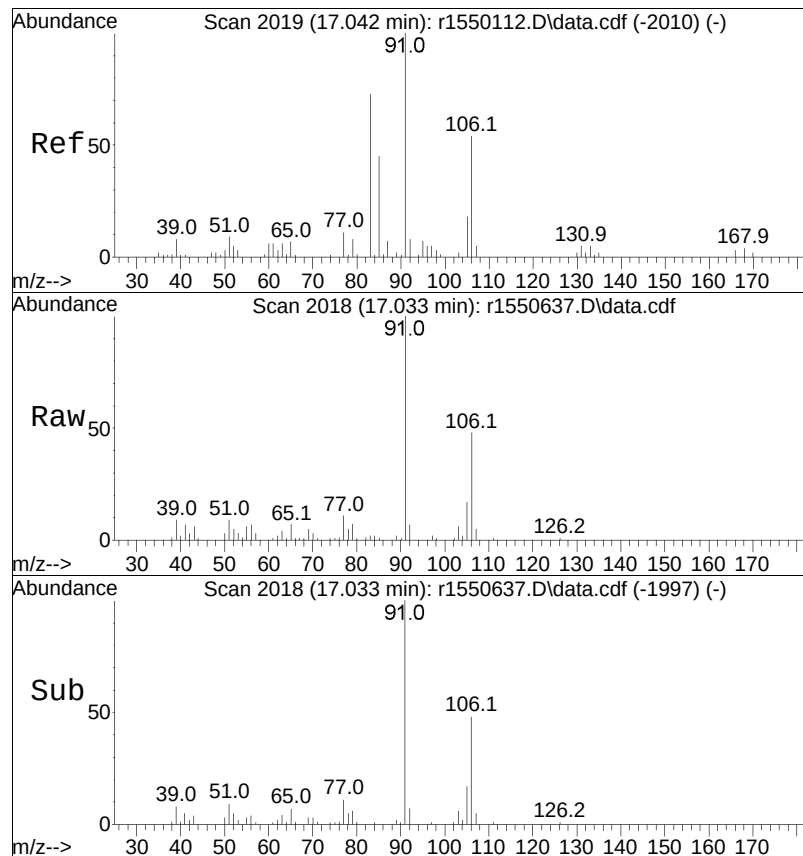




#85
styrene
Concen: 0.05 ppbV
RT: 16.942 min Scan# 2007
Delta R.T. -0.025 min
Lab File: r1550637.D
Acq: 16 Oct 2024 10:35 PM

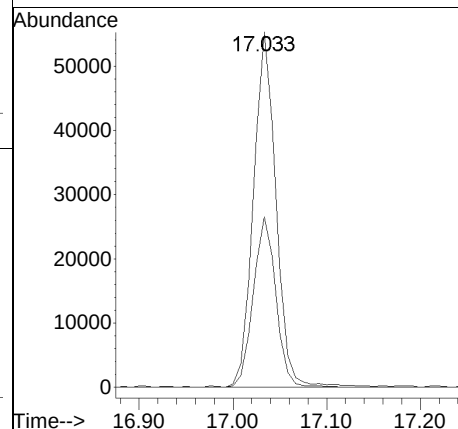
Tgt Ion	Ratio	Resp	Lower	Upper
104	100	5054		
103	46.9		34.5	51.7
78	43.8		34.6	51.8

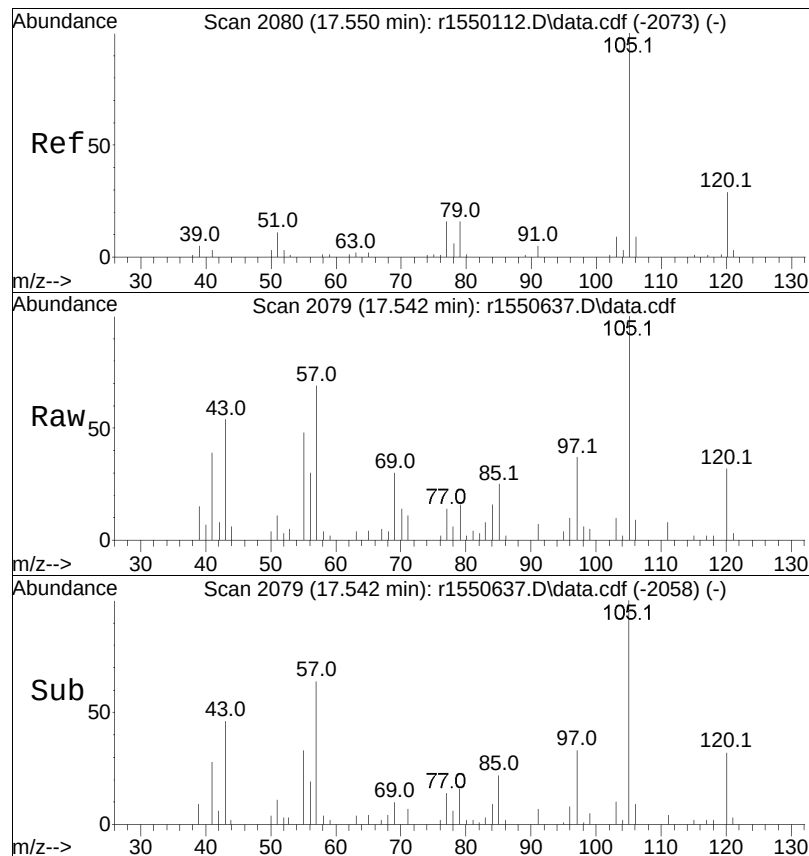




#87
 o-xylene
 Concen: 0.64 ppbV
 RT: 17.033 min Scan# 2018
 Delta R.T. -0.025 min
 Lab File: r1550637.D
 Acq: 16 Oct 2024 10:35 PM

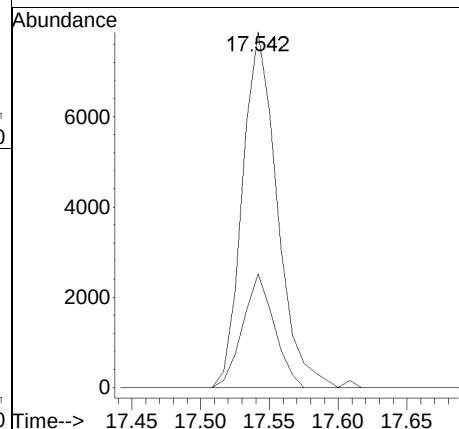
Tgt Ion	Ratio	Lower	Upper
91	100		
106	48.0	42.0	63.0

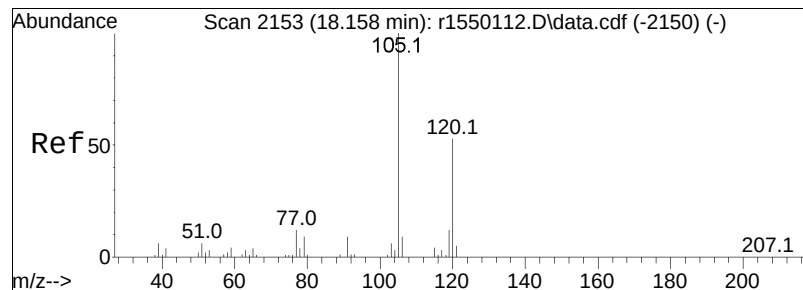




#91
isopropylbenzene
Concen: 0.07 ppbV
RT: 17.542 min Scan# 2079
Delta R.T. -0.025 min
Lab File: r1550637.D
Acq: 16 Oct 2024 10:35 PM

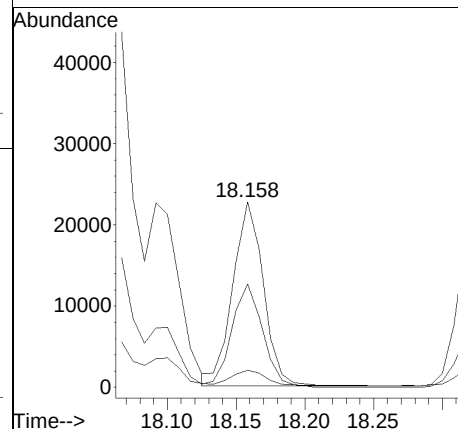
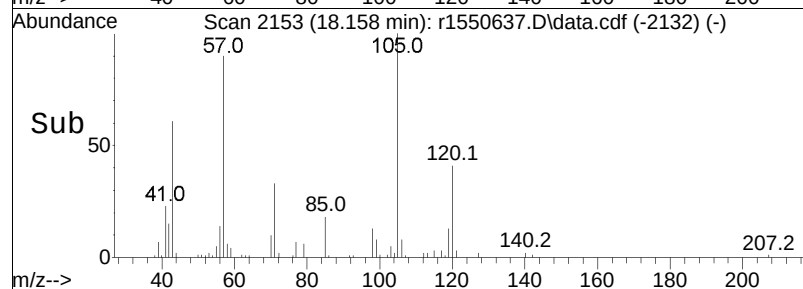
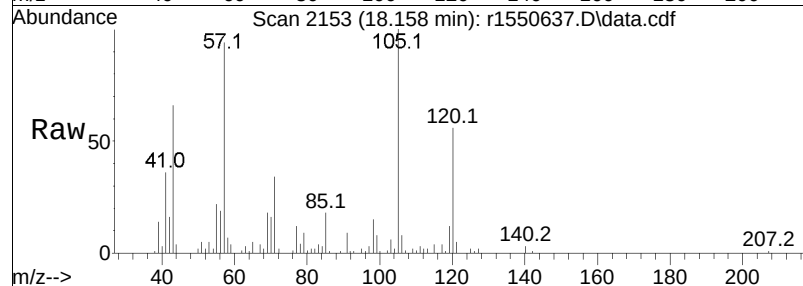
Tgt Ion	Ratio	Lower	Upper
105	100		
120	31.9	25.2	37.8

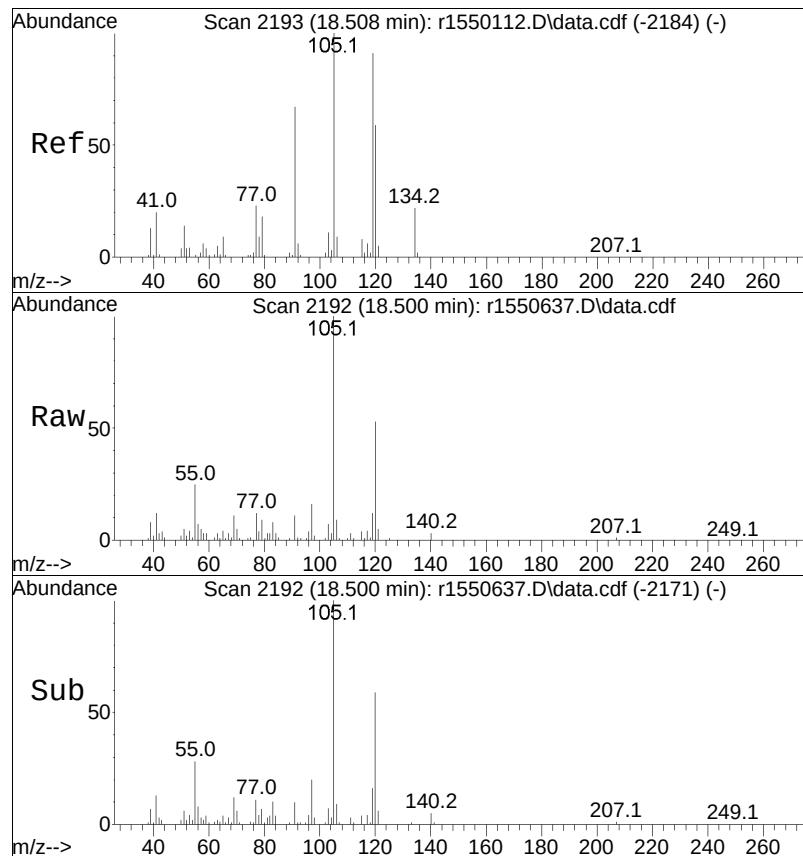




#97
 1,3,5-trimethylbenzene
 Concen: 0.21 ppbV
 RT: 18.158 min Scan# 2153
 Delta R.T. -0.025 min
 Lab File: r1550637.D
 Acq: 16 Oct 2024 10:35 PM

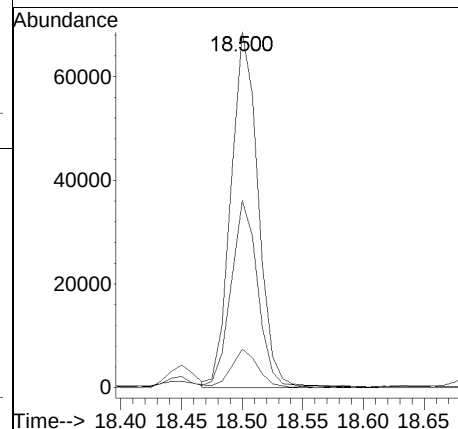
Tgt Ion	Ratio	Lower	Upper
105	100		
120	55.7	44.3	66.5
91	9.2	7.4	11.2

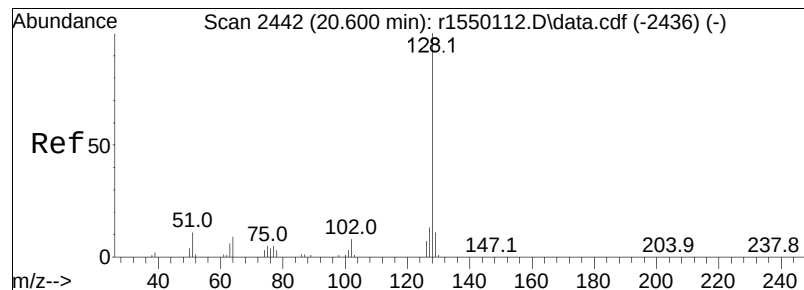




#99
 1,2,4-trimethylbenzene
 Concen: 0.66 ppbV
 RT: 18.500 min Scan# 2192
 Delta R.T. -0.025 min
 Lab File: r1550637.D
 Acq: 16 Oct 2024 10:35 PM

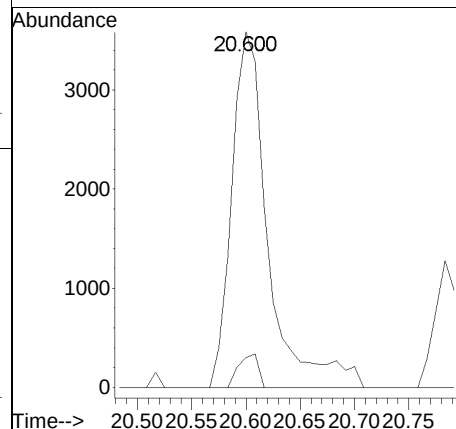
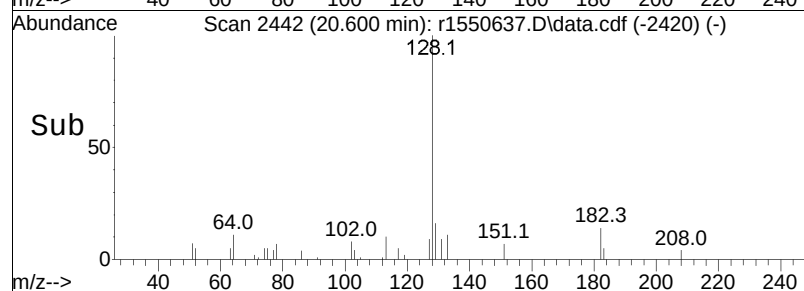
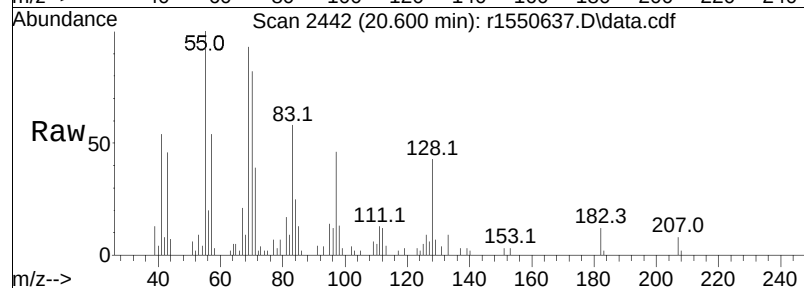
Tgt	Ion	Ratio	Lower	Upper
105	100			
120	52.6	50.1	75.1	
91	10.8	57.3	85.9	





#116
 naphthalene
 Concen: 0.04 ppbV
 RT: 20.600 min Scan# 2442
 Delta R.T. -0.017 min
 Lab File: r1550637.D
 Acq: 16 Oct 2024 10:35 PM

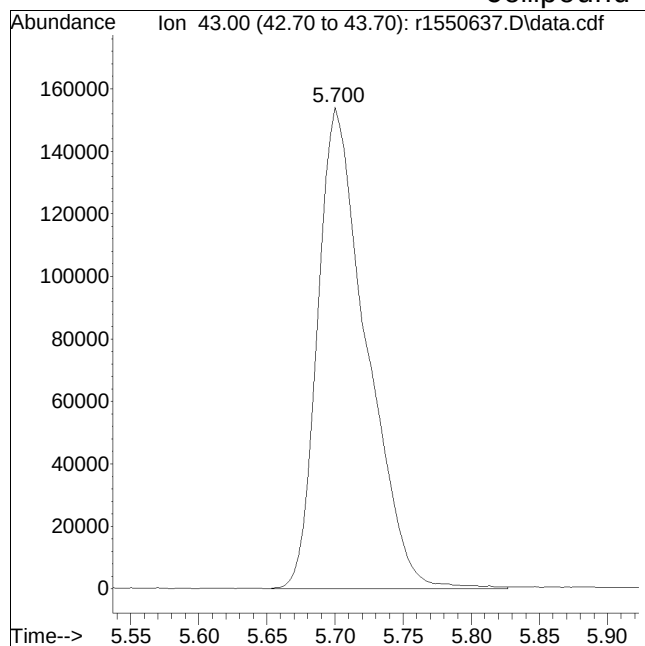
Tgt Ion	Ratio	Lower	Upper
128	100		
102	8.4	5.8	8.6



Manual Integration Report

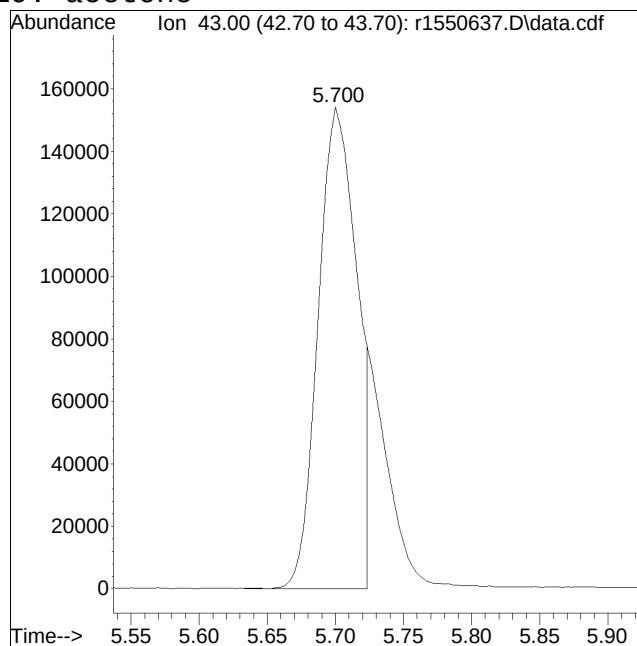
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_241007.M
Data File : r1550637.D Operator : AIRLAB15:JMB
Date Inj'd : 10/16/2024 10:35 PM Instrument :
Sample : WG1985226-5D,3,110.48,250 Quant Date : 10/17/2024 5:01 am

Compound #19: acetone



Original Peak Response = 383674

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 308625 M6

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, ppbv} = C_s \times \text{DF}$$

Where:

C_s = Concentration of sample (ppbv)

DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor

$$\text{DF} = V_{\text{cf}} / V_{\text{ci}}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

P =

Conversion of ppbv to $\mu\text{g}/\text{m}^3$

$$\mu\text{g}/\text{m}^3 = (\text{ppbv}) \times \text{MW} / 24.47$$

Where:

24.47 = molar gas constant (g/g-mole)

MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$$V_{ci} = 2.7 * PI / 14.696$$

Step 2: Calculate the volume in the canister after pressurization.

$$V_{cf} = 2.7 * PF / 14.696$$

Step 3: Calculate the dilution factor.

$$DF = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

PI = pressure reading of canister prior to pressurization (psia)

V_{cf} = volume of air in canister after pressurization, L

PF = pressure reading of canister after pressurization (psia)

DF = dilution factor

14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Oct 18 2024, 09:29 am

Work Group: WG1985226 for Department: 3 GC/MS

Created: 16-OCT-24 Due: Operator: JMB

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2459197-01	190-SV-1	S T015-LL	SOIL_VAPOR	DONE	U	1109	1018	S0	Can-1
L2459197-02	192-SV-1	S T015-LL	SOIL_VAPOR	DONE	U	1109	1018	S0	Can-1
L2459197-03	192-SV-2	S T015-LL	SOIL_VAPOR	DONE	U	1109	1018	S0	Can-1
L2459197-04	194-SV-1	S T015-LL	SOIL_VAPOR	DONE	U	1109	1018	S0	Can-1
L2459197-05	194-SV-2	S T015-LL	SOIL_VAPOR	DONE	U	1109	1018	S0	Can-1
L2459197-06	194-SV-3	S T015-LL	SOIL_VAPOR	DONE	U	1109	1018	S0	Can-1
L2459197-07	DUP-SV	S T015-LL	SOIL_VAPOR	DONE	U	1109	1018	S0	Can-1
L2459197-08	296-SV-1	S T015-LL	SOIL_VAPOR	DONE	U	1109	1018	S0	Can-1
L2459445-01	SV-06	S T015-LL	SOIL_VAPOR	DONE	U	1110	1018	S0	Can-2.7
L2459445-02	SV-05	S T015-LL	SOIL_VAPOR	DONE	U	1110	1018	S0	Can-2.7
L2459547-01	SVE EFFLUENT	S T015-LL	SOIL_VAPOR	DONE	U	1110	1018	S0	Can-2.7
L2459547-02	SVE INFLUENT	S T015-LL	SOIL_VAPOR	DONE	U	1110	1018	S0	Can-2.7
L2459618-01	311 KENWOOD-IA-01	S T015-LL	AIR	DONE	U	1109	1021	S0	Can-6
L2459618-02	311 KENWOOD-IA-02	S T015-LL	AIR	DONE	U	1109	1021	S0	Can-6
L2459618-03	311 KENWOOD-IA-03	S T015-LL	AIR	DONE	U	1109	1021	S0	Can-6
L2459618-04	311 KENWOOD-IA-04	S T015-LL	AIR	DONE	U	1109	1021	S0	Can-6
WG1985226-1	MS BFB Tune Standard	S T015-LL	SOIL_VAPOR	DONE	U				
WG1985226-1	MS BFB Tune Standard	S T015-LL	AIR	DONE	U				
WG1985226-2	Continuing Calibrati	S T015-LL	AIR	DONE	U				
WG1985226-2	Continuing Calibrati	S T015-LL	SOIL_VAPOR	DONE	U				
WG1985226-3	Laboratory Control S	S T015-LL	SOIL_VAPOR	DONE	U				
WG1985226-3	Laboratory Control S	S T015-LL	AIR	DONE	U				
WG1985226-4	Laboratory Method Bl	S T015-LL	AIR	DONE	U				
WG1985226-4	Laboratory Method Bl	S T015-LL	SOIL_VAPOR	DONE	U				
WG1985226-5	Duplicate Sample	S T015-LL	AIR	DONE	U				
WG1985226-5	Duplicate Sample	S T015-LL	SOIL_VAPOR	DONE	U				
Comments:									
WG1985226-5	L2459197-02								

ID: Airlab15
 Date: 10/07/24
 Initials: JFI

Internal Standard/Surrogate IDs: SS20-028 / SS21-026
 Internal Standard/Surrogate Volume: 100 ml
 Sequence File Name: 241007.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	ak Ch eck Pa
1	BA15092101	TO15_SFS.qgm	R1550419.qgd	250 mL			NA
1	BA15092102	TO15_SFS.qgm	R1550420.qgd	250 mL			NA
1	BA15092103	TO15_SFS.qgm	R1550421.qgd	250 mL			NA
1	TA15092101	TO15_SFS.qgm	R1550422.qgd	250 mL	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS.qgm	R1550423.qgd	50 mL SS24-032D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.05	TO15_SFS.qgm	R1550424.qgd	125 mL SS24-032D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.1	TO15_SFS.qgm	R1550425.qgd	250 mL SS24-032D	SIM ONLY	DEF	NA
6	ITO15-SIMSTD0.2	TO15_SFS.qgm	R1550426.qgd	50 mL SS24-032C		DEF	NA
6	ITO15-SIMSTD0.5	TO15_SFS.qgm	R1550427.qgd	125 mL SS24-032C		DEF	NA
6	ITO15-SIMSTD1.0	TO15_SFS.qgm	R1550428.qgd	250 mL SS24-032C		DEF	NA
7	ITO15-SIMSTD5.0	TO15_SFS.qgm	R1550429.qgd	125 mL SS24-032B		DEF	NA
7	ITO15-SIMSTD010	TO15_SFS.qgm	R1550430.qgd	250 mL SS24-032B		DEF	NA
8	ITO15-SIMSTD020	TO15_SFS.qgm	R1550431.qgd	50 mL SS24-032A		DEF	NA
8	ITO15-SIMSTD050	TO15_SFS.qgm	R1550432.qgd	125 mL SS24-032A		DEF	NA
8	ITO15-LLSTD100	TO15_SFS.qgm	R1550433.qgd	250 mL SS24-032A	LL ONLY	DEF	NA
1	BA15092101	TO15_SFS.qgm	R1550434.qgd	250 mL			NA
1	BA15092102	TO15_SFS.qgm	R1550435.qgd	250 mL			NA
2	CTO15-LLSTD10.0	TO15_SFS.qgm	R1550436.qgd	250 mL SS24-028E	LL ICV	DEF-ICV-AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1550437.qgd	125 mL SS24-028E	SIM ICV	DEF-ICV-AP2	NA

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

ID: Airlab15
 Date: 10/16/24
 Initials: JMB

Internal Standard/Surrogate IDs: SS20-028 / SS21-026
 Internal Standard/Surrogate Volume: 100 ml
 Sequence File Name: 241016.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	ak Ch eck Pa
1	TA15101301	TO15_SFS.qgm	R1550627.qgd	250 mL	TUNE		NA
3	CA15101301	TO15_SFS.qgm	R1550628.qgd	250 mL SS24-031E	LL CC		NA
4	CTO15-LLSTD10.0	TO15_SFS.qgm	R1550629.qgd	250 mL SS24-028E	LL LCS		NA
1	BA15101301	TO15_SFS.qgm	R1550630.qgd	250 mL	LL BLANK		NA
2	L2459618-01,3,250,250	TO15_SFS.qgm	R1550631.qgd	WG1985226,ICAL21580		5 CHLOR	Y
3	L2459618-02,3,250,250	TO15_SFS.qgm	R1550632.qgd	WG1985226,ICAL21580		5 CHLOR	Y
4	L2459618-03,3,250,250	TO15_SFS.qgm	R1550633.qgd	WG1985226,ICAL21580		5 CHLOR	Y
5	L2459618-04,3,250,250	TO15_SFS.qgm	R1550634.qgd	WG1985226,ICAL21580		5 CHLOR	Y
6	L2459197-01D,3,96.77,250	TO15_SFS.qgm	R1550635.qgd	WG1985226,ICAL21580		PA	Y
7	L2459197-02D,3,110.48,250	TO15_SFS.qgm	R1550636.qgd	WG1985226,ICAL21580		PA	Y
7	L2459197-02dupD,3,110.48,250	TO15_SFS.qgm	R1550637.qgd	WG1985226,ICAL21580	LL DUP	PA	Y
8	L2459197-03D,3,100.49,250	TO15_SFS.qgm	R1550638.qgd	WG1985226,ICAL21580		PA	Y
9	L2459197-04D,3,98.71,250	TO15_SFS.qgm	R1550639.qgd	WG1985226,ICAL21580	Methyl Methacrylate overcal	PA	Y
10	L2459197-05D,3,98.39,250	TO15_SFS.qgm	R1550640.qgd	WG1985226,ICAL21580		PA	Y
11	L2459197-06D,3,97.09,250	TO15_SFS.qgm	R1550641.qgd	WG1985226,ICAL21580		PA	Y
12	L2459197-07D,3,96.96,250	TO15_SFS.qgm	R1550642.qgd	WG1985226,ICAL21580		PA	Y
13	L2459197-08D,3,19.77,250	TO15_SFS.qgm	R1550643.qgd	WG1985226,ICAL21580	NT	PA	Y
14	L2459445-01D,3,40,250	TO15_SFS.qgm	R1550644.qgd	WG1985226,ICAL21580	NT	NY+NAPH	Y
15	L2459445-02D,3,125,250	TO15_SFS.qgm	R1550645.qgd	WG1985226,ICAL21580	NT	NY+NAPH	Y
16	L2459547-01D,3,65,250	TO15_SFS.qgm	R1550646.qgd	WG1985226,ICAL21580	T	NY+NAPH	Y
1	L2459547-02D,3,3.27,250	TO15_SFS.qgm	R1550647.qgd	WG1985226,ICAL21580	T	NY+NAPH	Y
9	L2459197-04D2,3,9.87,250	TO15_SFS.qgm	R1550648.qgd	WG1985226,ICAL21580		Methyl Methacrylate	Y

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

[illegible]

*N2 = Nitrogen and H2= Hydrogen

** Dilution factor on this spreadsheet may differ from reported dilution factor (calculated by LIMs) due to different rounding rules

*** Reported to 2 decimal places unless 0.01 or less; then 3 decimal places are reported

Analyst data input fields

Analyst Comments: